

1927
RADIO
CATALOG



**RANDOLPH
RADIO CORP.**

180 N. UNION AVE., CHICAGO, ILL.

HARRY J. BEIER

The new Symphonic 5

**LEATHER
FINISH**

\$85⁰⁰ Quality for \$24⁹⁰

Description of Symphonic

Beautiful Spanish leatheroid finish cabinet with sloping panel. **Modified straight line condensers** for sharp tuning and selectivity. Walnut finish panel, gold etched with large black knobs. All wiring under sub-base. Low ratio transformers, giving wonderful tone quality. Volume control by small knob. Quality of tone and clarity controlled by other knob.

Stations easily logged. All numbers read alike. Worth three times what we ask for it. Same construction as \$200.00 receivers.

Sweet in tone—so clear—so lifelike, the Symphonic Five will bring in stations thousands of miles away. **We have unsolicited testimonials** that stations from coast to coast have been received on this receiver. See our pages of testimonials of specified users. **All stations received clear and with great volume.** Minimized interference.

Easy to Install— No Experience Necessary

Full instructions. Just hook up the batteries and tune in. All wires attached to set before you receive it. Insert tubes and you are ready.

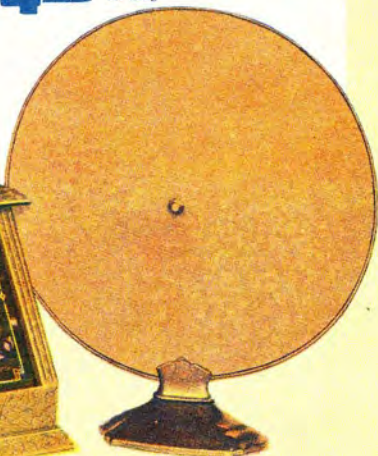
It is because these sets are manufactured in the spacious Columbia factory that we are in position to offer you this quality 5-tube receiver **at anywhere near this price.** Its wonderful construction and its simplicity has been marvelled at by users throughout the country.

R3013. Symphonic Five complete with 5 type X-201A tubes, 2—45 v. "B" batteries, 1—100 A. H. "A" battery, 1—"C" battery, complete aerial equipment, battery cable attached, including either cone speaker as pictured or Victor horn type speaker (state which). Nothing else to buy

\$24⁹⁰

R3012. Symphonic Five complete as pictured, but without loud speaker or accessories, but with battery cord attached, Columbia guaranteed, specially **\$24⁹⁰** priced—

\$54⁷⁵



Note.—For dry cell operation, purchase the Symphonic Five alone without accessories, so specifying. Also purchase 2—45 v. "B" batteries, 6—1½ v. dry cells, 1—4½ v. "C" battery, 5—type X-199 tubes, 1—Aerial kit, 1—Cone or Horn type speaker. A dry cell set will give a less volume than a storage battery set. Specify when ordering should you want the set for dry cell operation, otherwise the usual storage battery set will be furnished.



Set Details

The set itself is of the 6-tube variety, 3 stages of audio amplification and 3 stages of radio frequency amplification. Because of the extraordinary fine low ratio windings on the audio coils, excellent tone quality and good volume is a good feature of this receiver. The latest solenoid coils, modified straight-line frequency condensers, bakelite sockets permitting any of the X-type tubes finely etched walnut finished panels and two fine tuning knobs, giving the best selectivity one might desire. This is not just a 6-tube set, but every tube has its purpose and performs wonderfully well. The battery cord connection to the batteries is soldered right into the receiver. The panel matches the finish of the cabinet, which is dark with light shadings in offset.

Quantities Sold

We have thousands of unsolicited testimonials coming directly from users, proclaiming the wonderful results obtained with the Columbia receivers.

Wonderful results are being obtained by users all over the country. The efficiency of any receiver is proven by its popularity. The Wellington Six is taking the country by storm.

Beauty—Clarity

Let alone the beautiful lines and proportions and low price—it is clarity and tone quality which is now in demand—not only tone quality but good range. The volume control on this receiver permits a variation of tone quality and volume

Complete—With All Accessories

R3011 The Wellington 6 complete with 2—45-volt "B" batteries, 1—6-volt storage "A" battery, 1—"C" battery, 6 type X-201A tubes, including aerial equipment, battery cord and instructions for operation, ready to operate. Shipping weight 200 lbs.

\$77²⁵

For light socket set, select "B" battery eliminator and trickle charger from other pages to take the place of the "B" batteries. Buy the set alone and select the various accessories from other parts of our catalog.

Wellington Six Two Dial De Luxe

**A Six Tube Two Dial
Control Console Set At
Less Than a 5-Tube Set**

A BEAUTIFUL popular priced console receiver that far exceeds anything that has ever been offered. A powerful radio receiver with wonderful tone quality, simply controlled. Only two tuning dials. Anyone without experience can easily tune in any broadcasting station with this modern new receiver. The Wellington Console Six is finely constructed, mahogany two-tone finish and hand rubbed. An instrument of beauty and efficiency. The tone chamber is large with excellent acoustic properties. The grill is backed with beautiful gold silk cloth. Distinctively designed.

The Console De Luxe

Built up to a standard of quality and not down to a price, the console itself is a thing of beauty and a staple standard known quality. Two lower doors open on spacious compartments for batteries, eliminators, chargers, etc. The panel size is 7x18 and the console itself is 21" wide, 14" deep and stands 42" from the floor. It is not quite as high as the illustration might show. The set is exactly in proper position for tuning and when the door is open, a proper desk is provided. The loud speaker has a gold silk grill behind it, the top opens with a full long loud speaker throat, with which we provide a balanced type of diaphragm unit. It is exquisitely designed and of good quality.

**Look at Our Prices. Compare
Values. Distinctive and Beau-
tiful at a Popular Price**

R3010 This console is specially priced and is one of our leaders. It is just what you want. Its design will please you. Shipping weight, **\$54²⁵**
120 lbs.



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Shipping Information and How to Order

After you have looked through this catalog, selected such parts, sets or kits or whatever bargains you want, write on the order blank we have enclosed, with pen or pencil, the catalog number of each item, the name of the article, the quantity you desire and any other information which will help us avoid mistakes.

You may write the order on plain paper if you please. Be sure to give complete shipping instructions. Merchandise is generally mailed by parcel-post or express. If freight shipment is desired, please specify. When merchandise is not mailable on account of size or weight, please mention nearest express office.

Foreign Shipments

All territories and United States Possessions are figured as of eighth zone. Foreign countries are charged 14c per pound and are not insurable. Do not send star..... the postage; instead, add the amount of postage on your order and to your remittance. The rates shown below are closely approximated and should be used only when our catalog shows shipping weight instead of exact postage amounts.

Approximate Parcel-Post Shipping Rates by Weight and Zone

WEIGHT OF PACKAGE	LOCAL ZONE	ZONE 1&2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
From 4 oz. up to 1 lb.....	\$0.07	\$0.07	\$0.07	\$0.09	\$0.10	\$0.11	\$0.13	\$0.14
From 1 lb. up to 6 lbs.....	.10	.12	.18	.29	.40	.51	.63	.74
From 6 lb. up to 11 lb.....	.12	.17	.28	.49	.70	.91	1.13	1.34
From 11 lb. up to 16 lb.....	.15	.22	.38	.69	1.00	1.31	1.63	1.94
From 16 lb. up to 21 lb.....	.17	.27	.48	.89	1.30	1.71	2.13	2.54
From 21 lb. up to 26 lb.....	.20	.32	.58	1.09	1.60	2.11	2.63	3.14
From 26 lb. up to 31 lb.....	.22	.37	.68	1.29	1.90	2.51	3.13	3.74
From 31 lb. up to 36 lb.....	.25	.42	.78	1.49	2.20	2.91	3.63	4.34
From 36 lb. up to 41 lb.....	.27	.47	.88	1.69	2.50	3.31	4.13	4.94
From 41 lb. up to 46 lb.....	.30	.52	.98	1.89	2.80	3.71	4.63	5.54
From 46 lb. up to 51 lb.....	.32	.57	1.08					

INCLUDE SUFFICIENT POSTAGE. EXCESS AMOUNTS WILL BE REFUNDED

How to Send Money

Send money by postoffice or express money-order, blank draft or personal check. If it is impossible for you to obtain any of these, you may send currency wrapped in heavy paper by REGISTERED letter.

Order Blanks

Order blanks are included with each shipment. If extra ones are desired, write for them.

Catalog Numbers

Always quote catalog numbers. It helps us help you with quicker service and prompter shipment.

Console Cabinets

Please specify size of panel to be used on each console cabinet.

Read These RADIO FACTS

New progress in set design and operation has made radio the most marvelous accomplishment of the age. In your home, away from the entire world, you are in position to hear orchestras, dance music, market quotations, church services, speeches, athletic contests play by play, and thousands of other features, which are all yours. **It brings the world at your feet.**

We offer you radio in the form of our completed sets ready to operate, in the form of accessories, eliminators, loud speakers; we offer it to you in the form of kits, of completed nationally advertised parts of good quality for those who desire to "build their own." We also offer you the individual essential parts for anyone who desires to build in accordance with their own ideas.

We offer you loud speakers of proven merit; also the finest "A" and "B" battery eliminators and the various accessories to make it convenient for the set owner.

Thousands of Our Sets Giving

Pleasure to Many

The Randolph Radio Corp., after a number of years of selling radio sets and apparatus, is in better position to give you a good receiver for less money than you may be able to obtain elsewhere. Examine carefully the various styles of sets. They are built for every use. We make no exaggerated claims about them and such claims as are made have been made only after our own careful tests under normal operating conditions. Our sets are most beautiful and are wonderful values for the money. We do not believe you can obtain such values elsewhere. Note what our customers say about our sets on the bottom of this page. We have thousands of such unsolicited testimonials.

The Kits We Sell

If you are of a mechanical turn of mind, you are in position to select all of the latest 3, 4, 5, 6, 7, 8, 9, and 10 tube receiver kits, specified by all of the latest radio publications and in most popular tone. We furnish you genuine parts, just as listed in our catalog. We offer every help for the construction of our kits and will advise you and help you whenever you desire it.

We have kits for use for the beginner and for those well advanced in the science of radio, who desire to "build their own."

Our Parts

Look over our pages of parts. Note that they are all nationally advertised, well known materials of good value and good quality merchandise. We handle no "salvage" materials. We offer you only the best to be had in parts at the

most reasonable prices; yet our prices are extremely low and we offer you great savings.

Our Low Price Policy

Since the inception of our business, we have established a policy of offering you the lowest price commensurate with good quality. We ask you to compare our values. We ask you to investigate the comparative prices which we offer and which anyone else has to offer on the same quality merchandise. **The prices on our sets are incomparable.** Do not hesitate to buy because of their low price. We guarantee to replace any set which does not operate under normal conditions as we represent.

Quality and Service

To furnish quality at the right price is our aim. To give you more than your money's worth is the essence of our business. To ship what you ordered as soon as possible is our watchword. It is very seldom that we need back-order anything. We try to maintain a quick shipping schedule at all times. Note what some of our customers say about our service.

Our Guarantee

We guarantee every piece of radio apparatus we sell to operate in the manner intended for such apparatus.

Examine the goods we ship you; any article which does not meet our guarantee, if returned immediately, will be exchanged for perfect merchandise. We maintain a Laboratory where all merchandise is given a rigid test before it is offered for sale.

Sets are fully tested before they are shipped.

How We Offer You Such Bargains

You may be surprised at the low price at which we offer the quality console sets and table sets. You can readily understand that the tremendous buying power we have, together with our large factory contracting facilities and the 30,000 square feet of space we now occupy enables us to offer you these extraordinary bargains. We have an excellent manufacturing plant; we have a Chicago, the radio center of the world, where wonderful shipping facilities that are located in the heart of

We contract for thousands of dollars in consoles and cabinets long periods in advance at prices far below the market. We sell only good quality genuine walnut or mahogany finished console sets. Our radio sets are of the latest mechanical and electrical design and will be good years hence.

It is because of this that we are in position to offer you these extraordinary bargains in everything in this—our latest catalog.

Read What a Few of Our Thousands of Customers Say About Us

LOW PRICE

Randolph Radio Corp., Chicago, Ill.

I am really proud that I have taken your advice and invested my money in your radio. The neighbors are surprised at my getting such a radio equal to theirs for less money.

A. L. Ward,
Windsor, Fla.

EXCELLENT OPERATION

Randolph Radio Corp., Chicago, Ill.

Receiver arrived O. K. Working fine. Table is worth more than what you charged.

Hopf Vulcanizing Co., Pensacola, Fla.

BETTER RESULTS

Randolph Radio Corp., Chicago, Ill.

Talking about distance getting on your radio set—I got better distance than a fellow in my neighborhood who paid \$150.00 for his. The radio set he wanted \$130.00 for the set that I paid you so little for. Geo. S. Zelensky, Edenborn, Pa. Box 181, R. F. D. No. 1

BUILD FROM OUR SUPER PARTS. COST \$40.00

Randolph Radio Corp., Chicago, Ill.

I am very well satisfied with this Super-Heterodyne I purchased from you. I get great distance and wonderful volume.

Some people who have listened to it say it beats everything they ever heard. About six weeks ago, a party offered me an even trade for my set with a set which they have paid \$300 for. I refused as I am satisfied with my own.

Frank Kolesk, Decatur, Ill. St. Mary's Hospital

PROMPT SERVICE

Randolph Radio Corp., Chicago, Ill.

Will say shipment arrived March 19th O. K. Of the different radio companies we have dealt with, you have given the most prompt service.

Henry Kettle, Redding, Ia. March 24, 1926

MORE SUPER SETS

Randolph Radio Corp., Chicago, Ill.

I have received and built

your 8-tube Super-Heterodyne and I shall say that I am very very much satisfied with it. Achille Rolland, Mont-Rolland Co., Terrebonne, P. Q., Canada.

5-TUBE R. F. KIT

Randolph Radio Corp., Chicago, Ill.

Received your Radio Frequency Semi-Finished 5-tube Set, and am highly pleased with the operation of it.

Radio Sales Service Co., 305 Taylor St., Alpena, Mich., Nov. 24, 1925.

LOGGED 89 STATIONS

Randolph Radio Corp., Chicago, Ill.

I wish to recommend the Randolph Radio Corp. upon the super-excellence of its radio parts. On the set I built from

Randolph parts I logged 89 stations. I find it impossible to recommend highly enough your parts to my friends and neighbors.

Bob White, Topside Highlands, N. C.

QUICK ACTION

Randolph Radio Corp., Chicago, Ill.

I received my radio set and

it is working fine. I got Chicago the very first station on about 25' of inside aerial wire, from southwestern Iowa. I have received stations as far west as Arizona and as far east as New York City, in all 30 states.

Warren Schutz, Mackinburg, Iowa

REPEAT ORDERS

Randolph Radio Corp., Chicago, Ill.

This is my fifth order to you and I am well pleased with your goods. Curtis H. Murphy, R. F. D. 2, Box 33, Bardwell, Ky.

EASY TO OPERATE

Randolph Radio Corp., Chicago, Ill.

I put the set up last night and did not have a single hitch anywhere. It is the best set in town. I heard from all parts of the United States and am perfectly satisfied, and the instructions were so simple I installed it myself, having no knowledge of radio.

L. C. Wilkerson, Stovall, N. C.

RANDOLPH RADIO CORP., 180 N. UNION AVE., CHICAGO, ILL.

THE NEW Ampliphonic Six

The Latest Two-Dial Receiver

WITH THE
Genuine Amplion Unit

Perfection
of Tone
Quality



Genuine Walnut

Built to full size, not skimped, of genuine, heavy, dark-toned shaded walnut with beautiful matched burl inlay. This console is by far the best quality that can possibly be obtained for twice or three times the price. Of such pleasing proportions and exquisite design and artistic workmanship, that it will add to the appearance of any fine home. This genuine walnut console receiver will delight the most critical. It cannot be surpassed at any price.

Convenient Construction

Note the picture above and on the opposite page. The display shows the console both open and closed. The height of the console is 39 inches and the top is 27x16 inches. This does not take up too much room, but lends itself to a corner of your home economically. This set is convenient for tuning—only 2 dials and of the right height. The loud speaker is in position to fill your room with the soft tone qualities of the high-priced Amplion unit furnished.

Below, two small doors enclose a large compartment for all batteries, chargers, eliminators, etc. And above all, two large, full, long, genuine walnut, burl inlay doors close the entire front of the receiver so that it might look like a phonograph and make it appear as exquisite a piece of furniture as one might want.

BEAUTIFUL, faithful, undistorted reproduction is the radio watchword of the day. Perfect reproduction is much more than a word in the Ampliphonic. It is an actuality. The receiver, the cabinet with its wonderful large tone chamber and long air column and the famous Amplion unit all combine to bring out the full timbre of the symphony unbelievably realistic and the full round tones of the pipe organ basses with all of the overtones. An unusual development. Nothing else can equal it.

This highly efficient six-tube receiver with only two tuning controls installed in the beautiful solid walnut Ampliphonic Console. We predict that this splendid, graceful model will become the most popular radio receiver of 1927. We know that there is not another radio receiver of this style and design that is offered at anywhere near twice the price of the Ampliphonic Six.

No. R 3004

As a \$250.00 value receiver we offer it to you at a price which will revolutionize radio console set prices.

\$79.50

Shipping weight 135 lbs.

Powerful Receiver

This six-tube instrument combines quality reproduction with long range reception and selective operation. Only the finest apparatus. It will never become obsolete for it may be used with any of the new power tubes. We earnestly believe that this distinctive genuine walnut console alone would ordinarily be worth more than we ask for the complete powerful set which has such a long range.

Why the Price to You Is So Low

We have been extremely fortunate in contracting for a large quantity of these consoles and we are amongst the first to adopt this as one of our models. It is through volume purchases and numerous savings that we offer you this wonderful value at this ridiculously low price. The cabinet work is really a model of the master craftsman's art. The mechanical construction of the set contained in it is detailed in full on the opposite page.

Our Biggest Value

Genuine Walnut Console

The New Ampliphonic Six

Set Construction

NEEDLESS to say, the beautifully etched panel sets off this receiver. The burl walnut grain matches the walnut of the console. Two controlling knobs permit the finest tuning and the greatest selectivity. This permits perfect logging of stations. We have provided a means for power amplification should you desire it. This merely requires an additional 45-volt battery and one of our power tubes. Few sets on the market provide for this and it is an additional feature which makes the Ampliphonic more valuable.

The latest construction in receivers, including solenoid coils, bakelite sockets, taking all the latest X-type tubes, modified straight-line condensers and a volume control to permit greater or less volume, as you please.

Simple to Operate

The two dial control has rendered the Ampliphonic easy to operate. Full simple instructions accompany receiver and insure ease of operation. We are always within reach to help you get the best out of the receivers we sell you. Hundreds of unsolicited testimonials bear witness by our customers as to the results, selectivity, beauty and distance reception of Columbia Receivers.

No.
R3004

\$79⁵⁰

Shipping weight, 135 lbs.

Complete with Accessories

The Ampliphonic-Six complete with tubes and all accessories. We make this special offer. The complete new Ampliphonic-Six as pictured on this and the opposite page with storage battery, 2 45-volt B Batteries, 1 4½-volt C Battery, battery cable, 6 new type X-201A tubes, including the Amplion unit, complete, ready to operate.

Shipping weight, 230 lbs. **\$105.00**
R3005

Socket Power Set

R3006 Should you desire a power receiver to operate from your light socket, we have this combination to offer. The complete new Ampliphonic-Six as pictured—1 50-amp. storage A battery, 1 4½-volt C battery, battery cable, 6 type X-201A tubes, 1 Balkite Combination model KX, including Balkite B Eliminator and Balkite Trickle Charger and complete antenna kit. This combination Balkite power unit is the very latest and the most desirable of the Balkite units. Coupled with a storage battery it supplies both A and B current continuously without need of recharging. Equipped with an automatic relay. The switch on the radio set automatically controls the power unit. No additional switches necessary.

Shipping weight, 225 lbs.

\$157.40

Real Tone Quality

The Ampliphonic-Six is a tribute to our engineers' ability. Each of the six tubes function to the greatest efficiency. Three stages of low ratio high quality transformer amplification insure enormous volume of all signals. Our laboratories have proven the efficiency of transformer coupling. In addition to the two standard audio transformer stages there is a third stage so designed that greater amplification is obtained with no possible suggestion of distortion. Quality of reception and tone quality are of prime importance.

The Amplion unit, known the world over, faithfully reproduces over the entire musical scale. The long and extra large tone chamber of the Ampliphonic is a feature found in no other radio receivers. Reproduction is remarkably realistic. While the quality of tone and not range of reception is a prime factor, the Ampliphonic circuit is so efficient that coast to coast reception with full volume is possible under favorable conditions.



Fully metal shielded panel insures low losses and sharp, clear reception.

The simplicity of its operation has increased its value. Good quality and beauty. Do not judge it by its absurdly low price. Quantity purchases does it. Do not forget—2-dial set, 6-tube, wonderful construction, beautiful console, latest model, lowest price.

Latest Columbia Ace

*The Wonder of Six Tube
Localized Control Receivers*



R3032
A tone quality
receiver with
selectivity and
long range. A real beauty.

YOUR PRICE

\$59⁸⁵

**Set
only**

Shipping weight 140 lbs. Transportation charges extra.

The Columbia Ace console receiver, as pictured on this and the opposite page without accessories, is a \$135 to \$150 value according to the present comparative values. Take advantage of our low prices.

Simplified Control

LOCALIZED control eliminates the knobs or dials of the receiver. One set of three drums rotated with the fingers and bearing logging numbers permit easy tuning. It eliminates unsightly large dials and makes the set attractive. It is the new localized and simplified control of tuning and it is through this means that stations are tuned so sharply. This apparatus is specially constructed for us and is one of our new and novel features.

Tone Quality

While this receiver is of the standard tuned radio frequency type, it is the refinements of it which allow the fine quality of tone and the excellent volume. Volume without tone is worthless and it is to this end that this receiver has been built.

Fine Tuning

No jumble of stations, little interference. You select the stations. Solenoid coils and modified straight line frequency condensers help sharper tuning.

The Speaker Unit

One of the features of the Columbia Ace is the fine balanced diaphragm speaker unit. Units of this type have sold as high as \$12.00 and \$15.00. It is the delivery of the

volume and the moderated pitch which gets the low notes and the high notes of broadcast reception at a well-modulated quality of tone.

Set Specifications

The Columbia Ace, as a 6-tube, 2-dial set, would ordinarily be marketed for many times our list price, but along with our policy of low prices, we offer the same high-grade walnut-finished panel, the same cleanness of set construction, including those refinements such as bakelite sockets, modified straight line condensers, solenoid coils, gold etched and embossed panel and 3 stages of low ratio audio amplification. It is this additional expenditure that we have made in the audio transformers which permit the mellowness of tone and the clarity of reception. It is in this manner that we avoid the harsh tones and bring in the fullness of even the low notes of the organ.

Beautiful Genuine Walnut Console Set—Two Tone

Powerful six tube localized control receiver installed in a beautiful finely finished genuine walnut console cabinet

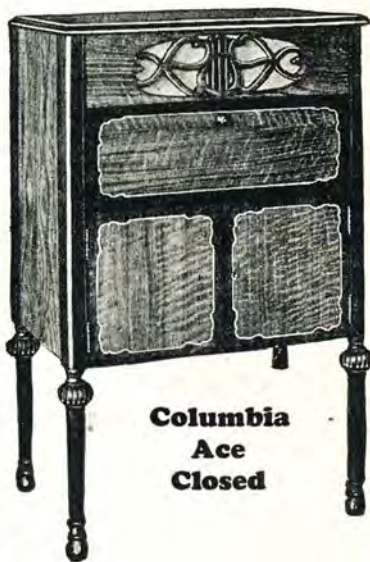
The Columbia Ace—a popular model at a popular price

You would reasonably expect us to ask twice as much as we do for an efficient receiver of this console model type. The price at which we are offering the Columbia Ace in no way indicates its real value.

Genuine Walnut Console

The console cabinet in which the powerful six tube instrument is installed is finely and ruggedly constructed. It is a genuine walnut cabinet not an imitation transfer to appear like burl walnut. The finely grained doors and side of this console are genuine walnut.

The Columbia Ace is nationally known. It has gained a remarkable reputation and we have thousands of unsolicited testimonials from our customers who, being enthused with the remarkable results obtained with their Columbia Ace receiver, wrote us to tell us of the splendid performances, of the selectivity and ease of tuning, of the many distant stations received and of the faithful reproduction.



**Columbia
Ace
Closed**

Designed and approved by radio engineers with national reputations, the Columbia Ace ranks with the finest of receivers. Unequaled at the Price.

Permits Power Amplification

Few 6-tube sets are built so that a power tube may be put in the last stage. No expert or advice or information is necessary. If you desire tremendous volume for concert halls or dance halls, you may insert a power tube selected from our catalog, possibly type X112 and insert same and use it with the addition of 1—45-volt "B" battery; or, if you prefer, you may eliminate all "B" batteries by substituting in their stead one of the dozen "B" battery eliminators we have listed elsewhere in this book, either the Balkite or Raytheon eliminator type, both of which are easily installed.

Complete with Accessories

No. R3033—The beautiful Columbia Ace 6-tube console complete ready to tune in including 6—type X201A tubes, 2—45-volt "B" batteries, 1—"C" battery, 1—100 amp. hr. storage "A" battery, complete aerial equipment, battery cable attached, full instructions ready to operate. Complete, nothing else to buy, with complete simple operating instructions.
Shipping weight, 230 lbs. Transportation charges extra.

\$83.75

If you desire "B" battery eliminator purchase the above items individually substituting the "B" battery eliminator for the "B" batteries. A trickle charger will also supply the storage battery with sufficient current. See our power supply pages. It will profit you.

Columbia Marquis Six

The Latest in

Simplified Control



Shipping
Weight
150 lbs.

No. R3007.

\$98.50

**Actual Retail
Value \$275.00**

The Columbia Marquis 6, simplified control, completely built but without any accessories, as pictured on this page and on the opposite page, is offered to you fully one-half as low as an instrument of this type could possibly cost you elsewhere.

Amplion Unit Speaker

The loud speaker built into this receiver is of a type to permit the greatest volume with the finest tone quality. We have selected the Amplion unit, actually a \$17.50 and a \$25.00 value, to serve in this receiver, as it is universally known as the most powerful unit and a unit which will render the low and high pitches of even an organ recital to the finest advantage. Music lovers have long endorsed the Amplion units and speakers as of the finest obtained.

Notwithstanding its exceedingly high cost, we felt that it would be no more fitting for this high-grade set than to embody it as an integral part of this set and the unit is built into every Columbia Marquis 6 receiver. Imagine the value! Compare the price of our entire console set with any other price of a receiver which is half as good. Compare it in price with even the cheap sets and you will find the Columbia Marquis superior to the world's finest receivers and lower in price than many mediocre instruments that will perform nowhere near as good and which sets may compare nowhere near in appearance. **We challenge the world to meet this value.**

Power Amplification

Most 6-tube receivers have not embodied in them what the Columbia Marquis 6 offers. By the mere substitution of one of the power tubes (the X-type No. 112 is suggested), you may increase the volume to whatever you might desire. This is a feature not offered

in other 6-tube receivers, and although it is not necessary for large volume, one may desire it for entertainments, concerts, announcements, football games or other public purposes. It is a wonderful manner of operating the receiver.

TO THE left and on the page opposite is pictured the last word in console construction and in simplified control. No doubt but that the demand has increased for simpler control. Easier tuning. Years ago radio users were discouraged by the the numerous controls the sets had, as it complicated tuning and reception.

You have seen this style of set before, but never at this price. Three cylinders rotate in the center of the receiver, each of them making tuning simpler and easier. They are numbered sharp and plainly, making logging of stations simple. Two additional knobs are on the panel controlling the volume and clarity.

Set Construction

The usual Columbia accuracy, the latest Columbia accuracy, the latest solenoid coils, modified straight line frequency condensers, etched walnut finished panel and the efficient manner of construction generally expected in Columbia receivers are embodied herewith. This is unquestionably a receiver which will give you great selectivity, tremendous volume and a great receiving range. **Metal shielded panel adds selectivity.**

Console Style

This console model is of full large size. The top is 35" wide and 19" deep. Height of console set 46". Two compartments below are large and roomy for batteries, chargers, eliminators, etc. When the set is not in operation, it may be closed up to portray not only the genuine walnut, but the exquisite contrasting burl walnut overlays.

Localized Control

We cannot emphasize sufficiently to you nor have you realize the full worth, the tuning ease, the natural advantage of this localized control which permits you to tune the set with one hand and log your stations with the other. The design of the set is such that its beauty is enhanced by the mere appearance of the panel and it is the appearance as well as the operation which makes this a desirable receiver.

World's Finest Console Set

with

Genuine \$17⁵⁰ List Amplion Unit

The Marquis Closed

HERE is pictured the Marquis 6 closed and in full operation. We can safely say that the illustrations herewith do not do the console appearance justice. Note the finely designed burl walnut trimming. Note the dark burl walnut in contrast. See how the set itself is at the right height. How the loudspeaker is in position to give the most pleasing tone distribution throughout the room or the dance hall. Remember that this is thick, genuine walnut. No flimsy material. Remember that the best of materials have been used in the construction of the receiver and the console itself.

Our Price Is Beyond Compare

If you will draw a comparison between what we offer you in the Marquis 6 with any console of similar quality, you will find that in practically no instance do the individual features of anyone's set compare with ours, either in the simplified localized control, in the Amplion unit, genuine walnut construction and last, but not least, the 6-tube clearly selective receiver of low loss construction.

Details of Construction

The battery cable connected generally to the batteries is connected right to the terminals of the receiver. The panel is 7x18 walnut finished. The sockets are of the sure contact kind. Three stages of low ratio audio frequency insure tremendous volume. The volume control permits the finest variation in tone shading.

We offer the Columbia Marquis 6 complete with all accessories. This will enable you to buy this wonderful receiver as a complete unit together with everything that will make it operate. It is our unique plan in offering the console set in this manner that you may buy a radio receiver complete ready to install and operate—not piecemeal, as others offer sets and various accessories.



Completely Equipped Including Amplion Unit

Shipping weight, 225 lbs.

R3008 Columbia Marquis 6 as pictured and fully described on this and the opposite page complete with all accessories. This includes the Columbia Marquis 6 console set with 6 type X-201A tubes, 1-6-volt, 100 amp. hr. storage "A" battery, 2-45-volt "B" batteries, 1-4½-volt "C" battery, complete aerial equipment and instructions for operating, including the world-famous Amplion unit inside of the receiver.

We have thousands of unsolicited testimonials of Columbia set owners. Thousands have been more than pleased with the wonderful values and results obtained. See our testimonial pages elsewhere in this book.

\$122⁴⁰

For Socket Power

R3009 For such who prefer the Marquis 6 for socket power from the lighting system, we offer the following combination: 1-50 amp. hr. storage battery, 1-4½-volt "C" battery, 6-type X-201A tubes, complete aerial equipment, and instructions for operating, including built-in speaker unit in addition to the Columbia Marquis 6 console set complete and 1 BALKITE MODEL K-X, WHICH INCLUDES THE "B" BATTERY ELIMINATOR AND TRICKLE CHARGER FOR "A" BATTERY. This Combination Balkite Power Unit is the latest and best type. The switch on the set turns the entire "B" eliminator off and automatically starts charging the storage battery. Nothing else necessary for a socket power Marquis 6 set.

Your Price
\$170⁹⁵

The Aristocrat II

Distinctive Six Tube Two Control Set Genuine Walnut Console

Low boy finely constructed console in which is installed the wonderful, powerful Columbia, six-tube two-dial chassis. So selective that it will separate powerful local broadcasting stations and enable anyone without experience to tune in distant stations with volume and fine tone quality.

The speaker is the throat of the receiving set. The Aristocrat II has a large tone chamber with long throat and air column. Console of genuine walnut beautifully shaded.

It is equipped with a fine unit of the balanced armature type which will faithfully reproduce with volume the basses and trebles; the entire musical scale. The perfection of tone quality will amaze you. Pure lifelike reproduction.

POWERFUL and SIMPLE to OPERATE

Modern in every sense of the word. Simplified tuning is a development of particular note in the new receivers. Only two tuning controls, yet more tubes and greater power. With few controls anyone can tune in the distant stations easily with this powerful instrument.

The three stages of audio frequency amplify to such an extent without distortion that the programs from stations many miles away are reproduced with the same fidelity and volume as local stations. You will be amazed at the performance of this receiver and the results that you will obtain with it.



Satisfied Owners the World Over

Columbia receivers are satisfying users in all parts of the world. The testimonials received from thousands of customers who are enthusiastic over the performance of their radio receivers are proof of the efficiency, worth and popularity of these splendid instruments.

Enjoy the world's finest programs. Listen to famous artists singing and performing in your own home. Grace your home with a console receiver of attractive beauty which will cost you no more than many smaller, less attractive and less efficient sets will cost you. Genuine walnut with beautiful burl walnut overlays. The illustrations fittingly show the beauty and grace of this splendid console. A master craftsman's work.

Our offer. The Aristocrat II as pictured without accessories. **R301** Shipping **\$69⁵⁰**
weight, 130 lbs....

Completely equipped. Purchase the Aristocrat with all accessories for complete installation and operation. With 6-201A tubes, 1-6-volt 100 amp. storage battery, 2-45-volt "B" batteries, 1 "C" battery, complete aerial equipment with battery cord attached, fully crated. This includes the large balanced diaphragm unit, with complete instructions. **R302** Shipping **\$93⁴⁰**
weight, 210 lbs....



Aristocrat II Closed

Should you desire the Aristocrat II for socket power use buy the set alone and select the following accessories from other pages of the catalog:

Six X-201A tubes, one "B" battery eliminator, one 4½-volt "C" battery, one "A" power unit, one Trickle Charger and storage battery, and one aerial kit.

Columbia Princess

With Genuine Amplion Unit

A Beautiful Six-Tube Two-Dial Control Console

An Exquisite Cabinet



THE beautiful design of this ornamental cabinet will fit the most exacting requirements of the finest home. Made of solid walnut throughout and with a beautiful hand-rubbed finish; with a deep dark burl and stump walnut inlay, this console is incomparable. It needs to be seen to be appreciated. Size of console 35" wide, 19" deep and 46" high.

Volume and Tone Quality

The tone quality is true and lifelike. The six-tube circuit is designed to give greatest efficiency per tube. Each tube functions to full efficiency. The two-dial control permits ease of operation and insures selectivity because of the matched units.

Three low ratio transformer-coupled audio stages deliver enormous volume to the world famous Amplion unit included with this wonderful console receiver.

Transformer coupling has been chosen by our engineers as the most efficient after carefully testing all other types. The overtones and basses are all perfectly reproduced with faithfulness not usually found in any radio reproducer. Astoundingly true and lifelike.

After long research and investigation we have found that the logical radio instrument will permit the use of both hands for tuning and adjusting to the selectivity required. Two-dial control has been recognized as the most efficient, the most popular and the most easily tuned radio receiver. You will want nothing else after trying this easily tuned, powerful receiver. Distant stations are easily brought in with this simplified control method.

Compare Our Prices

The extraordinary low price of the Princess is only possible because of the tremendous volume of the receiver is fully guaranteed as to quality and workmanship. We assure you that nowhere can you obtain any console model receiver at anything near the value that we offer. Remember, the Princess is a real piece of furniture. It is heavy, substantial, genuine walnut. No flimsy imitation. It will beautify the finest home.

Selective With Long Range
Remarkable results have been obtained with this splendid receiver. Full undistorted volume from far distant stations. Range well over a thousand miles under normal conditions. The finest quality apparatus insures low losses plus great selectivity and perfect tone with faithful reproduction. Unequaled in its performance. Brings the world's artists to your own home. You hear their performance with lifelike beauty and full volume. Size of console 35" wide, 19" deep and 46" high.

Power amplification is possible, as our receiver provides an additional binding post, so that a power tube may be used. This will permit as much volume as anyone might want, and the popular power tubes listed elsewhere in this catalog, in the 112 type, may be adapted with the addition of 1 45-volt "B" battery. Few receivers on the market today have this added feature.

Thousands of Columbia Sets In Use

Throughout the country these receivers have gained instant approval for their wonderful appearance and remarkable performance. Testimonials from our customers everywhere prove the popularity of Columbia sets. It is by our large sales that we can offer you these special prices.

R3001 Columbia Princess console complete with the receiver only, without accessories of any kind, but including

GENUINE AMPLION LOUDSPEAKER UNIT

Shipping weight,
130 lbs.
Complete with accessories.

\$92⁴⁰

R3002 Columbia Princess complete console receiver as pictured, ready to listen in, with all accessories and instructions, including: 1-100 amp. hr. storage "A" battery, 2-45-volt "B" batteries, 1-4½-volt "C" battery, 6-type 201A tubes, complete aerial and ground equipment and battery cable connector.

Shipping weight,
225 lbs.

\$116⁴⁵

For Socket Power

R3003 Columbia Princess complete with 1-50 amp. hr. storage "A" battery, 1-4½-volt "C" battery, 6-type 201A tubes, complete aerial and ground equipment and battery cable connector. **BALKITE EQUIPPED FOR LIGHT SOCKET RECEIVER WITH BALKITE COMBINATION "B" ELIMINATOR AND TRICKLE CHARGER, ALL COMPLETE**

READY TO OPERATE.
Shipping weight,
220 lbs.

\$165⁰⁰

New Sentinel Six

NEVER before in the history of radio has a two-control six-tube receiver built in a genuine heavy walnut cabinet been offered at this price. Never before has such a tremendous value been offered to anyone in this country. This astounding value will take the country by storm and this is an opportunity to buy a powerful and beautiful radio receiver of latest design, having only two tuning controls, at a price far below that which even the most mediocre of receivers has heretofore been sold.

A beautiful and distinctive table model set which is adaptable to the finest furnished home. Avail yourself of our offer without delay and obtain the biggest value that has ever been known.

This set will meet the strictest requirements in a long distance, selective and easy tuning receiver. The set needs no additional controls and each of the condenser controls are matched. The tuning inductances are also matched, making the logging of stations simple and easy.

We have unsolicited testimonials from thousands as to the wonderful results received and the lack of care required with Columbia Receivers.



R3029 The new Columbia Sentinel Six as pictured. A genuine walnut hand-rubbed and embossed cabinet.

A \$75.00 value. Without accessories.....
Shipping weight, 50 lbs.

\$38⁵⁰

Set Construction

The Sentinel 6 is built by Columbia and backed by Columbia—for years a factor in the radio manufacturing business. The panel is gold etched, finely embossed; knobs are neat for finer tuning. No vernier dials with their usual backlash. All parts mounted on sub-base. Modified straight-line frequency condensers. Three stages of low ratio audio-amplification. Bakelite sockets, solenoid coils. The latest and best features of construction are utilized in the Sentinel 6.

Cabinet Construction

The top of this cabinet is finely hand-rubbed, beautifully finished. The top is shaded. The cabinet is substantially constructed and presents a two-tone dark walnut effect. It is built of genuine walnut, full size 13 inches deep, heavy, massive. The cabinet alone will ordinarily sell for \$20.00. It is beautiful beyond question and is the greatest eye-filling value in cabinet construction obtainable. Finely decorated. Only an old, established furniture factory and master cabinetmakers could build it.

Finer Tuning

Both hands tune the set. The two knobs control merely the volume and the clarity. The variable resistance is smooth and clean and permits fine volume variation. Select your stations and log them. Easy to tune.

Complete With Accessories

R3030 The Columbia Sentinel Six Receiver complete with all accessories—6 type X-201A tubes, 2 45-volt "B" batteries, 1 6-volt 100-amp. hr. storage "A" battery, 1 4½-volt "C" battery, aerial equipment, battery cord, and 1 Free Edge Speaker.

R3031 Same, with all equipment except with Victor Horn Speaker instead of Cone Speaker.

Complete Ready to Operate, Including Instructions

Either Combination

\$66⁴⁰

Shipping weight 125 lbs.

Note—Both the Cone and the Horn Speaker have good volume and tone quality. Specify either by ordering by stock numbers above.

For Dry Cell Use

The Sentinel Set is good for either storage battery type X-201A tubes or dry-cell type X-199 tubes of the new type. For dry-cell operation buy set alone and the following accessories from catalog: 5 type X-199 tubes, 1 type X-120 power tube, 3 45-volt "B" batteries or eliminator, 1 4½-volt "C" battery, 1 22½-volt "C" battery, 6—1½-volt dry cells.

Columbia Senior Six

The New Simplified Control

ON THE rear cover of our catalog we show this receiver in detail. We display it again as being one of the finest appearing table sets you can buy. It is the new localized control. One hand to tune with, three rotating drums easily controlled and easily logged. The beautiful dark finish etched panel matches the handsome mahogany finished hand-rubbed cabinet. Shielded panel increases selectivity. Full size of cabinet 7x22.

New Features of the Senior

The set is of the 6-tube design, giving tremendous volume, wonderful tone quality, latest developments in straight line condensers, solenoid coils, sub-base mounting and new amplification. A beautiful receiver in a beautiful cabinet. It is sets like this that are designed to sell for over \$100.00. Its appearance will sell it, let alone its operation. The Senior has provision for a power tube if you desire it and an additional tap for increased "B" battery voltage for dance-hall volume, although it is not necessary.

No. R 3014

\$36⁵⁰

Shipping weight 40 lbs.

No. **R3015** Complete with 2 45-volt "B" batteries, 1 100-amp. hr. storage "A" battery, 1 4½-volt "C" battery, 6 type X 201A tubes, complete aerial kit, attached battery cable, 1 Free Edge Cone Speaker or Victor horn type loudspeaker, whichever you desire.

Complete with Accessories

\$65⁴⁵

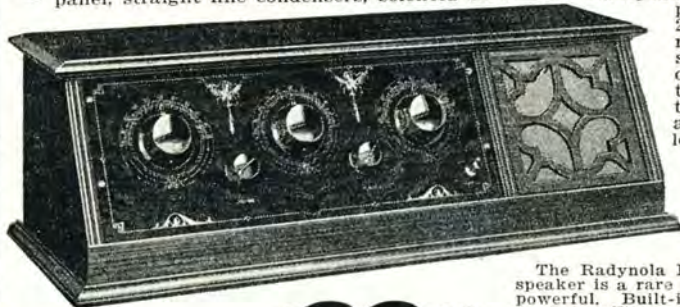
Shipping weight complete, 125 lbs. Transportation extra.



Radynola Excello Five

THERE has been created a tremendous demand for the Radynola Excello table model with built-in loudspeaker with unit. This is the Radynola 5-tube receiver with gold etched panel, straight line condensers, solenoid coils.

The loudspeaker is built into the side compartment. The set is fully 27½" long. Cabinet of hand-rubbed mahogany finish. It is specially designed for quality of tone. For those who desire to place this on a table similar to such as we have listed among the tables in our catalog.



Specially Priced

No. R 3016

\$33⁴⁰

The Radynola Excello Five, as pictured complete with built-in loud speaker and high quality unit of the balanced armature type, specially priced to you far below its regular price and at a tremendous reduction.

R3016A Radynola Excello Five as illustrated with large balanced armature unit and also 5 201A tubes, 2 45-volt B batteries, 1 100-Amp. Hr. storage A battery, battery cable and aerial and ground equipment. Nothing else to buy.

Transportation charges extra. **\$56⁴⁰**
Weight complete, 125 lbs.

The Radynola Excello Five with built-in loudspeaker is a rare bargain. Compact, efficient and powerful. Built-in loudspeaker is a distinct advantage. The speaker is acoustically correct and with a balanced armature unit it reproduces faithfully and with full volume. Splendid tone quality. This will cost you considerably less than any five-tube quality receiver and loudspeaker. This is a wonderful instrument and has proven its worth and popularity. Testimonials from our customers praise the results and splendid tone quality of this excellent instrument.

Wonderful Value

There is no question but that the Radynola Excello Five is a 5-tube value of its kind which is incomparable. It is the solenoid coils, the straight line condensers and sub-panel construction which permits the fine tuning. It is the fine quality transformers which give the volume comparable with any 5-tube set on the market today.

American Radynola 6

The Leader in the Six-Tube Field

THE American Radynola 6 stands out by itself as the leader in the field in a 6-tube set, giving tremendous volume and wonderful tone quality. It is one of the few 6-tube sets designed today where every tube has its purpose and where the three stages of low ratio audio frequency all operate to a mellow tone, better quality and greater volume.

Selectivity and Range

No complicated controls. All knobs tuned to the same numbers. Easy logging. Simple to operate. Very selective in tuning and under actual test proved it can receive stations far above the range of most 6-tube receivers.

The Cabinet of Beauty

The smooth satin mahogany finish of the cabinet for this receiver sets it off properly. Sloping panel, gold and mahogany etched. Large knobs control smooth operating, sharp tuning condensers. Volume control permits modulated tone variations. Power and tone quality galore.

R3023

\$25⁸⁵



Beautiful Set Designs

The American Radynola sloping panel receiver fits most any table, as it is compact in a 7x18 size. The gold etched panel is of beautiful mahogany finish to match the hand-rubbed, dark, clear mahogany of the cabinet. The straight line condensers and the solenoid type coils underneath the baseboard give selective tuning and quiet operation. Bakelite sockets of the latest X-type will fit 201A and X-199 tubes and the latest power tubes.

Volume Features

This receiver uses 90 volts of "B" battery, but a loud-speaker of good quality will give all the volume necessary.

It has an extra tap for 45 volts additional to use a power tube in the last socket for greater volume. This is a feature which few sets on the market will have.

Incomparable Low Price

No other six-tube quality receiver could possibly be offered to you at this remarkably low price. Such astounding value is only possible because of our ability to buy in enormous quantities and pass our saving on to you.

Though modern in every respect the American Radynola is not a new unknown receiver. Thousands have been sold and are in everyday use. Their owners are constantly writing us, telling in letters of praise of the remarkable performances of their receivers. The American Radynola Six is superior to all former Radynolas. It is a better set and will give you better results and greater satisfaction than many more costly receivers. It is inconceivable that we can offer a six-tube receiver at a price far lower than is asked for many five-tube and smaller instruments. You cannot fail to recognize the value of this receiver.

See our pages on "B" battery eliminators and "A" power units.

Complete with Accessories

R3024 Complete for installation—nothing else to buy. Buy the set as a complete unit, including all its accessories. This offer includes the American Radynola 6-tube receiver, 6 type X 201-A tubes, 2 45-volt "B" batteries, 1 100-amp. hr. storage battery, 1 4½-volt "C" battery, complete aerial equipment, battery cord and 1 Quality Cone Speaker.

R3025 Includes all of the above except a Victor horn-type speaker, as pictured on our loud-speaker pages, will be furnished instead of the cone.

SPECIAL PRICE \$53⁸⁵
Either
Combination

Dry Cell Operation

For those who prefer dry cell instead of storage battery operation, we suggest you buy the American Radynola without accessories and purchase the following accessories elsewhere in this catalog:

Three 45-volt "B" batteries, 1-4½-volt "C" battery, 1-22½-volt "B" battery, 6-1½-volt dry cell batteries, 5 U. X. or Type X-199 tubes, 1 U. X. or Type X-120 tube, 1 aerial kit, 1 loud-speaker or cone speaker, and 1 radio table.

This combination will give you a power set and will give as much volume as the storage battery receiver.

Latest Kits and Circuits

THE following pages contain detailed descriptions of new 1927 circuits. Of the hundreds of kits that have been developed for the coming and past seasons, the most practical and efficient have been carefully selected. Only proven circuits and standard merchandise of merit are offered to you.

Our engineers have painstakingly examined and tested every circuit and every single piece of apparatus listed in the following kit and parts pages. The very best has been selected and is offered to you with our laboratories' full approval after many tests.

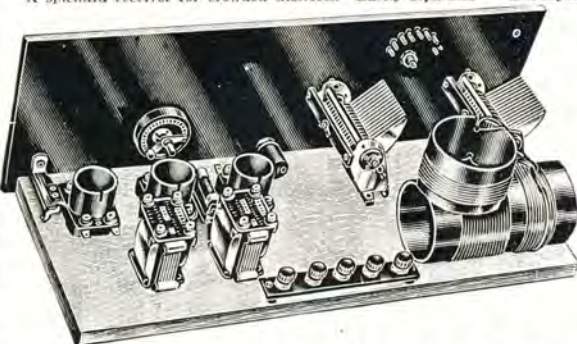
It is a simple matter to construct any of the kits. We furnish special diagrams and layouts that anyone can readily understand. Our laboratories and service departments are always at your disposal.

Our laboratories are maintained as an accommodation to our customers. Practically anyone can wire a modern kit. If you have trouble in wiring a receiver properly and wish our assistance, we will gladly make the necessary changes to place your kit in perfect operating order at actual cost. Our laboratories are not maintained for profit but, instead, to be of service to our customers.

Improved Three-Tube Cockaday Kit

THE three-tube Cockaday is the ideal small set. Many claim that it is equal to a five-tube receiver. Economical to construct and operate. The famous Cockaday circuit is sensitive and selective. A splendid receiver for crowded districts. Easily separates

local and distant stations. Ideal for rural communities because of its long range. Reception of over 2,000 miles has often been reported. Full loudspeaker volume obtained. Fine tone quality. Simple to construct with our diagram and layout.



R2524 Actual \$36.00 Value.
Price of complete kit. Shipping weight 12 lbs.

\$14⁴⁵

Cabinet, size 7x21", for this receiver will be found on other pages of this catalog.

It is our firm belief that the three-tube Cockaday has been and still is the most popular of three-tube circuits. It is, in fact, the most popular of all small receivers. It is so selective that it may be used under any conditions even in crowded districts where many local broadcasters make it difficult and practically impossible to bring in distant stations. We have thousands of testimonials on this kit, many of our customers having received stations from coast to coast.

Complete Parts for Three-Tube Cockaday

- | | |
|--|---|
| 1—Cockaday Coil. | 1—20x8" Baseboard. |
| 3—Universal Sockets. | 2—4" Bakelite Dials. |
| 1—No. 112 Amperite. | 1—50-Ohm Rheostat with Knob. |
| 1—Columbia 6-1 Transformer. | 1—Single Circuit Jack. |
| 1—Columbia 3 $\frac{3}{4}$ -1 Transformer. | 1—Switch Lever. |
| 1—.0025 Fixed Condenser. | 7—Switch Points. |
| 1—2 Meg. Grid Leak. | 2—Switch Stops. |
| 1—Grid Leak Mounting. | 2—Binding Posts—Ant. Grid. |
| 5—Screws, Lugs and Bus-bar. | 1—Binding Post Strip with Five Marked Posts. A+A—B—B—+B+. |
| 1—Wiring Diagram and Layout. | 2—.0005 S. L. F. Condensers. |
| 1—7x21" Drilled Bakelite Panel. | 1—Filament Switch. |

Bruno Short Wave Kit

BRUNO apparatus renowned for its efficiency. Bruno Low-Loss Short Wave Receiver covers field of amateur, interesting, experimental and considerable European broadcasting. Range 20 to 120 meters. European stations received more consistently on short waves than on the higher wave lengths.

Short-wave reception is becoming more and more popular. Join the thousands of short-wave fans who are obtaining reception from unbelievable distances on three tubes. The short waves below the broadcast band are full of interest that the average listener cannot hear with a radio receiver designed for reception over the broadcast range from 200 to 550 meters. Greater distances are covered on the short waves. Thus a three-tube short-wave receiver will in many instances bring in stations far distant that could not be heard with less than five tubes on the longer wave lengths. Hear KOKA and WWJ operating on 96 and 104 meters. Weekly programs.

COMPLETE PARTS FOR BRUNO SHORT WAVE

- | | |
|---|-------------------------------------|
| 1—Bruno No. 99 Short-Wave Tuner. | 1—6-ohm Rheostat. |
| 1—S.L.F. .0005 Low-Loss Condenser. | 1—30-ohm Rheostat. |
| 1—7x18" Drilled Bakelite Panel. | 2—Columbia Transformers, low ratio. |
| 2—4" Bakelite Dials. | 1—Single Circuit Jack. |
| 1—6x17" Baseboard. | 1—Binding Post Strip. |
| 3—Universal Sockets. | 7—Marked Binding Posts. |
| 1—Dubblier Grid Condenser with Clips. .00025. | 5—Screws, Lugs and Bus-bar. |
| 1—2-meg. Grid Leak. | 1—Wiring Diagram and Layout. |



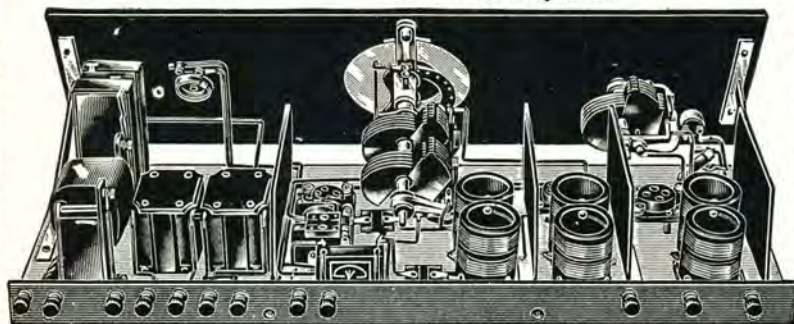
R2511 Complete Kit

Shipping weight **\$24⁸⁵**
12 lbs.

Cabinet, size 7x18", for this receiver will be found on other pages of this catalog.

Popular Radio L. C. 27 Cockaday Kit

New Cockaday as described in "Popular Radio." Laurence Cockaday's new development.
The latest Cockaday circuit



The L. C. 27 is new and contains every modern development known to radio. It is shielded. Simple to construct. It has wonderful tone quality. Because of the splendid high quality audio units that are used in this remarkable circuit nothing better could be desired. You may be assured that a kit of this type, described and recommended by a nationally known radio publication will give splendid service.

Easy to Construct

It is extremely simple to build the L. C. 27. The panel is drilled and we furnish you with a diagram showing the exact position of each of the instruments. The diagram also shows in a simple manner that anyone can understand the proper connections to make from terminal to terminal. Anyone can build the L. C. 27. When completed the receiver will be powerful and extremely sensitive with considerable volume and good distance.

Adding to its efficiency and appearance is the unique new Marco Illuminated dial. This new dial is included with the kit of parts. It mounts behind the panel and the scale for logging is read through the window in the panel. Behind this window and the scale is a small bulb which connects with the A battery illuminating the translucent scale from behind so that it may be easily read even in the dark. All that protrudes through the panel is a small knob for tuning. The Vernier dial has a friction drive direct movement, greatly aiding tuning and dispensing with all possible suggestion of back lash.

The new Hammarlund Midline condensers are a brand new development. They separate all stations from 200 to 600 meters equally. The entire L. C. 27 kit as a unit is composed of such special features as these mentioned, thus it functions to perfection when constructed.

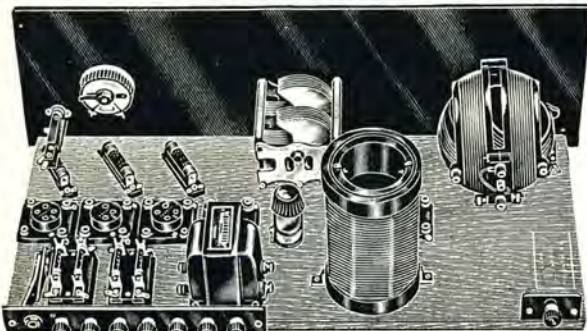
One of the most efficient circuits ever devised by Cockaday, who is conceded to be one of the most popular radio engineers in the country. The new L. C. 27 is remarkably efficient. It is selective and powerful and wonderful tone quality is secured. The new Cockaday is easily constructed and you may be assured that when properly built that it will give tube for tube as much or greater results than can be obtained with any other radio receiver.

- Complete parts for L. C. 27 Cockaday Kit.
- 1—Hammerlund Mid-line single condenser .000275.
 - 1—Hammerlund Mid-line Dual condenser .000275.
 - 1—Precision Duo Octaforn Coil Set.
 - 1—Binding Post Strip.
 - 12—Eby Binding Posts.
 - 1—Amertran De Luxe first stage audio frequency transformer.
 - 1—Amertran De Luxe second stage audio frequency transformer.
 - 2—Tait metal brackets.
 - 1—Amer Choke.
 - 1—Dubilier 907—4 mfd. filter condenser.
 - 1—Dubilier 907—1 mfd. by-pass condenser.
 - 1—Marco Illuminated Dial.
 - 2—Marco small controls; 0 to 50 and 50 to 0.
 - 1—Special wooden base board.
 - 1—Samson R. F. Choke No. 85.
 - 1—Decorated Bakelite Panel, 8x26.
 - 1—Carter Imp Filament Switch.
 - 3—Dubilier condensers .00025.
 - 1—Cabinet as illustrated in "Popular Radio."
 - 1—Grid Leak Mounting.
 - 1—4 megohm Resistor.
 - 4—Aluminum Shields.
 - 1—Carter Single Circuit Jack.
 - 5—Benjamin UX Cushion Sockets.
 - 1—1 Amperite.
- Screws, lugs, wire and diagram.

No. R2565
Shipping Weight 30 lbs.

\$81⁹⁵

L. C. 26 Cockaday Kit



The L. C. 26 remains popular and has thousands of enthusiastic followers. It is a proven circuit and a sensitive and selective one. Simple to operate. Anyone can tune in distant stations with ease. Wonderful tone quality by virtue of the splendid system of audio amplification employing the remarkable Thorlarsen R200 transformer and two stages of resistance coupling. This combination insures perfection of tone without loss of volume.

LIST OF PARTS

- 1—7x21x3/8 Drilled Bakelite Panel.
 - 1—9x20 Baseboard.
 - 2—No. 2 Carter Jack Switches.
 - 1—30-ohm Rheostat with Knob.
 - 1—Amsco Double Condenser Unit .0003.
 - 1—Kurz Kasch Aristocrat Vernier Dial.
 - 1—2" Pointer Knob.
 - 1—Columbia Bakelite Variometer.
 - 3—No. 1-A Amperite.
 - 1—No. 112 Amperite.
 - 5—Benjamin UX Sockets.
 - 1—Bradley Variable Grid Leak.
 - 1—Precision Octoforn Coil Set.
 - 1—Thorlarsen R-200 Transformer.
 - 2—Daven Resistor Couplers, complete with 3 .25-meg. Daven Glastors and 1 .5-meg. Daven Glastors.
 - 1—Carter Open-Circuit Jack.
 - 2—Binding Post Strips with Brackets.
 - 8—Marked Binding Posts.
 - Ant. Gnd. A—B—B+ B+ B+—
- Screws, Bus Bar and Soldering Lugs.
- 1—.00015 Micamold Fixed Condenser.
 - 1—.00025 Micamold Fixed Condenser.
 - 1—Wiring Diagram and Layout.

R2505

\$51⁵⁰

Shipping weight 20 lbs.

Easy to build. We furnish completely drilled panel on which the apparatus may all be mounted by anyone in a few minutes' time. Diagram shows the position of every individual part and also the terminal to terminal connections which anyone without experience can make. Note the splendid apparatus included in this kit, the Amsco double condenser unit, the Thorlarsen R200 transformer, the Columbia Bakelite variometer, the Benjamin shock absorbing cushion sockets and all other items. You will be satisfied and well pleased with the performance of this splendid receiver.

Cabinet and accessories for this kit will be found on other pages of this catalog. Substitutions on some items have been made in this kit to lower your cost and increase the efficiency.

SEMI-FINISHED

5 Tube Radio Frequency Set

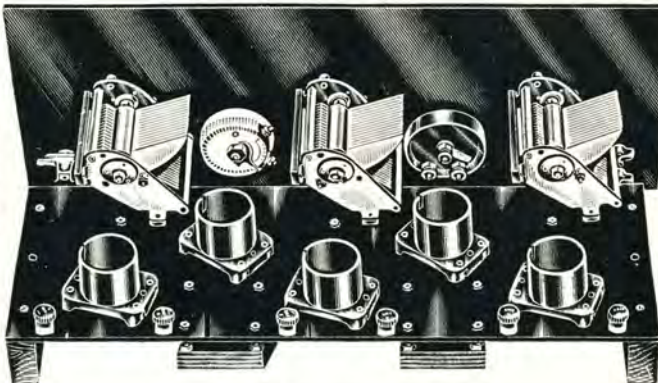
READ WHAT THEY SAY ABOUT OUR FIVE-TUBE KIT. WE HAVE THOUSANDS OF SIMILAR UNSOLICITED TESTIMONIALS.

Randolph Radio Corp.,
Chicago, Ill.
Gentlemen—

My 5-tube receiver built from kit purchased from you is working fine; in fact, it is the best receiver I have ever heard. I get plenty of volume on the loud speaker from the farthest stations in U. S. A. without squeals or howls. It is truly a wonderful receiver.

Yours truly,
CLAUDE D. STILLWELL,
McHenry, N. D.

\$16⁸⁵



SEMI-FINISHED. No drilling or assembling necessary. This unsurpassable five-tube kit offered to you at a special low price. Composed of the finest quality low-loss apparatus.

SEMI-FINISHED —JUST WIRE

This five-tube kit, when properly wired, gives satisfaction equivalent to the most expensive five-tube factory built receivers. Quality is not sacrificed, yet we offer this to you at an unbelievably low price. Everything is furnished. Nothing else to buy to complete this kit. All parts are assembled on panel and under bakelite sub-panel. Everything is mounted. Simply connect the terminals together as shown in the wiring diagram and layout. Long range. Hair line selectivity. Latest and most efficient oscillation control.

Fine quality, low ratio transformers insure faithful reproduction with volume. Easy to build, easy to operate, with splendid tone. This kit will prove a money-maker for you. Our price enables you to resell at a substantial profit or, if you wish, build it yourself and install in one of our mahogany or walnut cabinets and sell as a complete receiver.

Complete with Accessories

No. R2517 Complete five-tube Radio Frequency Kit with all necessary accessories, five X-201A tubes, two 45-volt "B" batteries, one 100-ampere hour storage "A" battery, one quality cone speaker, complete aerial equip-

ment, one sloping mahogany finished cabinet, size 7x18". **NOTHING ELSE TO BUY.** Your special price for kit and complete accessories

\$49⁷⁵
Shipping weight
100 lbs.

Complete Lists of Parts

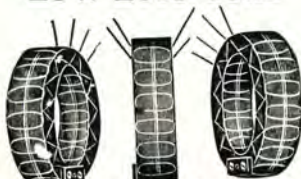
- 1—7"x18" Drilled Bakelite Panel.
- 3—4" Bakelite Dials.
- 1—6"x17" Bakelite Sub-Panel with five mounted Universal Sockets.
- 2—Mounting Blocks.
- 2—Panel Brackets.
- 1—200,000 Ohm Variable Resistance with knob.
- 1—2 Ohm Rheostat with knob.
- 1—Filament Switch.
- 2—Tip Jacks.
- 3—.00035 SLP Condensers.
- 3—Matched Radio Frequency Coils.
- 2—3½-1 Sub-Panel Mounting Transformers.
- 1—.00025 Grid Condenser with clips.
- 1—2 Meg. Grid Leak.
- 1—.006 Fixed Condenser.
- Bus bar and soldering lugs.
Ant., Gnd., B +, B -, A -, A +.
- 6—Marked Binding Posts:
- 1—Wiring diagram.

No. R2516

Your Special Price
SEMI-FINISHED

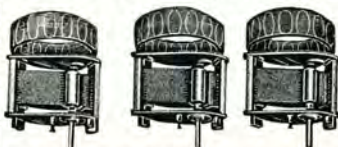
\$16⁸⁵
Shipping weight
20 lbs.

Low Loss Coils



Set of three basket-wound Low-loss Coils, used with three .00035 Condensers for 5- or 6-tube Radio Frequency sets, complete with mountings. No. R944
Price, set of three..... **\$1⁰⁹**
Postage 5c extra

Radio Frequency Essential Kit

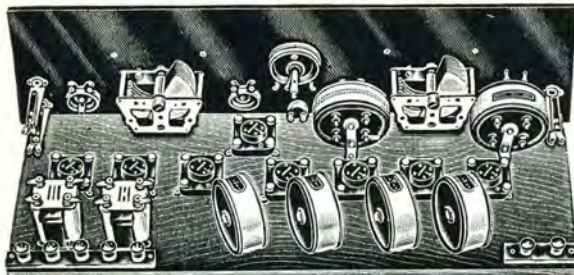


Essential kit of parts, consisting of three low-loss straight line frequency brass-plate condensers of the highest grade, mounted with three low-loss coils of the finest quality. Condenser capacities to match coils and to cover entire wave band. A real bargain at this price. The condensers alone are worth twice as much as the total we get for this kit.

These are standard essentials for five-tube Radio Frequency Set. In addition to these you will need a 7x18 panel, baseboard or sub-panel, five sockets, two transformers, one 200,000-ohm variable resistance, one 2-ohm rheostat, one pair tip jacks and six binding posts. Simple to build.

R945 Kit of 3 Condensers and three Coils..... **\$4.95**
Shipping weight 7 lbs.

Latest Victoreen Super-Het Kit



GENUINE VICTOREEN PARTS
The Victoreen transformers are unique in design, for they are all air core, thus each transformer is very sharply peaked, making possible selectivity not found even in super-heterodynes of the better class.

FOR LOOP OR AERIAL USE

A special design of the new Victoreen Super permits you to switch from outside aerial to loop antenna, whichever you prefer. As regeneration is not employed while the set is operating on outside aerial it positively will not radiate to annoy or interfere with your neighbors' reception. The design of the intermediate transformers is such that the circuit will not oscillate. Harmonics are reduced to an absolute minimum. When used on loop aerial regeneration is employed, which is controlled by a midcet condenser. It is therefore possible to secure the utmost degree of selectivity and power, either on loop or outside aerial.

Simple to build. We supply you with a drilled panel and also with a large diagram of the pictorial type, showing position of each of the parts.

Though not illustrated, Karas condensers, as specified are included with the kit, as shown in the list of parts. Low ratio Thordarson transformers are included, insuring perfect amplification. Remarkable tone quality is obtained with this kit if used with a good loudspeaker.

LIST OF PARTS

- | | | |
|--|---|-------------------------------------|
| 1-7x2 1/2" Drilled Bakelite Panel. | 1-Carter 400-ohm Potentiometer. | 2-.0025 Grid Condensers with Clips. |
| 1-8 1/2x23" Baseboard. | 2-Karas .0005 S. L. F. Condensers (not as pictured). | 1-.001 Duffiler Condenser. |
| 2-Kurz Kasch Aristocrat Vernier Dials. | 1-Victoreen Kit, consisting of 4 No. 170 Matched Intermediate Transformers and 1 No. 150 Coupling Unit. | 1-1/2-mfd. By-pass Condenser. |
| 2-25-ohm Carter Midcet Rheostat with Knobs. | 1-Victoreen No. 160 Antenna Coupler. | 1-1 1/2-volt "C" Battery. |
| 2-6-ohm Carter Midcet Rheostat with Knobs. | 8-Benjamin UX Shock Absorbing Sockets. | 1-Wiring Diagram and Layout. |
| 2-Carter Double Circuit Jacks. | 2-Thordarson Transformers, ratio 2-1. | Screws, Bus-bar and Soldering |
| 1-Carter Single Circuit Filament Control Jack. | 2-Binding Post Strips. | |
| 1-Carter Imp Filament Switch. | 7-Binding Posts. | |
| | Ant. Gnd. A- A+ B- B+ B+. | |

Lugs.
R2507
Shipping weight **\$79.50**
25 lbs.

New 1927 Popular Mechanics Superheterodyne

THE NEW EIGHT-TUBE SUPER

The latest super-heterodyne, as described and recommended in "Popular Mechanic." This is the genuine 1927 "Popular Mechanics Super." An unusual system of intermediate resistance coupled amplification is employed in this new super. It is selective and unusually powerful.

The oscillator unit is fully shielded, preventing any possibility of stray coupling and undesirable pick up or noises.

The new popular Silver-Marshall audio transformers are specified for the new super. The transformers are entirely new in design. They match the characteristics of loud speakers; a factor which heretofore has been entirely overlooked by transformer manufacturers. Even the average loud speaker will give superior reproduction when used with the new Silver-Marshall transformers. An output transformer is provided that keeps the direct current out of the loud speaker so that a power tube with high B voltage may be used without danger of burning out the loud speaker unit. It is easy to construct. There is nothing complicated about this circuit despite its power and efficiency. We furnish complete



diagram which anyone can readily understand. Simple to operate. Only two major tuning controls.

R2518
Shipping weight 20 lbs. **\$93.00**

COMPLETE LIST OF PARTS FOR P. M. SUPER

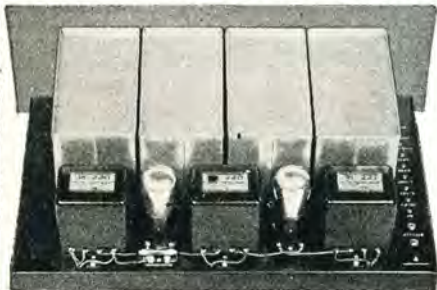
- | | | |
|---|--|---|
| 1-7x30x 3/8" Drilled Bakelite Panel. | 1-8-M Output Transformer, Type 221. | 1-100-Ohm Frost Potentiometer. |
| 1-10x23 1/2" Bakelite Sub-Panel. | 1-8-M Aluminum Shield, Type 631. | 1-Carter Open Circuit Jack. |
| 2-Bakelite Strips, 1/2x5x 3/8". | 2-Resistor Capacity Units, .0005 Mfd. | 1-Push-Pull Filament Switch. |
| 1-Bakelite Strip, 1/2x2x 3/8". | 1-Jewell Double Range Voltmeter. | 11-Engraved Binding Posts. |
| 1-Daven 3-Stage Super-Amplifier. | 5-Benjamin UX Cushion Sockets. | 3-Sangamo Fixed Condensers, .0025. |
| 3-Daven 1/4 Amp. Ballast with Mountings. | 3-Cord-Tip Plugs and Jacks. | 1-Sangamo Fixed Condensers, .00025, with Grid Leak Clips. |
| 1-Daven 1/2 Amp. Ballast with Mountings. | 2-Benjamin Sub-panel Brackets. | 1-Sangamo Fixed Condenser, .006. |
| 1-8-M Plug-in Coupler Unit, Type 110-A. | 1-Sanson R. F. Choke Coil. | 1-By-pass Condenser, .006 Mfd. |
| 1-8-M Socket, Type 515. | 2-Sanson Vernier Dials. | 3-1 1/2-Volt "C" Batteries. |
| 1-8-M Tuned Filter, Type 211. | 1-Chelton Midcet Condenser. | 1-1 1/2-Volt "C" Battery. |
| 2-8-M Audio Frequency Transformers, Type 220. | 1-2 Megohm Grid Leak. | Screws, Lugs, Spaghetti, Wire, Brass Strip. |
| | 1-1 Megohm Grid Leak with Mounting Clip. | 1-Wiring Diagram. |

New Silver Shielded Six

THREE stages of tuned radio frequency controlled by only two dials. Each stage completely shielded. A new and efficient method of oscillation control. Employs the new S. M. Audio Transformers, Type 220, guaranteed to be the finest you ever heard. Also output transformer which keeps direct current out of loud

COMPLETE LIST OF PARTS

- | | | |
|------------------------------------|----------------------------------|-------------------------------|
| 1-8-M 631 Shields | 1-8-M 221 Output Transformer. | 1-Yaxley No. 10 Switch. |
| 2-8-M 316-A Condensers. | 1-Polymer .002 Condenser. | 1-Yaxley Antenna Switch. |
| 2-8-M 316-B Condensers—long shaft. | 5-Polymer 1 Mfd. Condensers. | 1-Carter 25,000 Ohm. |
| 1-8-M 515 Coil Sockets. | 1-8-M 632 Link Motion. | 1-50 ohm Resistance. |
| 1-8-M 801 Dials. | 2-Carter Tip Jacks. | 1-Coil Hook-up Wire. |
| 1-8-M 115-A Coils. | 1-Terminal Strip with Terminals. | 1-Assorted Misc. Parts. |
| 1-8-M 116-A Coils. | 1-Crowe Metal Pane Pierced. | 1-Polymer .2 Meg. Resistance. |
| 6-8-M 511 UX Sockets. | 1-Steel M 220 Audio Transformer. | 1-Polymer Grid Leak Mounting. |
| 1-8-M 375 Choke. | | |
| 2-8-M 220 Audio Transformers. | | |



Shipping weight 15 lbs.

R2521-S-M Shielded Six Kit of Essentials only..... **\$38.25** R2520 Shipping weight 25 lbs. **\$81.75**

COLUMBIA'S 8-Tube Super-Heterodyne

The Semi-Finished Super
Coast to Coast Receiver

Value
\$75.00

Your
Price

\$39⁵⁰

No. R2501



Stations from coast to coast received on a loop aerial! European stations during the Transatlantic tests! That is the record of Columbia Super-Heterodyne which comes to you semi-finished with low loss straight line frequency condensers, Columbia Intermediate frequency transformers, and the finest quality parts obtainable. Fits into 7x30 cabinet. The wonder of the season.

Semi-Finished Construction

This set comes to you semi-finished and needs only to be wired. Complete and simple blue-print with detailed printed instructions furnished for easy wiring and operation. The Super-Heterodyne is the master of all radio receivers. Powerful and selective. Do not fail to take advantage of this bargain. All findings for the set are furnished. No mess of parts. Most all parts mounted. No panel to drill.

Loop Operation

The Columbia Super-Heterodyne as above listed operates only with a center tapped loop aerial, either the Excello or such listed on our page of loops. Do not fail to select the various parts from our catalog as they will afford you a tremendous saving with this master of all receivers and will permit you a big saving for your customers. We suggest the box type or hexagonal. Look on our page of Loops.

Read What One User Says— See Our Full Page of Testimonials

Randolph Radio Corp.,
Chicago, Ill., Gentlemen:—

8-19-25.

The 8-tube Super-Heterodyne I got from you works fine. Can get California any time when the weather is right. When used with a loop, it is extremely directional.

Yours respectfully,

Box 563, Windsor, Vermont MARTIN MINER.

List of Parts Used

The following parts are furnished in this 8-tube Super-Heterodyne, semi-finished. You need not worry about placing them.

- | | |
|--|---|
| 2—S. L. F. Low Loss
Condensers, .0005 | 2—Midget Condensers |
| 3—Columbia Intermediate
Transformers | 2—Bakelite Dials, 4" |
| 1—Columbia Filter
Transformer | 1—Double Circuit Jack |
| 2—Columbia Low Ratio
Transformers | 1—8x29 Baseboard |
| 1—Carter 400-ohm
Potentiometer | 1—No. 1A Amperite |
| 2—30-ohm Rheostats | 1—No. 112 Amperite |
| 1—.006 Mica Con-
denser | 1—7x30 Drilled Bake-
lite Panel |
| 3—.0025 Mica Con-
densers | 1—Filament Switch |
| 1—.00025 Grid Con-
densers with Clips | 8—Universal Sockets |
| 1—Gridleak, 2 meg. | 1—Oscillator Coupler |
| 1—Dubilier 1 mfd.
Condenser | 2—4½-v. "C" Bat-
teries |
| | 1—Binding Post Strip |
| | 10—Binding Posts |
| | Wood Screws, Busbar
Wire, Soldering Lugs,
Wiring Diagram. |

Accessories Required

The following accessories are required with this Super-Heterodyne: 1—7x30x10 mahogany or walnut cabinet, 1—center tapped loop, hexagonal or box-type, 2—45 v. "B" batteries, 1—6 v. 100 amp. hr. storage battery, 8—type X-201A tubes, 1—battery cable, 1—loud speaker, 1—headset. All these parts are sold elsewhere in this catalog at tremendous savings.

Columbia Super for Antenna Use

You may build the Super for use with outside antenna. The same accessories are required, but specify that it is for antenna use when ordering as a special antenna coupler is put into the semi-finished kit. All apparatus is in place mounted on a baseboard and on the panel. You need drill no holes, you need lay

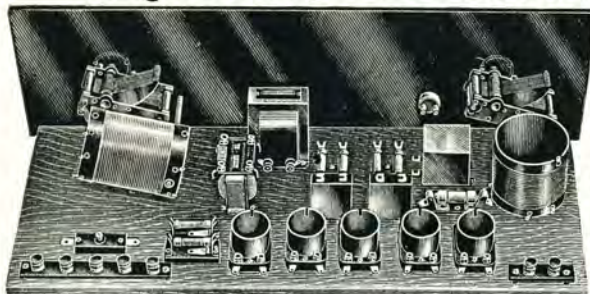
out no parts. You may build it as it is with all of its parts without trouble. Comes well packed and ready for wiring.

The Columbia 8-tube Super-Heterodyne, semi-finished for use with outside antenna, with special antenna coil.

R2501A Your Price.....\$42.50

Thousands of these Supers are in use. Users have written to us directly without solicitation, many having received foreign stations. The Columbia Super is for use with storage battery tubes, type X-201A or any 201A and is not furnished for dry cell use.

Improved 5 Tube Browning-Drake Kit



Combination transformer and resistance coupling gives the improved Browning-Drake splendid tone quality and enormous volume. Spaced wound coils increase the efficiency of the circuit, making possible long range reception and greater selectivity. Can be used in the most crowded districts, where many local broadcasters are located, yet it will cut through and bring in distant stations with clarity and volume.

Easy to build. We furnish a special diagram and drilled panel. It is a simple matter to mount all parts. Diagram shows each individual part in its proper position. It is simple to assemble and build this receiver. Anyone can build this Browning-Drake kit. The circuit is one which will always be popular for its performance is excellent.

K2502 Shipping weight, 20 lbs.

\$38.50

THE new Browning-Drake circuit incorporates many notable improvements. The resistance of the Radio Frequency circuit has been lowered to a negligible quantity. The method of resistance coupling insures perfect reproduction without a shadow of distortion, and the use of an output choke to keep the direct current out of the loudspeaker makes possible the use of power tube with enormous plate voltage if desired. This circuit was described in a recent issue of Popular Radio. It is easily constructed, has an exceptional long range with hairline selectivity. The inductances used are space wound with enameled wire on bakelite forms. Losses have been reduced to a minimum.

- LIST OF PARTS**
- 1-7x24" Drilled Bakelite Panel.
 - 1-9x23" Baseboard.
 - 2-Pilot Kilograd Vernier Dials.
 - 1-Carter Imp Filament Switch.
 - 2-.0005 Commodore SLF Condensers.
 - 1-Set Space Wound Bakelite Browning-Drake Coils with Knob.
 - 1-Thordarson R-196 Choke.
 - 1-4. mfd. By-pass Condenser.
 - 5-Universal Sockets.
 - 1-Columbia 3 1/2-1 Audio Transformer.
 - 1-Dubilier .002 Fixed Condenser.

- 1-Dubilier .006 Fixed Condenser.
- 1-XL Vario Dens "N."
- 3-Double Resistance Mountings.
- 2-1 mfd. By-pass Condensers.
- 4-1 meg. Resistors.
- 1-.5 meg. Resistor.
- 1-.025 meg. Resistor.
- 1-No. 112 Amerigo.
- 1-Frost Gem S. C. Jack.
- 1-Dubilier .0005 Grid Condenser with Clips.
- 6-Blinding Posts.
- Ant. Gnd. B-1, B-, A-1, A-2.
- 2-Blinding Post Strips.
- Screws, Lugs, Bus-bar Wire.
- 1-Wiring Diagram and Layout.

New Madison-Moore 8 Tube Super-Het.

FOR 199 TUBES

A SUPER-HETERODYNE so powerful and selective that it will bring in distant stations with local volume even within 100 feet of a powerful broadcasting station. Distant reception with full volume is obtained consistently. A selective receiver is a vital necessity with so many hundred powerful broadcasting stations.

The latest development in transformers are included. The Thordarson R200 transformers are new and remarkable. With them enormous volume without distortion is possible.

Simple to Construct and Operate

Only two major tuning controls. Complete wiring diagram furnished. Panel and sub-panel are drilled and it is thus a simple matter to mount the apparatus and wire the kit.

LIST OF PARTS

- 1-7x24" Drilled Bakelite Panel.
- 1-7x23" Drilled Sub-Panel.
- 1-Set Madison-Moore Transformers for 199 Tubes.
- 1-Jewell 0-5 Voltmeter.
- 2-Cardwell .0005 Taper Plate SLF Condensers.
- 2-Kurz Kaseh Aristocrat Vernier Dials.
- 1-Kurz Kaseh 1 1/4" Dial Knob.
- 1-Frost Open-circuit Pan Tab Jack.
- 8-Benjamin UX Cushion Sockets.



R2503

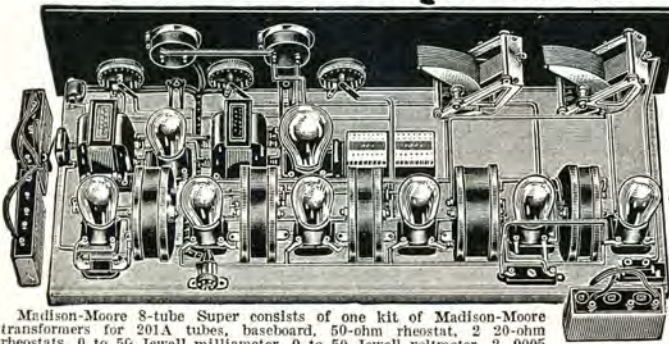
Shipping weight 28 lbs.

\$106.60

- 1-Pr. Benjamin Brackets.
- 2-Thordarson R-200 Audio Transformers.
- 1-Jones Type BM Multiplug.
- 1-1. mfd. By-Pass Condenser.
- 1-Sangamo .005 mfd. Condenser.
- 1-Sangamo .00025 Grid Condenser with Clips.
- 1-2-meg. Grid Leak.
- 7-Eby Binding Posts.

- 1-Carter 20-ohm Rheostat.
- 1-Carter 40-ohm Rheostat.
- 1-Carter 100-ohm Rheostat.
- 1-Carter 10-ohm Fixed Resistance.
- 1-Carter 15-ohm Fixed Resistance.
- 1-Carter 40-ohm Fixed Resistance.
- 1-Carter Imp Filament Switch.
- Bus-bar Wire, Lugs and Screws.
- 1-Wiring Diagram and Layout.

Madison-Moore Super for 201A Tubes Only



Madison-Moore 8-tube Super consists of one kit of Madison-Moore transformers for 201A tubes, baseboard, 50-ohm rheostat, 2 20-ohm rheostats, 0 to 50 Jewell milliammeter, 0 to 50 Jewell voltmeter, 2 .0005 Karas S. L. P. condensers, 7x28 drilled bakelite panel, 2 4-inch Marco Vernier dials, filament switch, 2 Frost universal sockets, filament control jack, 2 variable resistances, 1 meg. gridleak, .0065 fixed condenser, .005 fixed condenser, 2 mfd. fixed condensers, .0001 fixed condenser, .00005 fixed condenser, 4 1/2-volt C battery, 2 7 1/2-volt C batteries, 2 Thordarson R200 audio transformers, Jones B. M. multiplug with cord, binding post strip, screws, lugs, wire and diagram.

The original Madison-Moore Super-heterodyne. Do not confuse the two Madison-Moore Super-heterodynes that we describe here. The circuits are similar in many respects, but one is designed primarily for 201A tubes, while the other is for use with 199 tubes, and each functions best with the tubes for which it is designed.

An exceptionally efficient combination of a powerful receiver for distant reception and of perfect tone quality. Selective enough to separate all broadcasting stations. As with the 199 type Madison-Moore, the transformers used are Thordarson R200. The results obtained with these splendid coupling units are superior to anything previously developed with transformer coupling.

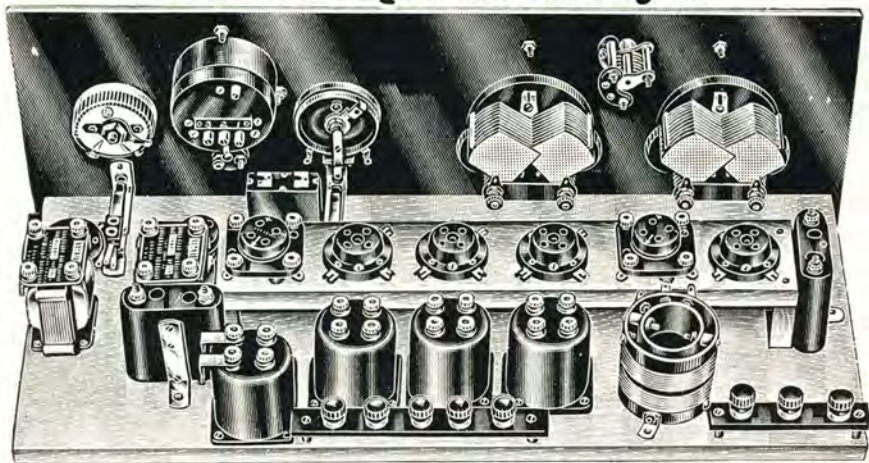
The kit is simple to construct and easy to operate.

R2563

Shipping Weight 25 lbs.

\$114.60

Improved Remler Best 8-Tube Super-Heterodyne



Parts for Remler 45,000 R2543— \$59⁵⁰
 Shipping weight, 25 lbs.

Distance and Volume

The famous Remler 8-tube Super-Heterodyne when constructed will give tremendous volume on distance stations. Only genuine Remler parts as we have them listed at our extraordinary low price will give you results. Accept no substitutes.

Selectivity

Tunes through interfering stations in crowded localities. 360° dials permit loggings and settings marked on paper scales supplied with Remler condensers.

Easy to Wire

With the wiring diagram and layout which we furnish, this set is easy to wire. A 7x21 drilled panel is furnished, baseboard of the proper size and layout showing where every part goes and every part is placed. All details accompany it. Nothing else to buy except the cabinet and accessories. Type UX sockets are included. We recommend the use of type X-199 tubes. May be supplied for any combination of tubes or for X-120 or X-201A in last stage. Specify how desired. If you desire a complete storage battery set us up X-201A tubes thruout, specify so when ordering.

GENUINE REMLER PARTS

The parts included with the Remler Best Super Kit are genuine Remler, including Remler No. 600 intermediate transformers, Remler No. 610 tuned filter transformers and Remler twin rotor condensers. Only by foresighted purchases are we able to offer you the genuine Remler essentials. These parts are at a premium, yet we offer the Remler Best Super Kit at a price which is remarkably low.

The superiority and the efficiency of the Remler Best Super circuit has never been disputed. This powerful and selective Super has earned the commendation of the most popular radio publications in the country. Thousands of these Super Kits are in use and many of the enthusiastic owners of these Kits write us daily telling of the wonderful performance and exceptional results obtained with a loop aerial. As well as being efficient and easy to build, the Remler Best Super Kit is compact and will fit in any standard size cabinet. The panel is only 7x21". This is considerably smaller than most 8-tube super-heterodynes. Only standard parts, the finest apparatus available, is included in this kit, furnished with all necessary material and easily read diagram so that anyone can build this superior receiver.

- | | |
|---|--|
| 3—Remler No. 600 Intermediate Transformers. | 6—UX Bakelite Sockets. |
| 1—Remler No. 610 Tuned Filter. | 1—009 mfd. Fixed Condenser, Dubilier. |
| 2—Benjamin UX Cushion Sockets. | 3—0025 mfd. Fixed Condensers, Dubilier. |
| 1—Rheostat, 15-ohm. | 1—0025 mfd. Fixed Condenser. |
| 1—Carter 400-ohm Potentiometer. | 1—0005 mfd. Grid Condenser with Clips, Dubilier. |
| 1—Midget Condenser. | 1—Grid Leak, 2 meg. |
| 2—Remler 0005 Twin Rotor Condensers with dials. | 2—"G" Battery Mounting Brackets. |
| 2—Thordarson or Columbia Transformers, low Ratio. | 1—Bakelite Drilled Panel, 7x21. |
| 1—1 mfd. By-Pass Condenser. | 1—8½x20 Baseboard. |
| 2—Amperites. | 1—1 x2½ Socket Mounting Strip. |
| 1—Oscillator Coupler. | 2—Mounting Blocks. |
| 1—Combination "A" and "B" Jewell Voltmeter. | 2—Binding Post Strips. |
| 1—Carter Imp. Filament Switch. | 8—Letteed Binding Posts. |
| 1—Carter Single Circuit Jack. | 2—4½-volt "C" Batteries. |
| 1—Carter Single Filament Control Jack. | Wood Screws and Soldering Lugs, Busbar Wire and Spaghetti. |

No. R2543 Specially Priced \$59.50 Circuit Variations

We can supply any combination of parts for this set in various styles. Your orders will be supplied at lowest prices. This is an exceptional value.

Accessories Required

The following accessories are required and may be chosen from the other pages of this catalog:

- | | |
|--------------------------|-----------------------------|
| 1—Cabinet, 7x21. | 1—4-volt Storage Battery or |
| 8—Type 199 Tubes. | 6 Dry Cells. |
| 2—4½-volt "B" Batteries. | 1—Horn or Cone Speaker. |
| 1—Box-type Loop. | 1—Pr. Headphones. |



The Remler parts are scarce and hard to obtain. We make this special offer to you at this extraordinary price on one of the best of all Supers. We are not specifying which accessories to buy as you may choose from the pages of our catalog. Be sure to specify which type tubes are to be used. Buy only a center tap loop.

Remler Sargent Infradyne Kit



THE new Remler Infradyne circuit, as developed by E. M. Sargent, employs an entirely new development of the super-heterodyne principle. Ten tubes and only two tuning controls. Differs from the super-heterodyne in that the intermediate frequency amplifier is furnished as one unit manufactured by Remler. The intermediate amplifier employs radio frequency amplification on efficient short waves instead of the long waves as in the super-heterodyne. The infradyne circuit also uses two stages of tuned radio frequency. It is powerful beyond description and will bring in with full local volume distant stations which many super-heterodynes will fail to get entirely. No harmonics. Only one dial setting for each station. No long wave distortion or noises. Powerful but quiet in operation. Wonderful tone quality. Simple to handle, the infradyne is new and popular.

LIST OF PARTS

- | | |
|---|---|
| 1—Remler Infradyne Amplifier. | 1—Jewel No. 135, 0-5 Voltmeter. |
| 1—Continental triple Vernier Condenser. | 1—1 meg. Grid Leak. |
| 1—Tapped Inductance. | 1—2 meg. Grid Leak. |
| 1—Set Thororia Doughnut Coils. | 1—.001 mfd. Fixed Condenser. |
| 7—Benjamin Cushion Sockets. | 1—.0005 mfd. Fixed Condenser. |
| 1—Carter Filament Switch. | 1—.0025 mfd. Fixed Condenser. |
| 2—30-ohm Rheostats. | 2—1 mfd. Fixed Condenser. |
| 1—10-ohm Rheostat. | 2—Marco Vernier Dials. |
| 4—Amperites. | 1—Baseboard. |
| 1—Grid Leak Mounting. | 2—Amertran DeLuxe Transformers. |
| 1—Condenser Mounting. | 1—Drilled Bakelite Panel. |
| 1—Single open circuit Jack. | 1—Complete set binding posts with strips, |
| 1—Single closed circuit Jack. | screws, lugs, hook-up wire and diagram, |
| 1—Centralab 50,000-ohm Resistance. | |

As described in "Radio"
No. R2558

\$96⁵⁰

Shipping weight 30 lbs.

Six-Tube Resistance Coupled Kit

A Radio Frequency Kit for Quality Reproduction

THE finest tone quality is secured with resistance coupled amplifiers. Conceded by all leading authorities. A remarkable instrument for the lovers of music and distant reception alike. The very finest quality apparatus is included in this kit. Nothing else to be desired.

Distant reception, enormous amplification with full volume and perfect undistorted reproduction. The efficient tuned radio frequency circuit is composed of matched units. The circuit is of latest design, including the most recent developments. A truly efficient kit. Faithful reproduction is the watchword of the day. Everyone wants perfect tone quality in a radio receiver as well as distant reception and selectivity. These all three are combined in an exceptional receiver. Our price is remarkably low. This makes a fine receiver of remarkable value. Easy to wire. Complete blueprint furnished.

LIST OF PARTS

- | | |
|--|-------------------------------------|
| 1—7x18" Drilled Bakelite Panel. | 1—.25 meg. Resistor. |
| 1—9x17" Baseboard. | 2—Tip Jacks. |
| 3—.00035 Commodore SLF Condensers. | 3—Matched Radio Frequency Coils. |
| 1—30-ohm Rheostat with knob. | 6—Universal Sockets. |
| 1—Filament Switch. | 1—No. 1 Amperite. |
| 1—206 000-ohm Variable Resistance with knob. | 1—.00025 Grid Condenser with clips. |
| 3—Polymet Resistor Couplers, complete with— | 1—Grid Leak, 2 meg. |
| 3—.006 Condensers. | 1—1. mfd. By-Pass Condenser. |
| 3—.1 meg. Resistor. | 1—Binding Post Strip. |
| 3—.1 meg. Resistor. | 3—Marked Binding Posts. |
| 1—.5 meg. Resistor. | Ant. Grid. A—A+ B—B+ B+ B+. |
| | 3—4" Bakelite Dials. |
| | Screws, Lugs and Wire. |
| | 1—Wiring diagram and layout. |

No. R2522

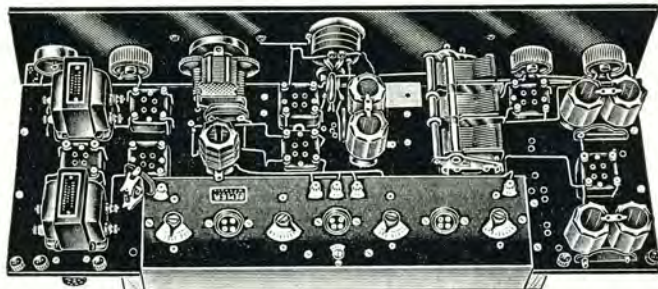
\$19⁷⁵

Shipping weight 12 lbs.

Accessories recommended for this receiver: One 7x18" cabinet, three X-201A tubes, three Hi Mu tubes, i. e. two MX-20 and one MX-6, one Quality Cone Speaker, 90 to 135 v. "B" batteries, one 100-amp. storage battery. Cabinet and accessories for this receiver will be found on other pages of this catalog.

Remler Infradyne

As Described in Citizen's Radio Call Book



Kit of Parts

Complete, ready to assemble and wire with genuine parts used.

\$95⁰⁰

REMLER ten-tube Infradyne. The only actual new circuit of the present season. Developed from the Super-Heterodyne. Claimed to be more efficient than Super-Heterodyne circuits. Though new, the Infradyne has been proved. It is sharp, selective, and will amplify signals that cannot even be heard on many other receivers. The radio frequency amplifier is novel. It is supplied in one com-

plete unit, manufactured by Remler. Ten tubes are used and each functions to full efficiency. Unlike the Super-Heterodyne, there are positively no harmonics. One dial setting for each station. Though it appears complicated, the Infradyne is very easily assembled because of the one compact radio frequency unit. Only the genuine apparatus as specified is listed. This circuit is taking the country by storm.

Read This Wonderful List of Parts

- 1—7"x28"x $\frac{3}{8}$ " Drilled Bakelite Panel.
- 1—8 $\frac{3}{4}$ "x27"x $\frac{3}{8}$ " Bakelite Sub-Panel.
- 1—Remler No. 700 Infradyne Amplifier.
- 1—Remler .00035 Twin-rotor Condenser.
- 1—Continental .00035 Three-gang Condenser.
- 1—Jewell 0-7.5-150 Panel Mounting Volt-meter.
- 1—Pair Benjamin Brackets.
- 1—Frost 10 Ohm Rheostat.
- 2—Frost 30 Ohm Rheostats.
- 1—Frost Filament Switch.
- 3—Frost Jacks.
- 1—Frost 50,000 Variable Resistance.
- 1—Benjamin UX Cushion Socket.
- 6—Frost UX Sockets.
- 1—Set Camfield Infradyne Duoformers.
- 1—Camfield Oscillator Coupler.
- 2—Thordarson R200 Transformers.
- 1—Jones Multi-plug and Cable.

- 2—Sangamo 1 mfd. By-pass Condensers.
- 1—Sangamo .00025 Condenser.
- 1—Pair Sangamo Grid Leak Clips.
- 2—Sangamo .0005 Condensers.
- 2—Kurz Kasch Aristocrat Vernier Dials.
- 1—Grid Leak Mounting.
- 2—Grid Leaks.
- 1—Carter 2-ohm Fixed Resistance.
- 3—Carter 4-ohm Fixed Resistances.
- 5—Eby Binding Posts.
- Screws, Lugs, Wire.
- 1—Wiring Diagram and Layout.

R2509—

Remler Infradyne parts complete ready to assemble. Shipping weight, 25 lbs.

\$95⁰⁰

Accessories recommended for the Infradyne: Four X-201A tubes, four X-199 tubes, one X-200A tube and one X-112 tube, one 6-volt 100-amp. storage battery or "A" power unit, three 45-volt "B" batteries or Raytheon "B" Eliminator, two 4 $\frac{1}{2}$ -volt "C" batteries, complete antenna and ground kit, one quality cone speaker, and one 7x28-inch walnut cabinet or console.

This is the last word in multi-tube sets

Remler Infradyne Amplifier

The heart of the Remler Infradyne Receiver. An entirely new radio frequency amplifier. Instead of the amplifying of radio frequency on long-wave intermediate stages, as is done in the Super-Heterodyne, the Remler Infradyne Amplifier profits by all of the advantages of multi-tube short-wave amplification. The Remler Amplifier is complete in itself, consisting of Remler sockets, Remler coils, special vernier condensers and fixed mica condensers. Completely assembled and wired in polished and lacquered copper case, which effectively shields amplifier, preventing undesirable coupling between it and balance of receiver. A new era is opened by this development of the Remler laboratories.



R344—
Postage, 25c
extra

\$21²⁵

Improved Hammarlund-Roberts 1927 Kit

The new 1927 shielded Hammarlund-Roberts. Only two tuning controls.

A powerful and selective receiver, incorporating all the desirable features of the original Hammarlund-Roberts with the latest developments for perfection of tone quality.

Enormous volume of distant stations is obtained. Perfect tone quality. Selective—will separate powerful broadcasting stations even when located near to you.

The highest grade of apparatus is used throughout, insuring a kit whose component parts will never become obsolete through lack of efficiency.

Described and approved by the leading radio publications.

Essentials for Hammarlund-Roberts 1927 Kit.

- R371 Hammarlund Auto Couple Coils. Set of 3. **\$8.95**
 R372 Hammarlund Foundation Unit. **9.45**
 R373 Carter Combination Rheostat and Filament Switch. **.79**

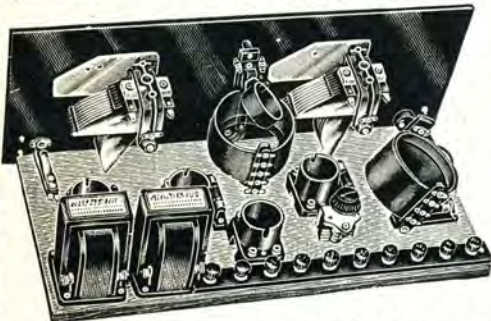
Foundation Unit consists of special panel, drilled sub-panel, complete shields, extension shaft, equalizers, fixed resistance, screws and other hardware.

Complete list of parts with the new Hammarlund-Roberts 1927 kit:

- 3—Hammarlund .00035 Midline Condensers
 - 1—Hammarlund Auto Couple Coil Set
 - 1—Hammarlund 9 pl. Midget Condenser
 - 1—Hammarlund Foundation Unit
 - 2—Samson Audio Transformers, Type HW-A3 (3-1)
 - 2—Marco Venier Dials No. 192
 - 2—Radiall No. 1-A Amperites
 - 1—Radiall No. 112 Amperite
 - 1—Benjamin Sockets with bases, No. 9040
 - 2—Benjamin Sockets without bases, No. 9049
 - 1—Durham 2 Meg. Metallized Resistor
 - 10—Eby Engraved Binding Posts
 - 1—Sangamo .00025 mfd. Fixed Condenser
 - 1—Sangamo .001 mfd. Fixed Condenser
 - 1—Palf Sangamo Grid Leak Clips
 - 1—Carter 10-ohm Midget Rheostat with Filament Switch combined
 - 1—Carter Open Circuit Short Jack
 - 1—Carter Imp. Aerial Switch
- R2559** **\$53.60**
 Shipping weight, 20 lbs.

Hammarlund-Roberts Kit

THE genuine Hammarlund-Roberts circuit. Widely popular, described and approved by nationally known radio publications because of its efficiency. Hammarlund-



Roberts is offered with a standard panel so that it may be installed in any standard size cabinet. This is a distinct advantage. A five-tube circuit famed for its selectivity, long range and splendid tone qualities. Audio Transformers of the highest grade are used, insuring faithful reproduction.

Though a new Hammarlund-Roberts Kit as described above has been introduced, we feel certain that the old Hammarlund-Roberts' fans will continue to boost and praise the original efficient Roberts. Sensitive and selective to an ultimate degree. Unusually stable and easy to operate. So efficient that coast to coast reception has often been reported by the enthusiastic followers of this popular circuit. The nationally known Rauland Lyric Transformers insure perfect tone quality. Easy to build and easy to operate.

COMPLETE PARTS FOR HAMMARLUND-ROBERTS KIT

- 1—8x20" Baseboard
- 1—7x21" Drilled Bakelite Panel
- 2—4" Bakelite Dials
- 1—Carter 25-ohm Rheostat with Knob
- 1—Carter Imp. Switch
- 1—Carter Single Circuit Jack
- 2—Hammarlund .0005 S. L. F. Condensers
- 1—Hammarlund-Roberts Space Wound Coupler with Knob and 1 Space Wound R. F. Transformer
- 5—Universal Sockets
- 1—1-A Amperites
- 2—Rauland Lyric R. 500 Transformers
- 1—Hammarlund Midget Condenser
- 1—2 meg. Grid Leak
- 1—Dubilier Grid Condenser .00025 with Clips

R2513
 Shipping weight, 20 lbs.

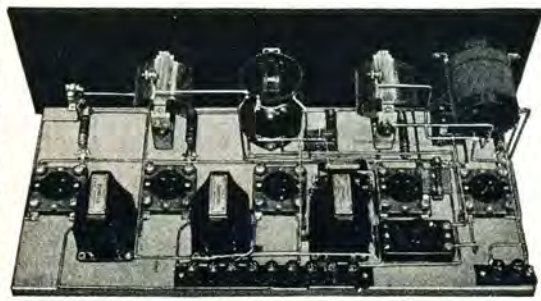
\$47⁹⁵

- 1—Dubilier Grid Condenser .002 mfd.
- 1—Dubilier Condenser .006 mfd.
- 1—Binding Post Strip with 10 Posts
- Ant. Gnd. A— A+ B+ B+ B+ B— C— C—
- Screws, Bus Wire, Soldering Lugs
- Blue Print and Diagram

New Samson De Luxe 5-Tube Transcript Kit

AS DESCRIBED in the Citizens' Radio Call Book. A distinct 5-tube circuit, using Samson high quality apparatus. One stage of tuned radio frequency and a regenerative detector with a variable primary, making possible any degree of selectivity. Of particular note is the new Samson straight line frequency variable condensers. These are

of exceptional quality and have perfect SLF characteristics. Three stages of new Samson Dual Impedance amplification is employed. This is an entirely new system of audio amplification perfected by Prof. Donle, having the advantages of all former types of coupling with none of their disadvantages. **Faithful amplification over the entire musical scale.**



Powerful and selective with perfect tone quality. Nothing else to desire. Easy to wire with the pictorial diagram that we furnish, showing each part in its place and the proper connections.

R2515
 Shipping weight, 20 lbs.
\$58⁶⁰

SEE THESE GENUINE PARTS

- 1—7x21 Drilled Bakelite Panel
- 1—9x20 Baseboard
- 1—3/4x2 1/2 Terminal Strip
- 1—3/4x7 1/2x3/16 Terminal Strip
- 5—Benjamin UX Sockets
- 4—Amperites, Type 1-A
- 1—Amperite, Type 112
- 1—Samson Type No. 41 Antenna Coil
- 1—Samson Type No. 31 Double Rotor Coupler
- 2—Samson Type No. 67 .0605 mfd. Variable Condensers
- 2—Samson Type No. 85 Radio Frequency Chokes
- 1—Samson Type No. 61 Neutralizing Condenser
- 1—Samson Type No. HW-A3 Audio Transformer
- 2—Samson Type No. D Dual Impedance
- 2—Samson Universal Verniers
- 1—Frost No. 608 Battery Switch
- 1—.0005 mfd. Grid Condenser with Clips
- 1—2-megohm Grid Leak
- 1—.001 mfd. Fixed Condenser
- 1—.0001 mfd. Fixed Condenser
- 1—Eby Engraved Binding Posts
- 1—Frost No. 953 Open Circuit Gem Jack
- Screws, Wire and Soldering Lugs
- 1—Diagram and Layout

5 Tube Neutrodyne Kit

GENUINE Hazeltine Licensed Neutrodyne parts. The Neutrodyne remains one of the most popular and efficient of radio circuits. Selective and powerful. Does not squeal or howl. When properly constructed oscil-

lation is completely suppressed. Genuine licensed parts furnished. Neutrodyne owners are logging hundreds of stations from coast to coast. Easily constructed. Complete parts for five-tube Neutrodyne receiver.



R2504—For use with 301A Tubes for Storage Battery.

R2504A—For Dry Cell Tubes.

Shipping weight, 15 lbs.

\$24⁵⁰

Cabinet, size 7x24 inches, for this receiver will be found on other pages of this catalog. Sockets will fit any 201A or UX type bases.

LIST OF PARTS

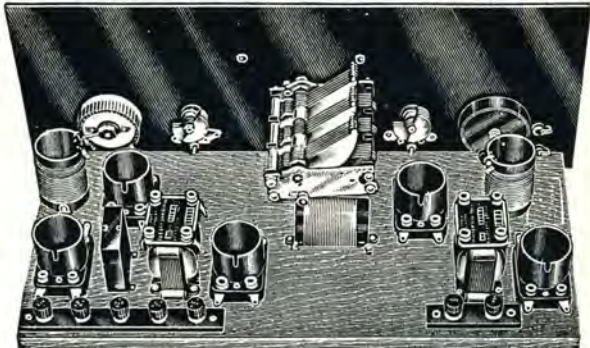
- 3—Workrite Neuroformers with Variable Cou-
densers.
- 2—3½-1 Columbia Transformers.
- 2—Neutralizing Condensers.
- 1—Double Circuit Jack.
- 1—Single Circuit Jack.
- 5—Universal Sockets.
- 3—Bakelite 4" Dials.
- 1—Dubilier .00025 Grid Condenser with Clips.
- 1—Dubilier .002 Mica Condenser.
- 1—Dubilier .002 Mica Condenser.
- 1—Bakelite Binding Post Strip with Binding
Posts mounted.
- 2—Binding Posts Ant. and Gnd.
- 1—30-ohm Rheostat.
- 1—5-ohm Rheostat.
- 1—7x24" Drilled Bakelite Panel.
- 1—8x23" Baseboard.
- 1—2-meg. Grid Leak.
- 1—Screws, Bus-bar Wire, Soldering Lugs.
- 1—Wiring Diagram and Layout.

Single Control 5 Tube R. F. Kit

AN EFFICIENT circuit that is simple to construct and easy to operate. A single control. Anyone without experience can tune in long distant stations with this simple receiver. A recent popular development. Long range with full volume and fine tone quality secured. Highest quality apparatus.

LIST OF PARTS

- 1—7x18" Drilled Bakelite Panel.
- 1—8x17" Baseboard.
- 1—Kurz Kasch Aristocrat Vernier Dial.
- 2—Phone Tip Jacks.
- 2—Pilot Neutrograd Compensating Condensers.
- 1—200,000-ohm Variable Resistance.
- 1—2-ohm Rheostat.
- 1—Filament Switch.
- 1—3-Gang Straight Line Frequency Con-
denser, .00035.
- 3—Matched Radio Frequency Coils.
- 5—Universal Sockets.
- 1—Columbia Transformer, ratio 6-1.
- 1—Columbia Transformer, ratio 3½-1.
- 1—1. mfd. By-pass Condenser.
- 2—Binding Post Strips with Mountings.
- 7—Binding Posts.
- Ant. Gnd. A—A+ B—B+ B+.
- 1—.00025 Grid Condenser with Clips.
- 1—2-meg. Grid Leak.
- Screws, Bus Bar and Soldering Lugs.
- 1—Wiring Diagram and Layout.



R2506—The Single Control, 5-Tube Kit, ready to assemble. Nothing else to buy except Cabinet, 5 301A Tubes, 2 45-volt "B" Batteries, Storage Battery and Loud Speaker.

Shipping weight, 15 lbs.

\$24⁶⁵

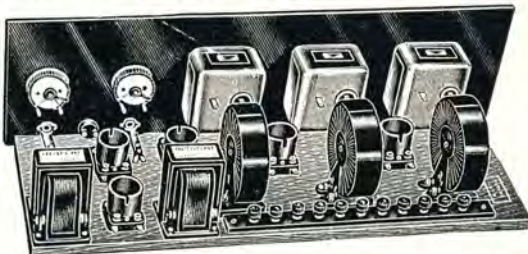
Cabinet, size 7x18 inches, for this receiver will be found on other pages of this catalog.

All American Toroid Kit

THE receiver composed of special features. The Toroid coils have proven their efficiency because of the absence of interstage coupling and pickup, thus increasing selectivity. The splendid All American variable condensers are exceptional in their construction. Condensers are fully shielded, eliminating the possibility of losses caused by dirt and dust between the condenser plates. The Rauland Lyric Transformers are noted for their superiority, faithful reproduction and splendid tone quality. The receiver as a whole is remarkably efficient, being selective, powerful, and gives perfect reproduction over the entire musical scale.

COMPLETE PARTS FOR ALL AMERICAN TOROID KIT

- 1—7x24 Bakelite Drill Panel.
- 1—8x23 Baseboard.
- 1—Type T-1 All American Toroid Coil.
- 2—Type T-2 All American Toroid Coils.
- 2—Rauland Lyric Transformers, R. 500.
- 3—Dubilier .002 Fixed Condensers.
- 1—Dubilier .00025 Grid Condenser.
- 1—Grid Leak Mounting.
- 3—All American .00035 SLP Shielded Condensers.
- 1—15-ohm Rheostat.
- 1—30-ohm Rheostat.
- 5—Universal Sockets.
- 1—Meg. Leak.
- 3—All American 360° Vernier Dials.
- 1—Carter Imp. Filament Switch.
- 1—1. Mfd. By-pass Condenser.
- 1—12 Amperite.



- 1—Carter Single Circuit Jack.
- 1—Carter No. 2-A Single Close Circuit Jack.
- 1—Binding Post Strip.
- 10—Binding Posts: B+B+B—A+A—C+C—Ant. Gnd. Ant.
- Screws, Wire and Soldering Lugs.
- 1—Wiring Diagram.

R2514 The Famous All-American Toroid Kit offered at a special price

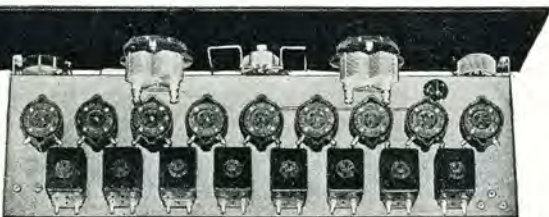
Shipping weight 18 lbs.

\$57⁶⁰

Nine-in-Line H F L Super-Het

As Described in Citizen's Radio Call

THE new Nine-Tube Super-Heterodyne that demonstrated its efficiency by cutting through all of Chicago's powerful local stations during the most unfavorable summer weather to bring in stations hundreds of miles distant with full loudspeaker volume during the daytime. This remarkable performance is possible because of the additional tuned intermediate stage and the fact that audio transformers as well as the intermediate, tuned transformers and oscillator were all designed to function as a unit in the HFL Super circuit. Extraordinary results obtained on loop aerial. Additional stage gives greater selectivity and range. Simple to construct.



You will have no difficulty in constructing the Nine in Line H F L Super. You can see from the illustration that all of the parts are laid out in such a uniform manner that no one could have difficulty in wiring this powerful nine tube receiver. Examine the illustration. Note how the socket lugs make direct connection with the terminals of the R. F., intermediate and audio transformers. Its natural simplicity is one of the reasons for the efficiency of this remarkable superheterodyne. We furnish you with a large and complete diagram and also full instructions. The diagram is not a technical blue print but shows each part in its proper position and all connections are plainly illustrated. You can easily build this nine-tube receiver. List of parts as follows:

- 1—7"x26"x $\frac{3}{16}$ " Drilled Bakelite Panel.
- 1—7"x24"x $\frac{3}{16}$ " Bakelite Sub-Panel.
- 1—Pair Benjamin Brackets.
- 3—HFL Transformers, Type H-210.
- 2—HFL Transformers, Type H-215.
- 2—HFL Transformers, Type F-320.
- 1—HFL Radio Frequency Choke Unit.
- 1—HFL Radio Frequency Transformer.

- 9—Amsco UX Cushion Sockets.
- 2—Remler .0005 Twin Rotor Condensers.
- 2—Accuratune Bakelite Vernier Dials.
- 1—CRL 200,000 Ohm Variable Resistance.
- 1—Chelton Midget Condenser.
- 2—1 mfd. By-pass Condenser.
- 2—Dubilier .0005 Mica Condensers.
- 1—Dubilier .002 Mica Condenser.
- 1—Carter Imp Filament Switch.
- 1—Radiall Amperite, $\frac{3}{4}$ Amp.
- 1—Battery Cable.
- 1—Frost 6 Ohm Rheostat.

- 1—Frost 25 Ohm Rheostat.
- 5—Carter Tip Jacks.
- 1—Pair Benjamin Brackets.
- Screws, lugs, nuts, bus bar wire and spaghetti.

1—Wiring Diagram and Layout.

No. R2539

Shipping weight, 30 lbs.

\$92⁸⁵

Cabinet and accessories for this receiver will be found on other pages of this catalog.

Citizen's Radio Call Book 15 to 550 Meter Kits

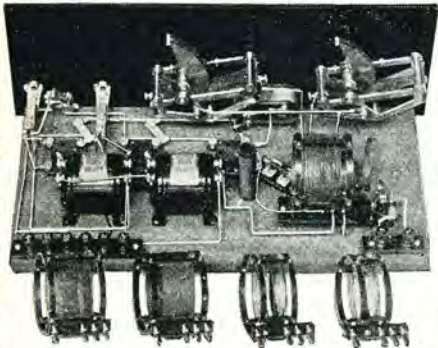
with Aero Interchangeable Coils

THE trend in radio during the past year has been toward short wave transmission. Wonderful records for distance have been made on the lower wave lengths, especially daylight reception. This receiver covers the lower wave bands as well as the broadcast lengths. Radio Call Book has developed and recommends this efficient three-tube circuit with five interchangeable coils. Only parts as recommended are included in this kit. Illustration shows one coil in place and the other four coils to cover 15 to 550 meters.

The 15 to 550 meter kit is easy to construct by anyone. All parts furnished are standard and nationally known. The panel is drilled and it is a simple matter to mount the parts and connect them together. We furnish you with a large complete diagram showing each part in its place and the proper connections to make. Only three tubes therefore extremely simple to construct but also very powerful. In fact, on the lower wave lengths greater distances can be obtained from three tubes than five tubes will get on the broadcast band, which is from 200 to 550 meters. This remarkable kit will cover both ranges, the short waves and the broadcast band. Complete instructions furnished.

COMPLETE PARTS FOR 15 TO 550 METER KIT

- 1—7x18x $\frac{3}{16}$ " Drilled Bakelite Panel.
- 1— $\frac{5}{8}$ x2 $\frac{1}{2}$ " Bakelite Terminal Strip.
- 1— $\frac{5}{8}$ x5" Bakelite Terminal Strip.
- 1—8 $\frac{1}{2}$ x17" Wood Baseboard.
- 2—Karas Audio Transformers.
- 1—Karas .00014 S. L. F. Condenser.
- 1—Karas .00025 S. L. F. Condenser.
- 3—Benjamin UX Sockets.
- 1—Carter 102A Jack.
- 1—Carter 103 Jack.
- 1—Carter Imp Switch.
- 1—Daven 51 Mounting.
- 1—Daven 8 meg. Grid Leak.
- 1—Dubilier .0001 Condenser.
- 1—25-ohm Carter Rheostat.
- 1—Set of 5 Aero Coils, 15 to 550 meters, with mounting.
- 1—Bakelite Tube, $\frac{3}{4}$ "x3 $\frac{1}{2}$ ".
- 1— $\frac{1}{4}$ lb. Spool No. 28 D. C. C. Wire.
- 2—Carter 4-ohm Resistances.
- 1—Busbar, Screws, Lugs, Solder and Spaghetti.
- 1—Diagram.
- 2—Kurz-Kasch Aristocrat Vernier Dials.



No. R2541
Shipping weight, 20 lbs.

\$56⁰⁰

Harkness 3 Tube Counterflex

BETTER than the Harkness Reflex. The Harkness Counterflex obtains from three tubes better results than was ever thought possible. A simple method of controlling oscillation, perfected by Kenneth Harkness, increases amplification and reduces losses many-fold. Consistent long range reception is actually obtained with this three-tube kit. Results are remarkable and astounding. The genuine Harkness kit is manufactured by the Kenneth Harkness Radio Corporation. It includes everything necessary to build the Counterflex. Kit includes 7x18" drilled and engraved bakelite panel, Sub-panel with sockets and binding posts mounted, counterflex coils, mounted on variable condensers, rheostats, fixed condensers, audio frequency transformers, neutralizing condenser, dials and knobs, filament switch, miscellaneous hardware and complete wiring diagram layout and instructions.



No. R2540

Shipping weight, 29 lbs.

\$30⁶⁰

Cabinet and accessories for this receiver will be found on other pages of this catalog.

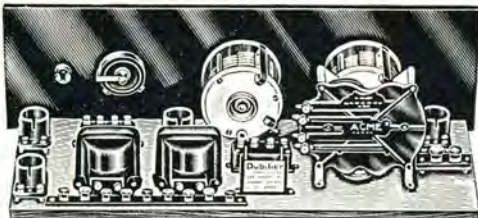
New Acme Five-Tube Reflex Kit

ACME is famed for its reflex circuits. The new five-tube kit is superior to all others. Contains all genuine Acme apparatus of finest quality. Results obtained with this five-tube kit on loop aerial is equivalent to that secured with many Super-Heterodynes.

Selective and powerful. Finest possible quality of reproduction is obtained by virtue of the new Acme MA-2 transformers. These are brand new Acme products carefully designed to rigid standards and will provide great amplification without distortion. Easy to build this fine, powerful receiver.

Reflex circuits have always presented a source of special interest to radio enthusiasts. The use of one tube serving a double purpose is an advantage making possible the construction of powerful receivers with a minimum number of tubes.

Many problems have confronted the designers of Reflex circuits. All have been solved in a practical manner by the famous and efficient Acme laboratories. We furnish you with diagram and layout so that you can easily assemble the kit and place it in service without relying on anyone else's expert advice or assistance. You can build this kit without experience



of any sort. The panel is fully drilled and the diagram shows the exact position for mounting each part.

R2525
Shipping weight 20 lbs.

\$45⁵⁵

LIST OF PARTS

- | | | |
|--|---------------------------------|--|
| 2—Acme MA-2 Transformers. | 2—3" Dials. | 1—Dubilier .00025 Grid Condenser with Clips. |
| 1—Acme R-3 Transformer. | 1—7x24" Drilled Bakelite Panel. | 1—Dubilier .0002 Fixed Condenser. |
| 1—Acme R-4 Transformer. | 1—9x23" Baseboard. | 1—1 megohm Grid Leak. |
| 1—Acme .0045 Variable Condenser. | 1—1-ohm Fixed Resistance. | 9—Binding Posts. |
| 1—Acme Twin Rheostat, 6 ohms—2,000 ohms. | 1—8-ohm Fixed Resistance. | 2—Binding Post Terminal Strip. |
| 5—Universal Sockets. | 1—Filament Switch. | Screws, Lugs, Wire. |
| 1—Acme "D" Coil Unit. | 1—.0004 Fixed Condenser. | 1—Wiring Diagram. |
| | 1—Mfd. By-pass Condenser. | |

The New Aerodyne Kit

ALABORATORY arrangement of low loss apparatus into a kit that surpasses anything of its kind that has ever been developed. Every part included in this circuit is of the very highest quality. This is a combination of low loss and good quality apparatus, and every bit of material is of careful design. Nothing is sacrificed. The high quality apparatus is shown below. Sensitive, selective with long range and exceptional tone quality and volume.

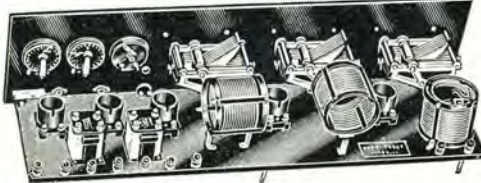
The Aerodyne Kit employs a standard 5-tube radio frequency circuit which has proven its reliability and efficiency. Two stages of tuned radio frequency amplification are em-

ployed, followed by detector and two stages of transformer coupled audio frequency amplification.

Superior results obtained with this circuit are primarily due to the splendid quality of the apparatus used throughout.

Examine our illustration of this splendid kit and check over the list of parts. You will find such well-known and approved apparatus as Karas condensers, Aero coils, Thordarson transformers and Carter rheostats listed. Better quality apparatus is not made. The Aerodyne is powerful and selective, having wonderful tone quality, and simply because each component part included in the circuit represents quality of the highest type.

It is simple to build the Aerodyne. Complete instructions and layout are furnished. The panel is drilled, as is also the bakelite sub-panel. Anyone can mount all of the parts in half an hour's time, and the wiring of the circuit presents no problem whatsoever. Each part is placed in such a way that terminal to terminal connections are very short. Each of these connections is clearly shown on the diagram, which anyone without experience can read.



R2526

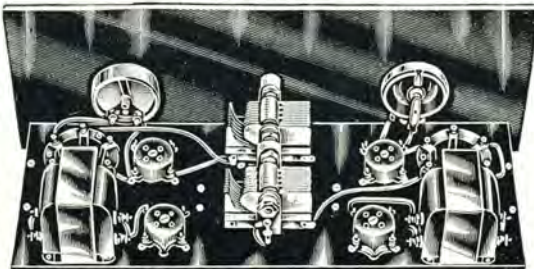
Shipping weight 20 lbs.

\$56⁹⁰

COMPLETE PARTS FOR AERODYNE

- | | | |
|--------------------------------------|---|---|
| 1—5 meg. Grid Leak. | 1—Carter Imp. Filament Switch. | 3—Karas .00037 Variable Condensers. |
| 1—.002 Fixed Condenser. | 9—Binding Posts. | 1—15-ohm Rheostat with Knob. |
| 1—1 mfd. By-pass Condenser. | Ant. Grid, B—B+R—A+C+C—A—. | 1—30-ohm Rheostat with Knob. |
| 1—No. 112 Amperite. | 1—Carter Open Circuit Jack. | 1—200,000-ohm Variable Resistance with Knob. |
| 1—Pair Benjamin Brackets. | 1—Carter Closed Circuit Jack, Type 2-A. | 5—Universal Sockets. |
| Screws, Lugs and Bus-bar. | 1—.00025 Grid Condenser with Clips. | 1—Set of 3 Aero Matched R. F. Coils with Mounting Brackets. |
| 1—Wiring Diagram and Layout. | 1—7x28" Drilled Bakelite Panel. | |
| 2—Thordarson 332-1 Transformers. | 1—7x27" Bakelite Sub-panel. | |
| 3—Kurz-Kasch Aristoat Vernier Dials. | | |

New Silver-Cockaday Receiver



THE wonderful circuit perfected by Laurence Cockaday and McMurdo Silver, both famed radio engineers. A single control receiver, simple to operate and as efficient as many multi-tube, multi-control instruments. By removing the two coils from sockets and putting in others the shorter and longer wave bands may be covered.

Consists of Genuine Silver-Marshall No. 620 Silver-Cockaday Kit of Parts, drilled 7"x18" panel and sub-panel, 4UX sockets, Vernier Dial, Thordarson R-200 Power Transformers, Yaxley Rheostat, Jacks and Switch, CRL resistance, Belden wiring harness, Polymet Condensers, wiring diagram and layout and necessary screws, bolts and nuts. Complete kit of parts to build this wonderful circuit.

Cabinet required, size 7x18".

Cabinet and accessories for this receiver will be found on other pages of this catalog.

This kit comes completely packed by Silver-Marshall and is complete in every respect. The ultimate in a receiver.

R2519 Complete Silver-Cockaday Kit.

Shipping weight, 20 lbs.....

\$50³⁵

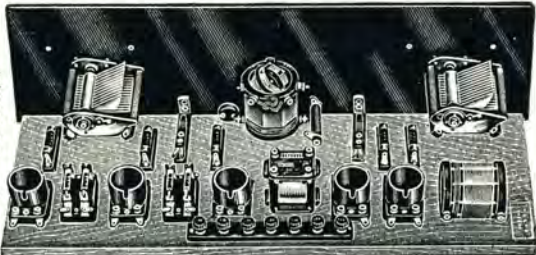
Improved Diamond of the Air

Five Tube

THE Genuine Diamond of the Air as described in *Radio Review*. Greater amplification per stage than obtained in any other circuit. Wave length range 175 to 550 meters. Oscillation control obtained without losses. One stage tuned radio frequency, regenerative detector that does not reradiate, three stages resistance coupled audio frequency. Perfect reproduction, full volume and exceptional range. The Diamond of the Air will satisfy the most fastidious.

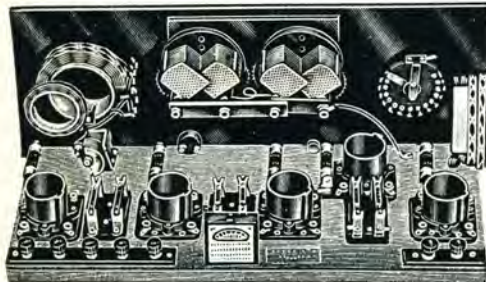
The fundamental circuit of the Diamond of the Air has gained nation-wide approval. Sharper tuning, greater selectivity and greater sensitivity with more volume is obtained with this remarkable circuit. All know of the superiority of the regenerative detector. It is more efficient many times than the detector of the non-regenerative type. Coupled with a stage of tuned radio frequency, the regenerative detector becomes selective and will not reradiate. It is simple to control. Actually only two main tuning controls and one regenerative control. Each tube in this circuit functions to full efficiency. The resistance amplification with one stage of transformer amplification insures full volume and a perfection of reproduction not usually found. Easy to build and operate.

R2510 Shipping **\$37⁵⁰**
weight, 15 lbs.



COMPLETE LIST OF PARTS

- | | |
|---|---------------------------------------|
| 1-7-24" Drilled Bakelite Panel. | 2-Daven Resistor Couplers. |
| 1-8x23" Baseboard. | 2-Daven .1 Glastors. |
| 2-.0005 SLF Condensers. | 1-Daven .5 Glastor. |
| 1-Carter Imp. Filament Switch. | 1-.25 Glastor. |
| 1-Single Circuit Jack. | 1-Columbia Transformer, 3 1/2-1. |
| 1-Double Circuit Jack. | 1-Binding Post Strip. |
| 2-Kurz-Kasch Aristocrat Vernier Dials. | 7-Binding Posts. |
| 1-Pointer Knob. | Ant. Gnd. A- A+ B- B+ B+. |
| 5-1-A Amperites. | 1-Bretwood Variable Grid Leak. |
| 1-Bruno No. 99 Quartzite Tuner. | 1-.00025 Condenser. |
| 1-Bruno No. 99 Quartzite R. F. Coupler. | 1-Screws, Bus Bar and Soldering Lugs. |
| 5-Universal Sockets. | 1-Wiring Diagram and Layout. |



Radio Broadcast Aristocrat

DESIGNED by Arthur Lynch. This Single Control 5-tube Receiver is exceptionally efficient. Distant performance is equal to most Super-Heterodynes. The genuine Aristocrat as described in *Radio Broadcast*.

Few circuits have surpassed in popularity the Radio Broadcast Aristocrat. This instrument employs a stage of tuned radio frequency and a regenerative detector combining efficiency, selectivity, long range and volume, with ease in operation. A truly single control instrument.

Positively will not reradiate to annoy or disturb your neighbors. It is easily controlled, yet hair-line selectivity may be obtained. All of the parts are genuine as specified for the Aristocrat.

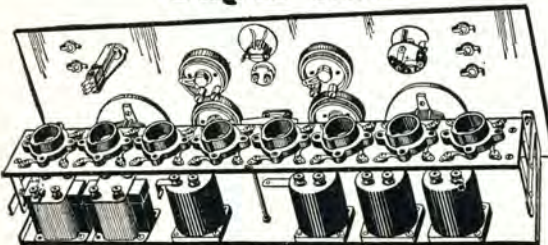
We furnish complete diagram showing position of each part. Drilled panel. Simple to construct. Easy to operate. Anyone can build this remarkable kit.

LIST OF PARTS

- | | | |
|--|---|----------------------------|
| 1-7x18" Drilled Bakelite Panel. | 2-Plain Ant. Gnd. A-, A+, C-, B+, B+, B+. | 5-Benjamin Sockets. |
| 1-7x17" Base. | 1-Carter 7-point Inductance Switch with Knob. | 1-Pointer Knob. |
| 1-Hanscom Capacity Unit with Marco Dial. | 1-Wiring Diagram and Layout. | 3-Daven Resistor Couplers. |
| 1-Set Slickies Diamond Weave Coils. | 2-Dubilier .004 Fixed Condensers. | 3-Daven .1 meg. Resistors. |
| 1-Carter Imp. Filament Switch. | 1-Dubilier .5 mfd. By-pass Condenser. | 1-Daven 1. meg. Resistor. |
| 1-Daven .25 meg. Resistor. | 1-Dubilier .00025 Grid Condenser with Clips. | 1-Daven .5 meg. Resistor. |
| 1-Hammariund Neutralizing Condenser. | | 1-.2 meg. Grid Leak. |
| R2542 Shipping \$41⁹⁵ | | 5-1-A Amperites. |
| weight, 15 lbs. | | 2-Binding Post Strips. |
| | | 10-Posts. |

Cabinet size 7x18" for this receiver will be found on other pages of this catalog.

Portable Remler-Best Super Kit



Complete parts for the Remler Portable Kit.

R2511D Shipping **\$69⁵⁰**
weight, 25 lbs.

The Remler-Best Super-Heterodyne is one of the few super-heterodyne circuits that combine multiplicity of tubes with compact construction and ease in control.

These advantages naturally lend themselves to portable use.

A portable receiver must necessarily be small and compact, yet it must also be sufficiently powerful to receive distant stations with full volume and clarity on a loop aerial.

The layout is so compact that only a 7x21" panel is required, and the total depth is hardly more than 5". It may be used with any standard portable case. None of the desirable operating features of the Remler-Best circuit have been sacrificed. This is a nationally famous super-heterodyne circuit that has proven its efficiency and is modern and powerful in every respect.

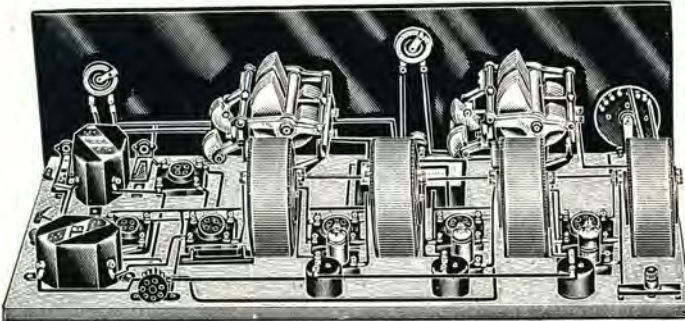
The portable Remler Kit is extremely easy to build. Thousands of Remler Supers have been constructed by our customers and are in general use. Complete diagram furnished.

Eight 159 tubes are used, therefore use of dry cells throughout are satisfactory.

The apparatus and parts used are of the very best quality, including genuine Remler transformers, condensers and all other Remler essentials. A remarkable and efficient circuit.

The New B. T. Counterphase Power Six

Developed from the famous Bremer-Tully Counterphase Six. Contains many new remarkable developments



SIMPLIFIED CONTROL

The power six employs three stages of tuned radio frequency amplification. The additional stage of tuned radio frequency makes possible far greater selectivity and greater receiving range with a short or inside aerial.

While it has this additional tuned radio frequency stage, the number of controls have been reduced to two, so that anyone may tune this sharp and sensitive receiver with both hands.

The efficient design of the B. T. Torostyle transformers insure an efficient and maximum transfer of energy from stage to stage without interstage coupling or stray coupling and feed-back. This makes possible clean sharp tuning without free oscillation and howling. It includes power tube output. The new tubes power tube output. The new tubes power tube output. The new tubes power tube output.

...over tubes which are so highly recommended may be used in the output stage of the counterphase power kit. Improved reception and tone quality is thus obtained with greater volume.

Many new features, including new balancing condensers, Jones Multiplug, universal sockets and wiring harness. Easy to build and assemble with the complete instructions and wiring diagram and the color coded wiring harness. Anyone can construct this powerful kit and obtain long range reception with short aerial.

LIST OF PARTS

- 1—T. A. Torostyle Transformer.
- 3—T. C. Torostyle Transformers.
- 2—L. D. —17 Condensers.
- 3—B. T. Mikro Mike Condensers.
- 3—B. T. R. F. Chokes.
- 1—B. T. 500,000 ohm Variable Resistance.
- 2—1500 ohm Resistances.
- 1—7x24 panel.
- 1—Baseboard.
- 1—B. T. Euphonic Transformer, 2.2 to 1.
- 1—B. T. Euphonic Transformer, 4.7 to 1.

- 2—B. T. Tuning Controls.
- 1—.001 mfd. fixed condenser.
- 1—.00025 mfd. fixed condenser.
- 1—.006 mfd. fixed condensers.
- 2—.1 mfd. fixed condensers.
- 1—2 meg. grid leak.
- 5—B. T. U. L. or U. X. A sockets.
- 1—B. T. U. S. detector socket.
- 1—Double circuit jack.
- 1—Single circuit jack.
- 1—Filament switch.
- 1—3 ohm Rheostat.
- 1—Single pole double throw jack switch.
- 6—Binding posts and mounting strips
- 2—4½-volt "C" Batteries.

Lugs, Screws and Hookup Wire.
Shipping weight, 18 lbs.

R2566.....\$66.90

B. T. POWER SIX ESSENTIAL KIT

- 1—T. A. Torostyle Transformer.
 - 3—T. C. Torostyle Transformers.
 - 2—L. D. —17 condensers.
 - 3—B. T. Mikro Mike Condensers.
 - 3—B. T. R. F. Chokes.
 - 1—B. T. 500,000-ohm resistance.
 - 3—1500 ohm resistances.
 - 1—Set colored charts and diagrams.
- R2567 Price \$34.05**
prepaid.....

B. T. Short Wave Outfit

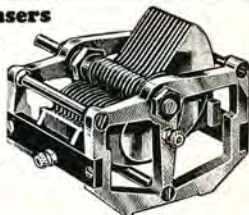
Essential short wave kit consisting of 4 interchangeable coils and base. Also one adjustable coil. Covers short waves from 12 to 200 meters. Is in addition to the parts shown: 1 B. T. .00015, 1 B. T. .00025 variable condensers. Two stages of audio frequency amplification are required in addition.

R2568 Price, \$6.56
prepaid.....



B. T. Lifetime Condensers

The Bremer-Tully condenser is a laboratory instrument and is nationally known. It is constructed of the finest materials and has an adjustable life-time bearing. Specified wherever superior instruments are required. Has single hole mounting. Pig-tailed rotor. Grounded frame. Heavy aluminum plates and case aluminum ends.



Euphonic Transformers

Quality amplification. Scientifically constructed, they give amplification equal in quality to that obtained with impedance coupling, but only two stages are required. No distortion, no audio frequency oscillation, but perfect amplification over the entire musical scale. So constructed with adjustable mounting legs that they may be placed or mounted in any position, yet all crossed wires and long leads will be eliminated.

R150 Ratio 2.2 to 1. \$4.10
Price, prepaid.....



R151 Ratio 4.7 to 1. \$4.71
Price, prepaid.....

STRAIGHT LINE WAVE LENGTH ENDS.

R937A	.00015	\$3.48
R937	.00025	3.69
R938	.00035	3.89
R939	.0005	4.10

STRAIGHT LINE FREQUENCY

R940	.00025	\$4.51
R941	.00035	4.71
R942	.0005	4.92

Multiple Condensers

Double condenser unit as used and specified in the Counterphase and Power Six. Consists of 2 .00035 units mounted on one shaft. The stators are electrically insulated from each other. Has trimmer compensators on each section.

R154 Double unit. \$7.79

B. T. Tuning Control

The original window vernier dial. Finely finished and splendid looking. Enables anyone to sharply tune the most critical receiver with ease. Makes possible the finest degree of adjustment. One-half the dial is graduated 0 to 100 and the other 100 to 0. It may be used with any type condenser—clockwise or counter-clockwise.

R152 Price \$2.05
prepaid.....



B. T. R. F. Choke Coil

The B. T. R. F. choke is used to increase the efficiency of many circuits by preventing radio frequency currents from entering the audio circuits. Should be used with all radio frequency receivers, including Super-Heterodynes. Specified in many kits.

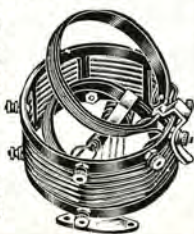
R153 Price, prepaid..... 73c

B. T. 3-Circuit Tuner

The 3-Circuit Tuner reaches its highest form in the B-T, bank-wound, skeleton frame product. Adjustable primary for selectivity. Single hole or base mount. Tuned with .00025 condenser.

R139 Type B, for broadcasting, covers 200 to 565 meters. \$4.10

R139A Type SW, for short waves, covers 50 to 150 meters. \$3.28
Each.....
Prices prepaid extra.



B. T. Mikro Mike Condenser

The new precision low capacity B. T. mfm. condenser. Has range of from 1½ to 30 mfm. Straight line capacity characteristics. Used in the Counterphase. Has glass dielectric. Practical and efficient. Easily installed and mounted. Can be secretly adjusted with ease.

R158 Prepaid..... 82c

B. T. Torostyle Transformers



The same transformers used and specified for the patented Counterphase Six. Has closed field, eliminating interstage coupling and pick-up. May be mounted close together. No losses. Substantially constructed. Terminals brought to seven

R155 Type T. A. Antenna Coupler

R156 Type T. C. for intermediate R. F. stages

R157 Type 4-A for 4-tube sets. \$3.28
each.....

Samson Super Kit Super-Heterodyne Essential Kit

An efficient and powerful super-heterodyne can be constructed with the Samson super kit as a foundation unit. The kit includes 3 intermediate transformers, 1 tuned filter transformer and oscillator coupler.



wound in the famous helical manner, reducing distributed capacity and making possible sharper matching than is obtained with any other form of winding. Matched and tuned at 60 kilocycles, complete with diagram and full instructions.

R2574 Postage, 20c extra. **\$19.13**

Samson Double Rotor Coupler

Specified for the famous Samson T. C. Kit. Used and recommended in any circuit where a three-circuit tuner is required. Wound with double silk-covered wire on formica. The primary as well as the tickler coil is wound on a rotor. This makes possible the adjustment to any degree of selectivity. The design is unique and efficient. The tickler coil may be adjusted for sensitivity and regeneration, while the rotor primary may be fixed or adjusted at the operator's wish for every degree of selective tuning. All terminals are brought to soldering lugs, simplifying installation. Equipped with two Bakelite knobs. Tuned with .0005 condensers.

R177 Postage, 5c extra. **\$6.37**

Samson Antenna Coil

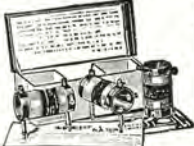
Antenna coupler or radio frequency transformer. Matches the double rotor coupler illustrated above when tuned with .0005 condenser. Wound with double silk-covered wire on formica tubing. Has mounting legs and all terminals are brought out to soldering lugs. This is as specified for the Samson T. C. Kit and may also be used in any circuit where antenna coupler or radio frequency transformer is required. Solenoid form of wiring insures greatest transfer of energy with lowest losses.

R178 Postage, 5c extra. **\$3.40**

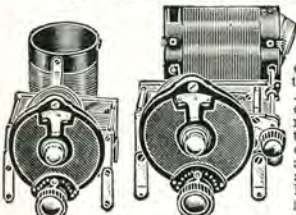
Daven Radio Frequency Coils

Especially designed for the famous Daven bass note circuit. May be used in any tuned radio frequency circuit. Has low radio frequency resistance and extremely small field reducing inter-stage coupling and stray field back to a minimum. No self-oscillation. Very small for compact work. Only 3" long by 1 1/2" diameter. Complete stability. D. R. F. coils will give the utmost in selectivity and ease of tuning. Maximum coupling between primary and secondary with minimum of losses. Furnished with mounting legs as illustrated in attractive carton. Also included are complete instructions for constructing the Daven bass note circuit. **R179** Set of 3 as illustrated.

Postage prepaid. **\$6.80**



National Regenformers "Type B"



The national space wound Browning-Drake inductances mounted on the new national equicycle S. L. F. condenser with the new national type B Vernier dial. Are mathematically and scientifically correct, so that a maximum value of amplification never before possible is obtained. Inductance units are space wound with enameled-covered wire, insuring lowest dielectric losses and greatest transfer of energy.

The new National Equicycle condensers included with the National Units are unique in that they have a rotation of 270° instead of the usual 180°. They have perfect S. L. F. characteristics and the additional degree of rotation further separates the stations on both the lower and higher wave lengths. Both units as illustrated are required for the Browning-Drake circuit. Type B, D, 1 B includes the antenna or radio frequency space wound coupler mounted on .0005 National Equicycle S. L. F. condenser, with the national type B Vernier dial. Type B, D, 2 B combines the Browning-Drake space-wound transformer with rotor coupler, shaft and knob, mounted on a .00025 National Equicycle condenser with National type B Velvet Vernier Dial.

R180 Type B, D. **\$9.23**

R181 Type B, D. **\$12.38**

Postage, 10c extra.

Bruno Diamond for the Air Basic Kit

The basic essential kit for the famous Diamond of the Air receiver. Licensed under Armstrong regenerative patent.

The famous Diamond of the Air has proven its efficiency. Obtains greater amplification per stage than any other 5-tube circuit. The fundamental Diamond of the Air circuit employs a stage of tuned radio frequency, regenerative detector, one stage of transformer coupling and two stages of resistance coupling audio frequency amplification. Employs no losses, frequency modulation and oscillation easily and simply controlled. Highly selective. Easy to cut through powerful local stations. True straight line frequency condensers separate all stations quickly. Only two major tuning controls and one regenerative control. Anyone can build the powerful, selective Diamond of the Air with the basic Bruno kit.

The method of amplification insures perfect tone quality. The transformer stage greatly increases volume and the two stages of resistance coupling perfectly amplify without distortion.

The basic kit consists of one Bruno No. 99 B. F. coupler, one Bruno No. 99 tuner, two Bruno Bakelite shafts straight line frequency condensers, three Bruno Vernier dials, one Bruno light switch.

In addition to the basic kit you will need a 7x21 panel, sub panel, transformer, two stages resistance coupling, 5 amperites, 5 sockets, panel brackets and hardware. The basic kit includes instructions and blue print.

R2576 Postage, 20c extra. **\$17.95**



Madison Moore Super Essentials

The efficient Madison Moore super-heterodynes are fully described on our kit pages. The Madison Moore intermediate and filter transformers are carefully and accurately matched. The frequency at which these transformers are tuned is 92,500 cycles. At this high frequency the noise level is a great deal lower than with transformers operating at lower frequencies. The kit consists of five essential units, including oscillator, intermediate radio frequency amplifying transformers and tuned filter transformers. All are sharply peaked. Included with the kit are blue prints and instructions that anyone can follow.

It is a simple matter to construct the efficient and powerful 8-tube Madison Moore Super. The additional parts necessary to complete the circuit will be found elsewhere in the catalog. You will find the complete list of parts for both Madison Moore super-heterodynes listed on our kit pages. You may buy these separately or use whatever combination of apparatus suits you best.

Furnished for both 199 and 201A tubes. Take particular notice that different kits as listed below are required for the 201A and 199 tubes. Kit consists of set of five units.

R2577 For 199 tubes. **\$62.50**

R2578 For 201A tubes. **\$62.50**

Postage prepaid.

National Impedaformer "Type B"

New impedance coupling units for audio amplifiers. The new type "B" impedaformer includes an audio frequency choke coil, one mfd. condenser and resistance in a single unit. This greatly simplifies the wiring of an impedance coupled amplifier. Three stages are required. In each stage three impedaformers are required. Madison Moore is marked "first stage" which includes a radio frequency choke coil. This is for the input stage of the amplifier.

R185A Price, each. **\$4.95**

Postage 8c extra.



New National Velvet Vernier Dials

TYPE B AND C. Beautiful Bakelite Vernier Dials which are easily mounted on any panel. Scale is read directly through window as shown. Smooth without back lash of any sort. Enabled fine tuning. The step down ratio is variable from 6:1 to 20:1. This is a feature found in no other Vernier dials. Friction drive. No gears. Type B is without lamp. Type C is illuminated with small lamp mounted but concealed in top of the dial. The bulb directly illuminates the scale.

TYPE B NICKEL

R185 Clockwise 200 to 0.

R186 Counter clockwise 0 to 200.

R187 Dual 0-100-0. **\$2.25**

TYPE C NICKEL WITH BULB

R188 Clockwise.

R189 Counter clockwise.

R190 Dual. **\$2.70**



National Equicycle Condenser

A straightline frequency condenser combining unusual mechanical ruggedness with highest electrical efficiency. Has range of rotation of 270°. This increases the useful tuning range 50%, separating all stations to a greater degree than with other types of straight-line frequency condensers.

R182 .00025. **\$6.32**

R183 .00035. **\$6.52**

R184 .0005. **\$6.75**

Postage, 8c extra.

SM Silver Marshall SM

S-M Long Wave Transformers



This transformer is so well known to experimenters as to require no introduction. Provided with an iron core, its frequency range is ideal for undistorted long wave reception and its amplification is extremely high. The operating peak falls between 40 and 65 kilocycles. Any number of transformers peaking at practically any frequency in this range may be obtained if desired.

R374 S-M 210 Intermediate Untuned Transformer \$5.10

R375 S-M 211 Tuned Filter \$5.10

R376 S-M Coupling Unit 2.12

When ordered at one time we will furnish in matched sets of any number.

Postage 16c extra.

S-M Stage Shield

In an aluminum case, 7 1/2 x 5 x 3 3/4 inches, pierced for a condenser, coil socket, tube socket, choke, by-pass condenser and lead wires. Opens at bottom, allowing easy wiring, yet top seals it tightly from outside interference. A unit that keeps you in step with the latest engineering design of individual stage shielding. Pierced for 316 and 317 Condensers. Designed to shield one stage.



R377 Each **\$1.70**

Postage 10c extra.

S-M Interchangeable Plug-in Coils

These coils may be used as a radio frequency transformer, antenna adapter, oscillator coil, three-circuit tuner or wave trap. All coils are wound on ribbed bakelite forms with standardized terminals fitted for mounting in a socket-type receptacle, covering wavelengths between 30 and 1,500 meters. Thirty to 550 meter coils are spaced wound with enameled wire, while the larger inductances are bank-wound on similar forms.

These coils are the only commercial products uniform enough today for stage compensation. Designed for use with .00035 condensers. Possessing a negligible field, they can be effectively and efficiently shielded.

TYPE III

Stator consists of single winding, with concentrated primary in slot, with adjustable rotor or

R378 30 to 75 meters. Net. \$2.12

R379 70 to 210 meters. Net. \$2.12

R380 190 to 550 meters. Net. \$2.12

R381 500 to 1500 meters. Net. 2.76

TYPE II

Stator has two equal windings with adjustable rotor.

R382 30 to 75 meters. } **\$2.12**

R383 70 to 210 meters. }

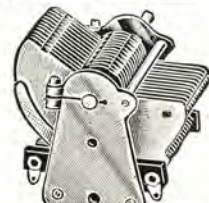
R384 190 to 550 meters. }

TYPE I

R385 Inwound bakelite form, with all hardware and rotor. Net. \$1.05

R386 S-M Type 515 socket for above coils **85c**

Postage 10c extra.



S-M Variable Condenser

Very uniform, rugged and recommended in many of the latest circuits. Brass plates riveted. Fully soldered, and electrically perfect.

R387 Type 316A—00035. **\$3.82**

R388 Type 316B—same as above with long shaft.

R389 Type 317—00014. Each

Postage 10c extra.

S-M-Short Wave Kit No. 635

The Type 635 Short Wave Receiver Kit contains the carefully designed and matched essentials for constructing a receiver with a wavelength range of 18 to 150 meters and a practically unlimited distance range.

In addition to a set of Type 117 plug-in coils, the kit includes a 515 coil socket, 340 antenna coupling condensers and a pair of 317 tuning condensers. These parts are all carefully designed for operation together, and using them a most excellent short wave receiver may be built.

Using the four coils supplied, the various amateur transmitting bands fall well to the center of the tuning condenser scale, and may be shifted as desired irrespective of normal antenna lengths.

The 635 kit built up using a pair of 220 transformers for audio amplification, thus making a three tube set, will give excellent reception of distant short-wave amateur and broadcast stations even during summer months when regular reception may be fairly poor.

Complete building instructions accompany each kit showing how several circuits may be employed to suit the individual builder.

R2580 Net price **\$19.55**

Postage 50c extra.

TYPE 117—KIT OF COILS ONLY

Set of four special coils for use with 317 (.00014 mfd.) condenser in short wave receivers (for 635 Kit). Ranges, 18 to 32, 30 to 53, 51 to 90 and 85 to 150 meters for these interchangeable sizes. Consist of grid and plate windings only for direct antenna coupling, using No. 340 condenser. Licensed under Armstrong U. S. Patent No. 1,113,149.

R397 Postage 25c extra. **\$9.35**

S-M Plug-in "B" Eliminator No. 650

Embodies the famous unichoke and filter system licensed under Clough's patent application. Fully guaranteed by manufacturer. No hum. Has two adjustable voltages as well as high tap for power tubes. Will accommodate up to 10" tube sets, including those using power tubes.

The power output of the Plug-in B is 280 volts at no load, falling to 180 volts at 50 milliamperes. This is sufficient for the proper operation of the UX112 or UX171 power tube or even UX210.

A filament lighting winding is contained in the power transformer which will light a UX171, UX112 or UX210 tube, or from four to six UX201A tubes. In addition, C voltage for a power amplifier may be obtained by the addition of a by-pass condenser and potentiometer. The addition of a variable resistance will allow operation of the filaments of five to ten UX199 tubes, as well as supplying the regular B and C potential supply.

This device is designed to use a 213 type, full wave rectifier tube. Comes completely assembled. No tube is included.

R2581 Price, less tube. **\$28.45**

R2581A Price, including tube **33.50**

Postage 90c extra.



S-M Transformers and Condenser Banks

The 220 Transformer is one of the finest ever produced. Fine tone quality at 3:1 ratio. Recommended for use with 201A or power tubes. The 221 output transformer should be used between the power tube and the loud-speaker. The Unichoke is a licensed power supply filter. Type 332 Condenser Bank is used for A, B or C filters for Eliminators.

R390 Type 220 Audio Transformer. **\$5.10**

R391 Type 221 Output Transformer, designed to keep D. C. out of speaker. **\$5.10**

R392 Type 330 Power Transformer, for use with "B" Eliminator **\$5.10**

R393 Type 331 Unichoke, only one required for Eliminator **\$5.10**

R394 Type 332 Condenser Bank, for "B" Eliminator, contains 2-1/10, 2-2, 2-1 and 1-4 mf. condensers **\$8.50**

Postage 20c extra.



Type 101-B Coupling Unit

This coupling unit consists of a bakelite stator tube carrying two 28-turn windings and an adjustable rotor carrying a single 28-turn winding. All windings terminate at six soldering lugs. Its range is 150 to 550 meters with a .0005 mf. condenser.

R395 Price, prepaid **\$2.12**

Victoreen Transformer



The distinguishing feature of the Victoreen transformers is their carefully and accurately matching. They are not merely "matched" but are accurately tuned to a guaranteed precision of one-third of one per cent. The resonance curve is sharply peaked, insuring the utmost degree of selectivity. The Victoreen transformers are made with air core construction. In no other way is it possible to sharply peak intermediate transformers. Super-heterodynes built with Victoreen transformers are free from oscillation. No howls or squeals. It is not necessary to match tubes.

For range, clarity, volume, selectivity and easy operation super-heterodynes using Victoreen transformer couplers cannot be excelled. Four No. 170 or 171 R. F. transformers and one No. 150 coupling unit are the Super-heterodyne essentials. If outside antenna is to be used, Victoreen No. 160 antenna coupler is necessary.

R159 Victoreen No. 170 R. F. transformer for 201A type tubes.....	\$6.30
R160 Victoreen No. 171 R. F. transformer for 189 type tubes.....	6.30
R161 Victoreen No. 150 coupler unit.....	4.96
R162 Victoreen No. 160 antenna coupler.....	3.15
Postage Prepaid.	

Victoreen Manganin Rheostats and Potentiometer

Fine Vernier adjustment obtainable with the new Victoreen rheostats. The resistance unit is wound with genuine Manganin wire. Has twice the number of turns as the average rheostat for the same amount of resistance. This means much finer adjustment. Has zero temperature co-efficient—no matter how warm the unit becomes the resistance remains absolutely constant. Noiseless. Three terminals wiring. Has single hole mount.



greatly simplify

R163 2 ohm.....	98c
R164 6 ohm.....	
R165 10 ohm.....	
R166 20 ohm.....	
R167 30 ohm.....	
R168 400 ohm Potentiometer.....	\$1.35
Postage Prepaid.....	

PANELS FOR VICTOREEN SUPERS

Formica panels etched and engraved. Drilled to take all the types specified.

R169 For New Victoreen.....	\$ 4.75
R170 For 1926 Victoreen.....	
Postage Prepaid.	

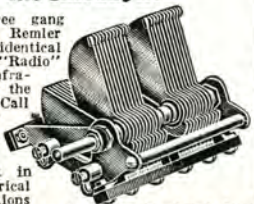
Tapped Inductance for the Infradyne



Wound in three sections with eight turns on one section and fourteen turns on each of the other two. Small and compact with extremely small field reducing possibility of interstage or stray coupling. Wound on Bakelite tubing 2" long, 1 1/2" in diameter. Winding is of No. 21 D.S.C. wire. Conforms with all of the specifications for the Infradyne. All terminals brought out to soldering lugs. Easily installed and a real quality product.

R176 Postage 3c extra.....	89c
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Continental Triple Vernier Condenser Specified for the Infradyne



Straight line frequency three gang condenser as specified for the Remler Infradyne circuit. This is the identical condenser as specified both in "Radio" for the Remler Sargen Infradyne and also as specified for the Infradyne in "Citizen's Radio Call Book." Special shaping of the rotor plates gives perfect straight line frequency characteristics. Ruggedly constructed. Mechanically correct in every detail and a perfect electrical instrument. Three .00635 sections mounted on one shaft. The stator sections are insulated from each other. Each unit is carefully and accurately matched. While specified for the Infradyne the Continental triple condenser may be used in any circuit where single control is desired.

R935 Postage 3c.....	\$7.60
R935A Blue Prints for Remler Infradyne.....	85c

Remler Transformers



Genuine Remler essentials. It is practically impossible to secure the highly efficient and world famous Remler intermediate and filter transformer. Because of foresighted purchases we are able at the present time to offer our customers genuine Remler essentials including Remler No. 600 intermediate transformers and Remler No. 610 tuned filter transformers. Accuracy and sharply matched and peaked at 45 kilocycles. Superior essentials for building the famous Remler Best super-heterodyne. This superior circuit has had the full approval of the most popular radio publications and eminent engineers. With Remler essentials it is possible to construct a powerful and efficient 8-tube super-heterodyne for loop operation on a small panel that will fit any standard size cabinet.

On our book and diagram page you will find listed the diagram of the Remler-Best super, which can easily be constructed by anyone. The diagram is non-technical and shows the position of each individual part in the circuit so that anyone can build and wire this powerful receiver.

Three intermediate transformers, one filter transformer and one oscillator coupler are the essentials required for the super-heterodyne.

R788 No. 600 intermediate transformer.....	\$4.95
R789 No. 610 tuned.....	4.25
R790 No. 620 Columbia oscillator.....	2.45

Postage 5c extra.

HFL Transformers

For the Nine-in-Line Super

The utmost degree of selectivity is obtained with the super-heterodyne using these new transformers, the product of the High Frequency Laboratories.

There is no interference from powerful local broadcasting stations possible with these units. They can be used under the towers of super power stations and they still will assure selective operation. Tremendous volume with faithful tonal quality is obtained. The weakest signals are amplified giving full loud speaker volume to the most distant stations. May be used with all types of standard tubes.

The H F L units are perfectly matched. They are small and compact and may be mounted either on baseboard, sub-panel or beneath sup-panel. Long lug terminals make possible direct to socket wiring, a distinct advantage simplifying construction and increasing over all efficiency. The units are sealed and encased in genuine Bakelite mounting.

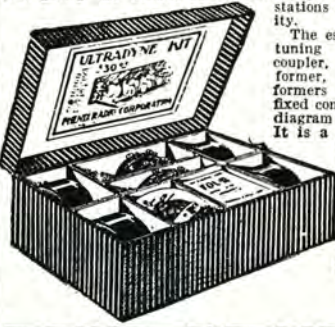
R171 H210 Intermediate transformer.....	\$6.80
R172 H215 air core tuned filter. Tuned at 7700 cycles.....	6.80
R173 F320 audio frequency transformer.....	6.80
R174 L425 radio frequency choke unit.....	4.68
R175 L430 radio frequency transformer.....	4.68

Postage 4c extra

Genuine L-2 Ultradyne Kit

For the famous Ultradyne. Genuine apparatus as specified by Lacault for the 8-tube Ultradyne circuit.

The Ultradyne using outside antenna and long wave radio frequency amplification with modulator system has gained great popularity because of its efficiency. A splendid and remarkable circuit giving the utmost in selectivity, power to bring in distant stations and perfect tone quality.



The essential kit includes one tuning coil, one oscillator coupler, one type A ultra-former, three type B ultra-formers and four matched fixed condensers. Complete with diagram and full instructions. It is a simple matter to build the powerful Ultradyne receiver using this essential kit as a basis. Postage 25c extra.

R2572

\$25.85

Genuine Two Tone Walnut Cabinet for the Infradyne

Beautiful durable 7x28 cabinet 10" deep just the size for the infradyne receiver.

Finely finished genuine walnut. Brown walnut with dark walnut panels and trimming giving a beautiful two tone effect. Hand rubbed. Beautifully finished. This genuine walnut cabinet is illustrated on our page of quality cabinets.

R2811 Shipping weight, 22 lbs.....	\$8.85
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New Karas Equamatic Kit

Featured by Radio Broadcast and Citizen's Radio Call Book

AN ENTIRELY new circuit. A new and efficient oscillation control method perfected by Karas engineers. The control of oscillation is entirely automatic. There is no squealing or howling or necessity for additional adjustment to suppress these unpleasant causes of distortion. Results are amazing. Reproduction is clear and distinct. The received signals are powerful and intensive. Circuit is sensitive and

exceptionally selective. The efficiency of this circuit is due fundamentally to an entirely new manner of automatically varying the coupling between primaries and secondaries of the radio frequency couplers as the frequency is changed.

Equal in results to many 6- and 8-tube receivers. This is Radio Equamatic's feature circuit for 1927.



- 3—Karas Equamatic R. F. Transformers.
- 3—Karas Orthometric .00037 Extended Shaft Condensers.
- 3—Karas Micrometric Vernier Dials.
- 2—Karas Harmonik Audio Transformers.
- 2—Karas Equamatic Retard Coils.
- 3—Karas Sub-Panel Brackets, Set.

- 1—7x28 Bakelite Panel, Drilled and Engraved.
- 1—Fornica Drilled Sub-Panel.
- 1—Carter 10-ohm Rheostat with Knob.
- 1—Carter 20-ohm Rheostat with Knob.
- 1—Carter Double Circuit Jack.
- 1—Carter Imp. Filament Switch.
- 1—Sangamo .00025 Grid Condenser with Clips.

Remarkably easy to build. Furnished with complete instructions and diagram. The Karas Equamatic will amaze you with its simple control, quiet and powerful operation. Employs the famous King Equamatic System.

R2508

\$89⁵⁰

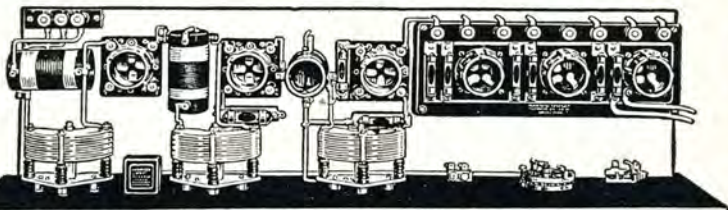
TRANSPORTATION
PREPAID

- 1—Carter Open Circuit Jack.
- 1—Amco 2 meg. Grid Gate.
- 2—No. 1-A Amperies.
- 1—4½-volt "C" Battery.
- 1—Jones Multiplug with Mounting and 8-ft. Cable.
- 5—Benjamin UX Cushion Sockets, Binding Posts, Screws, Bus Wire, Soldering Lugs, Spaghetti.

Daven Bass Note Circuit

The remarkable bass note circuit, designed in the Daven laboratories for quality reproduction. Insures perfect tone quality when properly constructed and used with a cone or other quality speaker.

Contains the genuine Daven radio frequency coils and Daven super-amplifier kit. Easily constructed by anyone. The Daven bass note circuit is a laboratory product of special note. It is powerful, sensitive and selective. Has distance qualities which are unsurpassed, yet its tone is perfect. If you are desirous of obtaining a radio set which will amplify without distortion truly and perfectly, the Daven bass note circuit is the ultimate. Complete set of parts with 7x18 drilled and engraved panel. With complete instructions. Easy to build. Simple to operate.

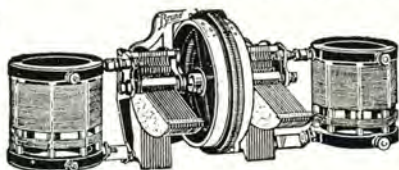


R2560

TRANSPORTATION
PREPAID

\$55²⁵

Bruno Unitune



The new Bruno Unitunes are probably the most efficient instruments ever devised for the convenience of the amateur set builder and experimenter. The basic unit is a double condenser consisting of two .0005 mfd. Bakelite shaft straight line frequency condensers mounted on an aluminum plate but entirely insulated from each other electrically. Adjustment is provided through the medium of a pair of molded Bakelite drums whose milled edges and graduated scales protrude through the front surface of the panel. The two drums can be operated individually or can be locked loosely together by means of slip bolts so that the two condensers are never more than ten degrees different setting. No Vernier or compensating condensers of any sort are necessary.

All models mount to the back of the panel by means of only two screws, which also hold the bronze plates. Special bronze mounting screws are supplied.

An efficient localized control unit, which is beautiful in appearance.

- R978 Unitune 2 C. consists of 2 Bruno .0005 S. L. F. condensers mounted on aluminum frame with bronze panel plate and two drums with scale. Without coils. Postage 20c extra. **\$ 8.25**
- R979 Unitune R. F., same as 2 C., but with 2 Bruno low-loss R. F. couplers mounted as illustrated. Postage 30c extra. **12.75**
- R980 Same as model R. F., except has one Bruno 3-circuit tuner and one R. F. coupler. Postage 30c extra. **14.95**
- R981 Unitune B. D. consists of basic unit as shown, but the coils are specially wound for Browning Drake circuit. Postage 30c extra. **15.75**
- R982 Frame, panel plate and drums only, without condensers or other essentials. Postage 12c extra. **2.62**

The Latest All-Purpose QUALITY TUBES

R. C. A. and Cunningham Tubes

Including All the Latest Power Tubes



UX-201A or CX-301A
R2701 Amplifier - detector.
Requires 5 volts, 7/4 ampere.
Requires 10-ohm rheostat with
6-volt battery. Used as radio
or audio amplifiers and detec-
tors. Fits all standard and
new X-sockets. **\$1.58**
Postage 8c extra.

UV-199, C-299, CX-299,
UX-199 Dry Cell Tubes

Used with dry batteries. Less volume
than the 301A tubes but clearer. Requires
.06 ampere at 3 volts. Three dry cells used.
Detectors or amplifiers. The CX or UX
tubes will fit X-type or standard sockets.

The UV or C-type only will
fit only type 199 small sockets.

R2702—C-299 or UV-199
R2703—CX-299 or UX-199
Postage 8c
extra **\$1.72**



CX-12 Dry Cell Tubes

R2704 Detector or amplifier.
Uses 1.1 volts. 22½ to 45 volts
and 90 volts for
amplifier **\$1.88**
Postage 8c extra.

UX-120 or CX-220

R2705 Power amplifier tube for dry
battery set. For last audio stage. Re-
quires 135-volt "B" battery and 22½-
volt grid bias. Operates at 3 volts, .125
amperes. Uses X-type or universal
socket. **\$1.88**
Postage 8c extra.



UX-200A or 300A

R2706 The best detector tube. Just out.
Storage battery, 6-volt. Very sensitive and the
best type of detector made. **\$3.95**
Postage 8c extra.

UX-112 or CX-112

R2707 A power tube using 135 to 157 volts
"B" battery. Used in first or second audio
stage. Tremendous volume. **\$5.15**
Postage 8c extra.

UX-171 or CX-371

R2708 The latest power tube
used in some sets of power am-
plifier. Used in last audio stage.
Enormous input easily handled.
Requires 90 to 180 volts "B," 25
to 40 volts "C." **\$4.85**
Postage 8c extra.



UX-210 or CX-310

R2709 Requires 6 to 8-volt
filament. Last stage audio ampli-
fier or power amplifier. 200 to 425
volts "B" battery. **\$7.78**
Postage 8c extra.

All type X tubes will fit standard sockets. X-199 or 299 and X-120 or 220 require UX
adapters if they are to be used in old-type standard sockets. All tubes are laboratory tested
for filament emission, oscillation and plate impedance. We send you the best tubes. Tested
tubes are not returnable.

Hylon Tubes



Efficient, high quality tubes that equal the
standard of the best.

The Hylon tube is a quality product. It is
manufactured for us under contract and tested
under conditions which warrant your receiving a
tube worth a great deal more than the price we
ask for it.

Has thoriated filament and may be rejuvenated.
Molded bakelite base with type X long prongs
and ruggedly supported elements. Long life un-
der normal conditions. Each tube fully and in-
dividually tested.

Perfect tone and quiet operation are obtained
with these finely constructed tubes. May be used
in any receiver.

R2710 Type X-201A, 5-volt Detector
and Amplifier)

R2711A Type V-199, Detector and
Amplifier for old style UV-199 socket....)

R2711 Type X-199, Detector and Am-
plifier for all standard UX sockets.....)

Postage 8c extra.

85c

Quietron Tube Cap

A metal cap
that will fit all
standard or X-
201A, 200 and
112 type tubes.
Reduces howling
caused by
vibration. Effec-
tively muffles
tube vibration
which is the cause of 80% of
the howling in radio receivers.
Does the work of a shock ab-
sorbing socket.



Use a Quietron cap for
every tube in your radio re-
ceiver and obtain better per-
formances with less noise than
heretofore.

R1778

Postage 3c extra.

37c

The Latest All-Purpose QUALITY TUBES

Knight Tubes Better Than the BEST

Knight tubes selected by us for their superiority after testing all of the tubes on the market. We recommend the Knight tubes as far better than the standards set by all other tube manufacturers.

We know that the Knight tubes will satisfy you. These tubes have specially constructed filaments and can be rejuvenated. The amplification factor of these tubes is greater than the amplification factor of the selected tubes on the market. These tubes are quality products. Bakelite X type bases with milled prongs. The plate, grid and filament elements are doubly supported.

Power Tubes

Many power tubes on the market are power tubes in name only. Few manufacturers can build efficient power tubes.

The Knight power tubes have actual power tube characteristics. They are the genuine, manufactured rto, stand heavy voltages and deliver enormous output.

R2716A X200A, new Detector Tube **\$3.25**
R2716A X-12-1½-volt. Each **\$1.39**
Postage 8c extra.



R2717 X112, 5-volt power tube. Postage 8c extra **\$3.65**

Power Tubes

R2718 X171, the new 5-volt power tube. Postage 8c extra **\$3.45**

Matched Tubes in Sets

R2719 Six matched X201A tubes **\$6.40**
R2720 Eight matched X201A tubes **\$8.70**

R2721 Six matched X199 tubes **\$7.24**
R2722 Eight matched X199 tubes **\$9.37**



Our Testing Facilities

At great expense we have incorporated a system of testing all tubes under actual operating conditions. The average tube testing is done under a method known as "static conditions."

Each Knight tube is tested under actual operating conditions in such a manner that the full worth of the tube may be predetermined. We ship no tubes that are not fully tested. This protects you and your customer. It requires many times as much time to test tubes in this manner as it does by the usual method, which is decidedly unsatisfactory in comparison to the care that we exercise.

R2712 X201A, 5-volt Detector and Amplifier **\$1.10**

R2714 199, 3-v. Detector and Amplifier for old-style UV-199 socket **\$1.29**

R2715 X199, 3-v. Detector and Amplifier **\$1.29**

R2716 X120, 3-v. power tube **\$1.49**

All tubes, postage 8c extra.



Sonatron Amplifier

Resistance coupling for tone quality. A complete amplifier unit with tubes. Add a Sonatron Amplifier to any old receiver and greatly improve the tone quality. Easily and quickly connected to any receiver. Modernizes any set. Sold complete with Sonatron HI-MU tubes. Equipped with one HI-MU 30, one HI-MU 20 and one HI-MU 6 for storage battery, or one HI-MU 29, one HI-MU 19 and one HI-MU 3 for dry cells. Specify which is desired. Furnished complete ready for operation, including tubes.

R783 With 6-volt tubes.
R784 With 3-volt tubes.
Postage 15c extra.

\$1495

HI-MU Tubes for Resistance Coupled Amplifiers

HI-MU tubes specified for all resistance amplifiers. Better results and greater amplification without distortion is obtained with them. MX20 is for the first and second stage, while MX6 is a power tube for use in the last stage. This is real quality high amplification tube, well worth much more than it lists for.

R2724A Set of three matched resistance coupled tubes, 2—MX20 and 1—MX6. Postage 12c extra **\$8.85**



New Raytheon Tubes

The tube that made possible the perfection of B battery eliminators. The Raytheon tube has no filament to burn out. With average use it will last for years. Will supply heavy current, enough for all power tubes if used with the proper size transformer and choke coils. Full wave rectifier. This is the new Raytheon tube.

R2723 Postage 8c extra **\$4.95**
R2723A New B-II Raytheon Tube delivers about one-third more voltage in regular Raytheon Eliminator **\$4.95**

Daven HI-MU Tubes

The genuine Daven tubes. Should be used in Daven amplifiers or any other resistance coupler amplifiers. MU20 is for the first or second stage. MU6 is the power tube for the last audio stage. These are power tubes of fine quality and with X bases.

R2726 MU20 **\$3.40**
R2727 MU6. Postage prepaid. **\$4.67**



BURGESS BATTERIES



Burgess batteries are known the world over for their efficiency. Nationally advertised. Unusually long life. These batteries are absolutely dependable. You can rely upon their giving splendid service over months of use. Each battery individually tested. Stocks always fresh.

No.	Type	Fac. No.	Size	Price
R1620	2 1/2-volt, B small, flat.....	4156	3 1/2 x 2 x 2 1/2	\$1.27
	Shipping weight 1 lb.			
R1621	2 1/2-volt, B medium, flat.....	5156	4 1/2 x 2 1/2 x 2 1/2	1.48
	Shipping weight 2 lbs.			
R1622	2 1/2-volt, B large, flat.....	2156	6 1/2 x 4 x 3	1.70
	Shipping weight 5 lbs.			
R1623	2 1/2-volt, B small, upright.....	5158	2 1/2 x 2 1/2 x 6	1.48
	Shipping weight 2 lbs.			
R1624	2 1/2-volt, B large, upright.....	2158	4 1/2 x 3 1/2 x 7	1.70
	Shipping weight 5 1/2 lbs.			
R1625	45-volt, B large, flat.....	2306	7 3/4 x 6 1/2 x 3	3.40
	Shipping weight 10 lbs.			
R1626	45-volt, B battery, large.....	2308	3 1/2 x 8 1/2 x 7	3.40
	Shipping weight 10 lbs.			
R1627	45-v., B heavy duty upright.....	10308	8 1/4 x 1 1/2 x 7 1/4	4.67
	Shipping weight 15 lbs.			
R1628	4 1/2-volt, C small, plain.....	5360	2 1/2 x 3 1/2 x 2 1/2	.36
	Shipping weight 1/2 lb.			
R1629	4 1/2-volt, C large, tapped.....	2370	4 x 1 1/2 x 3	.51
	Shipping weight 1 lb.			
R1630	7 1/2-volt, C medium, tapped.....	5540	4 x 7 x 2 1/2	.72
	Shipping weight 1/2 lb.			
R1631	1 1/2-volt, dry cell A.....	6A	2 1/2 x 6	.42
	Shipping weight 2 1/2 lbs.			
	Transportation extra.			

Reliance "A" Battery

R1613 Our enormous distribution on batteries enables us to buy these in large lots at a saving.

We pass this reduction on to you, offering high-grade dry cell batteries at a remarkably low price. Used for dry cell tubes. 1 1/2 volts each high test. Stock always fresh. List price 60c.

Price each.....
Weight 2 1/2 lbs.

31c



Belden Fused Battery Cord

Five-wire color-coated battery cord, 6 ft. long, with fuse that prevents tube burnouts. Eliminates fire hazards from crossed wires. Tinned ends for soldering or easy installation. A quality product. It is a popular battery cord. Your set deserves the best.

R1696A **\$1.69**
Postage 4c extra.



"B" Battery Meter

Test your "B" batteries with this special "B" battery tester. Know their condition and when they are in good shape. Our special recommendation. Combination also tests 1 1/2-volt "A" batteries. Tests all "B" batteries.

R1903 0-50 Volts..... **\$0.62**
R1904 Combination Voltammeter 0 to 35 Amps. and 0 to 50 Volts..... **1.29**
Postage 5c extra.



EVEREADY "B" BATTERIES

Nationally known Eveready batteries. Long life, quiet operation. Quality "B" batteries. Always fresh stocks. Eveready No. 767 or No. 772 recommended for sets having less than five tubes. For five-tube sets or larger Eveready No. 770, heavy duty, or No. 486 layer built should be used. Use proper size batteries with your receiver and reduce battery expense 50 percent. Much so-called static is actually caused by poor, run-down, noisy "B" batteries. Eliminate noises in your radio receiver by using good batteries having long life and low resistance.



Stock No.	Fac. No.	Type	Weight, lbs.	Price
R1601	763	2 1/2-volt, small, flat.....	1 1/2	\$1.27
R1602	768	2 1/2-volt, medium, flat.....	2	1.48
R1603	766	2 1/2-volt, large, flat, tapped	5	1.70
R1604	764	2 1/2-volt, upright.....	5	1.48
R1605	767	45-volt, large, flat, tapped.	9	3.18
R1606	772	45-volt, large, upright.....	9	3.18
R1607	770	45-volt, heavy duty, upright	11	3.95
R1608	486	45-volt, heavy duty, "Layer Built," upright.....	14	4.67
R1609	771	4 1/2-volt, "C," tapped.....	1	.51
R1610	773	7 1/2-volt, "C," tapped.....	1 1/2	.72

Transportation charges extra.

Dusie Battery Clip

Large A or B battery clip. Has screw terminals. Makes perfect contact. Easily and quickly disconnected. Non-corrosive.

R1906A Extra large, 2 for... **39c**
R1906 Medium size, each. **12c**
Postage 2c extra.



B Battery Clip

Small B battery clip. Spring clip. Makes perfect contact. Easily and quickly disconnected.

R1905A 6 for..... **30c**
Postage 2c extra.



Jones Cable Lug

4 ft. five-wire battery cable, color-coded and rubber-covered. One terminal of each cord is held in a common container, which is adaptable for baseboard mounting. Tinned ends of the cord protrude from the container for easy soldering. A perfect battery cable.

R1697A **84c**
Postage 5c extra.



Connecting Clips

For connecting leads to B batteries, binding posts, or for coming in on different parts of the circuit for testing purposes. Used wherever a method for quick and simple connections are needed.

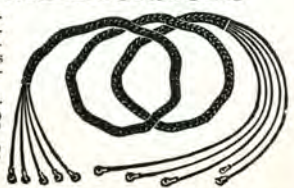
R1905B Nickel finish, 6 for..... **30c**
R1905C Midget, 6 for..... **30c**
R1905D Lead covered for storage battery connection, 6 for (Postage 3c extra)..... **30c**



Columbia Multicolored

R1654 A 5-wire battery cable. Each wire color-coded. Makes quick hook-up possible. Code colors prevent mistakes and burning out of tubes.

Stripped and soldered. Heavily insulated **39c**
R1654A 7-wire **58c**
Postage 5c extra.





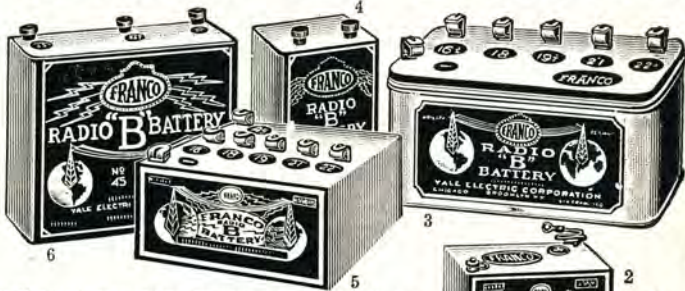
Franco "B" Batteries

Long life, nationally advertised "B" batteries. Guaranteed service has been the by-word of Franco "B" batteries for years. Large, full sized and long life. Do not confuse these Franco "B" batteries at the low price quoted with unknown, of brand batteries. Franco batteries give real service.

These batteries are fresh. They give longer life, clearer and better reception and more volume for your set. Good batteries eliminate noises often found when poor grade batteries are used.

Thousands of these Franco batteries are sold by us. No possible chance for old, shelt worn batteries. We receive carload shipments each week. You always get new, fresh batteries. Our prices are lower on these quality batteries than most of the "special brand" poorer quality. Compare our prices!

Stock No.	Type	Price
R1614	45-volt B, large flat; size 8x6 $\frac{1}{2}$ x3. Similar to cut No. 5; tapped 16 $\frac{1}{2}$ volts to 22 $\frac{1}{2}$ volts. Shipping weight 10 lbs.....	\$2.48
R1617	45-volt B, large, heavy duty upright for multi-tube sets. Size 8 $\frac{1}{2}$ x1 $\frac{1}{2}$ x7 $\frac{1}{2}$. Like No. 6 but much larger. Tapped at 22 $\frac{1}{2}$ volts. Shipping weight 13 lbs.....	3.38
R1615	45-volt large upright. Size 3 $\frac{1}{2}$ x7 $\frac{1}{2}$ x8 $\frac{1}{2}$. Like cut No. 6. Tapped at 22 $\frac{1}{2}$ volts. Shipping weight 10 lbs.....	2.48
R1618	22 $\frac{1}{2}$ -volt B, large flat. Size 6 $\frac{1}{2}$ x4x3. Like cut No. 3. Tapped 16 $\frac{1}{2}$ volts to 22 $\frac{1}{2}$ volts. Shipping weight 6 lbs.....	1.19
R1612	22 $\frac{1}{2}$ -volt B battery, upright. Size 3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x6" high. Like cut No. 4. Large cells, compact size. Shipping weight 6 lbs.....	1.19
R1611	22 $\frac{1}{2}$ -volt medium flat. Size 3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3. Like cut No. 2, also used as "C" battery for power tube X120 or X171. Shipping weight 2 lbs.....	1.20
R1616	22 $\frac{1}{2}$ -volt, small. Size 3 $\frac{1}{2}$ x2 $\frac{1}{2}$ x3. Like cut No. 1, for portable receivers or "C" battery for power tube X120 or X171. Shipping weight 1 $\frac{1}{2}$ lbs.....	.98
R1619	4 $\frac{1}{2}$ -volt "C". Size 4x3 $\frac{1}{2}$ x1 $\frac{1}{2}$. Like cut No. 7. Tapped -3 and -4 $\frac{1}{2}$. Spring clips.....	.37



TRANSPORTATION CHARGES EXTRA ON BATTERIES.

SELECTED SPECIALS

Phone Tip Jacks



Tip jacks are in general use. Eliminates the necessity of large jacks, accommodates all phone tips. Well made, heavily nickeled, and neat appearing. Has phosphor bronze spring contact. Well made.

For $\frac{1}{4}$ " or $\frac{3}{16}$ " panel.
R514 Net. per Pair
Postage 2c extra per pr.

15c

Space Wound Coils



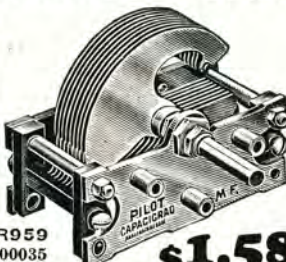
Set of Three

PRICE

2.89

R353 Low-loss space-wound coils in general use. Highest form of low-loss inductances. Superior coils. Can be used in any radio frequency circuit with .00035 condensers. High inductive value. Low losses increase selectivity. Postage 10c extra per set.

Modified S. L. F.



R959 .00035

\$1.58

The new modified straight-line frequency condenser. Equal separation over the entire wave length. Separation of stations on the lower wave lengths without crowding on the higher wave lengths.

LOWEST LOSSES

Scientifically constructed. Fully insulated. Losses eliminated. Single-hole mounting or three-hole mounting if desired. A quality product. Postage 3c extra.

R960 .0005 **\$1.78**
R961 .00017 **\$1.39**

Panel Brackets



R1777
Per Pair **35c**

For mounting panel and sub-panel. Exceptional offer of quality brackets. Nickeled brass. For use in the construction of any receiving set. A big special at our remarkably low price. Postage 3c extra.

Elkay Equalizer



Automatic filament control. Dispenses with rheostats entirely. Automatically controls the filament of any tube at the proper temperature. Allows for every possible combination of tubes desired in any circuit.

A filament ballast specified by many authorities for leading circuits. Controls any type of tube from 6-volt battery source. All for use with 6-volt battery.

R680 for 1-201A tube
R681 for 3-201A tubes
R682 for 1-112 tube
R683 for 1-199 tube
R684 for 2-199 tubes
Postage 3c extra.

62c

Brach-Stat



79c

Automatic filament control. Eliminates rheostats. Can be used to control one or more tubes from 6-volt battery source. Highly recommended for the latest circuits.

No. Code
R685 B1 for 1-201A or 1 200A tube
R686 B2 for 2-201A or 1-112 or 1-171 tube
R687 B3 for 3-201A tubes
R688 B4 for 4-201A or 2-112 or 2-171 tubes
R689 B5 for 5-201A tubes
List Price, each, \$1.00 with mounting. **79c**
Postage 3c extra.



Vernier Dial

Clock-wise and Counter Clock-wise
54c

R1338 Our Big Special in Vernier Dial. Has 15 to 1 reduction. Beautifully etched brass. Easy to mount. No holes to drill. Easy to replace old dials on any receiver. \$1.50 value at our special price. State which desired. Postage 5c extra.

The Choice of FINE SPEAKERS

Amplion Speaker

The world's standard. Conceded the finest of all loud speakers. When you buy Amplion, you buy the best there is. Finer tone quality is not obtainable from any speaker. The Amplion leads the field. Heavy metal throat crackle finish. Polished wood mahogany flare. Tremendous volume.

R2332A With metal flare. Postage prepaid **\$12.00**

R2332 Hard wood. Postage Prepaid.... **\$27.50**

R2333 Hard rubber flare. Postage Prepaid.... **\$42.50**



Utah Book Speaker



The new Utah Book Speaker is creating a sensation. Made of parchment, beautifully illustrated. Appears as an open book. All know the remarkable tone qualities of the Utah Speakers. The Book Speaker is offered at a popular price.

R2338 **\$17.10**
Postage 30c extra.

Victor

This new Victor De Luxe speaker is Victor's latest model. Reproduces high and low notes with equal clarity and no distortion. Tremendous volume. Faithful reproduction. The biggest bargain of the year.

Beautiful tone quality

The tone quality of the Victor De-Luxe speakers is beyond peer. Its exquisite rendition of the most beautiful concerts unquestionably puts it in a class by itself. It is beautifully finished in mahogany. Die cast crackle finish throat and high finish mahogany bell. Complete with adjustable unit and 5 ft. cord.



De Luxe

Adjustable Unit

Large, resonant and vivid reproduction. It is a real speaker sold to you at an extraordinary bargain. Take advantage of our offer on this speaker immediately.

No. R2334

Regular Model

No. R2335

Extra Large Model

\$6⁹⁵ **\$9⁸⁵**

Postage, 20c extra

Burns Speakers

The Burns speaker with its concert unit has gained wide popularity. It is a splendid reproducer. A beautiful quality tone speaker with tremendous volume. These are high-priced speakers offered to you at exceptional prices.

R2336 With black Puralin flare. Postage, 30c extra..... **\$17.95**

R2337 With mahogany tinted flare. Postage, 30c extra. **\$18.95**



Baldwin Concert Speaker

The new large Baldwin speaker. This is the largest Baldwin speaker. Equipped with latest design Baldwin Unit. Formerly \$35.00 list. It is nationally known for its efficiency, volume and perfect reproduction. Tone quality, volume and wonderful quality reproduction. A real price.

R2339 **\$19²⁵**
Postage, 30c extra



SPEAKERS & HEADPHONES

Free Edge Cone Speaker

Wonderful Tone Quality

Perfect reproduction is obtained with this new Cone speaker. The full resounding basses of the organ, the high trebles of the flute and violin are faithfully and distinctly reproduced. No sacrifice of either end of the musical scale is made. Used with any receiver it will improve the set's tone quality.

Tremendous Volume

The volume obtained with the free edge Cone is as great as any of the fine horn type speakers. Reproduction is more realistic than obtained from any of the horn speakers.

The full timbre of the symphony with the shading overtones that distinguish good music is reproduced with amazing volume by this wonderful Cone speaker.

Large Diaphragm Cone

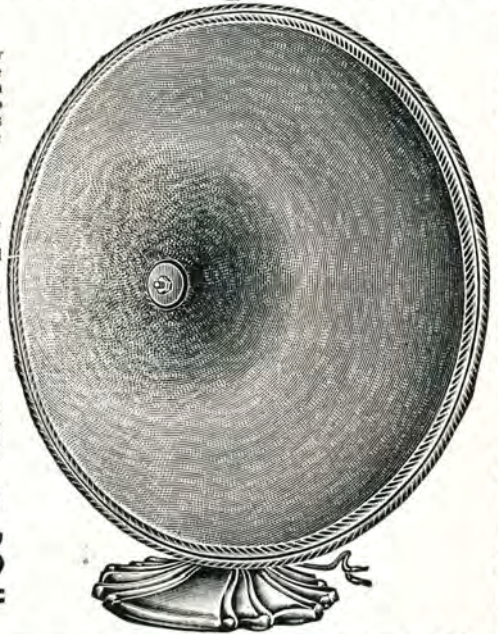
14 1/2" Cone. A splendid, large, adjustable unit actuates the diaphragm. The method of coupling the unit and diaphragm is distinctive and is a feature not found in any other cone speaker. The base is metal finely finished.

The price at which we offer the free edge cone cannot indicate its value. It must be heard to be fully appreciated. Anyone can buy a fine cone speaker at his low price. Worth \$15.00 and more.

R2331

Postage 30c extra.

\$ 4⁸⁵



American Bell Quality HEADPHONES



\$ 1⁴⁸

Splendid headphones of laboratory standard. High resistance, super sensitive. Moulded caps, aluminum and moulded shells. Adjustable. Reproduces with fine tone. A high priced headphone at a remarkable reduction. Our special offer and recommendation. With 5 foot cord.

These headphones are matched and of good quality. Other brands are being sold at twice the price and are of no better quality. They will please you.

R1769 2,000 ohms.

\$ 1⁴⁸

Postage 10c extra.

R1770 3,000 ohms.

\$ 1⁶⁹

Postage 10c extra.

Genuine Nathaniel Baldwin Headphones

Unsurpassed quality. Genuine Baldwin products are nationally known. Extremely sensitive. Mica balanced diaphragm. A fine headset of quality.



R1771 Postage 8c extra **\$7.68**

Brandes Matched Tone Headsets

Standard Brandes phones. High quality. Extremely sensitive. These phones are known the world over for their performance. Will retain their efficiency indefinitely.



R1772 Postage 8c extra **\$3.69**

Frost Phones

High quality headsets at remarkably low prices. Extremely sensitive and durable.

Postage 8c extra.

R1774 2,000 ohms. **\$2.25**

R1775 3,000 ohms. **2.69**

Aluminum Shells... **4.65**

R1776 3,200 ohms. **4.65**



The Latest in CONE SPEAKERS

Timmons Cone



Reproduces the entire musical scale—the low and high notes and overtones. Does not sacrifice the high notes but reproduces all naturally. Full volume obtained. Large 17 in. cone. Distinctively mounted. A real big seller.

No. R2346

Postage 20c extra.

\$ 25⁵⁰

Acme Double Free Edge Cone



The popular Double Free Edge Cone has been greatly improved. The new metal case is beautifully finished. Two 14" cones actuated by a single unit. This gives large radiating surface and enormous volume with perfect reproduction. The lowest notes in the musical scale are reproduced with clarity and perfection. The overtones are also faithfully heard.

No. R2345

\$ 22⁵⁰

Postage Prepaid.

WESTERN ELECTRIC CONE SPEAKERS



One of the original cone speakers. Genuine Western Electric product. Incomparable quality. Known and conceded as the ultimate of loudspeaker development.

The Western Electric cones so vividly reproduce with perfection and fidelity that the world's artists seem to perform in your own home. True and lifelike. While many cone speakers have been developed to faithfully reproduce the lower portion of the musical scale which has heretofore been sacrificed, the Western Electric cone perfectly reproduces the upper range of the musical scale as well as the lower. The entire symphony ensemble is heard as no other speaker can reproduce it.

Neither the basses nor the trebles are sacrificed to any extent. All are brought out with lifelike reality and perfect resonance.

Superior Speakers — Mellow Reproduction

Proof of the wonderful performance of the Western Electric cones is found in the perfect rendition of the crescendo, of the symphony, and the fine shading of the overtones of the violin and the bass viol. These shadings and overtones really are the factors that distinguish good music from the more mediocre type and usually they are hopelessly lost in the average loudspeaker.

The Western Electric cone speaker No. 548-AW, illustrated with pedestal, is a new and unique loudspeaker development. The diaphragm is 36" in diameter. It is large enough to carry without distortion any enormous value of amplification obtained from a power amplifier. It will not blast, and deliver in its reproduction of the entire musical scale is truly remarkable.

Both type cone speakers are beautiful in appearance. Finely finished and strikingly decorated. Will grace and add to the charms of the finest home.

Western Electric speakers need not be placed in so-called advantageous positions for best results. They will fill the room with music regardless of how they are placed.

R2350 Western Electric cone type 548-AW. Diameter, 18"; height, 21". Shipping weight 16 lbs.

Beautiful bronze base with bronze colored cone **\$32⁰⁰**

R2351 Western Electric cone type 548-AW. Diameter, 36". Pedestal type stands 49" high.... **\$87⁰⁰**

R2352 No. 548-AW wall type. 36" diaphragm. May be hung on the wall or from molding **\$71⁵⁰**

All Shipped Prepaid.



Acme Single Free Edge Cone

A new development of the Acme Apparatus Co. The faithful reproduction of the Double Free Edge Cone, which has gained so much popularity, is obtained with this new popular price cone speaker.

No sacrifice of volume. Faithful reproduction of the entire musical scale. Will handle the output of any power amplifier. Metal case and base. Beautifully finished in green bronze. Tremendous volume. Good quality tone.

No. R2341

Postage 30c extra.

\$ 16⁶⁵



Thorola Cone

The new double diaphragm cone. The two diaphragms enable the new Thorola Cone to cover the entire musical scale without sacrificing either the high or low ends. This makes possible faithful reproduction of any instrument, orchestra or symphony.

Beautifully finished in rich walnut and gold.

No. R2340

Postage 40c extra.

\$ 19⁶⁰



Speaker Bargains

Spartan Disc Speaker



Equipped with Spartan semi-balanced armature disc unit, the mellowness and timbre of the finest orchestra renditions are effectively brought out.

Naturally reproduces with full volume the performance of all musical instruments singly or in symphony.

Beautiful in appearance. Artistically designed frame and rubbed ebony base. Will improve the tone quality of any receiver. Graceful, beautiful and distinctive. A quality speaker of unusual value.

R2347
Postage 30c extra **\$9.95**

All American Lorel Cone New All American Lorel Cadinet Cone Reproducer

Equipped with sound board so that the combined advantages of both the cone and horn type speakers will be obtained. Reproduces the delicate overtones, high trebles and low basses in a realistic manner.

Beautifully finished cabinet. Unique in design. The sound board in the tone chamber gives a depth to reproduction not usually found in any speaker, either of the horn or cone type.

R2328
Postage Prepaid **\$22.50**



The Town Crier Loud Speaker

The speaker is heavily cast and beautiful in appearance. It is designed in such a manner that it will not crack or tip. Beautifully finished in green and gold polychrome with stippled surface.

The exceptionally heavy molding positively eliminates all vibration, insuring perfection of reproduction without horn distortion. So solid and substantial that it positively cannot vibrate, even with enormous volume.

Full throated with large bell having superior acoustic properties. Reproduces perfectly with vivid realism.

Equipped with fine unit of the balanced armature type, which will deliver full volume without blasting. Does not distort or sacrifice the lower register of the musical scale or the overtones. A remarkable speaker that will beautify any home. Regularly sells for \$17.50. Our special offer.

R2325 **\$4.95**
Postage 40c extra



Thorola Loud Speaker

The new Thorola speakers employ the latest type of Thorola adjustable unit. Delivers full volume without sacrifice of quality of reproduction. The low and high notes and the overtones are perfectly reproduced. Thorola speakers are nationally known for their efficiency. Your set deserves a good loud speaker. Unusually efficient. A perfect reproducer. Full throated with large bell.

R2326
R2327 Large Size
Postage 20c extra **\$14.50** **24.50**



Utah Standard Speaker

Utah speakers are nationally famous because of their splendid performance. Classed with the finest of speakers. The extra large Utah unit of the balanced armature type included with this speaker is responsible for the vivid reproduction of low notes, trebles and overtones.

The unit is so designed that it will not blast and will carry enormous volume. May be used with power tubes and power amplifier without danger. The remarkable performance of Utah speakers is nationally known. The finest of loud speakers. Large standard model.

R2329
Postage 5c extra **\$19.95**



The Gradeon is a new and remarkable instrument. With it you can obtain power amplification of your phonograph records through your radio. This is the same method of reproduction that is used in the new, nationally known electrical phonographs.

Attach the Gradeon to the tone arm of your phonograph, connect it to your radio receiver and it will carry the sound impulses from the phonograph record through the audio tubes of your radio set, amplifying them electrically and reproducing them through your own radio loud speaker.

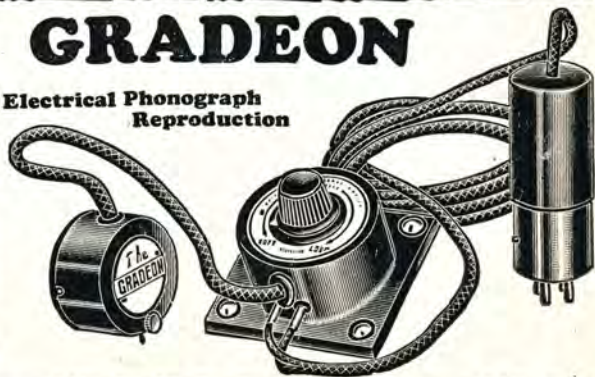
Greatly increases the volume obtainable from any phonograph record and reproduces all of the fine tone and shading that is usually lost with phonograph reproduction.

You actually run your own broadcasting station, pick out the tunes you desire to play and have just the music that you want on tap always. No matter how satisfactory your present phonograph may be or how splendid, efficient and interesting your radio, you will have a new instrument, superior to both by combining your phonograph and radio receiver with the Gradeon.

R2350F **\$17.50**
Postage Prepaid

GRADEON

Electrical Phonograph Reproduction



Loud Speaker Units

Burns Adjustable Unit



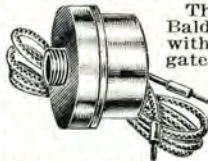
Famous for its faithful reproduction of the entire musical scale. Made by the American Electric Company, the manufacturers of the popular Burns Speaker. Adjustable for volume and clarity, finest possible tone quality obtainable. Standard and nationally known. A special offer. You cannot obtain a unit of anywhere near this quality for the price we offer it.

R1766

\$7.45

Postage 10c extra.

Baldwin Units



The famous Baldwin Unit with the corrugated balanced diaphragm. Baldwin units and units of the Baldwin type faithfully reproduce over the entire musical scale. They will carry more volume than the ordinary type unit without blasting. New Rival Model with extra large diaphragm, large magnet and windings.

R1756A Type C Unit..... **\$4.89**

R1756 Type H-2, completely shielded..... **6.95**

R1757 Type H-1, unshielded..... **4.79**

R1758 Rival model, unshielded..... **6.95**

Postage 10c extra.

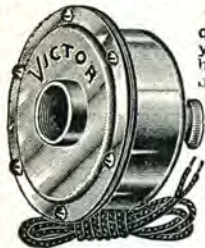
Balanced Armature Unit



The National known Saal balanced diaphragm unit. Licensed Baldwin type unit with corrugated diaphragm. One of the finest units that is manufactured. Small and compact, it delivers full volume without blasting. Balanced diaphragm units are famed for their superiority. Small enough to fit any loud speaker—good enough for the finest receivers. A high priced quality unit offered at a special reduction. A tremendous value.

R1751 Postage 10c extra. **\$2.95**

Victor Adjustable Unit



The Victor unit has been manufactured for quality speakers. We are able to offer it to you at a remarkably low price. The price, however, does not indicate its value, for it has been made to retail for \$10.00 and it is worth that and more. The adjustable feature permits variation for tone clarity. An adjustable unit enables one to fit the loud speaker to the receiver. The unit is very sensitive and will deliver full volume without distortion.

R1752 Postage 5c extra. **\$1.95**
Your Special Price.....

Utah Unit

The extra large Utah unit the same as used in the renowned Utah speakers. The diaphragm is corrugated and balanced and the extra large magnet and windings enable it to reproduce the entire musical scale with fidelity and volume. Furnished with base as illustrated.



R1765 Postage 10c extra..... **\$8.95**

Ekko Double Adapter

For adapting phones for loud speaker operation on a phonograph. Also where it is desired to use two different type units on a phonograph.

R1761 Single adapter. **68c**
Postage 4c extra.....

R1762 Double adapter..... **\$1.58**

Postage 5c extra.

Phone Speaker Cord

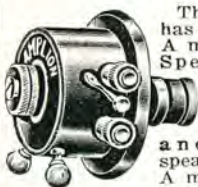


Flexible speaker cord of high quality. Adaptable to any standard speaker or unit.

R1767 5 ft.—Straight tips..... **25c**
Singles

R1768 5 ft.—Straight tips..... **29c**
Double. Postage 3c extra.....

Amplion Unit



The unit that has made the Amplion Speaker famous is offered for phonograph and console speaker use. Amplion speakers and units have always caused enthusiastic comment. They are unsurpassed. The basses and overtones alike are perfectly reproduced. We cannot recommend any other units more highly.

R1759 Formerly sold **\$12.00** for \$17.50.....

R1760 For phonograph or console use. Postage prepaid. **\$20.00**

Ekko Adapters

These connectors adapt loud speaker units to any type phonograph.



R1753 Ekko Connector No. 1 for Edison phonograph, net..... **22c**



R1754 Ekko Connector No. 3 for Columbia, Pathe, and Jewell style tone arms, net..... **17c**



R1755 Ekko Connector No. 4 for Brunswick phonograph, net..... **26c**
Postage 2c extra.



Moulded Plug

A splendid value in phone plug for use with loud speaker unit, headphones or speaker.

R1763 Postage 3c extra..... **21c**

Rubber Adapter



2-inch flexible rubber tube. The rubber adapter will connect unit to any type phonograph.

R1764 Postage 2c extra..... **5c**

The Latest Books and Diagrams

Radio Trouble Finder



No. R1201 It is easy to locate troubles with this handy book. Trouble shooting and repair offers source for big profits. This book will help you to make money. Covers every detail of modern receivers. Every user and set owner should have a copy. 47

illustrated pages, Postage 2c extra..... **19c**

Tips for Radio Amateur Constructors

No. R1202 Solves many constructional problems. Especially layout and design. Every set builder needs this book. 48 pages of valuable information. Postage 2c extra..... **19c**

Radio News Amateurs' Hand Book



No. R1203 Latest publication of the amateur's handbook. Previous issues have gained great popularity with amateurs, fans and set builders. Now issue is up-to-date and explains all of the recent developments. A big value as a handy book for the builder and amateur. Diagrams, blueprints and information. 112 pages, illustrated. Postage 4c extra.... **39c**

How to Make a Super-Heterodyne

No. R1211 Complete constructional data. Packet contains blueprints, layout, template, full instructions for building and treatise on Super-Heterodyne circuits. Postage 5c extra.... **84c**

100 Radio Hook-Ups

No. R1209 One of the most complete of all radio books. Gives diagrams, details and hook-ups of all efficient circuits. 56 pages, illustrated. Postage 2c extra. **19c**

20 Radio Phone Diagrams

No. R1207 A description of twenty of the most popular radio circuits with four supplements. The circuits described are of the most efficient type and complete constructional data is given. Postage 4c extra..... **35c**

Radial Book

An indispensable booklet for radio owners and set builders. Contains valuable information written in a non-technical manner that anyone may understand, telling how to care for your tubes and your radio set. Also diagrams of such famous circuits as the Hamerlund-Roberts, the Radio Broadcast Aristocrat, the Browning-Drake, the Diamond of the Air, Best's Super-Heterodyne and others. 24 pages. **R1220** Postage 2c extra..... **10c**



Super-Heterodyne Theory and Construction



No. R1208 The interesting Super-Heterodyne theory is fully described in a manner clearly understood by the average layman. It is easier to build and operate a receiver when the principles of the circuit are clearly understood. Constructional details and diagrams clearly given. Forty-eight interesting illustrated pages..... **19c**

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No. R1205 Keep a log of the stations you hear. Contains 48 pages of all American and foreign stations. Listed by call letters, location and wave lengths. Space for logging all stations. Contains constructional data and operating and installation instructions. Postage 2c extra. **19c**

1001 Questions Answered



No. R1210 Every known hook-up and circuit is described in detail in this recently published book. Recent circuits and developments are fully covered. Clearly printed diagrams and full details of each circuit described. Postage 4c extra..... **39c**

Latest Radio Review and Listener's Guide

No. R1204 A list of all radio broadcasting stations, completely revised and up-to-date. A review of all of the more important radio circuits and improved models. Contains valuable information and data. 200 pages, over 300 illustrations..... **39c**

How to Make a Neutrodyne

No. R1212 Constructional details of the most popular R. F. circuits include circuit diagram, panel layout and template. Complete data, details and instructions. A simple matter to build a Neutrodyne with this detailed guide..... **19c**

Radio Map of U. S. A.

No. R1213 Map shows location of all radio stations with call letters, wave-lengths and location of stations. Also method of computing distance of any station from any receiving point. A popular and useful map at our special price..... **35c**

How to Make a 5-Tube Cockaday

No. R1206 Famous 5-tube Cockaday circuit is fully described. Complete instructions are given, together with blueprints, layout and template..... **35c**

Blue Prints of Popular Radio Circuits

- R1221** 3-tube Reinartz, print and layout.
- R1222** 3-tube Cockaday, blueprint and layout.
- R1223** 4-tube Reflex, blueprint and layout.
- R1224** 5-tube Neutrodyne, blueprint and layout.
- R1225** 1-tube Reinartz, blueprint.
- R1226** 2-stage Amplifier diagram.
- R1227** 5-tube tuned radio frequency.
- R1228** 1-tube Cockaday, blueprint and layout.

- R1229** Harkness 2-tube Reflex.
- R1230** 1-tube Reflex.
- R1231** Push-pull Amplifier.
- R1232** Resistance Coupled Amplifier.
- R1233** 1-tube 3-circuit tuner.
- R1234** 1-tube Honeycomb coil receiver.
- R1235** 1-tube 3-circuit regenerative.
- R1236** 5-tube Cockaday resistance coupled set.
- R1237** Super-Heterodyne, blueprint and layout.
- R1238** Karns Equamatic, blueprint and layout.

Radio Questions Answered



No. R1214 48 pages of answers to all radio questions. Anyone who does not fully comprehend the theory of radio transmission and reception should have this book. It answers questions simply and clearly. Easily understood by anyone.

19c

Postage 2c extra.

Neutrodyne and All About It

No. R1215 The famous Neutrodyne circuit is clearly described. Every bit of information that anyone can possibly want to know is given. Completely describes the Neutrodyne theory and hook-up in detail. Fifty-two illustrated pages..... **19c**

Postage 2c extra.

Tuning Your Set

No. R1216 The tuning of some receivers is sometimes difficult to the average person to understand. This book explains the fundamental principles of tuning in radio receivers. Explanations are clear and easily understood. Entirely non-technical. Includes instructions on most circuits. 48 pages, illustrated..... **19c**

Postage 2c extra.



500 Radio Wrinkles

No. R1217 A very recent publication describing in detail how radio circuits may be simplified and improved. Constructional data and information described. An asset to any amateur, set builder or set owner. Just out. Ninety-four pages with illustrations and descriptions..... **39c**

Postage 4c extra.

Citizen's Radio Call Book

R1218 A complete list of radio stations with locations, wave-length, maps and log sheets. A complete review of all radio receivers and circuits with full details of each. List of parts and constructional data given as well as diagrams. This is the very latest issue of this popular publication. A big seller. Hundreds of pages..... **39c**



Postage 4c extra.

- R1239** 1927 Popular Mechanics Super-Heterodyne.
 - R1240** 5-tube Diamond of the Air.
 - R1241** 3-tube short wave.
 - R1242** Hamerlund-Roberts 1926.
 - R1243** Samson DeLuxe 5-tube T. C.
 - R1244** 5-tube Browning-Drake.
 - R1245** Remler Best's Super-Heterodyne.
- Price, each **25c**
Print.....
Postage, 2c extra.

THE SUPERPOWER

Raytheon "B" Eliminator

REPLACES ALL "B" BATTERIES

For Sets Up to 12 Tubes

IT IS our pleasure to offer our customers the new Super Power Raytheon "B". The latest improvement in design of "B" Eliminators. The Raytheon "B" Eliminator is a development of a power supply unit that will always deliver constant current without hum, noise or distortion. It will eliminate all "B" battery troubles and the expense of repeated "B" battery purchases. It is a new development, yet it is tried and has proven itself.

Raytheon Tube Will Not Burn Out

The Raytheon tube used in it will not burn out as it has no filament. It is simple to connect and to operate. Accompanying instructions for operating and connecting render it easy for the novice to use.

180 VOLTS—HEAVY DUTY

The Super-Power Raytheon "B" has been designed for heavy duty. It will accommodate any receiver, regardless of the number of tubes, because it has been designed to amply care for receiving sets up to 12 tubes and no receiving sets to date are made with more, or it will accommodate up to a 10-tube receiver with power tubes in the last stage.

It will deliver enough current supply for the new power tubes—UX-112 or UX-171—and will also operate power amplifiers at great voltages.

The Super-Power "B" has a maximum output of voltage of 180 volts and it will deliver 32 milliamperes at that voltage. This is enough for a 10-tube receiver with power tubes. At the lower voltages it delivers even greater current. At 150 volts, the current output is 50 milliamperes, more than enough for up to 12 201A tubes. Of course, it will deliver tremendous power and tremendous current for 5, 6, 7 or 8 tubes.



R2076

Retail Value \$42.50

Express
Shipping
Weight
15 lbs.

\$26⁷⁵

Most Powerful Unit on the Market

The actual retail price of the Super-Power Raytheon "B" Eliminator and the price to you embodies the usual Randolph policy of lowest prices for quality merchandise.

The usual "B" Eliminator on the market delivers nowhere near the current that this Eliminator does, and really cannot be compared with it. As a rule, most owners of receivers buy eliminators, not only for their present set but for some larger set that they may have in the future, and this will take care of practically all the radio developments for "B" power supply that one might want for many years to come.

Our price to you cannot be compared with the cheaper eliminators, which are specified only for 5 or 6-tube sets and which, in some instances, may not operate those properly. This eliminator gives you a margin of safety for the proper current supply. Take advantage of it.

The Biggest "B" Eliminator Value

Two voltages are adjustable on this eliminator and it is also equipped with a switch for high and low voltages. The retail price of this eliminator should be \$60.00 if priced on merit. It is encased in a metal container, burl walnut finish. Its appearance is beautiful and ornamental. It is furnished complete with cord and plug and with Raytheon tube.

The filter system developed on this eliminator is newly developed by the foremost engineers of the country.

Get the full benefit of your radio set. When using ordinary "B" batteries you get the best results your set will deliver one-third of the time only. Costs only very little to operate. It has high and low voltage taps, taps for any voltage and all are variable. This is the finest eliminator you can get for twice the price. It is a guaranteed quality product and tested before it is shipped.

Packed with complete instructions for operating.

Including Genuine Raytheon Tube

No Hum—Clear Reception

The objection to eliminators was the hum created during reception. This "B" Eliminator will not hum and will permit clear undistorted reception when it replaces your "B" batteries; it will open your eyes as it will give your set a chance. Most sets can be improved 1000 percent by the additional "B" battery current obtainable only with a "B" eliminator.

Raytheon Tube Only
R2723 Raytheon Tube only
supplied at our
special price..... **\$4.95**

Postage 8c extra.



Raytheon Eliminator

Knight Raytheon "B"

The new Knight Raytheon "B" entirely eliminates "B" batteries and furnishes a steady constant current for radio receivers from an A. C. electric light source. Plug into light socket for "B" current. This new powerful eliminator is equal to the best and better than any within \$10.00 of its cost.

Up to 180 Volts—NO NOISE

It will operate 10 tubes, including power tubes. Two variable adjustments control any voltage. Equipped with the finest filter circuit and the finest materials throughout, entirely eliminating possibility of humming.

Thousands Are Sold

Costs only a few cents to operate and will give you the full benefit of your radio set at all times. With "B" batteries you get best results only one-third of the time, when the batteries are fresh. Our price is low and the operating expense is almost none.

The beautiful burl walnut finish metal case with the etched panel helps sell it. Will fit in comparatively small compartment, size 6 $\frac{3}{8}$ x 10x5 $\frac{1}{2}$. Two automatic switches control high and low voltages. Comes with complete rubber-covered cord and plug. Best quality and equipped with the now famous Raytheon Tube to operate from 110 volts, 50 or 60 cycle, A. C. current.

Take advantage of our special offer. Never has there been any such value. Compare our price. This Eliminator could not have been built better. Complete with instructions.



No. R2081

\$35.00 Value

Completely equipped with Raytheon tube.....

\$21⁷⁵

Shipping weight 15 lbs.

All American Constant "B"



Permanent Plate Power

The All-American Eliminator employs the Raytheon rectifying tube. Furnishes dependable permanent supply of uniform, constant plate current. Permanently sealed. Hum entirely eliminated. Variable detector voltage and intermediate voltage tap, also high voltage tap for power tube. For 110-volt, 60-cycle A. C. Complete with Raytheon tube.

No. R2078 Constant "B"

Transportation charges paid. **\$33.75**

Majestic "B" Current Supply

Very high-grade Raytheon "B" current supply, widely recommended and used.

Majestic Standard-B Current Supply

Especially adapted for sets having not more than seven 201-A tubes, or six 201-A plus one 135-150 volt power tube. Price includes tube.

No. 2401 **\$27.50**

Majestic Super-B Current Supply

Capacity 1 to 12 tubes, including the use of 135-150 volt power tubes. Complete with switch to control current from light socket. Price includes tube.

No. 2402 **\$31.50**

Majestic Master-B Current Supply

Rating 60 mills at 150 volts. Particularly adapted for Radiola 25-28 and 30 and super-heterodynes. Will operate all power tubes, also the new super-power tubes UV-171 (180 volts). Unequaled for sets having a very heavy current draw. Price includes tube.

No. 2403 **\$35.75**

Shipping weight each 25 lbs. Transportation extra.

Acme Raytheon "B" Eliminator



A product of the Acme Apparatus Co., manufacturers of high quality apparatus. The large Acme will supply receivers having up to 12 tubes. It has a high voltage output for power tubes. Nationally advertised. A splendid power supply furnishing unlimited power at unvarying voltages without hum or distortion. Furnished for 110-volt, 60 cycle A. C. with Raytheon tube.

No. R2090

Acme Large Eliminator
Transportation charges paid. **\$44.95**

"B" ELIMINATOR

Balkite "B" Units

NEW MODEL "B" Y

Balkite presents a better eliminator at a lower price. Recommended for all sets up to five tubes. Has separate tap for detector tube. Efficient, noiseless, and furnishes constant current without need of adjustment. Cannot be used for more than five tubes. Economical in operation. Operates on 110 volts, 60 cycle A. C.
R2067 **\$26⁹⁰**
 Postage 60c extra.

NEW MODEL "B" W

The largest power unit made by Balkite. Will accommodate any set, including sets with power tubes, UX 112 or UX 171. Provided with taps for any necessary voltage. Output is sufficient for largest radio sets. Has intermediate taps for smaller sets. Entirely noiseless, quiet in operation. No hum. Reproduction without distortion is obtained with enormous volume. Delivers 40 M.A. at 150 v.; for 110 v., 60 c. A. C.
R2060A **\$68³⁰**
 Postage 70c extra.

NEW MODEL "B" X

The practical Balkite Eliminator. Will accommodate receivers having up to eight tubes, including power tube. Delivers maximum of 135 volts for power tube. Taps for intermediate voltages. No adjustments necessary. Noiseless. Constant current furnished from light socket. 110 v., 60 c. A. C.
R2069 **\$41⁴⁰**
 Postage 60c extra.

COMBINATION POWER UNIT

A heavy duty Balkite eliminator and Trickle charger combination. Connect it across a storage battery and it will supply plate and filament current from the light socket. A heavy duty eliminator supplies ample current for eight tubes, including power tubes. Entirely automatic. The switch on any radio set will automatically turn eliminator on and charge off without additional connections. Instantly installed. Operates from 110-120 volts A. C. For 4- or 6-volt tubes. Will deliver 30 M. A. at 135 volts.
R2070 **\$58⁸⁰**
 Postage 70c extra.



New Model BW



New Model BY



New Model BX



Comb. Power Unit

Timmons Raytheon Eliminator



The new Timmons Raytheon Eliminator is as simple and compact a "B" eliminator as has yet been developed. It will supply sufficient current for eight-tube receivers, and is provided with a tap to accommodate power amplifiers. The Timmons eliminator is endorsed by many laboratories. It provides a constant source of current without hum or noise. No adjustments are necessary. Simply connect to your receiver and the light socket. For 110 volts, 60 cycle A. C.
 Shipping weight, 12 lbs.
R2071 **\$39⁸⁵**

Philco Socket Power "A" & "B"

The new Philco "A" and "B" eliminator furnishes power from the electric light socket for the filament and the plates of vacuum tubes. Dispenses with batteries entirely. The new Philco socket power "A" and "B" will accommodate 3-volt or 5-volt tubes. It will also accommodate the new power tubes. Recommended for any circuit.



Is entirely humless. For 110-volt, 50-60 cycle A. C.
R2073 For 3- or 4-volt tubes, Combination A and B Eliminators **\$46.50**
R2074 For 5- or 6-volt tubes, Combination A and B Eliminators **53.65**
 Shipping weight 25 lbs.

Burns "B" Power

R2077 Raytheon Eliminator, made by the American Electric Co., manufacturers of the famous Burns Loud Speaker. Efficient Burns "B" power supply, which will deliver up to 135 volts for power tubes. Has adjustable detector tap, also taps for intermediate voltage. No hum. Supplies smooth D. C. current from A. C. lighting source. Complete with Raytheon tube for operation on 110-volt A. C., 60-cycle current.
\$35²⁰
 Shipping weight, 20 lbs.



Philco "B" Eliminator

R2090 For 1- to 8-tube sets. Delivers up to 150 volts. **\$27.65**
R2091 For 1- to 8-tube sets. Delivers up to 180 volts. **43.75**
 Shipping weight 15 lbs. All Eliminators Electrolytic.

Acme Small Eliminator

R2075 An Acme Raytheon Eliminator for receivers having a maximum of 6 tubes. This eliminator will give the same excellent service as the heavy duty Acme, but it will not supply enough current for more than 6 tubes. It is a splendid power supply and admirably adapted to 5 and 6-tube and smaller receivers. For 110-volt, 50-60 cycle A. C.
 Shipping Weight, 18 lbs. **\$35⁵⁵**



"B" Eliminator Kits

Thordarson Eliminator Essentials



Eliminator transformer R195 and choke coil R196, specified for the Thordarson Raytheon Eliminator and recommended for use in all Raytheon eliminators. Nationally known. For 110-volt, 60-cycle A.C. current. **R140 Type R195 Transformer. Postage 8c extra..... \$5.60**
R141 Type R196-30 Henry Choke. Postage 8c extra..... \$3.95

Jefferson Eliminator Essentials



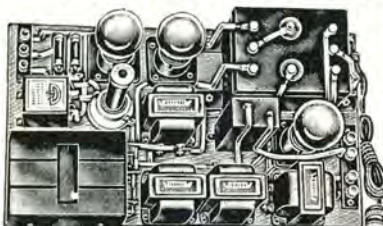
Essential units for B Battery Eliminator consist of Jefferson transformer with tapped secondary and two chokes. Jefferson essentials adapted by many eliminator manufacturers. Especially adapted for Raytheon Eliminators. For 110-volt, 60-cycle current. Set of Transformer No. 355 and two chokes No. 356. **R955 Postage 15c extra..... \$13.50**

Dubilier Raytheon Pack



Dubilier type PL90 is designed for Raytheon "B" eliminators. Maximum capacity of 8 mfd. Tapped at 2, 2, 8, 1, and 5. In addition to this filter block a .1 mfd. high voltage condenser is needed. This is type PL9L. **R512 PL90. Postage 10c extra.. \$7.13**
R513 PL9L. Postage 10c extra.. 1.49

Thordarson Power Amplifier and "B" Supply A POWER PACK WITH A TREMENDOUS KICK



Thordarson has developed a power amplifier that will also supply B current for all of the tubes in any radio receiver. The power amplifier will increase the volume of all radio sets enormously. The B current supply entirely eliminates the necessity for B batteries.

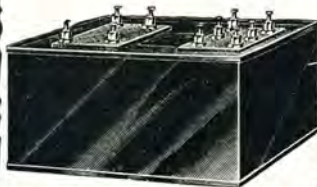
It furnishes steady and constant current and voltage from electric-light socket. The new power tube UX 210 is used in the power amplifier. No battery is required for the filament of this power tube, as the current for it is also supplied from the electric light source. UX 210 or CX 310 power amplifier has more than one hundred times the output of an ordinary amplifier tube. This is sufficient to amplify the lowest vibrations, the deep basses with power and strength not usually heard, and entirely without distortion. The power pack is entirely silent in operation. There is no hum whatsoever. Simple to construct.

LIST OF PARTS

- 1—Thordarson R-198 Power Transformer.
- 3—Thordarson R-196 Chokes.
- 4—2 mfd. high voltage Condensers.
- 2—1 mfd. By-pass Condensers.
- 1—8,000-ohm Resistor.
- 2—10,000-ohm Resistors, Tobe.
- 1—1,000-ohm Resistor.
- 1—Blue Print.
- R2527**
- 3—Standard Tube Sockets.
- 1—Thordarson R-200 Power Amplifying Transformer.
- 1—UX 216 B Rectifying Tube.
- 1—CX 374 Voltage Regulator Tube.
- 1—UX 210 Power Amplifying Tube.
- 1—4 mfd. Condenser, Tobe or Brown & Caline.

Shipping weight 20 lbs. **\$66.85**

Raytheon Eliminator Transformer and Choke Set



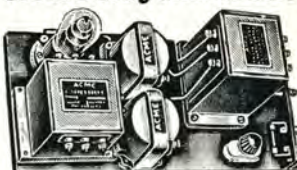
Special eliminator transformer and two filter chokes as one complete unit. The only compact transformer choke set on the market. Fully shielded. Lastite terminals all plainly marked. Easy to build a compact, efficient Raytheon B Eliminator with this unit and our special condenser pack listed below. Rock bottom price. The very best, priced far below the **\$7.49** market. An outstanding value. For 110-volt, 50-60 cycle alternating current source. **R956** Shipping weight, 10 lbs.....

Raytheon Eliminator Condenser Pack



Special high test condenser, designed especially for Raytheon Eliminator filter circuit. Approved by our laboratories after severe breakdown voltage tests. The finest and most efficient condenser on the market. Tapped—Common 1, 1.2, 2, .5, 1, 8, mfd. Taps brought out to Lastite terminals. An exceptional value. Our recommendation. **R957** Postage 20c extra. **\$5.95**

Acme Raytheon Kit



Complete parts made by well-known manufacturers of quality products, including genuine Raytheon tube and complete instructions for assembly. All you need is pliers, soldering outfit and screw-driver. Large size EK-1B, 1 to 12 tubes. Small size EK-3B, for sets with from 1 to 6 tubes. **R2082A** **\$35.50**
R2082 Small size. Postage prepaid... **29.25**

Clarostat

The Clarostat is specified for many Raytheon eliminators. It is used to secure the proper detector voltage from the eliminator output. It is also used to vary the amplifier or intermediate voltages. Smooth, stepless variation. **R610** Postage 4c. extra **\$1.89**



Tobe Deutschman Filter Condensers and Packs

Made for use in filter circuit in power units and B eliminator. High test, D. C. working voltages up to 300 volts. In metal case with tinted lugs for grounding. **R525** .1 **\$0.52**
R526 .25 **.63**
R527 .5 **.76**
R528 1.0 **1.25**
R529 2.0 **1.48**
R530 4.0 **3.78**
 Tobe B Block, Model 760
 Designed for use with Raytheon eliminator. Contains one 8, mfd., two 2 mfd. and two 1.0 mfd. condensers. Terminals brought out to bottom of container. **R142A** **\$8.25**
 Postage 8c extra.



Tobe Raytheon Secondary Condenser Unit Contains two 0.1 high-test condensers for eliminator transformer secondary. For use with 760. **R142B** **\$1.12**
 Postage 4c extra.

Guaranteed Storage Batteries

National Guaranteed Storage Batteries

Three-Year Guarantee



Break proof. Leak proof. One piece solid rubber case. National batteries are the finest batteries that can possibly be made. They are nationally known and advertised. Our price is so low, only because we are able to contract for tremendous quantities. Fully guaranteed. Easily serviced. Needs water only four times a year. The best that can be made. Shipping weight 40 to 65 lbs. Shipped by freight or express only. Transportation charges extra.

	Volts	Ampere Cap. at radio rates	Your Price
R2101	6	60	\$ 7.95
R2102	6	80	8.75
R2103	6	100	9.15
R2104	6	120	10.75
R2104A	6	140	12.95

Universal Storage "B" Batteries



Chargeable "B" battery. Leak proof. Has enameled acid proof tray, preventing solution from running over and damaging floor or rugs. 48 volts. Large cells. Delivers 3,500 milliamperes. Finest quality storage "B" battery obtainable. Complete with Fahnestock connectors. Easily installed. Shipped dry. Fully crated.

No. R2060 Shipping weight 40 lbs. Transportation charges extra

\$9.85

Federal Storage "B" Battery

Completely enclosed in wood case. Extra large cells. Heavy duty. Nationally known and advertised. Fully closed. Tops brought to binding post terminals on outside. An exceptional battery offer. Shipped dry and crated.



No. R2061—48 volt in covered case, **\$10.45**

No. R2062—24 volt in covered case, as pictured

Shipping **\$5.33**
weight—each 24 lbs.

Universal Four Volt Storage "A" Battery

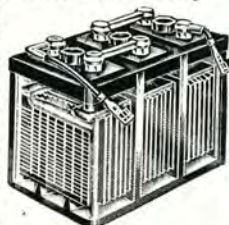


Small storage battery for operating dry cell or 199 type tubes. Dispenses with dry cell "A" batteries and their expensive replacement. Especially adaptable for use with trickle charger as a constant "A" power supply unit. Small 2½ x 3½" wide by 6½" high. 30 amp.-hour capacity at ½ amp. discharge.

No. R2064 Shipping weight 12 lbs. Transportation **\$4.95**
charges extra . . .

Universal Glass Case Battery

Medium capacity batteries, especially adaptable for use with trickle charger as a power supply. Hook up a trickle charger with a glass case battery permanently and eliminate battery and charging worries. Glass case batteries are acid and leak proof. Easy to determine when batteries need water. Capacity 40 amprs. 6 volts for all storage battery tubes. Equipped with Fahnestock connectors.



R2063 **\$9.75**
Shipping weight—40 lbs.

Rubber Battery Trays



Fits all size radio batteries. Prevents acid spilling. Saves rugs and floors. A high priced quality tray at a remarkably low price to you.

No. R2065. Postage 5c
extra

59c

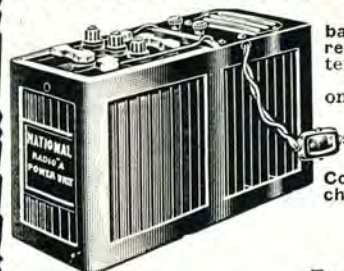
Special Hydrometer



A quality hydrometer. Accurate. Tests all storage batteries "A" and "B." Simple to determine when batteries are fully charged or need charging. Indispensable. An accurate gauge.

No. R1651 Medium size storage battery tester **45c**
No. R1652 Large size storage battery tester **67c**
Postage 5c extra.

NATIONAL POWER UNIT "A" POWER FROM THE LIGHT SOCKET



New improved "A" Power Unit furnishes current for all storage battery tubes. Plug in on light circuit for constant "A" power. No recharging necessary. Eliminates weak and run-down storage batteries. No additional storage battery required.

Consists of special battery and trickle charger unit which when once plugged in on light circuit requires no attention other than the occasional addition of water. Entirely noiseless. Delivers full voltage and current to vacuum tubes. Entire unit in rubber case. A quality product. Our tremendous purchasing power enables us to offer this power unit at a remarkably low price. Completely covered. For 110-volt, 60-cycle AC current. Electrolytic charging unit.

R2528 For 201A Tubes—
6 Volts **\$18.95**
R2529 For 199—
4 Volts **\$17.50**

Transportation charges extra. Shipping weight, 40 lbs.

VESTA "A" UNIT



Vesta products are nationally known. The new "A" unit is a quality product. Insures steady flow of current without annoyance of recharging. Dispenses with bulky storage "A" batteries and chargers. Entirely self-contained in glass case.

Requires no attention except occasional addition of water. Solution level is always visible. No more run-down batteries. A steady flow of vitality obtained from this remarkable "A" unit. Once attached to light socket and receiver, it needs practically no attention.

Quiet and efficient. No hum whatsoever. Will operate when set is in use.

For 110-volt, 60-cycle AC current.
R2530 25 amp. hr. **\$25.00**
R2531 50 amp. hr. **27.50**
Transportation Prepaid.

StewartDeLuxe Unit "A" Power

A LIGHT SOCKET "A" POWER
Plug into electric light socket for "A" power. Supplies continuous power for either storage battery or dry cell tubes of the 199 type.



AUTOMATIC SWITCH

The switch on the radio set controls the "A" supply. Equipped with socket into which any "B" eliminator may be plugged. The automatic feature will also control "B" eliminator from the switch on the radio set. Beautiful in appearance. Finished in antique mahogany with ebony inlay, striped in gold.

R2535 For 6-volt tubes from 110-volt, 60-cycle current. **\$21.75**
R2536 For 6-volt tubes from 25-40-cycle, 110-volt A.C. current. **22.50**
R2537 For 4-volt tubes from 50-60-cycle, 110-volt A.C. current. **19.65**
R2538 For 4-volt tubes from 25-40-cycle, 110-volt A.C. current. **20.95**
Shipping weight, 45 lbs.

"A" POWER SUPPLY



Requires no attention other than occasional addition of water. When attached to light socket it will constantly furnish sufficient "A" current for the filaments of vacuum tubes in any receiving set. Entirely eliminates storage battery charging. May be used with any set using storage battery tubes. Efficient, quiet.

ENTIRELY NOISELESS
No hum whatsoever. Built to last indefinitely. It requires no adjustment. Compact and self-contained. Plug in on any light socket and forget "A" battery annoyances.

R2532 For 110-volt, 50-60-cycle AC current. **\$17.95**
R2533 For 25-30-40-cycle, 110-volt AC current. **23.70**
Shipped Prepaid.

GOULD UNIPOWER

Unipower is a single compact unit which supplies "A" current from your house lighting current. Simply connect the Unipower to your set and plug it on the light socket. It will supply ample current for any set continuously.



Unipower A. C. consists of storage battery and charging unit combined which practically needs no attention. A. C.

6 is also supplied with a master control switch with which you can turn the entire unit on or off.

A. C. 6 H. A. is equipped with a charging unit that has four different trickle and one high charging rate, the rate of which can be adjusted simply so that the battery unit will be constantly charged to just the degree needed for the type set you are using. An automatic relay is also built into this unit as an integral part of it. The relay controls the "B" eliminator if one is being used. Entirely automatic. Requires no attention whatsoever.

A. C. 4 is for 4-volt tubes of the 199 and 120 type. It is equipped with a master switch of the same type as the A. C. 6. All of these units are enclosed in a black rubber compound case. The case is equipped with a patent gas-tight cover with vent tube. All fittings highly polished. Dimensions 8 1/2 x 5 1/2 wide x 8 3/8" high. Furnished for 60 or 25 cycles. Sweet's which desired.

R2550 A. C. 6 H. A. **\$38.25**
R2552 A. C. 6. **36.25**
R2553 A. C. 4. **29.75**
Shipping weight 60 lbs.

ACME "A" ELIMINATOR

No Charging—No Hum—No Nuisance
For 1 to 8-Tube Sets



The Acme A-1 "A" power supply unit eliminates battery charging. Operates the filaments of the radio tubes from the lamp socket, and the storage battery becomes a condenser. This is not a trickle charger or battery charger and is used only while the radio set is operated. No changes in wiring of the radio set or accessories need be made. For 110-volt, 60-cycle A. C. current.

R2556 Without tubes. **\$37.80**
Transportation charges paid.

CHARGERS

Balkite Trickle Charger



Balkite trickle charger may be used with either four or six-volt battery and will charge at 1/2 amp. rate and trickle off as the battery becomes fully charged. Recommended for use with a 40 or 50 amp. battery to furnish constant current. 110-volt, 60-cycle A. C.

R2051

Postage 30c extra.....

\$9⁷⁰

New Balkite Charger

More than a charger, a power unit. The new Balkite Charger is a combination trickle charger and charger that will charge at a full 2 1/2 amp. rate. Trickle charging rate, 1/2 amp. The charger can be used as a trickle charger or a fast charger unit. It can be used



across a battery to supply constant current to the filament of vacuum tubes. It is entirely noiseless in operation and can be used while the set is in operation. The most widely known and popular charger in the world. Two chargers in one. 110-volt, 50-60 cycle A. C.

R2057

Postage 40c extra.....

\$19¹⁰

Triple Duty Homecharger



The Gold Seal Homecharger is offered at a remarkably low price. It may be used for "A" or "E" batteries. It charges at a 5 ampere rate and will therefore bring a fully discharged battery to a full charge overnight. The charger is of the vibrator type. No acids or tubes are necessary. Nationally known and advertised. 110-volt, A. C.

Shipping weight 12 lbs.

R2052 25 Cycle. Postage

R2053 60 Cycle. Extra

\$12³⁸

Dynamic Charger "A" and "B" Charger

A bulb type charger. This charger is well known and is very efficient. Charges at a 2 amp. rate. It is noiseless and does not cause interference. Complete with bulb. 110-volt, 50-60 cycle A. C.



R2058 Shipping weight 8 lbs.

Postage extra

\$8⁹⁵

New Tungar Charger



Latest model Tungar charger. 2 and 5 amp. charging rate. Equipped with new type Tungar bulbs. This charger requires no acid and does not cause interference, 110 volt, A. C.

R2054. 60 cycle, 5 amp.

R2055. 60 cycle, 2 amp.

R2056. 25 cycle, 2 amp.

\$23.80

15.30

18.70

Shipping weight 15 lbs. Postage extra.

New Genuine Tungar Bulbs

New type Tungar 2 Amp. Bulb
No. R1901

\$3.78

New type Tungar, 5 Amp. Bulb.
No. R1902

7.65

Postage 8c extra

Direct Current Battery Charger

Charges any battery 2 to 12 volts from direct current lighting source.

D. C. charger will charge a 6-volt battery at 2 amp. charging rate, 12-volt batteries charge at 4 amp. charging rate. Indicator shows the exact rate at which battery is being charged.

Equipped with battery leads with clips, also with cord and plug.

Height, 9 1/2"; width, 5"; depth, 4 1/2".

R2000C 110 volts **\$11.75**

D. C.

R2000D 32 volts

D. C.



\$11.75

Shipping weight, 12 lbs.

The New Silite Trickle Charger

Silite is a new rectifying medium just developed. No bulbs, no wearing parts, no adjustments.

The new Silite trickle charger is absolutely silent. No hum whatsoever. It charges at a 6 ampere rate. May be coupled with any 6-volt storage battery to furnish constant "A" current to your radio receiver. May be used as an intermittent charger or trickle charger. Always silent. No hum. Electrolytic rectifier for 110-volt A. C. current. Size over all 5 1/2" long, 3" wide, 7" high. Complete with cord, battery terminals and electrolyte.

R2001X **\$9.10**

Shipping weight, 10 lbs.

CHARGERS

Tungar Trickle Charger



R2084 The new Tungar trickle charger, manufactured by the General Electric Company, will charge 6 or 4-volt batteries at 1/2 amp. rate.

Tungar bulb type trickle charger requires absolutely no attention. Silent in operation. Requires no acid or water. Will not overcharge. Low trickle charging rate. Highly

recommended and in popular demand.

Small and compact. Requires less space than any other type trickle charger. Recommended for use with low amperage battery, 30 to 60 amp. It may be used with any 4 or 6-volt storage battery. Has adjustable charging rate.

Price includes bulb. Transportation extra. Shipping wt. 13 lbs. **\$9.95**

APCO "B" Charger



R2087 For charging storage "B" batteries. The Apco "B" charger will charge up to 100 volts of storage "B" battery over night. The charger is of the vibrator type. No acid or other solution need be used. It is simply necessary to connect the battery to the charger and the electric light line. Insert an ordinary lamp and turn the current on.

Postage 15c extra **\$3.65**

Rectifying Bulbs

Rectifying bulbs for Tungar or Rectigon charger. May be used with all bulb type chargers.

R2726A 2-amp. Rectifier. Postage 10c extra. **\$3.15**

R2727A 5-amp. Rectifier. Postage 10c extra. **6.30**

Beede Charge Indicator



R1915 The Beede charge indicator shows the condition of your storage battery. If the battery is partially run down, the pointer will indicate that it needs charging. If the battery is fully charged, the charge indicator will show you that it is time to stop charging. Nothing is left to chance with an accurate meter of this type.

Postage 5c extra **\$1.29**

"B" Battery Hydrometer



R1916 Accurate hydrometer for testing storage "B" batteries. Postage 5c extra. **29c**

Our Special Trickle Charger

R2083 A most efficient trickle charger at a remarkably low price. It is especially recommended for use with a small storage battery having a capacity of from 40 to 50 amps.

By placing the charger in service while the set is not in operation, the battery is kept fully charged all of the time. This charger is superior to most types because its charging rate is as high as 2 amps. when the battery is in a discharged condition and the rate trickles off to a slower charge.

HIGH CHARGING RATE

Maximum charging rate is considerably higher than the rate obtained with most trickle chargers, which is usually half an amp. The 2-amp. rate will practically bring a battery to a full charge over night, which the slower chargers cannot do. The charger must be used on a 60-cycle, 110-volt A. C. line.

Transportation extra. Shipping weight, 15 lbs.



\$7.35

Automatic Control Switch

R785 Reliable, automatic power control switch for use with trickle charger and "B" eliminator. Automatically turns on or off either or both the trickle charger and "B" eliminator as required. Its use advised with every "B" eliminator.

Postage 5c extra **\$1.58**

R785A for sets using 199 tubes, \$1.98.



Brach Controlit Switch

R1918 An automatic relay for "A" power supply and "B" eliminator. Reduces the necessity of three or more switches. The Brach control automatically switches "B" eliminator and "A" power supply on or off as the set is switched on or off. Entirely automatic. Recommended by Balkite.

Postage 10c extra. **\$4.85**



Sterling Charge Indicator

With the Sterling charge indicator you can soon determine whether your storage battery needs charging, or if on charge whether it has obtained a full charge. It is not necessary to use a hydrometer and chance spilling acid, which is ruinous. The charge indicator will quickly show the condition of your storage battery.

R1914 **\$1.58**

R1919 Our Leader Charge Indicator. **49c**

Postage 5c extra.



In-A-Cap Hydrometer

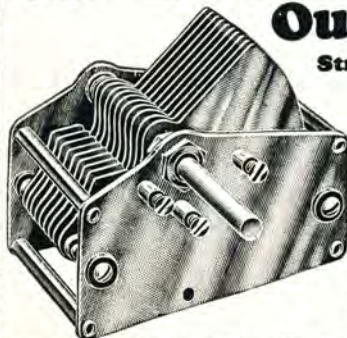
A novel hydrometer that precludes the possibility of acid spilling when testing storage batteries. The hydrometer will fit into the screw vent of all standard storage batteries. Simply remove the caps from the batteries and screw in an In-A-Cap Hydrometer in the vent of each cell. Not necessary to remove hydrometer at any time to take a reading. The hydrometer will show instantly the condition of each cell. Postage 6c extra.

R1917 Each **58c**



Variable Condensers

Our Special Straight Line Frequency



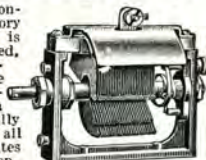
We are offering a high price, quality condenser at a special reduction to you. This condenser has been designed so that it may be used where the saving of space is essential. It has straight line frequency characteristics, but so modified, that while the stations are separated at the lower end, they are not crowded together on the upper scale. The plates are brass with special adjustable features. The condenser is assembled and constructed with precision. We highly recommend it. Postage 8c extra.

R920 .0005 straight line frequency condenser **\$1.19**
R921 .00035 straight line frequency condenser **\$1.10**

SAMSON

Uniform Frequency

The new Samson condenser is a laboratory instrument of note. It is very ruggedly constructed, yet built with the precision of a watch. The plates are small, reducing resistance to a minimum. It is partially shielded, protecting all delicate parts. The plates and shielding are of copper. This condenser is creating a sensation.

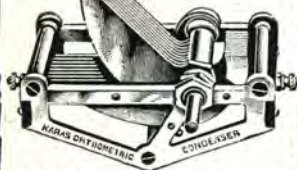


R922 Cap. .00025..... **\$5.95**
R923 Cap. .00035..... **6.16**
R924 Cap. .0005..... **6.37**

Postage 8c extra.

U S L Compensated Multiple Variable Condenser

Karas Orthometric



The Karas Orthometric is a straight line frequency condenser of high development. The condenser is very ruggedly constructed, has brass plates and is pig-tailed. Laboratory instrument. Nationally known as the best of line condensers.

R925A Cap. .00014. **\$6.50**
 7 Plate.
R925 Cap. .00025. **\$6.50**
R926 Cap. .00037. **\$6.75**
R927 Cap. .0005. **\$7.00**

ALL AMERICAN S. L. F.

The All-American straight line frequency condenser is fully shielded. The tension is even over the entire scale. The bearings will last a lifetime. The calibrations are made over a 360° dial, just twice as much space as the average condenser. This eliminates all possibility of crowding.

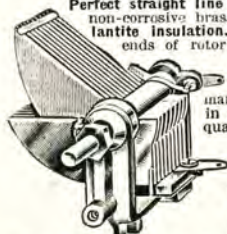
No. Cap. Price
R928 .00035 \$4.05
R929 .0005 4.50

Postage prepaid.
R930 All-American 360° dial **90c**
 Postage prepaid.



HAMMARLUND S. L. F.

Perfect straight line frequency characteristics. Soldered, non-corrosive brass plates, permanently aligned. Isolate insulation. Adjustable ball bearings on both ends of rotor shaft. Warpless aluminum frame. Grounded rotor. Clock spring pig-tail. One hole mounting. Some of the described features are found in many condensers, but all of them only in the new Hammarlund S. L. F. A quality product.



R931 .00025..... **\$3.85**
R931A .0003..... **3.92**
R932 .00037..... **4.05**
R932A .0005..... **4.25**
NEW MIDLINE HAMMARLUND
R932B .00025..... **3.85**
R932C .00037..... **4.05**
R932D .0005..... **4.25**

This 3-gang condenser makes possible the construction of one dial control sets. All 3 units are evenly matched and balanced. In addition it is provided with two compensators so that any unit of the condenser can be adjusted to balance up any variation in any part of the circuit or coils used.

This arrangement makes possible through one control the finest reception, as stations can be tuned in by moving only the one dial, and then through the use of the compensators, maximum volume and clarity may be obtained. Each condenser .00035 capacity.

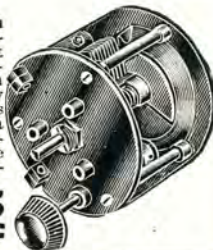
Furnished complete with 3" bakelite dial and bakelite knobs on adjusters. Very rigid construction. Straight line characteristics. Radion insulation with extremely low minimum capacity. Extends 3 1/2" back of panel, 5" wide, 3" high when plates are unmeshed.

R933A Postage 20c extra..... **\$9.95**

ACME

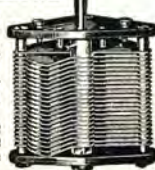
Nothing has been spared in developing an accurate condenser. The Acme job is built with losses reduced to the minimum. It is fully shielded with glass, thus is unaffected by dust, dirt and moisture. This condenser is provided with a smooth vernier. It is counter-balanced and will give lifetime service. Straight line characteristics.

R933 Cap. .0005 Mfd. Acme condensers as pictured. Postage prepaid..... **\$4.95**



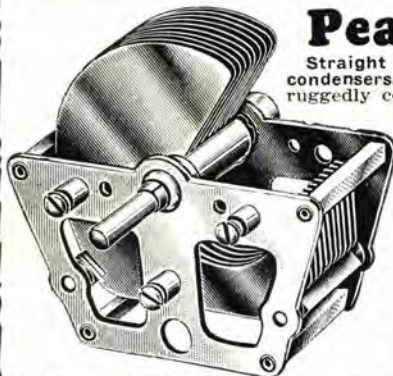
Bakelite End Condenser

A very sturdy heavy aluminum alloyed plate condenser, which is perfectly spaced to insure smooth, even, reliable capacity. End plates genuine bakelite. High grade workmanship throughout and a very unusual value. All condensers fitted with 1/4" shaft. Bakelite ends.
R970 11 plate, .00025..... **72c**
R971 17 plate, .00035..... **81c**
R972 21 plate, .0005..... **83c**
 Postage 5c extra.



Variable Condensers

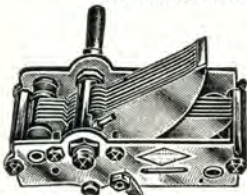
Pearl S. L. B. Condenser



Straight line broadcast—the most recent development in variable condensers. This is an accurate instrument with low minimum, ruggedly constructed with ball bearings. The eccentric shape of the plates relieves crowding of stations at any point of the dial. Aluminum and brass construction. Milled stator plates. Single hole and three hole mount. Precision high quality. One of the finest condensers ever designed. The genuine ball bearing alone is a feature not found in most high priced condensers. Perfectly electrically insulated. Has adjustable rotor plates. The stator plates are eccentric and the rotor plates semi-circular, giving perfect balance and compactness.

- R902 Cap. .00035..... **\$1.29**
- R903 Cap. .0005.....
- Postage 8c extra.
- R904 Double Condenser Unit. Cap. .00035. Double Tandem..... **\$2.58**
- Postage 12c extra.

Amsco Allocating



A straight line frequency condenser of unusual type. Constructed with the utmost care and precision. Aluminum frame and soldered plates with flexible pig-tailed connection. Nationally advertised and specified in many circuits. An accurate true S. L. F.

- R905 Cap. .0003. Postage 8c extra..... **\$2.20**
- R906 Cap. .00035. Postage 8c extra..... **2.40**
- R907 Cap. .0005. Postage 8c extra..... **2.80**
- R908 Cap. .00035. Double Unit. Postage 12c extra..... **4.80**

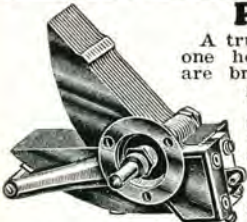
Remler Twin Rotor

The nationally known Remler condenser specified for many circuits, including the Remler Best Super-Heterodyne and the Remler Infradyne. Constructed of brass plates, corrugated and welded together. The gears are bakelite. The Remler condenser is the finest of its type. It is truly a laboratory instrument. It has straight line wave length characteristics and is furnished complete with 360° dial, using twice as much space for calibration as the usual type condenser, therefore there is no crowding of stations on any portion of the dial.



- R911 Cap. .00035. Postage extra..... **\$3.95**
- R912 Cap. .0005. Postage extra..... **3.95**

Pacent S. L. F.



A true S. L. F. condenser with one hole mounting. The plates are brass and are soldered together, minimizing losses. The small frame reduces absorption. Insulating material is isolantite, having a very high dielectric value. The plates are permanently aligned, reducing the probability of shorting. Only Pacent can produce this at a price.

- R909 Cap. .00035. Postage 8c extra..... **\$2.75**
- R910 Cap. .0005. Postage 8c extra..... **3.55**

Commodore S. L. F.

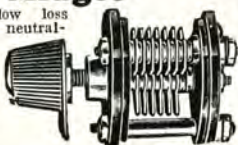
The new Commodore is a very compact condenser. It is carefully constructed and is accurate. Its characteristics are straight line frequency. Its price is exceptionally low—thus it can be offered for resale at a substantial profit.



- R913 Cap. .00025. 13 Plate. Postage 8c extra..... **\$1.45**
- R914 Cap. .00038. 17 Plate. Postage 8c extra..... **1.59**
- R915 Cap. .0005. 23 Plate. Postage 8c extra..... **1.79**
- R915A Double Condenser Unit. Cap. .00035. Each section..... **3.25**
- Postage 10c extra.

Special Midget

A carefully constructed low loss midget condenser for use as a neutralizing or balancing condenser or vernier. Its use is also recommended as a compensator for 2 or 3-gang condensers which are not provided with trimmers. Also used for Super-Heterodyne. Capacity .600046 maximum.



- R916 Panel Mount. Postage 3c extra..... **79c**
- R917 Base Mount. Postage 3c extra..... **88c**

Pilot Neutrograd-Midget

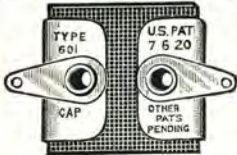
Low Loss Midget Condenser

It has a one-hole mount or it may be base mounted. It can be used as a neutralizing or balancing condenser, or as a trimmer on a 2 or 3-gang condenser or for Super-Heterodyne regeneration control.



- R918 Cap. .00025..... **65c**
- R919 Cap. .0005..... **75c**
- Postage 3c extra.

Dubilier Micadons



The new Dubilier condenser is 95 per cent accurate. Mica insulated with soldering lugs.

No.	Cap.	Price
R1074	.0001	26c
R1075	.00025	26c
R1076	.0005	26c
R1077	.001	30c
R1078	.002	30c
R1079	.0025	30c
R1080	.005	36c
R1081	.006	56c

Postage 3c extra.

Dubilier Grid Condenser

Accurate Mica fixed condenser with clips for grid leak mounting.

R1075B	.00025 with clips...	30c
R1080B	.0005 with clips...	30c

Postage 3c extra.

Dubilier Micadons 700

New Dubilier Micadon for 1927. Completely enclosed in a aluminum case. Unaffected by moisture or temperature.

No.	Cap.	Price
R1082	.00025	30c
R1083	.0005	30c
R1084	.001	33c
R1085	.002	33c
R1086	.0025	33c
R1087	.005	48c
R1088	.006	60c

Postage 3c extra.

Dubilier By-Pass

The new Dubilier by-pass condenser greatly improved with mounting feet. Used in impedance amplifiers and across "B" batteries to prevent noisy reception.

No.	Cap.	Price
R519	.1	\$0.45
R520	.5	.56
R521	1.	.67
R522	2.	1.31

Postage 4c extra.

Neutralizing Condenser



R523 Balancing or neutralizing condenser. Designed for neutrodyne circuits. Bakelite base. Highest quality—low-loss. Extremely low minimum. Has fine adjustment feature. Accurate. Our special offer. Sold in pairs. Postage 5c extra.

Per Pair **29c**

Sterling Microdenser



R514B Balancing condenser used for compensating double or tandem condensers. Also used in neutrodyne or bridge circuits. Adaptable for use wherever neutralizing or balancing condensers are required. Low losses with fine adjustment. Max. capacity approximately 5 micro microfarads. Extremely small minimum capacity. Mica dielectric—can be fixed indefinitely or adjusted at will. Size 1x1/4. Postage 4c extra. **87c**

Micamold Condenser

Moulded of genuine bakelite under pressure of 50 tons. This expensive moulding process makes possible a fixed condenser that will not warp, shrink or vary in capacity.



No.	Cap.	Price
R1089	.0001	26c
R1090	.00025	26c
R1091	.0005	26c
R1092	.001	30c
R1093	.002	30c
R1094	.0025	37c
R1095	.005	45c
R1096	.006	52c

Postage 3c extra.

Micamold Grid

Moulded bakelite with grid leak mounting. Accurate capacitor cities. Mica condenser. Moulded under enormous pressure.



No.	Cap.	Price
R1097	.00025	32c
R1098	.0005	32c

Postage 2c extra.

Micamold Leak Condenser

Grid leak and condenser moulded together as one unit. Furnished with the following grid leak resistances:

No.	Cap.	Price
R1099	1 meg.	62c
R1100	2 meg.	
R1101	3 meg.	
R1102	5 meg.	

Postage 3c extra.

Sangamo Condenser

The nationally known moulded bakelite condenser unaffected by heat or moisture. 95% accurate. Capacity will not vary under any condition. An approved quality condenser. The insulating material is mica. Nationally known and advertised. Specified for many kits.

No.	Cap.	Price
R1103	.00025	36c
R1104	.0005	36c
R1105	.001	45c
R1106	.002	45c
R1107	.005	78c
R1108	.006	81c
R1103A	.00025 with Grid Mtg.	45c

Accurate. Fully tested. Postage 3c extra.

X-L Grid Condenser

R511 The nationally known grid and balancing condenser. The capacity is varied by the screw shown on top. Readily adaptable as a neutralizing condenser or grid condenser where accurate capacities are essential. List, \$1.00. A low-loss quality advertised product. Extremely fine adjustments may be made. Specified by all radio publications for popular kits.



R512A	With clips for grid leak mounting	\$1.34
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Postage 4c extra.

Polymet Condenser



An accurate, durable, nationally known Mica condenser. These are carefully made and

No.	Cap.	Price
R1109	.00025	21c
R1110	.00025 gd.	24c
R1111	.0005	24c
R1112	.001	24c
R1113	.002	36c
R1114	.005	45c
R1115	.006	50c

Postage 3c extra.

Polymet High Voltage By-Pass and Filter Condensers

Accurate by-pass condensers tested under 1000 volt break down voltages. Recommended for use wherever quality by-pass or high test filters are required. Admirably adapted for use with B powered units and kits. Will not break down under 1000 volts. Shielded in Japaned metal case with soldering terminals and mounting brackets.



No.	Cap.	Price
R519B	1.	\$0.36
R519C	.25	.42
R519D	.5	.47
R519E	1.0	.53
R519F	2.0	.99
R519G	3.0	1.53
R519H	4.0	1.95
R519J	5.0	2.40

Postage 14c extra.

High voltage filter condensers for Raytheon circuit.

R520B	14 mfd. condenser pack tapped at 2, 2, 4, 4, 1, 1.	\$5.45
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Postage 20c extra.

In addition to this condenser pack a buffer or high-voltage secondary condenser is required for eliminator filter circuits. This is listed below tapped 1-1-1. R520C High voltage secondary condenser. Tested at 1500 volts, tapped 1, 1, 1. **\$1.15**

Postage 14c extra.

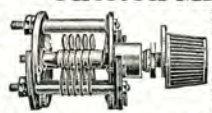
Pacnet Balcon



R521B Neutralizing or balancing condenser. For neutrodyne or any radio frequency circuit requiring capacity balancer or neutrodyne. Fine adjustment is obtainable. Consists of two electrodes inclosed in glass tube with adjustable split brass tubing. Simply adjusted. Accurate, unaffected by moisture. Has radion base. **34c**

Postage 3c extra.

Chelton Midget



Low loss midget condenser. Especially adapted for vernier control, balancing condenser, compensator or loop regeneration control for Superheterodyne, brass plates and aluminum end plates.

R513B	Single panel mounting, 9-plate, .000035; 13-plate, .000045.	\$1.12
R514A	Base mounting, 9 plates.	\$1.29

Postage 5c extra.

Resistance AMPLIFICATION

De Jur Wired Amplifier



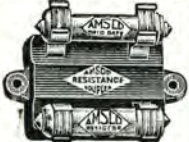
A completely built resistance amplifier at a remarkably low price. Insures perfect tone quality. All of the advantages of the new cone speakers are obtained. This assembled moulded bakelite 3-stage amplifier includes all resistances and condensers. Completely wired and moulded of bakelite with X-type sockets. A wonderful value.

\$5.48

No. R946 Postage, 10c extra

Amco Resistance Coupled Kits

The Amco kit contains all of the necessary essentials for a 2 or 3 stage resistance amplifier, including mountings, rheostat, condensers and resistors. It is easily wired and the price is remarkably low. Amco special sockets included.



No. R948 3-Stage Complete Kit..... **\$6.85**
No. R949 2-Stage Kit **4.95**

Postage, 10c extra

Polymet 3-Stage Resistance Kit



A very efficient resistance amplifier can be constructed with the Polymet 3-stage kit. The kit includes all necessary mountings, condensers and resistors. These are furnished in separate units and they are very easily mounted on the sub-panel or base of any receiver. It is easily constructed and though the price is very low, the full benefits of the higher priced amplifiers are obtained with this kit. Hi-Mu tubes are recommended.

No. R951 Complete 3-Stage Kit **\$2.85**

Postage, 10c extra

Poly Resistors



Accurate resistances. Used in resistance coupled amplifiers. Noiseless. Good quality.

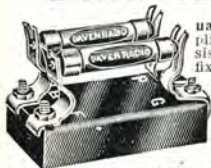
R1051 .1 **20c**

R1052 .25 **15c**

R1053 .5 **Each**

R1054 1. **Each**
Postage, 1c extra.

Daven Couplers



Daven individual couplers supplied without resistances. The fixed condensers are mounted in the bakelite moulded base of the coupler. One coupler with the proper resistances required for each resistance amplifier stage.

Single coupler for resistance or grid leak mountings without condensers.
No. R1318 Single coupler..... **30c**

No. R1319 Double coupler..... **\$1.28**

Postage prepaid.

De Jur Single and Double Mounting



Bakelite base. Patented nickel phosphor bronze clips. Makes contact all around resistor. Double mounting has space provided for condenser.

No. R452 Single Mounting..... **18c**

No. R453 Double Mounting..... **30c**

Postage, 2c extra

Bradley Units



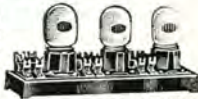
Amplifier resistors made by well-known manufacturer. Kit consists of six units of correct rating for resistance coupled amplifier.

R1055 Kit of 6 Units **\$4.32**

Postage prepaid.

Daven Super-Amplifier

The famous improved Daven Super-Amplifier with new type Daven glastors. A 3-stage resistance coupled amplifier, completely built, and it can be connected in the amplifier circuit of any receiver or substituted for the old type amplifiers. Reproduction is flawless. Daven Hi-Mu tubes are recommended for most efficient operation, but are not furnished with this kit.



\$12.75

No. R947 Completely wired amplifier.....

Postage prepaid.

Daven Resistance Amplifier Kit Type 3-K

The Daven resistance 3-stage amplifier in kit form at a much lower price. Furnished complete with mountings, containing condensers and glastors. No. R950 Complete, ready to wire, into any set...



\$6.80

Postage prepaid.

Daven Glastors



The new type Daven resistors. Guaranteed accurate.

No.	Megohms	Price each... 64c
R1043	.1	} Price each, 42c
R1044	.25	
R1045	.5	
R1046	1.	
R1047	2.	
R1048	3.	
R1049	5.	
R1050	10.	

Postage prepaid.

Lynch Metallized Fixed Resistors

Lynch resistors have a concentrated metallized deposit on a glass core sealed within a glass tube. This construction gives a conductive non-arcing resistance absolutely noiseless and permanently accurate. Guaranteed not to develop noises nor open circuit.

No.	Value	Price
R1117	5. meg.	} 42c
R1118	3. meg.	
R1119	2. meg.	
R1120	1. meg.	
R1121	.5 meg.	
R1122	.25 meg.	
R1123	.1 meg.	
R1124	.05 meg.	63c
R1125	.025 meg.	63c
R1126	.005 meg.	85c
R1127	.002 meg.	85c

Postage, 1c extra.

Lynch Single Resistor Mounting..... **30c**

Postage, 1c extra.

Impedance Amplification

Jefferson Concertone

The new Jefferson transformer specified for many circuits. It has a practically flat curve, insuring amplification over the entire musical scale. The ratio is low, the core and windings large. This is a quality product at a very low price. A fast seller.



R101

\$5.29

Postage 8c extra.

Thordarson R-200 Transformer



R102 The latest product of the Thordarson Electric Mfg. Co. It is a large transformer with a heavy iron core. The ratio is low and the windings large. It has the flattest curve of any transformer that has been on test. Amplifies the lower musical scale as well as the higher portion with the overtones. Specified for the Silver Cockaday and other circuits.

R102

\$6.40

Postage 8c extra.

Thordarson Autoformer



R103 A form of impedance coupling that has gained great popularity. Three stages of amplification are required, but the output is somewhat greater than two transformer stages and the quality is considerably better than the ordinary transformer coupled amplifier.

Price Each..... **\$4.19**

Set of Three..... **\$12.49**

All-American Impedance

For use in the Rauland Trio. The latest development of the All-American Radio Corp. Uses a Rauland Lyric Transformer in the first stage, and Rauland Trio type R-300 impedance 2nd stage, and type R-310 in the 3rd and final stage. Full amplification is secured without sacrifice of efficiency.



R107 R-300. Each... Price..... **\$5.40**

R108 R-310. Each... Prepa'd..... **\$5.40**

Samson Chokes



Audio and radio frequency choke coils can be used in many radio circuits. Smooths out current in the audio and radio frequency circuits. Reduces distortion and noise or "static" caused by rundown or noisy batteries. Keeps the current in that part of the circuit where it is intended to be, reducing distortion, and prevents audio frequency oscillation.

R104 Audio Frequency Choke.....

\$2.45

R104A R. F. Choke.....

\$1.27

Postage 5c extra.

Alden Tru-phonic



R105 A new method of amplification has been developed by Professor H. L. Donle. This is a form of impedance coupling, but it differs greatly from the usual type. Greater amplification is secured with the Tru-phonic and reproduction is perfect over the entire musical scale. Three stages are required. Wiring diagram included.

Price Each..... **\$3.95**

Postage 5c extra.

Acme R. F. Transformer



The Acme R. F. Transformer is self-tuned. It may be used in radio frequency or reflex circuits. Especially adapted to the Acme 4- and 5-tube receivers. Nationally advertised.

R110 R-2, 1st stage. Net.....

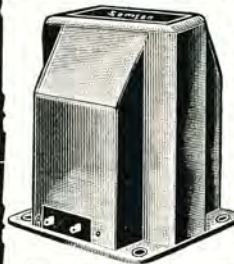
R111 R-3, 2nd stage. Net.....

R112 R-4, 3rd stage. Net.....

\$2.70

Postage 5c extra.

Samson Impedances



The new method of amplification developed by Prof. H. L. Donle. Employs grid and plate impedances instead of impedance and resistance. Greater amplification is obtained without distortion and far more perfect reproduction than ever secured heretofore. All of the advantages of impedance and transformer coupling with none of the disadvantages of either. Three stages required with one Grid Impedance and one Plate Impedance to each stage. The Dual Impedance contains both Grid and Plate Impedance in one unit wound on one core. Samson Impedance wound in the famous helical manner, reducing losses and increasing efficiency.

The Output Impedance is used to keep the direct current out of the loudspeaker. It protects the speaker and matches the tube impedance to the speaker impedance, greatly improving quality of reproduction.

R109G Grid Impedance.....

R109P Plate Impedance.....

R109D Dual Impedance.....

R109X Output Impedance.....

Postage 8c extra.

\$4.25

Each

Dubilier Duratran

R106 A self-tuned radio frequency transformer that does not require a tuning condenser. Wave length range, 225 to 550 meters. Highly recommended for reflex receivers.....

\$2.97

Postage 5c extra.



Popular TRANSFORMERS

Columbia Shielded



Columbia transformers are of high quality, carefully made with large cores of silicon steel and large windings. Furnished in high and low ratio types. For greatest amplification without sacrifice of tone quality. These transformers are equal to the finest and are offered to you at a remarkably low price only because they are products of our own manufacture. They may be used in any circuit with splendid results. Unshielded sub-panel transformers are made to the same specifications for manufacturer's use.

SHIELDED

List Price, \$4.50

R751 3½ to 1... }
 R752 6 to 1... }
 R753 2 to 1... }

\$ **1¹⁰**

SUB-PANEL

List Price, \$3.00

R754 6 to 1... } All Ratios
 R755 3 to 1... }
 R756 2 to 1... }

\$ **1¹⁰**

JEFFERSON STAR



A small, compact, fully shielded transformer. This is nationally known for its electrical efficiency. A very fine transformer and a splendid value.

R757 3:1 **\$2.10**
 R758 6:1 **\$2.19**
 Postage 8c extra.

KARAS HARMONIK

No. R759 This is the famous all-ratio transformer. The first of its kind developed for better tone quality. Reproduces high and low notes equally well without distortion. Fully shielded. One of the highest grade transformers on the market.

Postage **\$7.00**
 Prepaid.



ACME MA2 TRANSFORMER



No. R760 A new Acme transformer has just been introduced. This is a splendid instrument and it does justice to the slogan "Acme For Amplification." The transformer has a high amplification factor and it also amplifies the low notes and overtones.

MA2 **\$5.40**
 R760H Acme **\$2.70**
 H2
 Postage prepaid.

Samson Transformer



A new development of the famous helical wound transformer. The coil is extra large and the core is heavy and of fine grade iron. This type transformer insures perfect amplification without distortion. The tone is perfect and no sacrifice of volume is made. The entire transformer is hermetically sealed.

R761 6-1..... **\$4.25**
 R762 3-1.....
 R762A Sym- **7.65**
 phonic
 Postage 8c extra.

RAULAND LYRIC

No. R763 For music lovers. This transformer has been designed for perfect amplification. No portion of the musical scale is slighted, thus amplification of the low notes and the overtones are obtained. Reproduction is practically perfect.



Postage prepaid. **\$8.10**

ALL AMERICAN

All-American transformers are nationally known. They have been standard for years. Fully shielded and electrically perfect. Real amplification without distortion.

R764 3 to 1..... **\$4.05**
 R765 5 to 1..... **4.05**

R766 Push-Pull, per pair..... **9.00**
 Postage Prepaid.

Thordarson

Thordarson transformers are the standard for many manufacturers. They are excellent electrical instruments and the manufacturers stand behind them with years of experience. Amplification without distortion. Postage 8c extra.



Your Price
 R768 3½ to 1..... **\$3.19**
 R767 6 to 1..... **3.58**
 R769 2 to 1.....
 R770 Push-Pull, per pair..... **9.95**
 Postage 16c extra.

Harkness Reflex and Counterflex Coils

Especially designed for the Harkness Reflex circuit. These are quality coils. Silk wound on genuine bakelite tubing. Easily mounted on condensers.

No. R331A Pair of Harkness Coils..... **\$1.58**

Counterflex coils, same style as reflex as shown.

No. R331..... **\$2.48**
Postage 8c extra.

Claro Tuner

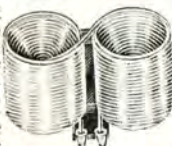


The new three-circuit tuner efficiently and easily controls regeneration. Ticker coil always fixed and closely coupled. Regeneration controlled by nationally known clarostat which is an integral part of the tuner. Resistance controlled regeneration is the very latest development. Approaches oscillation smoothly.

No. R332..... **\$3.95**
Postage 6c extra.

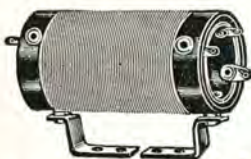
Benjamin Lekeless Coils

The latest product of the Benjamin Electric Co. These coils have a closed field, thus preventing magnetic or interstage coupling. They have no pickup and as they are efficiently constructed, great selectivity is gained. Practically self-supporting with losses reduced to a minimum. Close inductance relation insures tremendous amplification.



No. R333 Set of 3 matched coils for use with .00035 condensers..... **\$5.95**
Postage 10c extra.

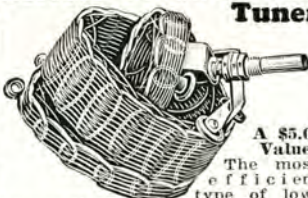
Solenoid R. F. Coils



The most efficient type of tuning coil is the Solenoid. Silk wound, bakelite, 1" diameter, 3" long. A real value. To be used with .00035 condensers with brackets for mounting.

No. R367 Per set of 3..... **\$2.95**
Postage 10c extra.

Selecto Three Circuit Tuner



A \$5.00 Value

The most efficient type of low-loss coil.

Bureau of Standards specifies loose basket-weave windings as ideal coil form. This type winding has least losses. Self-supporting. No losses. Pig-tailed. An exceptional offer.

No. R335..... **\$1.28**
Postage 8c extra.

Browning-Drake Space Wound Coils



Specified for the improved Browning-Drake circuit. The windings are on genuine bakelite, enameled wire, space wound. Highest grade of insulation and winding that is possible. Minimized distributed capacity and losses, producing greatest efficiency and amplification.

No. R336 Set of space-wound coils as described..... **\$4.25**
Postage 10c extra.

Basket Weave Coils



Low loss self-supported coils for radio frequency circuits. No dielectric losses. Minimized distributed capacity. Color coded primary and secondary. For use with .00035 condenser. Easily mounted.

No. R337 Set of 3 coils as pictured... **\$1.09**
Postage 8c extra.

Shielded R. F. Coils



The newest type of Solenoid Coils, fully shielded. Mounted inside of "can." Metal shield avoids intercoupling and adds to sensitivity and selectivity. Diameter is small. To be used with .00035 condensers. Leads plainly marked. This is the latest radio development for 5-, 6- or 7-tube sets. Our special offer.

No. R368 Set of 3..... **\$4.95**
Postage 10c extra.

Bruno 99 Tuner and 99 Radio Frequency Coil



Specified for the "Diamond of the Air" and other popular kits. Colored silk wire wound on quartzite glass rods imbedded in bakelite frame. Highly efficient and recommended. The tuner may be used wherever 3-circuit tuner is specified. For use with .0005 condenser. 99 Tuner and R. F. Coupler perfectly matched.

No. R339 No. 99 Tuner..... **\$4.38**

No. R340 No. 99 R. F. Coil..... **2.38**

No. R340A Bruno Short Wave Tuner. **4.38**

Postage 8c extra.

Aero Tuned Radio Frequency Coils



Wound on skeleton bakelite forms. Specified for the Aerodyne. Losses and distributed capacity reduced to a minimum. Efficient inductances and popular seller. For use with .00035 condenser.

No. R341 Set of 3 Coils..... **\$10.20**
Postage 10c extra.

Aero Short Wave

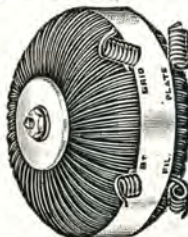


Plug-in space wound short wave inductances on skeleton form furnished with base. Covers entire low wave range. Covers range from 15 to 130 meters.

No. R342 Set of 3 Short Wave Coils... **\$10.57**
Postage 10c extra.

Little Giant Doughnut Coil

The newest development in toroid coils. Semi-bank winding. 1/2" in diameter. Self-supporting. Tunes with .00035 Condenser. Provided with bracket for convenient mounting.



Generally used in 5- or 6-tube sets. Sold in sets of 3. No. R366 Set of 3 coils..... **\$3.95**
Postage 10c extra.

Ambassador Type Tuner



R345 A splendid tuner carefully made to laboratory specifications. Wound on bakelite form. Adapted to any circuit where a 3-circuit tuner is

specified. Tuned with .0005 condensers.

R346 Variometer, same design as above. Postage 8c extra. **\$1.39**

Honeycomb Coil Plug



R454A Genuine Bakelite plug for mounting honeycomb coils on base or panel. Will fit all standard mountings. Postage 2c extra. **27c**

Fibre Coil Strap

For use with above plug for mounting unmounted honeycomb coils. **R1056** 2 ft. length... **12c**

Honeycomb Coils



Columbia honeycomb coils nationally known. Fits standard mountings. Moulded bakelite. Low distributed capacity.

No.	Price mounted	Un- Turns	No.	Price Mounted
R454	\$0.26	25	R463	\$0.68
R455	.29	35	R464	.70
R456	.31	50	R465	.72
R457	.35	75	R466	.75
R458	.40	100	R467	.79
R459	.42	150	R468	.81
R460	.80	1,000	R469	1.25
R461	1.33	1,250	R470	1.80
R462	1.55	1,500	R471	1.90

De Forrest Licensed Coil Mounting



Bakelite moulded. For honeycomb coils, long and short wave work. Popular with amateurs and short wave fans.

R136 3-Coil Mounting... **\$5.00**
R137 2-Coil Mounting... **3.50**
R138 Inside Coil Mtg... **6.00**
 Postage 5c extra. **\$1.58**
 Each.....

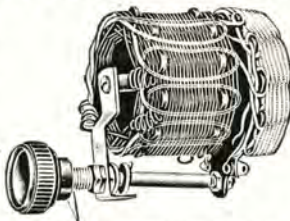
Gen-Win Lemnis Coils



No. **R133** The Lemnis coils are the latest development in coils of the closed field type. The field is entirely confined, thus there is no intercoupling or pick-up whatever. Specified for many popular radio frequency circuits. Selectivity not usually found in radio frequency circuits is obtained. Completely enclosed in green bakelite case.

Set of 3 in display box. Postage 10c extra. **\$8.95**

Special Three-Circuit Tuner



A self-supported 3-circuit tuner. Lowest distributed capacity. Losses minimized. This tuner is silk wound; exceptionally efficient. Single hole mounting. A \$4.00 value. Specially offered with our recommendation. **R347** Postage 8c extra **\$1.49**

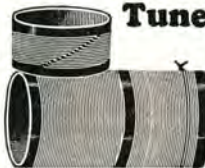
Sickles Diamond Weave Coils

Highly efficient coils practically self-supported. The small amount of dielectric used comes in contact with only small portion of coil. Sickles coils specified for Aristocrat and other circuits.



R130 Aristocrat Coils... **\$6.80**
R131 Roberts Coils... **6.80**
R132 Browning Drake Coils... **6.35**
 Postage 5c extra.

Cockaday 4-Circuit Tuner



The Cockaday 4-circuit tuner for all Cockaday receivers. Wound with double white cotton wire on fibre tubing. Complete parts for this circuit sold elsewhere in this catalog. **R347A** Postage 8c extra **\$1.78**

Postage 8c extra **\$1.78**

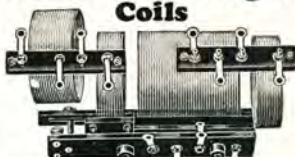
Thorola Coils

One of the lowest loss inductances. The enclosed field, the correct proportions and the new design make this the most desirable of doughnut type coils.



R133A No. 33 for use with .00035 variable condensers—sold in sets of 3... **\$4.95**
 Postage 10c extra.

Short Wave Plug-In Coils



Three interchangeable coils with adjustable primary. Covers entire short wave band from 20 to 200 meters. Most efficient form of space winding, practically self-supported. Simple to construct short wave receiver with these inductances. Coils are instantly interchangeable. Can also use coil covering range from 200 to 500 meters. A great demand for short wave receivers and kits. Much experimental and foreign broadcasting done on short waves.

SET OF THREE
R350 Plug-in coils with mounting 20 to 200 meters. **\$4.85**
 Postage 10c extra...
R134 Plug-in coil, 200 to 550 meters. Postage 8c extra... **\$1.58**

Naxon Toroid Coil

R135 A popular Toroid coil designed by engineers of repute. The properly distributed primary is in close inductance relation to the secondary, completely reducing losses. No intercoupling or pickup. Set of 3... **\$9.25**
 Postage 10c extra.



Postage 10c extra. **\$9.25**

Benjamin Tuned Radio Frequency Transformers

R351 The Benjamin radio frequency transformers are laboratory standard. They are self-supported, thus electrical losses are reduced to a minimum, yet they are rugged and mechanically perfect. Low resistance and distributed capacity. For use with .00035 condenser. Set of 3... **\$4.95**
 Postage 8c extra.

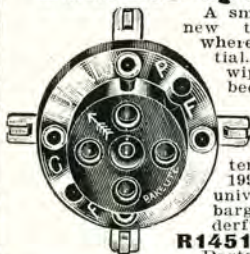


Uncle Sam Low-Loss Tuners



Three-circuit tuner, very selective. Windings red, white and green silk. Distance stations sharply tuned. Avoids much interference. Our special price offered on this low-loss tuner. **R350A** Used with .0005 condenser. Postage 8c extra... **\$1.65**
R350B Antenna coil used in some circuits with above tuner. Postage 5c extra... **86c**

Bakelite Special UX Socket



A small UX socket for use with all new tubes. Specially recommended where the saving of space is essential. Genuine bakelite with side wiping contacts. No socket noises because contacts are always firm.

An exceptional offer for a high-priced socket. UX sockets are specified for all of the new circuits. Solder Points extended. Will take all X-type 201A, 199 or any other tubes. Practically universal. A real bargain and a wonderful value.

R1451 Price
Postage 2c extra.

18c

Shaw Universal Socket



This universal socket is adapted to UX or UV tubes, and may also be used with UX 199 with the proper UX adapter. It features a snap contact which never loosens. It entirely eliminates tube noises caused by poor contact. Soldered direct to lugs which are an integral part of the springs. There are no losses.

R1452 Price
Postage 3c extra.

29c

Cutler-Hammer UX Socket



Cutler-Hammer is nationally known as manufacturers of high-grade apparatus. The UX socket is no exception. It is moulded bakelite with firm clip contacts. Specially priced. Nationally advertised. Contacts are silver.

R1453 UX Socket.....**48c**
R1453A 201-A Socket....**48c**
Postage 3c extra.

Hoosick

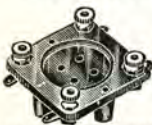
Universal Socket



A quality socket for UV or UX tubes of the storage battery type. May also be used with UX 199 with suitable UX adapter. Genuine bakelite. Phosphor bronze springs insure good contact. A genuine bargain.

R1454 Universal ... **35c**
R1455 199 Socket... **23c**
Postage 3c extra.

Hoosick UX Socket



The new Hoosick UX socket designed to accommodate all UX tubes. Genuine bakelite with firm contact. An exceptional value. Small, compact and easily mounted.

R1456 **30c**
Postage 3c extra.

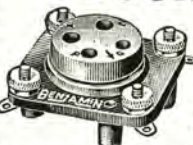
Remler UX Socket



The Remler socket is nationally known. It is compact and easily connected in any radio circuit. Moulded bakelite. Fits all UX tubes. Specified for many circuits. Quality merchandise; nationally known.

R1457 **38c**
Postage 3c extra.

Benjamin UX Cleartone Socket



Spring cushion suspension prevents tubes from becoming microphonic. For all UX tubes, also UV base tubes. Specified in the new circuits. Nationally known and advertised. A big seller.

R1459A UX Socket. **63c**
R1459 201-A Socket. **79c**
R1460 199 Socket...
Postage 3c extra.

Amsco UX Cushion Socket



The smallest cushion type UX socket made. An exceptional value. Genuine molded bakelite. Shock absorbing. Specified for the HFL 9-in-Line Super and many others.

Postage 3c extra. **79c**
R1461 Floating Socket... **39c**
R1461A Universal Bakelite Socket

Frost UX Socket

Square compact UX socket for all UX tubes. Splendid quality; nationally known. Genuine moulded bakelite. Phosphor bronze spring contact. An exceptional value. A special.



R1462 UX Socket..... **32c**
R1462A Frost 199 Adapter to make 199 tubes fit in 201-A Sockets..... **28c**
Postage 3c extra.

UX Adapter

Adapts UX 199 tubes to all standard and universal sockets. Genuine moulded bakelite. Perfect contact. A necessity. Special price.

R1463 **18c**
Postage 2c extra.



Naald Connector

An adapter for all uses. Makes possible the use of power tubes in any receiver without rewiring the circuit. Widely popular and a fast seller. Especially recommended to adapt UX 120 power tube in UX 199 socket, also for UX 112 and UX 171 to standard 201A sockets.

R1464 For UX 120 in 199 Sockets....
R1465 For UX 112 and 171 in 201-A Sockets **\$1.25**
Postage 3c extra.



B.-T. UX

Cushion Socket

The new B.T. rubber cushion socket protects tubes against jars. Tubes do not become microphonic and howl.

R1467A **63c**
R1467 B. T. Snubber Socket **84c**
Postage 3c extra.



Pacont UX Cushion Socket

Shock absorbing anti-capacity. Suspended on springs; prevents microphonics. Special construction reduces capacity between contacts to a minimum. No losses. Perfect contact. A big special. Bakelite moulded.

R1468 **48c**
Postage 3c extra.



Six-Gang Sub-Panel Socket Strip

Will take all standard and X-base tubes. Provides all connections below sub-panel. Sockets may be removed and strip used as template or drilling bakelite sub-panel. Size 1 1/2" x 1 1/2". For 5- or 6-tube sets. Easily mounted. For all X-type tubes. Postage 10c extra.

R1468A **\$1.45**

Sub-Panel Socket

Very compact. All connections made below sub-panel. Long positive, side-swipe contacts. Fits all standard base and X-tubes. Mounts with one screw. Moulded bakelite.

R1457A **13c**
Postage 2c extra.



Carter Rheostats



The nationally known Carter rheostats, Vernier control. One hole mount. Complete with knob. Smooth in operation and noiseless.

- R624 3 ohm.
- R625 6 ohm.
- R626 10 ohm.
- R627 20 ohm.
- R628 30 ohm.

\$1.47

Carter Potentiometer, 400 ohm.

\$1.69

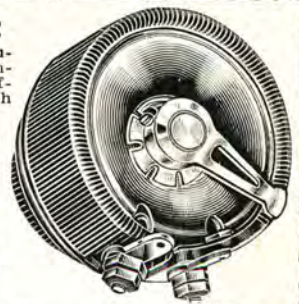
Stock No. R628A Postage 3c extra

Our Special Rheostat

A new departure in rheostat manufacture. Made of metal and fully insulated. Ruggedly constructed. Unaffected by heat and moisture. A smooth working rheostat of fine design at a special price. Noiseless in operation. Should retail for \$1.00. The last word in rheostat design. Made by largest rheostat manufacturer. Furnished complete with knob. Postage 3c extra.

- R629 4 ohm.
- R630 6 ohm.
- R631 10 ohm.
- R632 20 ohm.
- R633 25 ohm.
- R634 30 ohm.
- R635 40 ohm.

29c



Carter IMP Rheostat



The smallest efficient rheostat manufactured. Carter products are nationally famous. Smooth and noiseless in operation.

- R636 6 ohm.
- R637 10 ohm.
- R638 20 ohm.
- R639 25 ohm.
- R640 30 ohm.

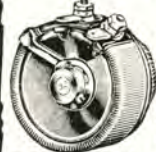
84c

R641 400 ohm Potentiometer.

\$1.05

Postage 3c extra

Frost Rheostats



The nationally advertised Frost metal rheostat. Carefully built, smooth operating and noiseless. Genuine nichrome wire.

- R642 6 ohm.
- R643 10 ohm.
- R644 20 ohm.
- R645 25 ohm.
- R646 30 ohm.
- R647 400 ohm Potentiometer

38c

59c

Postage 3c extra.

Cutler-Hammer Rheostat

Nationally known and advertised, this compact rheostat is very efficient and smooth operating. The new C. H. item.



- R648 6 ohm.
- R649 15 ohm.
- R652 30 ohm.

62c

Postage 3c extra.

Carter Midget



A high quality rheostat at a remarkably low price. The Carter midget rheostat is small and compact yet very efficient. Metal body. Newest design.

- R653 2 ohm.
- R654 6 ohm.
- R655 10 ohm.
- R656 20 ohm.
- R657 25 ohm.
- R658 30 ohm.

41c

R659 400 ohm Potentiometer.

63c

Postage 3c extra

Pacnet Rheostats and Potentiometers

Substantially constructed and smooth working. Has black knob with etched arrow. Will match most of the dials. Beautiful effect on the panel.



- R661A 2 1/2 ohm.
- R661 6 ohm.
- R662 10 ohm.
- R663 20 ohm.
- R664 30 ohm.
- R664A 50 ohm.
- R665 400 ohm Potentiometer

54c

Postage 3c extra.

Bradleystats

An adjustable non-inductive graphite disc resistor. Rheostat suitable for all tubes. Bradley-ohms provide stepless high resistances. Postage 3c extra.



- R616A Bradleystat \$1.81
- R617A 400 ohm Bradleystats \$2.96

Carter Hi-Ohm and Hi-Pot

A very desirable variable resistance for volume controls. Has gained much favor at present time because of its capability to reduce from an enormous volume to a mere whisper simply by turning a knob. Contact arm slides on protecting wires covering the special moisture-proof resistance element. Uniform electrical characteristics are assured. Hi-Pot is similar to Hi-Ohm in construction except for third terminal. It is used as a modulator, volume control, etc. Resistance 500,000 ohms.



- R636A Hi-Ohm \$1.68
- R637A Hi-Pot \$1.90

Postage 3c extra.

Pilot Rheostat

Bakelite moulded rheostat of finest quality. A special offer at an exceptionally low price. One-hole mounting. Postage 3c extra.



- R675 6 ohm.
- R676 10 ohm.
- R677 20 ohm.
- R678 30 ohm.
- R679 400 ohm Potentiometer

45c
70c

Daven Ballast

Made by the Daven Co., the famous resistance manufacturers. Automatically controls tubes without rheostats. Requires no attention. Complete including mounting. For 6-volts for 6-volts, 1/4-amp. tubes.



- For 201A Tubes: R666 1 | R668 3
- R667 2 | R669 4

85c

Postage Prepaid.



AMPERITE
REG. U.S. PAT. OFF.
The SELF-ADJUSTING Rheostat

An automatic filament control manufactured by the Radiall Co. Dispenses with rheostats. Furnished for all tubes. Controls tubes automatically and quietly. Specified for all circuits. Complete with mounting.

- R670 For 199 tubes, 4-volt.
- R671 For 199 tubes, 6-volt.
- R672 For 120 tubes, 4-volt.
- R673 For 201A, 200A tubes.
- R674 For UX112, UX171 tubes.

92c

Postage 3c extra.

VARIABLE RESISTANCES AND GRID LEAKS

C. R. L. Radiohm and Modulator



A variable non-inductive resistance for use in controlling oscillation in radio frequency circuits. Modulator is used in audio frequency circuit to modulate and control volume.

- R601 2,070 ohm maximum.
- R602 50,000 ohm maximum.
- R603 100,000 ohm maximum.
- R604 200,000 ohm maximum.
- R605 500,000 ohm modulator.
- Postage 6c extra..... **\$1.69**
- R606 400 ohm Potentiometer **\$1.53**
Postage 6c extra.
- R607 2,000 ohm Potentiometer **\$1.69**
Postage 6c extra.

C. R. L. Modulator Plug

For modulating and controlling loudspeaker volume. May be used in any set where jacks are employed. Bakelite moulded.



- R608 Postage 3c extra.. **\$2.19**

Poly Claroplug



A plug with a variable volume control. Recommended to protect loud speakers and d control volume.

- R609 Postage 3c extra.. **\$1.23**

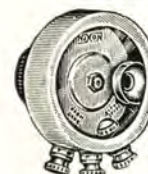
Tubular Grid Leak



A glass enclosed, fully sealed grid leak. Accurate resistances. A quality product. Our special price should enable you to move hundreds.

- R1026 1 megohm. Postage
- R1027 2 megohms. 1c extra.
- R1028 3 megohms. **15c**
- R1029 5 megohms.

Naxon Variable Resistor



Ideal for controlling oscillation, current control for both sets and battery eliminators as well as modulator. Gradual positive action secured by rolling contact. Roller enables very fine adjustment. Enclosed in metal shield with transparent mica on back. Complete with bakelite knob—one-hole mounting.

- R695 200,000 ohms.... **\$1.69**
- R696 500,000 ohms.... **1.69**

Clarostat



The nationally advertised Clarostat. Recommended for use in many circuits as a volume and oscillation control or modulator. Also specified for eliminators to control detector and intermediate voltages. The Clarostat has a variable resistance from 0 to 19 megohms. **R610**

- Postage 5c extra.. **\$1.89**

Bretwood Grid Leak



A variable grid leak of quality. Highly recommended for many standard circuits. Vernier control. Smooth and noiseless. With range from practically 0 to 10 megohms. A variable grid leak is an advantage in any receiver, increasing volume on distant reception and stabilizing reception for locals. **R611**

- Postage 3c extra.. **\$1.30**

Mountford Plunger Leak



A variable grid leak that may be mounted between the clips of any standard grid condenser. The resistance is varied with the plunger. **R612**

- Postage 3c extra..... **26c**

Eagle Plunger Leak



An efficient variable grid leak. Will fit in any standard grid leak mounting. 0 to 50 megohms. **R613**

- Postage 3c extra..... **48c**

Freshman Grid Leak



A nationally known and popular variable grid leak. Adjustment from 0 to 5 megohms.

- R614 Without Condenser..... **49c**
- R615 With .00025 Condenser..... **69c**
Postage 4c extra.

Resistance Mountings



- R1030 Single Mounting..... **14c**
- R1031 Double Mounting..... **26c**
Postage 2c extra.

Daven Leakandenser



A grid leak and grid condenser combined. The condenser capacity is .00025. Furnished in the following resistances:

- R1032 2 megohms
 - R1033 3 megohms
 - R1034 5 megohms
- 85c**
Postage 3c extra.

Micamold Grid Leaks and Resistors



Bakelite grid leaks molded under 50-ton pressure. Accurate and stay accurate. Not affected by moisture or temperature.

- R1035 .1—Special price. **51c**
- R1036 .25..... Postage 1c
- R1037 .5..... extra.
- R1038 1. **33c**
- R1039 2.
- R1040 3.
- R1041 5.
- R1042 10.

Bradleyleak



The nationally known Bradley variable grid leak. Smooth in operation. Pressure on graphite discs varies resistances. 1/4 to 5 megohms.

- R616 Without condenser..... **\$1.81**
- R617 With .00025 condenser..... **\$2.16**
Postage 4c extra.

Frost Variable Resistance

Non-inductive variable resistance and potentiometers. Enclosed in brass case with dust-proof cover. The latest in fine modulators.



- R618 50,000 ohms.
 - R619 100,000 ohms.
 - R620 200,000 ohms.
 - R621 500,000 ohms.
- POTENTIOMETERS
- R622 400 ohms.
 - R623 2,000 ohms. **97c**
Postage 6c extra.

Latest VERNIER DIALS

Bakelite Vernier



This is a bakelite vernier dial at an exceptionally low price that compares with the finest and most expensive dials manufactured. It is a smooth-operating friction dial with split pinion.

No gears, no backlash. Calibrated, clockwise and counter-clockwise. State which desired.

R1301

Postage 5c extra.

68c

Pacent Microvern



A fine vernier dial, ratio 5 to 1. Calibrations etched on metal plate. Furnished in silver or gold and clockwise or counter-clockwise. Specify which.

R1302 Gold.
R1303 Silver.

\$1.48

Postage 5c extra.

Tunerite S. L. F. Dial



The Tunerite dial will convert any old-fashioned condenser into a straight line frequency condenser. This dial on an old-fashioned receiving set will separate the lower wave length stations. Manufactured by the nationally known Radiall Co.

R1304 Clockwise.

R1304A Counter-clockwise

Postage 5c extra.

\$2.95

Kurz Kasch Aristocrat Dial

THE Kurz-Kasch Dials have well earned the name "Aristocrat of Dials." This new black, highly polished bakelite vernier dial is novel and beautiful in design. The vernier action is smooth and the reduction high, enabling extremely fine tuning. The popular friction method of reduction is employed, thus the movement is smooth without play or backlash. We predict this to be one of the most popular dials of the coming season because of its efficiency, of its simplicity and splendid appearance.

R1307 200 to 0.

R1308 0 to 200.

R1309 100-0-100.

Postage 5c extra.

\$1.54



Marco Illuminated Dial



The Marco Illuminated Dial is sensational. With exception of the small knob and window, the entire dial is mounted behind the panel. The calibrated scale is translucent. A small light is mounted behind the scale, illuminating the scale and reading through the window in the panel.

R1310 0 to 100.

R1311 100 to 0.

Postage 5c extra.

\$2.88

B. M. S. Vernier Dial



A new type vernier dial, bakelite moulded. The dial is oblong, with readings through the window. Logging space is provided in two additional windows. Fine adjustment.

R1312 0-100. Black.

R1313 100-0. Black.

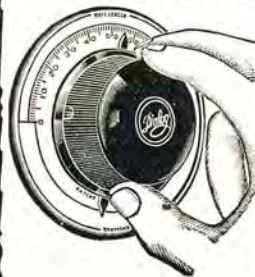
R1314 0-100. Mahogany.

R1315 100-0. Mahogany.

\$1.05

Postage 5c extra.

Dialog Vernier Dial



A logging vernier dial of fine adjustment. Readily mountable on any receiver. Equipped with two pointers working in unison. The upper pointer gives the calibration reading; the lower pointer is an indicator for the lower scale on which the broadcasting stations may be permanently logged in pencil. It is not necessary to drill holes in mounting this dial. No gears, no backlash. Clockwise and counter-clockwise — specify which.

R1305 Silver

R1306 Gold

Postage 5c extra.

89c

\$1.09

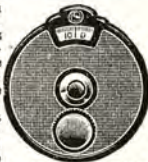
Samson Vernier Dial

The new Samson 360° Vernier Dial. Molded bakelite. Has friction drive. Calibrated clockwise from 0 to 200. This Vernier Dial can be used with the popular 360° condensers such as Remler, All-American and Signal Co.

Adaptable to any condenser with a clockwise motion. Can also be used for counter-clockwise condensers, but the readings on the dial will then be high on the lower end of the wave length range and low on the higher end of the wave length range. No backlash whatsoever. Fine, smooth Vernier reduction. Simplifies tuning. A nationally known quality product. Easy to obtain hairline adjustment. Beautiful appearance.

R1303A Postage 5c extra

\$2.12



Rathbun Dial

The new Rathbun Vernier Dial. Genuine molded bakelite, highly polished, ratio 12 to 1. Scale beautifully lithographed in dull white on metal. Graduated for both clockwise and counter-clockwise. One set of figures black, the other red.

No glare or shadows on scale. Easily read from any angle. Space for logging stations on dial. Friction drive. Smooth without backlash.

Applied with screw-driver. Unnecessary.

R1317A Black...
R1317B Walnut...
Postage 3c extra.

\$1.06



Karas Micrometric

A fine vernier, 63 to 1 ratio. Genuine black bakelite. Gold delay markings. No backlash. Will not wear out. A fine tuning control that is absolutely accurate. Calibrated in 200 divisions. Diameter, 4 1/4".

R1317 Postage prepaid.

\$3.50



Cutler-Hammer Toggle Switch



R485 A popular nationally known filament switch made by the manufacturers of high grade electrical apparatus. A flick of the switch turns receiver on or off. Equipped with

on-off panel plate.

Postage 4c extra.

49c

Cutler-Hammer Duty Switch

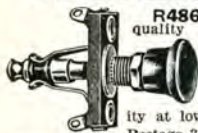


R486B Quick make and break connection by push-pull button inclosed in insulated, dustproof case. A standard switch of quality. One-hole mount.

Postage 3c extra.

48c

Push-Pull Switch



R486 A simple high quality filament switch. Makes perfect contact. No losses. Well insulated. Splendid quality at low price.

Postage 3c extra.

21c

Frost Gem-Jac



Compact Jack. Projects only 1 inch behind panel. Good contacts. Easily mounted. Used where space is limited.

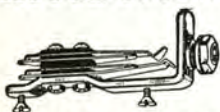
R487 Open circuit **29c**

R488 Double circuit **35c**

R489 Our special open circuit **14c**

R490 Our special double circuit **17c**

Frost Pan-Tab Jack



Frost Jacks have one-hole panel mounting or may be mounted on base or sub-panel. Sometimes used to support sub-panel. Wide, heavy spring with silver contact points.

R491 Single open circuit **42c**

R492 Closed single circuit **49c**

R493 Double circuit **53c**

R494 Single circuit filament control **55c**

Postage 3c extra.

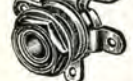
B. M. S. Short Jack



R491B Used where space is very limited. Fits standard plug. Single open circuit only.

Postage 3c extra. **15c**

Carter Short Jacks



Smallest jack made. Recommended for use where space behind the panel is limited. Well made and insulated. Perfect contact. Takes standard plug.

R495 Open circuit **18c**

R496 Closed circuit **22c**

Postage 3c extra.

Moulded Plug



R796 A special value. Finely made moulded plug. Contacts grip phone tips firmly. Perfectly machined.

Postage 3c extra. **18c**

Patent Auto Plug



R796B Very convenient and handy, finely finished bakelite plug. Press cord tips in place. Released instantly by pressing buttons.

Postage 3c extra. **28c**

Special Jack Offer



Finely made jacks. Phosphor bronze springs with silver contact points. Perfectly insulated. An exceptional offer of quality jacks at remarkably low prices. Easy soldering.

R497 Open circuit **19c**

R498 Single circuit closed **22c**

R499 Double circuit **24c**

R500 Single filament control **32c**

R501 Double filament control **36c**

Postage 3c extra.

Special Rotary Switch



One-hole mounting compact filament switch. Quarter turn makes or breaks contact. Bronze contacts. Perfectly insulated. A special offer in high grade Rotary switch. Equipped with On and Off name plate. Postage 3c extra.

R778 **24c**

Filament Lock Switch



R779 The most efficient and practical lock switch. Remove plunger and set cannot be turned on or tampered with. One hole mounted. Makes perfect contact. Fully insulated.

29c

Postage 3c extra.

Enclosed Filament Switch

R779B Special value in a battery panel switch. One hole mount. Enclosed contacts. Nicheed push-pull plunger. Nicel finished.

22c

Postage 3c extra.

Frost Tip Jack



R780 Frost Tip Jacks dispense with necessity for plug-in loud-speaker or phone output. Constructed to accommodate phone tips. A special. Postage 3c extra.

Per pair. **29c**

Two-Cord Plug



R4772B Well finished popular barrel type plug which will accommodate either one or two sets of tips.

28c

Postage 3c extra.

Carter Hold-Tite Jacks



Carter Jacks are known the world over for their efficiency. Easily mounted to any panel, regardless of thickness. Perfectly insulated. Heavy phosphor bronze springs. Do not lose their tension. Pure silver contacts. Tinned lugs.

R502 Open circuit **52c**

R503 Closed single circuit **60c**

R504 Double circuit **75c**

R505 Single filament control **67c**

R506 Double filament control **82c**

Postage 3c extra.

Carter Jack Switches



Jack switches have many uses. Recommended for battery and charging controls. One-hole panel mounting with knob and name plate.

R507 No. 2-2 springs, used as battery switch. **74c**

R508 No. 3-3 springs, opens one and closes one contact for switching from long to short aerials or reversing circuit. **86c**

R509 No. 4-4 springs, closes two contacts. Used for cutting in speaker. **97c**

B510 No. 6-6 springs, opens two and closes two contacts. Used to switch battery charger or loud-speaker on or off. Can also be used for cutting in power amplifier. **\$1.19**

Postage 3c extra.

Carter Imp Switch



R781 Finely made filament switch. Quarter turn, switches battery on or off. Perfectly insulated. Fine contact. Complete with name plate. Postage 3c extra. **52c**

Carter Lock Switch



R782 The same excellent filament switch equipped with key for locking radio set. Set cannot be used or tampered with when switch turned off and key removed. With three keys. Postage 3c extra. **58c**

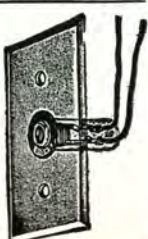
Wall Plate Jacks

Very attractive brush brass wall plate which will fit standard outlet box. Furnished either in single open circuit for parallel connection or closed circuit for series connection. Ideal for homes, apartments, etc.

R782B Single open circuit **75c**

R782C Single closed circuit **79c**

Postage 5c extra.

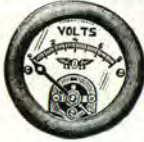


Jewell Combination Voltmeter Pattern No. 140



R117 Similar to pattern No. 55, but only 2" in diameter. Easier to mount. Overall size of flange 2 3/4". Double range readings 0-7.5, 150 volts. Postage 12c extra. **\$7.65**

Jewell Meters Pattern No. 135



Special small size rear mounting panel voltmeter. Diameter only 2". Narrow flange, overall diameter only 2 1/4".

R118 0-8 volts **\$5.95**

R119 0-100 volts **6.37**

MILLIAMMETERS
R120 0-25 Mill-amps... **\$5.95**
R120A 0-50 Mill-amps...
DOUBLE RANGE VOLTMETER
No. 135-B

R121 Provided with double scale and push-button switch for high and low readings. 0-7.5 volts, 150 volts. Postage 12c extra. **\$7.65**

Jewell Voltmeters Pattern 55

Same general construction as Pattern 53. Requires 2 3/8" hole.

R118C 0 to 8 volts, 3-point switch. For three circuits in one.

R119C 0 to 7.5 volts to 150 volts. For filament control, panel mount. A and B circuit.

Very popular. **\$8.95**

Postage 12c extra.

Carter Inductance Switch



Neater and more efficient than switch points and switch levers. Entirely self-contained. One-hole mounting. Silver contacts. Adjustable stop pins. Pig-tailed connection. Eliminates losses. Complete with new type dial.

R421 9-Point Inductance Switch **97c**

R422 15-Point Inductance Switch **\$1.15**

Postage 5c extra.

Carter Dial Lite



R423 Illuminates dial in front of panel. Equipped with self-contained switch and low amperage bulb. Panel mounting. 6 or 4 volts. With bulb.

Postage 6c extra. **\$1.39**

C. R. L. Modulator Plug



R608 Loudspeaker plug with knob for controlling and modulating volume. Recommended for all

receivers having jacks. Postage 4c extra. **\$2.19**

Four Phone Plug



R772 Four phone plug, well moulded. Four sets of phones may be inserted. Bakelite. Accommodates speaker. Postage 4c extra. **65c**

Flush Panel Mounting Meters



to check on batteries and filament voltages.

R123 0-8 volts **\$0.79**

R124 0-50 volts **.79**

R125 0-100 volts **1.19**

R126 20-0-20 amperes.... **.59**

Postage, 6c extra.

Sterling Panel Meters

Narrow rim type panel mounting voltmeters. Compact and neat appearing. Overall dimension only 2 1/8". Diameter of body, 2". Silver etched dial.



R127 0-8 volts. **\$2.78**

R128 0-150 volts. **\$2.78**

R129 Double range voltmeter with double reading and self-contained switch 0-7.5, 150 volts **\$3.95**

Postage 8c extra.

Jewell Pin Jack Meters Pattern No. 135-A



R122 Voltmeter with pin jack for plugging into Radiola, Brunswick, Victor and other sets. Has zero adjuster. Adjustable pins allowed for variation in spacing of jacks. 0 to 5 volts. Postage 12c extra. **\$6.37**

Carter Imp. Inductance Switch



A small, compact inductance switch, nickel-plated. Arm makes firm contact. No losses. Complete with pointer knob.

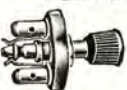
R424 3-Point **79c**

R425 7-Point **81c**

R426 9-Point **96c**

Postage 4c extra.

Frost Switch



R427 A compact, efficient battery switch. Firmly makes a and breaks contact. Exceptional low price for high quality apparatus. Post. **24c**

Postage 3c extra.

Bruno Pilot Light



R428 A new design in Pilot Light Switch. Light shows whether set is turned on or off. An addition to any receiving set. Easily installed on panel of any receiver. Without bulb **59c**

Postage 8c extra. Bulb 19c extra.

Hoyt Peep-Hole Meter

Very small and neat. Fits in 3/8" hole. Nickel finish. Front diameter 1 3/8".

R123C Ammeter, 0 to 1.2 amps. **\$2.42**

R124C Voltmeter, 0 to 6 volts. **\$2.42**

R125C Voltmeter, 0 to 10 volts. **\$2.42**

Postage 8c extra.

Carter Pilot Switch



R429 A battery switch which automatically indicates by red light when set is in use. Entirely self-contained. Single hole mounting. Nickel finish. Postage 6c extra. **\$1.10**

Postage 6c extra. **\$1.10**

Walbert Panel Lite



R430 A nationally known panel lite, illuminates dial and panel. Especially constructed reflector. Throws light directly on dial. Furnished in nickel or gold. Complete with bulb. Postage 5c extra. **79c**

R430A Gold **85c**

Carter Imp. Tip Jack

Small, compact phone tip jack. Eliminates binding post and plugs. Easy method of connecting phones or speaker. Phosphor bronze spring, 3/8" single hole mounting. **22c**

R431 **22c**

R431A Carter Imp. Plug **12c**

R432 Our Own Special Tip Jacks. **15c**

Postage, 2c extra.

Panel Light

For illuminating panel and meters. Nickel finish, single hole mount. Switch for controlling light.

R430C With 6-volt, 2-candle power bulb **55c**

Postage 4c extra.

De Jur Bakelite Plug



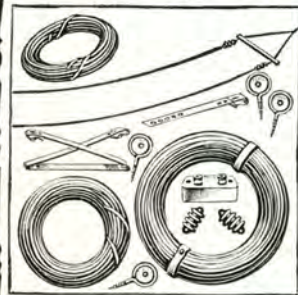
Our special plug offer. Polished genuine bakelite. Spring clips. No screws or clamping. The biggest plug value on the market. Thousands sold. Just insert tips of cord. Firm contact and easily released.

R773 Each **17c**

Postage 4c extra.

Antenna Equipment

Complete Aerial Kit



A complete aerial kit. Nothing else to buy. Includes 100 feet stranded copper wire, 50 feet lead-in wire. Approved lightning arrester. Strain insulators. Ground clamp, screw insulators and flexible window lead-in insulator. Completely packed and is an unusual value. Weather-proof wire. Makes erecting your aerial and connecting your ground wire simple and easy. This is a good quality antenna kit and consists of everything you require.

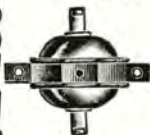
R304
Postage, 20c extra **\$1.87**

Approved Arrester



R113 Lightning arrester of porcelain air-gap type. Good value. Fast seller. Our special..... **19c**
Postage 3c extra.

Little Joe Lightning Arrester



R114 Air-gap lightning arrester. Protects receiver and home. Porcelain insulated and approved.

Exceptional value..... **82c**
Postage 6c extra.

Jewell Lightning Arrester



Jewell apparatus is nationally known. The lightning arrester is a quality product. Approved by Fire Underwriters Marked binding posts. Brown porcelain finish. Easily installed.

R115..... **62c**
Postage, 6c extra.

Rubber and Braided Lead-In Wire

No. 14 rubber and weather-proof wire, braid covered. Best quality. Boxed.

R317 25-foot rolls..... **30c**
R318 50-foot rolls..... **58c**
Postage 10c extra.

Micamold Lightning Arrester



Bakelite moulded. Unaffected by moisture or temperature. Compact.
R116..... **56c**
Postage 2c extra.

Aerial Pipe Mast Fittings

Pulley, collar and base of iron. Adjustable base. Will fit any pitch roof. Easy to mount. Efficient pipe aerial mast with these fittings. Postage 15c extra.



R319 Set of 3 pieces 1/2" pipe..... **92c**
R320 Set of 3 pieces for 1" pipe..... **\$2.35**
Shipping weight 12 lbs. Postage extra.

Antennella Socket Antenna

Screws into any light socket. Makes very satisfactory antenna for local and in many instances distance reception.

R115A..... **89c**
Postage 4c extra.

Bell Wire

Furnished in 50-ft. rolls per box. Cotton cover colored. No. 18 wire. Good quality and value.
R301 50 ft., each..... **39c**

Ground Clamp

A copper ground clamp for screwing ground wire to pipes. Positive and permanent contact. New code.
P302A
Postage 1c extra..... **6c**

Ekko Ground Clamp

A perfect ground clamp. Contact assured. Bites through paint and dirt into clean conductive metal pipe.
K303..... **21c**
Postage, 2c extra.

Stranded Aerial Wire

Consists of seven strands of No. 24 hard drawn copper aerial wire. Finest quality.



R313 100-ft. coil. Postage 10c extra..... **39c**

Stranded Enamelled Aerial Wire

Enamelled aerial wire is recommended by all authorities. Each strand insulated from others. Enamelled wire does not corrode or deteriorate.

R314 100-ft. coil, 7 strand. Postage 10c extra..... **49c**

Flexible Window Lead-In Insulator

Not necessary to bore holes to bring lead-in through window. The flexible insulator fits between window and sill. Contacts on each end.

R305 Postage 2c extra..... **12c**

Rubber Covered Lead-In Wire

Rubber covered lead-in wire is not affected by moisture. Perfect insulation. Thus no losses.

R315 25 feet. Postage 10c extra..... **28c**
R316 50 feet. Postage 10c extra..... **54c**

Twisted Lamp Cord

For connecting set to batteries, antenna, etc., also as aerial tacked to moulding in room. Consists of flexible stranded size 18 copper wire with rubber sleeve insulation, over which is a neat colored cotton braid.

R316A Double twisted wire, 25 feet..... **59c**
R316B 50 feet..... **\$1.10**
Postage 5c extra.

Effarsee Antenna

R312 An efficient inside aerial that can be hung up anywhere. Appears as a window curtain. Wires U.S.A.S. Contains hundreds of feet of wire and necessary condensers self-contained. Selective. Recd. static. Sensitive as an outside aerial. Does not radiate. Waterproof and unaffected by damp weather. An efficient inside aerial that is fast-selling.
Postage 10c extra..... **\$2.09**

Reel Aerial



Very efficient copper ribbon aerial, put up in reel form, similar to tape line. Provides 100' of reels in convenient form. Can be used either indoors or out.

R312A..... **\$3.95**
Postage 10c extra.

Loop Aerials

Tun-A-Loop



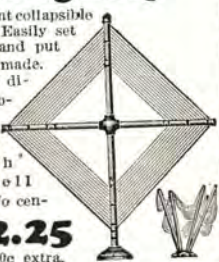
Selective because it can be tuned. A new development inductively coupled loop. Selective to a hair. Finely moulded bakelite base and frame. Perfectly insulated. Wound with silk-covered wire. Has swivel base. Used with any loop circuit. Small and compact only 16 inches high.

\$13¹²

R702.....
Postage 24c extra.

Folding Loop

R311 Efficient collapsible loop aerial. Easily set up or folded and put away. Well made. Selective and directional. Substantial frame windings of high quality. Well insulated. No center tap.



Price .. **\$2.25**
Postage 20c extra.

Ribbon Aerial

R306 Superior reception obtained with stranded ribbon aerial. Ribbon aerial has greater surface and less resistance. Increases wear. Radio energy received is minute; save it with an efficient aerial. Wonderful energy collector. Great surface area and flexibility. 107-ft. rolls.



Price, Each **\$1.19**

Postage 10c extra.

Porcelain Screw Insulators

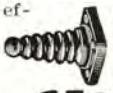


A handy insulator for keeping lead-in wire away from walls. Essential for the construction of an efficient aerial.

R324 Price, each **6c**
Postage 2c extra.

Stand-Off Insulator

R330 Used for efficient antenna installation. Porcelain; 4 inches long. Brown glazed.



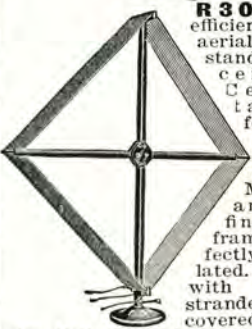
Postage 6c extra. Price, each **15c**

Midget Glazed Insulator



R326 Size 1" square x 2 1/4" long. Postage 1c extra. Price, each **3c**

Thomas Box Type Loop



R307 An efficient loop aerial for all standard receivers. Center tapped for Super-Heterodyne. Mahogany finished frame. Perfectly insulated. Wound with special stranded silk covered loop

wire. Collapsible. An exceptional value. Postage 24c extra. **\$4⁹⁵**

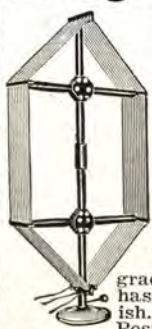
Latest Model Loop Aerial



R308 New type loop aerial. Beautiful in design and appearance. Very efficient. May be used with any loop circuit. Especially adaptable to Super-Heterodynes. Hand rubbed mahogany frame. Wound with silk covered genuine loop wire. Perfectly insulated. Collapsible. A special price on

this remarkable loop. Price each, Postage 30c extra. **\$4⁸⁵**

Hexagonal Loop



R309 A splendid, fine appearing loop. Carefully made. Adaptable to all radio circuits. Has eight taps, including center tap for Super-Heterodyne. Fully insulated with polished bakelite bearing strips. An exceptional high grade loop; has fine finish. Postage 30c extra. **\$7⁸⁵**

The Aalco Loop

These loops approved by leading authorities. Variable length range from 180 to 570 meters. Genuine walnut frame, metal parts, nickel brass, wound with 64 strands low resistance wire. Height folded 22", open 30". Weight, 4 3/4 lbs. Postage 30c extra.



R307B For use with .0005 condenser. **\$9.95**
R307C For use with .00035 condenser.....

Fiat Bank Wound Loop

R308B New 1927 bank wound loop. Solid walnut frame. Natural finish. Turns on 7" radius. Has center tap. 13 1/2" wide, 30" high. Weight, 3 lbs. Postage 30c extra.



\$10⁵⁰

Carter Imp Loop

R310 Compound progressive windings make this loop powerful and selective. It weighs but 1 lb. - 16" diameter. Very efficient and provided with center and quarter taps. Postage 20c extra.



\$6³⁸

Glass Insulators



R323 Everyone knows that treated glass is a most efficient insulator. The new glass insulators will stand terrific strain. Length approximately 4 in. Postage 2c extra. Each **12c**

Porcelain Strain Insulators

Universally used insulator. Fine quality. Strong and durable; 3 in. long. Postage 2c extra. R328 Price, each..... **4c**



Genuine Bakelite Panels

Genuine bakelite in glossy black, mahogany or walnut. Finest panel. Our enormous stock and buying capacity enables us to offer the very best in paneling at greatly reduced prices.

1/8-Inch Thick		Panel Size	3/16-Inch Thick	
Article No.	Each	Inches	Stock No.	Each
R1665	\$0.52	7x6	R1655	\$0.79
R1666	.82	7x9	R1656	1.15
R1667	1.17	7x12	R1657	1.67
R1668	1.32	7x14	R1658	1.83
R1669	1.37	7x18	R1659	2.32
R1670	1.52	7x21	R1660	3.90
		7x24	R1661	3.15
		7x26	R1662	6.22
		7x28	R1663	6.22
		7x30	R1664	3.90

Supplied in 3/16-inch only.

Bakelite for sub-panels will be furnished at square inch rate. Any size.

PANELS CUT TO YOUR SIZE

1/8-inch thick	1 1/2c per square inch
3/16-inch thick	2c per square inch

Postage 6c to 14c extra.

Goodrich Silvertown Panels

The finest quality hard rubber panels. Goodrich Silvertown standards. Nationally known. Nationally advertised. Perfect sizes. Non-warping. Each enclosed in genuine Goodrich Silvertown envelope. 1/8" thick. Postage 8c extra.

No.	Black	Panel Size	No.	Mahogany
		Inches		
R1671	\$0.78	7x12	R1678	\$0.92
R1672	.93	7x14	R1679	1.08
R1673	1.18	7x18	R1680	1.36
R1674	1.32	7x21	R1681	1.62
R1675	1.49	7x24	R1682	1.81
R1676	1.68	7x26	R1683	1.95
R1677	1.85	7x30	R1684	2.25

Postage 6c to 14c extra.

Baseboards

All standard sizes of wood baseboards. Well seasoned and dried. No capacity effect or leakage. Well stained. 3/8 to 1/2-inch thick.

R1685	6 1/2 x 5 1/2 in.	\$0.22
R1686	6 1/2 x 8 in.	.26
R1687	6 1/2 x 11 in.	.34
R1688	6 1/2 x 13 in.	.37
R1689	6 1/2 x 17 in.	.39
R1690	6 1/2 x 20 in.	.41
R1691	6 1/2 x 23 in.	.43
R1692	9 x 17 in.	.45
R1693	9 x 20 in.	.57
R1694	9 x 23 in.	.68
R1695	9 x 29 in.	.84



Postage
4c to 12c
extra.

Etched Dial Plate

R1329P For use with pointer knobs. Finely etched brass plate with accurate, sharp graduations. Easily mounted on any steel Bakelite or composition panel. Especially recommended for use with the Bakelite pointer knob illustrated above. Improves the appearance of your set. Aids tuning by its sharp, easily read scale. **33c**



Postage 3c extra.

Genuine Bakelite Dials

The finest and best looking Bakelite dial on the market. Genuine molded Bakelite. Beautifully finished with tapered knob, deeply etched enamelled calibrations accurately and sharply made. Finest quality. The finely finished milled and tapered knob just fits the fingers. Manufactured by one of the first Bakelite molders in the country. All dials matched. An extraordinary and wonderful value at our special price. For 1/4" shaft. Has long set screw. Furnished in either mahogany or black.



R1331	Black	13c
R1332	Mahogany	13c
R1329	Black	23c
R1330	Mahogany	23c
R1327	Black	31c
R1328	Mahogany	31c

Postage 4c extra.

Bakelite Tubing

Genuine Bakelite. For coil winding. Furnished in 3-in. lengths. All 1/16-in. wall. Inside diameter given.



R1333	Length	Each	R1335	Length	Each
R1333	2 in.	23c	R1335	3 in.	27c
R1334	2 1/2 in.	25c	R1336	3 1/2 in.	37c

Bakelite Pointer Knobs



Postage 3c extra.
R1337A Mahogany 26c

R1337 Genuine Bakelite pointer knob. A fine knob for sets having etched panels or dial plates. Genuine Bakelite milled with pointer. Finely tapered and milled knob. Fits 1/4" shaft. Pointer gracefully tapered and gold etched. Exceptional value. 2 3/8" diameter with 1/2" pointer. **23c**

Bakelite Pointer Rheostat Knob

Genuine Bakelite finely finished small pointer knob for rheostat or oscillation control. Matches the large knob illustrated above. The pointer is gold etched and the knob is finely tapered and milled. Improves set's appearance. Postage 3c extra.



R1337G	Black	18c
R1337H	Walnut	19c

Rheostat Knob

Genuine molded Bakelite rheostat knob with etched arrow pointer. Finely finished and polished. Finishes off the appearance of any panel. Postage 3c extra.



R1337D	Black	14c
R1337E	Walnut	14c

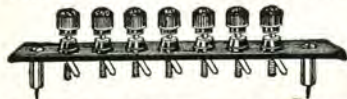
Adjustable Template

R437T Indicates the exact location for drilling holes in panel. Arms are adjustable to position and can be locked so that they will not get out of adjustment. Enables anyone to quickly and accurately locate holes for drilling. Indispensable to the set builder and amateur. Panel holes must be accurately located if set is to be pleasing in appearance and symmetrical. Postage 4c extra. **38c**



Eby Binding Post Strip

R1060S A strip of seven Eby binding posts having standard markings mounted on a polished binding post strip with nickel-plated brackets and wood screws. Packed in individual cartons. The Eby binding posts are all engraved and the tops cannot come off. Nationally known and recommended. Eby engraved posts should be a part of any set that you build. The Eby binding post strip assembly greatly simplifies installation. Postage 4c extra. **\$1.05**



Extension Plugs

R774 Bakelite Connector for speaker and extension cord. Will couple speaker and extension cord so that loud-speaker may be moved to any distance from set. Postage 3c. **19c**

Extension Cord and Plug

R775 Complete extension set. Plug will couple extension cord with loud-speaker. Loud-speaker should be kept away from receiver for best results. High quality 20-foot cord with Bakelite connector plug. Postage 7c extra. **69c**

Tools & Soldering Irons

Screw Drivers



Fine tool steel. Designed with narrow blades for radio use.
No. **R433** 2-in. blade.
No. **R434** 3-in. blade.
No. **R435** 5-in. blade.

Postage 2c extra..... **13c**

Stevens Adjustable Panel Cutter



No. **R436** A fine tool. Especially adapted to the cutting of large holes in bakelite or hard rubber panels. Adjustable from 1 1/2 to 6 in. diameter.

Easy to cut panel for meters, which are in universal use. Cutter may be used by hand or in carpenter's brace.
Postage 5c extra... **\$1.48**

Stevens Reamer



No. **R437** For enlarging holes in bakelite or rubber panels. Spiral fast cutting edge. Tool steel; will cut metal and wood as well as bakelite. Size 1/4 to 1/2 in.

Postage 5c extra... **\$1.29**

Reamer

No. **R438** For enlarging holes in bakelite panel. Good quality. Low price. List 25c.
Postage 2c extra... **21c**

Solderall



No. **R439** Simplifies soldering. Simply apply paste to any joint. Heat with a match or other weak flame and perfect soldered joint will result.
Postage 4c extra... **19c**

Set of Drills

No. **R440** Carbon steel drills for use in hand drill. Four drills. Sizes 4-36, 6-32, 8-32, 14-20. These are the only sizes that are necessary for radio set builders. Set of four.
Postage 3c extra... **42c**

Rosin Core Solder

Best rosin core solder. Universally known and used. Virgin tin and lead solder with rosin core. Not necessary to use solder paste, flux or acid. The only solder recommended for radio use. Non-corrosive.

No. **R442** Price per 1/4 lb. Postage 3c extra... **21c**

Little Devil Soldering Iron



Our special soldering iron. A splendid electric soldering iron. Has copper, removable tip. Shaped especially for radio work. The heating element is exceptionally efficient with long life. The tip is shaped for coarse and fine work. Tip is replaceable. For 110 volts.

No. **R1909** Postage 6c extra... **95c**

Hand Drill



No. **R444** Fine quality drill for radio use. Handy tool for radio builders. Takes all size bits up to 1/4 in.

Postage 10c extra... **\$1.10**

Electrahot Soldering Iron



Guaranteed soldering iron. This iron is guaranteed for two years. Used on 100 to 120 volts. Iron replaced if it does not give two years' service. Heavy duty iron equipped with two tips for coarse and fine work.

R1910 Special value. **\$1.69**

Postage 8c extra... **\$2.25**

R1911 Heavy duty iron. Postage 12c extra.

American Beauty Soldering Iron



No. **R1912** Famous nationally known soldering iron for home and shop use. Laboratory standard iron that has stood the test of time. Medium size tip for light and medium duty work. 3/8-in. tip. 12 1/4-in. long. Nationally known iron.
Postage prepaid... **\$8.00**

Radio Soldering Set

No. **R1913** Soldering accessories necessary to every dealer and radio set builder. Outfit contains forged copper soldering iron, Speco sal-ammoniac to keep iron clean, Speco paste for flux, small rosin stick for use in small places, emery paper for cleaning surface and complete soldering directions.
Postage 5c extra... **83c**

Long Nose Side Cutting Pliers

No. **R445** Double duty pliers. Long, flat nose, reaches into inaccessible corners. Side cutting.
Postage 6c extra... **44c**



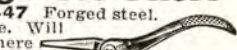
Diagonal Cutting Pliers

No. **R446** Nippers for close cutting. Especially adaptable to radio work, for cutting stray wire ends after soldering and all other wire cutting. Fine tool steel.
Postage 6c extra... **48c**



Long Nose Pliers

No. **R447** Forged steel. Slim nose. Will reach where space is limited. You will need a pair of these handy pliers. Tool steel. A radio necessity.
Postage 6c extra... **44c**



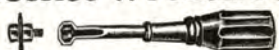
Crow Bill Pliers

No. **R448** Forged steel. S e m i - r o u n d nose. Perfect eyelets can be formed. Slim nose reaches into inaccessible places.
Postage 6c extra... **39c**



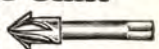
Socket Wrench Set

No. **R449** This set of five sockets saves hours of labor. Will fit 1/4, 3/8, 1/2, 5/8, 3/4 inch. Will reach into small, crowded spaces. Postage 3c extra... **69c**



Counter-Sink

No. **R450** It is necessary to counter-sink holes for appearance and efficiency. Counter-sink fits standard hand drill.
Postage 3c extra... **23c**



Automatic Blow Torch

No. **R451** Self-blowing alcohol torch. Simply fill with alcohol and light. It generates its own pressure. Blows long, hot, intensive flame. Handy for all soldering and is a necessity for all outside work.
Postage 5c extra... **98c**



Rosin Core Solder Sticks

No. **R443** Rosin Core Solder. The flux is in the core of the solder. Best for radio connections. Requires no flux.
1/4 lb. Postage 2c extra... **21c**

Miscellaneous Essentials

Colored Spaghetti Bus Bar Covered Wire

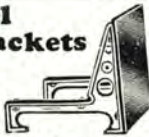
Color coded bus bar now used extensively. No. 14 hard drawn copper wire tinned for soldering. Spaghetti covered. Assorted colors. 2½-foot lengths.

R897 Black.....	Your price per length ... 9c 5 lengths. 43c Postage 1c extra per length.
R892 Yellow.....	
R893 Red.....	
R894 Green.....	

Panel Mount Brackets

No. R401

Cast aluminum brackets for mounting panel and sub-panel. Substantial and durable. Simplifies construction. Postage, 6c extra.



\$1.19

Wire Connectors



No. R1001 Simplifies connecting, eliminates soldering. T or double connection simplified. Positive resistance-less contact.

Per Dozen..... **89c**
Postage 2c extra.

Flexibus

Flexible colored hook-up wire, popular with set builders. Simplifies construction, increases efficiency with shorter leads. Color coded. Use different colors for filament, grid and plate circuits. In rolls of 25 feet.



R402 Black.....	68c
R403 Yellow.....	
R404 Red.....	
R405 Green.....	
R406 Brown.....	

Per Roll.....
Postage 5c extra.

Magnet Wire



Double cotton-covered magnet wire of high quality. White. Eliminates dielectrics. Furnished in one-half pound spools.

No. Gauge Price	Your	No. Gauge Price	Your
R407 14.....28c	Postage 8c per spool.	R412 24.....45c	
R408 16.....30c		R413 26.....54c	
R409 18.....32c		R414 28.....65c	
R410 20.....34c		R415 30.....92c	
R411 22.....38c		R416 32.....1.15	

Flat Washer

No. R1002 Nickel brass washer. High quality.

R1002A Price Per Dozen..... **5c**
R1002 Price Per Gross..... **27c**

XL Binding Post Strips

Polished strip with seven XL nickel plated push posts. Excellent, efficient and convenient posts. Push down head of post, insert wire or phone tip, cannot jar loose. No screwing. Posts standard marked. Postage 5c extra.

R1346..... **\$1.29**



Bus Bar Wire

Hard drawn copper wire, tinned for soldering. No. 14 gauge. Square or round. Two-foot lengths.

No. R895 Square, 10 lengths.....	Your Price
R897 Round, 10 lengths.....	\$0.17
R897A No. 12 Bus Bar Wire, 10 lengths.....	.16
Postage, 10 lengths. 3c extra.	.20

Flexible Spaghetti

A high grade cambrie tubing. Thoroughly impregnated, with insulating varnish. Highest quality. Supplied in black, yellow, red and green, in 30-inch lengths.

No. R829 Black.....	Per 30 inch length 9c 5 lengths..... 43c Postage 1c per length.
No. R830 Yellow.....	
No. R831 Red.....	
No. R832 Green.....	

Benjamin Brackets

Panel and subpanel mounting brackets. Brass. Simplifies mounting of panel and subpanel, also furnished in adjustable type for mounting sloping panel at any angle.

R417 Upright, Per Pair.....	59c
R418 Adjustable.....	\$1.07
Postage, 5c extra.	

Switch Points and Stops

Nickel plated brass switch points. Well designed and high quality.

R1005 Switch Points, Special price, Your Price, Per Dozen.....	11c
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Switch Lever

R419 Finely machined switch lever. Sloping arm. Nickel bronze. Makes perfect contact. Easily mounted..... **12c**
Postage 2c extra.



Fahnestock Connector

Single and double connectors. Nationally known and approved. The same type connector nationally adapted for "B" battery use. Makes perfect contact.

R1003A Per doz., Single Connector. Your Price.....	16c
R1007 Per doz., Double Connector. Your Price.....	38c
Postage per doz. 2c extra.	

Angle Brackets



R420 Metal brackets for mounting binding post strips, inductances, etc. No. 1508 is 3 in. long. No. 1507 is 1x1 in. No. 1505 is 5x1½ in. Thickness of metal 1-16 in. Specify style wanted. Nickel plated. Your price, each..... **5c**

Marco Miniature Switches

Small reliable switches. Neat and compact. Neat enough for panel or base-board mounting. Nickel plated arm and contacts. Base and handle hard rubber.

Single throw 1½" long.....	Your Price, Each..... \$1.10
Double throw 2½" long.....	
R1340 Single Pole, Single Throw.....	
R1341 Single Pole, Double Throw.....	
R1342 Double Pole, Single Throw.....	
R1343 Double Pole, Double Throw.....	
R1344 Triple Pole, Double Throw.....	

Postage 4c extra.



Machine and Wood Screws

Polished nickel plated brass screws. Five styles of screws universally used by radio set builders. Postage on all screws 2c per doz. and 5c per gross.

Round Head Wood Screws

No. R1008 ¾ in.....	10c	45c
R1009 ½ in.....	12c	53c
R1010 ⅜ in.....	14c	55c

Oval Head Wood Screws

No. R1011 ½ in.....	10c	55c
R1012 ¾ in.....	14c	60c

Round Head Machine Screws

No. R1013 ½ in.....	8c	42c
R1014 ¾ in.....	9c	
R1015 1 in.....	10c	

Postage 2c per doz.

Flat Head Machine Screws

No. R1016 ¾ in.....	8c	45c
R1017 ½ in.....	10c	
R1018 1 in.....	12c	

Oval Head Machine Screws

No. R1019 ¾ in.....	9c	48c
R1020 ½ in.....	11c	
R1021 1 in.....	13c	

Copper Lugs and Connectors

R1022 Nickel Phone Tips, Per Dozen.....	12c
R1023 Tinned Solder Lugs, Per Hundred.....	45c
R1024 Per Thousand Lugs.....	\$1.95
Postage 2c per hundred.	

Hexagon Nuts

Nickel plated brass. Chamfered and counter-sunk for close assembly. For 6-32 and 8-32 thread.

R1003 6-32, R1004 8-32, Per Dozen.....	8c	52c
Per Gross.....		

XL Push Posts

Sure contact binding posts. Serviceable and convenient. Push top, insert wire or phone tip; cannot jar loose. Makes perfect contact. Easy to connect or disconnect. Furnished with lugs and following markings: Ant., Gnd., Phones, Speaker, A-, A+, B, C-, C+, Loop. R1345 Each..... **11c**
Postage 1c extra.



Loop Wire

Flexible Loop Wire, consists of 60 strands No. 38 wire with 5 strands No. 38 tough and flexible. Will not stretch. Designed for loop antenna. Covered with cotton and additional outer covering of colored imitation silk. Furnished in spools of 125 ft. Just enough with a little to spare for any standard size loop.

R1347 Postage 5c extra. **\$1.33**

Miscellaneous Essentials

Carborundum Detector

R472 Specially selected sensitive carborundum crystal detector. Sealed unit. Permanently sensitive. Recommended for reflex circuits or wherever crystals are used.
Postage 5c extra. **\$1.34**

Carborundum Stabilizing Unit

R473 Revolutionizes crystal detectors. This crystal detector is always under control. As easy to control as a vacuum tube with a rheostat. Operates with flashlight cell at peak of efficiency. Full control of oscillation. Replace old crystal with carborundum stabilizing unit and realize full efficiency from any circuit. Requires small flashlight cell.
Price without cell..... **\$3.15**
Postage 10c extra.

Nixon Fixed Crystal

R474 Sensitive fixed crystal detector. Ideal for reflex circuits.
Requires no adjustment..... **75c**
Postage 3c extra.

Mounted Crystals

R475 Silicon, Galena and Carborundum combinations. Complete surface is sensitive. Thoroughly tested. Packed in protective box..... **12c**
Postage 3c extra.

Unmounted Crystals

R476 Genuine Galena crystal, unmounted. Six sensitive slides. For all crystal and reflex sets..... **4c**
Postage 3c extra.

Peacen Crystal

R477 Glass enclosed crystal detector. Does not get out of adjustment. Semi-fixed and adjustable by small knob. Mountable on panel or baseboard. An efficient, sensitive, tested crystal..... **97c**
Postage 3c extra.

Binding Post Strip

R482 Strip for mounting Eby or our special binding posts. 7x1" long. Drilled for five posts..... **13c**
Postage 2c extra.

Vernier Knob

R479 An easily mounted knob that makes any dial a vernier dial. Reduces the movement of dial for fine, accurate tuning. Adaptable to any dial..... **12c**
Postage 2c extra.

Dial Marker

All bakelite dials need an indicator. Dial marker makes accurate tuning and close adjustment possible. Simply drill hole above dial and mount the marker. Polished nickel-plated.
R4057 Set of 3..... **14c**
R4058 Per dozen..... **48c**
Postage 2c extra.

Porcelain Knife Switch

Heavy copper blade and contacts. Insulated handle. Porcelain base. Screw terminals. Superior for antenna grounding switch or battery charging switch.

R1320 Single Pole, Single Throw. Each..... **15c**
R1321 Single Pole, Double Throw. Each..... **23c**
R1322 Double Pole, Single Throw. Each..... **25c**
R1323 Double Pole, Double Throw. Each..... **39c**
Postage 5c extra.

Jones Multiplug

Instantly connects or disconnects batteries, aerial and ground from any receiver. Single plug connects all batteries and antenna and ground. Plug and socket are keyed, positively preventing possibility of connecting batteries improperly and burning out tubes. Eight-foot, seven-cord cable. Each cord individually marked.
R1324 Plug and eight-foot cable with binding post socket..... **\$4.19**
R1325 Plug and cable with base mounting socket..... **\$3.78**
R1326 Plug and cable with panel mounting socket..... **\$3.35**
Postage 10c extra.

Bakelite Binding Post Strip

R1059 Five marked binding posts and mounted on to 7x1 inch bakelite strip. Soldering lugs connected to binding posts. Terminals readily accessible. Binding posts marked A+, A-, B+, B-, B+ detector. Equipped with holes for mounting. **24c**
Postage 3c extra.

Radio Insulating Cement

R480 Used to hold wire coils when wound on form. Holds windings in place. Also used for self-supported coils. Dries quickly and forms a stiff, hard film. Splendid insulator and free from capacity effects..... **19c**
Postage 5c each.

Pandora Crystal Set

R952 Nationally known for years, the Pandora crystal set is efficient, compact and distinctive appearing. Simple adjustment. Covers entire broadcast band, 20 to 30-mile range. Long ear for super-power stations. Crystal reception has perfect tone quality, no distortion.
Postage **\$1.43**
8c extra

R952A Crystal set, complete with aerial and ground equipment, quality head phones.
Your Special Price..... **\$4.95**
Postage 15c extra.

Eby Ensign Binding Post

Patented. Non-removable tops. Top unscrews sufficiently far for wire, lug or phone tip insertion and connection. Bakelite engraved top. Complete with nut and lugs. Postage 2c extra.
R1060 Plain.
R1061 Antenna.
R1062 Ground.
R1063 A +.
R1064 A -.
R1065 B +.
R1066 B -.
R1067 B + Detector.
R1068 B + Amplifier.
R1069 B + 135 Volts.
R1070 Loop.
R1071 C +.
R1072 C -.
R1073 Phones.



Price **12c** each
Lot of 10 **11c** each

Lettered Binding Posts



R481 Our special engraved binding posts. Highly polished. Fit all panels and sub-panels. Improve appearance and efficiency of receiver. Simplify connections. Set of eight. A+, A-, B+, B-, aerial and ground, two phones.
Per set..... **28c**
Postage 4c extra.

R. W. Crystal Detector

R478 Variable self-adjusting crystal detector, fully enclosed in bakelite case, complete with sensitive tested crystal. Easily adjusted with small knob, metal parts nickel finished.
Postage 3c extra. **\$1.17**
Special Price.....



Screw Assortment

R483 A box assortment of essential radio hardware. Consists of wood screws, machine screws, nuts, washers and lugs in the various sizes needed for assembling a radio receiver.
Postage, 3c extra. **32c**



Socket Plug

R484 A two-piece socket plug for screw or wall socket outlet. Essential for plugging in on electric light line for a power unit or eliminator. A well made two-piece socket at a special price.
Postage 2c extra..... **8c**





R1922 Type 275
Postage 20c extra. **\$3¹⁰**

Jefferson Tube Rejuvenators

201A and 199 tubes may be successfully rejuvenated when they lose their pep after months of constant use. An old tube reactivated will give the same excellent service as a brand new tube. Burned-out tubes, however, cannot be rejuvenated.

Rejuvenation doubles the life of any 199 or 201A tube. Paralyzed tubes can be brought back to their former efficiency after rejuvenation.

The new model No. 275 rejuvenator is designed to rejuvenate all of the tubes in the radio set at one time, without removing any of them. The rejuvenator has no sockets. It is connected to any radio receiver and alternating current, 110 volt, 50-133 cycle light line, and it will rejuvenate all of the tubes in the set at once, regardless of what kind they are.

R1923 With socket for 201A tubes only **\$3¹⁰**
R1924 With socket for 199 tubes only **\$3¹⁰**
Postage 20c extra.

Jewell Home Tube Checker

For radio owners and dealers. Tests all type tubes. It is a simple matter to test any tube with the Jewell tube checker. Essential for radio owners and amateurs to determine the tubes' condition. Jewell products nationally known. High quality apparatus. Accurate. Complete with cord, plug, adapter.

R1931 Postage **\$11¹⁹**
10c extra.....



Jefferson Tube Checker

Everyone needs a tube checker to determine the condition of tubes and the need for rejuvenation. An efficient tube checker at an extremely low price. Complete with instructions. **\$5²⁵**

R1925 Postage 10c extra.....

Hemco Tube Rejuvenator

May be used on direct or alternating current.

Increase the life of 199 or 201A tubes many fold. Vitalizes old, worn out tubes. Any tube that has given months of service can be brought back to its original efficiency in a few minutes' time. Will bring back paralyzed tubes. Every radio owner and amateur needs a tube vitalizer.

R1929 For 201A tubes, **\$2⁴⁵**
R1930 For 199 tubes, **\$2⁴⁵**
Postage 10c extra.



Sterling Home Tube Tester

A tube tester that anyone can use. Admirably adapted for home use. Shows the condition of any 201A or 199 tube. Everyone should own a tube tester. Tubes often light but fail to function properly. It is then difficult to determine the source of trouble in the radio receiver. The tube tester enables anyone to instantly check up on all tubes.

R1926 Postage 10c **\$6²⁰**
extra



Sterling Tube and Battery Tester



Every amateur set owner should own a universal tube and battery tester. Tubes should be checked at regular intervals to determine when to rejuvenate them. Tests all type tubes. Also checks up filament and plate "B" voltages. An accurate quality product.

R1927 **\$15⁹⁵**
Postage 20c
extra.....

2-Dial Essential Kit

Radio Frequency Essential Kit with Only Two Controls



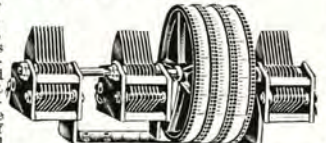
For five and six-tube radio frequency receivers. Two control kits are in great demand. Highly efficient.

Consists of one single low-loss condenser and one two-gang low-loss condenser with three high quality low-loss solenoid inductances. The coils are small and are of finest quality. The two-gang condenser is worth \$10.00 and the single condenser is a \$4.50 value. **\$6⁶⁵**

Our big offer. Thousands will be sold. Quality apparatus at an astounding low price.
R1928 Postage 20c extra.....

Localized Control Condenser Unit

An entirely new principle in condenser control. A set of three low-loss finest quality condensers constructed on one frame. A set of three drums calibrated allows for the individual control of each condenser or all three as a unit.



The three condensers may be controlled as one unit or individually as desired. All three condensers are instantly controlled with one hand. The only efficient method of simplifying condenser control. This method has been adapted in many factory built receivers and has proven remarkably efficient and successful.

Presents a remarkably pleasing panel appearance. Drums are calibrated and spaced for logging. Each drum may be moved individually from all others. The condensers are of the finest quality. Losses entirely reduced to minimum. Makes up a beautiful set.

A remarkable and revolutionary development.
R1932 Triple Condenser Unit **\$7.95**
as pictured

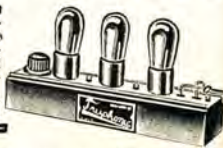
R1932A Double Condenser Unit. **\$6.40**
Postage 10c extra.....

Na-ald Truphonic Amplifier

Truphonic amplification is a radically new development. It differs from all other types of audio frequency amplification, adding the advantages of all types without the disadvantages of any.

VOLUME AND TONE
Enormous volume is secured with this three-stage amplifier with remarkable realistic reproduction. The tone quality is natural without distortion. Amplification is equal at all frequencies. No portion of the musical scale is sacrificed.

R1933 **\$16⁹⁵**
Postage 10c
extra.....



Bargains in Last Minute Specials

PACENT Battery Cord Plug

Five-contact battery cord plug and socket. Instantaneously connects or disconnects all batteries from receiver. Plug and socket are keyed in such a way that batteries cannot be connected improperly.

R797 **\$1.19**
A special offer. Postage, 3c extra.

EZ PLUG

Genuine Bakelite. A special value. New and improved design. Phone tips are instantly connected to this plug. No set screws. A tremendous value. Fast and profitable seller.

R798 **23c**
Postage, 2c extra.

Lamp Cord Connector

For lamp cord extensions. Quickly makes or breaks contact. Used for coupling two lengths of lamp cord. Easy to install and connect.

R799 **28c**
Postage, 3c extra.

Adapters

It is difficult to obtain tubes for some of the older receivers. Bakelite adapters enable the use of new type tubes in old receivers.

R1469 For UX tubes in UV199 Sockets **63c**
Postage, 3c extra.

R1470 For UX tubes in WD11 Sockets **47c**
Postage, 3c extra.

2 and 3 Way Plugs

Used for connecting eliminator, "A" power unit, or both, to light circuit and also connect electric lamp to the same socket. Two and three way plugs make convenient outlets. Screws into any light socket.

R1471 Two Way Plug **38c**
R1472 Three Way Plug **47c**
Postage, 5c extra.

Lead-in Connector

For connecting lead-in to aerial. Simplifies aerial installation. Easy to connect lead-in to aerial with this connector without necessity of soldering. This item will be a big seller.

A special offer. **10c**
R515
Postage, 1c extra.

Frost Bakelite Rheostat

Genuine molded Bakelite rheostat. Smooth in operation. Perfect control. No losses. Disperses with noisy rheostats and substitute a quality product. Complete with knob.

R690 6 ohm }
R691 10 ohm }
R692 20 ohm }
R693 30 ohm } **58c**
Postage, 5c extra.

Dialite Lamp



The Dialite lamp is only 5" high and is beautifully finished in gold. Placed on top of your radio set and connected with your battery, it will light up the panel of your set without causing glare in any way. Fully shields the light from your eyes and yet furnishes plenty of light for tuning and adjusting your set. Has weighted base and 3 ft. cord.

The Dialite lamp connects with your 6-volt storage battery. It is furnished with bulb complete. Has adjustable arm and shade. Beautiful in appearance. Light and portable, it can easily be moved. Beautiful and distinctive in appearance. A necessary addition to any set.

Postage, 9c extra.

PRESS-TO-FEED Soldering Iron



A unique arrangement that simplifies soldering. Enables anyone to apply iron and feed the solder with one hand. Fully patented. A press of the thumb on button feeds solder direct to tip of the iron and work. Used with rosin core solder sticks. No acid or flux need be used.

Iron has microwire wire heating element. A quality product throughout. Design of tip allows for fine or coarse work. New and revolutionary. A big convenience to any set builder or amateur. Anyone without experience can solder neatly and efficiently with this new iron.

R1935 **\$2.90**
Postage, 8c extra.

Steinite Eliminator

For eliminating interferences and sharpening the tuning of your radio receiver the Steinite eliminator is efficient and a necessity. Scientifically constructed, it greatly increases selectivity in any receiver. May be used on any set with an aerial. Enables you to tune out interfering stations with ease. Quickly and simply installed. If your set tunes broadly you need an interference eliminator.

R976 **89c**
Postage, 5c extra.

Muter Interference Eliminator

Increases selectivity and sharpens tuning of any radio receiver. Encased in black molded Bakelite. Only 3 1/2" in diameter. Enables you to tune out powerful local and nearby broadcasting stations in order to tune in the distant stations. Sharpens tuning and increases selectivity to a state of perfection. Will improve your set manifold. Correct your set if it tunes broadly by adding the Muter interference eliminator. It will also reduce "static" caused by local electrical defects.

R977 **\$2.15**
Postage, 5c extra.

All American Reflex Transformers

Self-tuned transformers. Highly recommended for reflex circuits. Manufactured by the famous All American Corp.

R786 Type R 201A, for Reflex receivers with 201A tubes.
R787 Type R 199, for Reflex receivers, with 199 tubes. **\$3.60**
Postage prepaid.

Walbert Penetrola

Add a stage of tuned radio frequency to any receiver. Increase the volume of all signals. May be added to any receiver. Incorporates the Walbert Isorad Circuit. The addition of a Penetrola is comparable to adding two stages of radio frequency. Entirely eliminates reradiation.

K354 Shipping wt. **\$29.50**
15 lbs. Complete.

K355 Penetrola essential kit without cabinet. **12.95**
Shipping weight, 12 lbs.

Battery Lead Tags

Tags for marking battery wires. In great demand. All battery leads should be properly tagged.

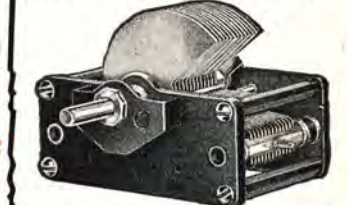
Set of 14, marked Ant., Gnd., A-, A+, B-, B+, B+ det., B+ amp., C-, C+, B+ 22 V., B+ 45 V., B+ 90 V., B+ R. F.
R1116 Price per set **12c**
Postage, 2c extra.

Battery and Ground Clamp

Clamps on any 1-inch pipe or smaller. Positive contact. Bites into metal. Eliminates dirt or corrosive connection. Also a perfect clamp for A battery terminals.

R516 Price, Two for **17c**
Postage, 3c extra.

AMSCO S. T. L. Condenser



Straight Tuning Line Modified S. L. F. Allocates stations on dial in equal length divisions. No crowding on any portion of the tuning scale. Rugged construction. Double and triple units have common stators and insulated rotors. Perfect bearings. Scientifically correct instruments. Electrically shielded. Single hole mounting.

No.	SINGLE UNITS	Your Price
R962	.0025	\$2.39
R963	.0035	2.59
R964	.005	2.96
SIAMESE (double) UNITS		
R965	.0025	4.78
R966	.0035	5.18
R967	.005	5.94
TRIPLE UNITS		
R968	.0035	10.35
R969	.005	11.85

Postage, 8c extra.

QUALITY CABINETS



DE LUXE MAHOGANY CABINETS

Beautiful hand-rubbed mahogany finished cabinets. Finely constructed and durable. Has overhanging top. Grooved for $\frac{3}{8}$ " panel. Neat footed. All standard sizes. Wonderful values. Extra large depths to accommodate the latest kits. The best buy on the market. Transportation charges extra.

These cabinets are built deep enough to take care of all the kits and sets of today. We do not sell cheap, short, or obsolete cabinets.

NO.	PANEL SIZE	DEPTH	YOUR PRICE	SHIPPING WEIGHT
R2801	7x18	10"	\$5.95	14 lbs.
R2802	7x21	10"	6.15	15 lbs.
R2803	7x24	10"	6.50	16 lbs.
R2804	7x26	10"	6.80	18 lbs.
R2805	7x28	10"	7.20	20 lbs.
R2806	7x30	10"	7.55	22 lbs.



GENUINE WALNUT TWO-TONE CABINET

Finely finished genuine walnut. Hand-rubbed. Brown walnut with darker panels, resulting in a beautiful two-tone effect.

Heavy durable construction. The very finest walnut cabinet on the market at comparable prices. These are splendid values which we are offering at a remarkably low price. Piano-hinged. Grooved for $\frac{3}{8}$ " panel. Deep enough for all the latest kits. Beautiful appearance. Transportation charges extra.

Unquestionably these genuine walnut cabinets are the best buy on the market today. These prices are low for a quality walnut cabinet. Do not be misled by imitations. Note the cabinet depths.

NO.	PANEL SIZE	DEPTH	YOUR PRICE	SHIPPING WEIGHT
R2807	7x18	10"	\$6.89	16 lbs.
R2808	7x21	10"	7.30	18 lbs.
R2809	7x24	10"	7.85	20 lbs.
R2810	7x26	10"	8.25	21 lbs.
R2811	7x28	10"	8.85	22 lbs.
R2812	7x30	10"	9.25	23 lbs.

SENTINEL SOLID WALNUT CABINET

The most beautiful walnut cabinet on the market. Genuine burl walnut. Finely finished. Hand-rubbed. Exquisitely carved and beautifully decorated. Skirted full-footed bottom.

The very finest that can be found in a walnut cabinet at any price. An unusual value at the price offered. Full $11\frac{1}{2}$ " deep.

Dimensions of top 13x26". Height 10 $\frac{1}{2}$ ". Will accommodate 7x18, 7x21 and 7x24. Specify which desired. An unusual value. This is our special offer. Shipped from Chicago or our Southern Indiana Factory by Express.

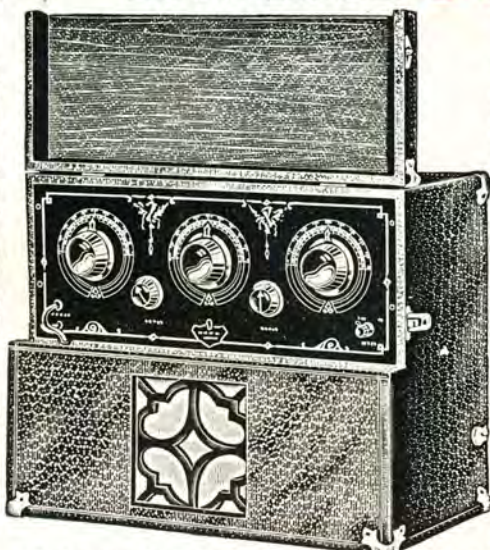


R2814—Your Price
any of the three sizes

\$9⁸⁵

Roamer Portable Six

With Enclosed Loop



Portable receivers are gaining great popularity. They may be taken anywhere and used under any condition. The Portable Six is a six-tube selective receiver. Its efficiency has in no way been impaired by its installation in a portable case. The efficient radio frequency circuit is primarily a compact unit installed in a portable case with dry cell type tubes. It gives remarkable service, distance and selectivity.

Enormous Volume and Tone

Reception of over a thousand-mile range has been received on tests with full loud speaker volume. Such results can be obtained consistently under normal conditions.

The loud speaker has been especially designed by us. It is equipped with an extra large balanced diaphragm unit. Dry cell tubes have been conceded by all leading authorities to be more efficient radio frequency amplifiers. Our price on the portable set is below even the five-tube portables in spite of its superior quality, results and appearance.

The portable is remarkable selective because of the use of enclosed loop antenna.

Compact and Commodious

Ample battery space is provided in this especially designed portable case. It is not necessary to use the midsize batteries, as with many portable receivers. Four standard upright 22½-volt batteries and six 1½-volt dry cells are easily accommodated. The case is substantially constructed. Spanish leatheroid covering with nickle-plated corners—a beautiful case. Side 25 inches long, 10¼ inches deep by 15¼ inches high. Has hinged front and back with loop mounted on inside of back cover.

The weight of the portable set without accessories is only 17 pounds. With accessories it weighs 43 pounds, though this may be greatly reduced if smaller batteries are used. We do not recommend the use of midsize batteries.



Equipped with four standard 22½-volt upright "B" batteries, six large 1½-volt dry cells, one "C" battery, six type X-199 tubes with adapter bases, including balanced diaphragm unit. Nothing else to buy.

R3094 Shipping weight, **\$55⁸⁰**
45 lbs.

Complete With All Accessories

\$38⁷⁵
R3095 Without Accessories, including unit.

Portable Case



R2835 Light in weight with commodious battery compartments, this portable case is exceptionally adaptable to the installation of any radio receiving set having a 7x18 panel size. Overall dimensions: 25" length, 10¼" depth and 15¼" width. Substantially and sturdily constructed with Spanish leatheroid covering. Protective metal corner brackets. Front and back hinged. The back is equipped with brackets for winding loop. This is a distinct advantage. A specially constructed, scientifically correct loud speaker is built in this portable case. The loud speaker will take any standard unit with a connector. The weight of the case is 10 pounds. Beautiful in appearance, compact. Worth \$25.00. Shipping weight, 15 pounds. Our Special Offer to You.....

\$10⁹⁵

Sloping Cabinet with Built-in Loud Speaker

R2836 Finely made mahogany finished cabinet. Hand-rubbed 25" long, 7½" high, depth 8½". Will take 7x18 panel only. The built-in loud speaker has been especially designed for this cabinet. Equipped with large balanced diaphragm unit. The volume obtained with this unit and fine tone chamber is enormous.

A quality cabinet. Shipping weight, 18 pounds.



Sold complete with built-in speaker and \$6.00 unit.

\$12⁹⁵

Cone Speaker Table

R2837B Cone speaker can be set in compartment below allowing whole of top for set. Plenty of space in compartment for A and B batteries, charger or eliminator in addition to speaker. White law in price this table is of the best quality. Elegantly finished in genuine hand rubbed walnut two-toned. Top size, 16x30 inches. Height, 30 inches. Inside compartment 13½ inches deep, 14 inches high, 25½ inches wide. Shipping weight, 45 lbs. Complete



\$19⁸⁵

Folding Radio Table

R2837 A sturdy folding table for any set. Has battery shelf where all accessories may be kept. Top and shelf of special vulcanized trunk fibre. Dark green waterproof leatherette covering. Well braced with hardwood side rails. Dark mahogany finish. Has protective metal corner brackets. Height 26", width 29", depth 16½". Shipping weight, 14 pounds.



\$3⁴⁸

Genuine Walnut Low Boy Console

**With Built-In Loud Speaker, Set
Battery and Charger
Compartment**

A GAIN we are ahead of the field. Again we are foremost with lower prices on better quality merchandise. The confidence of our customers must be upheld. We offer this genuine walnut console with bird's-eye maple trimming, full size, 38" wide, 18" deep and 40" high. Lower compartments for all batteries, chargers and eliminators. Upper compartment has door opening down for panel size 7x18 or 7x21. On the side is the built-in loudspeaker (no unit). This is a long loudspeaker, round opening, with a beautiful grille backed with silk. For a detailed picture of this console unit, see page 10, Aristocrat II. Order by number and avoid confusion.

This is the biggest buy in a genuine walnut better quality console obtainable today.

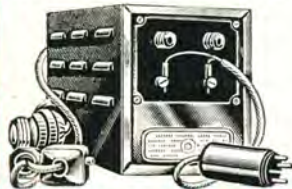
R3050 Console only, without unit and without set, furnished in 7x18 or 7x21. Please specify size.

Transportation extra **\$39⁴⁵**
Shipping weight,
100 lbs.



R3050A Low Boy Console, complete with genuine Amplion Unit **\$46.30**

Timmons Power Amplifier Increase Volume with Perfect Reproduction



R2088 Engineers agree that power must be used if perfect and natural reproduction is to be obtained. The lower notes of the musical scale even when naturally reproduced have little volume. The power amplifier will greatly strengthen these low notes, amplifying the deep basses and overtones with remarkable perfection.

The super power tube CX-310 is used in the power amplifier. The amplifier is simply plugged into any receiving set and into the light socket. It supplies its own "A" power and "B" power. Uses both CX-310 and CX-316B tubes. Transportation extra. Shipping weight, 25 lbs. Price without tubes.....

\$38²⁵

Timmons Combination Power Amplifier and "B" Supply

R2089 The same power amplifier as above described and in addition a "B" power supply for all the rest of the tubes in any radio receiver. This combination unit is not only a power amplifier, but it is also a "B" eliminator. Requires 1 CX-310 and 1 CX-316B tubes. Transportation extra. Shipping weight, 40 lbs. Price without tubes.....

\$59.50

TUBES NEEDED FOR POWER AMPLIFIER OR COMBINATION AMPLIFIER AND "B" SUPPLY
R1920 CX-310\$7.78 R1936 CX-316B\$6.25

Facent Powerformer

Combination Power Amplifier and "B" Supply



Connect the Facent Powerformer to your present receiver and obtain from it volume ranging from a whisper to a roar. Hear the distant stations with greater power and volume than your local or near-by broadcasting stations.

Only with a power amplifier can you obtain true tone quality without distortion. The Powerformer will reproduce with enormous volume without in any way altering the finest shading of the violin overtones or introducing the slightest distortion or harshness.

The Powerformer uses the rectifying tube UX 216B or CX 316B and the power tube UX 210 or CX 310. It supplies enormously high B voltage to the power tube and also furnishes B voltage for all of the tubes in your radio receiver. It entirely eliminates "B" batteries, which run down so often and cause noisy reception. It is a perfect "B" eliminator as well as a power amplifier.

The Powerformer is easily installed. Simply plug into your radio receiver and the house lighting current.

R2088E. Without tubes.
Transportation extra.
Shipping weight, 40 lbs.

\$69⁵⁰

CX 310 and CX 316B tubes are listed on this page.

Power Amplifier and "B" Eliminator

Plug the new power amplifier into the last socket of your radio receiver and the house lighting current and obtain an ultra-modern power set and B current supply. This new power amplifier and B eliminator gives you both power amplification and B power for the rest of your set. Even if your receiver is a modern set amplifying with perfection, the power amplifier will improve it because the deep basses

and overtones have very little volume and require power amplification to bring them out with full strength and perfection.

This splendid, efficient unit uses the super-power amplifying tube UX 210 or CX 310. It also uses the rectifying tube UX 216B or CX 316B. Only a power amplifier and B eliminator can supply the extremely high voltage of 200 to 400 volts "B" required for the power tube UX 210. In addition to this high "B" voltage the power amplifier furnishes up to 135 volts for the balance of the tubes in your set from the light socket. No noise or hum. Quiet in operation. Hear the many distant stations with the full volume of the local stations.

R2089E. Without tubes. Transportation extra. Shipping weight 40 lbs.



\$42.50

Genuine Walnut Spanish Period Console

FOR home-built sets or for completed sets, here is an opportunity to buy the finest piece of furniture, the most exquisite Spanish period design in a console made of genuine dark shaded walnut trimmed with burl walnut. Complete with built-in loud speaker, compartments for batteries, chargers, and eliminators, completely closed if desired, and opens to be used as a desk. This is full size, 35" wide, 19" deep and 46" high. Will accommodate panels size 7x18, 7x21, 7x24 and 7x30. Special panel inserts are furnished. When ordering, specify size of panel desired.

Beautiful for the Home

The most beautiful home may have its appearance improved with this Spanish period Console. It makes a small simple set a \$300.00 value. Its most exquisite design, its great depth and the delicate shadings of the genuine walnut put it in a class by itself. It permits all batteries, eliminators, chargers—a convenient compartment. Note the fine construction, the finely turned cross pieces below. Note the built-in loud speaker. Note the size—its great depth. It is worth twice what we ask for it, and we leave it to your judgment as to its value.

Lowest Price for Quality

Our policy of small profits and low prices holds true on this. For the purpose of introducing our quality furniture, we offer this at a special low price and are certain that you will receive in value much more than you expect. You will receive the finest piece of furniture you could possibly dream of getting for much more money than we ask. Shipped from Chicago or southern Ind. factory.



No. R3019A Console Cabinet, complete with genuine \$17.50 List Am- plion Unit **\$80.35**
Also sell with Balanced Baldwin Type Unit.

No. R3019 Spanish period Console without unit and without receiver, fully crated—shipped by express or freight, transportation charges extra. Shipping weight, 125 pounds.

\$73⁵⁰

Princess Console

THE Princess Console measures 32" wide, 17" deep and 44" high. It is built of genuine walnut, matched burl inlay with burl walnut trimming.

This console can be supplied only for 7x18 sets or 7x18 panels. This offer is for the console alone, without set with built-in loud speaker but without unit.

Beautiful Grille

The most beautiful loud speaker grille imaginable backed with silk—covers the front of the console and covers the loud speaker. Below are large spacious compartments for batteries, eliminators and chargers with two doors made of genuine matched stump walnut and trimmed with maple. The legs and cross piece are of the shaded patented type, substantial, sturdy and of beautiful design and proportions.

If your customer is fortunate enough to have a 5- or 6-tube set to be used with a 7x18 panel, this is his biggest buy.

No. R3018 For the Princess Console alone without set, with built-in loud speaker, but without loud speaker unit, shipped from Chicago or southern Indiana factory, fully crated. The biggest buy on the market.

The Princess Console alone is specially priced. This is your opportunity for a real \$150.00 value in an exquisite matched walnut console cabinet of full size and large proportions. Transportation charges extra.

\$66⁷⁵



R3018A With genuine Amplion \$17.50 List Unit. **\$73⁶⁰**

Shipped by express or freight. Shipping weight, 125 lbs.



**The
Console
Bargain
of the
Year**

Columbia Ace

Genuine Walnut Two-Tone Console

THIS solid walnut console is of such beautiful design that during the last twelve months it took the country by storm. The built-in loudspeaker with the large compartments for batteries, the beautiful heavy grille, the large room for the set—all these features help make it sell like wildfire. Size 18x28", 44" high. Will take a panel 7x18, 7x21 or 7x24. Specify which when ordering.

The Ace When Opened

On page 6 you will see the Columbia Ace, completed set. This will also help you to ascertain the appearance when open. The front lower doors open and the set compartment opens down into the form of a desk. This console is built of heavy genuine walnut and should not be confused with thin ply so-called cheap walnut. It is two-tone and wonderfully finished. This is one of the best buys in its class and well worth your while.

The Columbia Ace console is offered to you as pictured, fully crated without set, with built-in loudspeaker, but without unit, at this extraordinary low price because of the large quantity of them we have used. Shipped from Chicago or our southern Indiana factory.

No. R30A The Ace Console with genuine \$17.50 list Amplion unit, specially priced. **\$39.65**
 No. R30B Ace Console with balanced Armature \$6.00 value unit. **\$35.75**
 Special price on Ace Console without unit in any size required.
 Shipped by express or freight. Transportation charges extra.
 Shipping weight, 100 lbs. * **Stock No. R30**

\$32⁸⁰

The Wellington Console

Upright, Distinguished, Beautifully Finished

THE Wellington Console is built in wonderful proportions—24" wide x 14" deep x 42" high. It is finished in beautiful two-tone soft mahogany finish. Well polished. Lower doors open on spacious compartments for batteries, eliminators and chargers. The center door drops on opening large enough for a 7x18 panel or set. Above it is a gold silk back grille fronting a loudspeaker of spacious proportions attached to the top, which opens up. Access to the set is from the front and top.

Quality at a Price

For such quality as we offer here, for the value you receive, for the service it will render and for its beauty in a home, you could not obtain a better buy. Many houses offer you nowhere near the value for twice the price.

For a 5-tube set using a 7x18 panel, it is ideal. It is shipped fully crated and the price below is without set or unit. Purchase a good unit from our page of loudspeaking units, construct for yourself or buy one of our 5- or 6-tube kits and you have a set worth \$100.00 and more. Shipped fully crated from Chicago or our southern Indiana factory. Shipping weight, 90 lbs. Shipped by express or freight.

No. R3097 **\$26⁸⁵**



R3097A Wellington Console with Victor Adjustable Speaker Unit **\$28.75**
 R3097B Console Complete with \$17.50 Amplion Unit **\$33.50**

GRAND Console

The Buy of the Age!

Our most popular number has been this popularly priced, well constructed, mahogany finished console. Smooth finish, hand-rubbed, large and spacious dimensions. Two lower doors open on spacious battery, charger and eliminator compartments. Below in the center behind the grill is a deep loudspeaker (no unit). Above may be placed any set or panel. Shipped with special fillers for either size 7x18, 7x21, 7x24 or 7x30. Size of console, 18x39x36" high. It is worth three times the price we ask.

Compare this with the price of even a plain table you may be able to buy elsewhere. It is a wonderful value and is shipped fully crated from Chicago or our southern Indiana factory. Do not hesitate to order one.

Our Policy of Value

The low price of this is in conformity with the lowest prices for the best quality. Do not let the low price restrain you from buying this. It will increase the value of the most expensive set and will enhance the appearance of any table set where the objection may be lack of room for batteries, chargers, eliminators and loudspeaker.



No. R3028 [Console No Set]

A
\$50.00
Value
Console

\$19⁵⁰

Shipping weight, 80 lbs.



Ampliphonic Console Cabinet

WE OFFER the cabinet alone without the unit and without the set to be sold to set builders or owners of home-made sets. Refer to page 4 to see how the Ampliphonic model appears in detail when it is open. On this page you will see the latest genuine walnut new designed console with built-in loudspeaker, spacious compartments for batteries, chargers and eliminators, full-sized compartment for receiver, sizes 7x18, 7x21 or 7x24. Be certain to examine its features.

Beautiful Design

Picture if you can this most exquisite genuine walnut console. 27" wide, 16" deep and 39" high. In the center of each door is inlaid genuine burl stump walnut, beautifully matched and quartered, lightly shaded around the center and tapering out to a dark deep walnut. The large loudspeaker is centrally located with a beautiful fancy grille with silk backing. The construction of this walnut is thick, heavy and massive.

It has become popular through tremendous publicity. You will find this the most convenient console for any home. In ordering, specify whether you desire it for 7x18, 7x21 or 7x24 panel. Shipped from Chicago or southern Indiana factory.

The beautiful Ampliphonic cabinet without set and without unit, as pictured above and the open model of which is pictured on page 4.

Shipping weight, 95 lbs.

R3017 **\$48⁷⁵**
Special price

R3017A With genuine Ampliphon \$17.50 List Unit.

\$55⁶⁰

Genuine Walnut Table

Quality Console Table



**Genuine French
Walnut Two
Toned Exquisite
Design**

R 2728

No. R2728 The full grained walnut will lend tone to your home and make you a console set.

\$13⁸⁰

Shipping weight 60 lbs.

An extraordinary value. Not an ordinary table as its price might indicate, but substantially constructed of heavy, genuine walnut.

A fine piece of furniture, beautifully finished and rubbed. Light and dark two-tone French walnut finish.

Ample Battery Compartments

Conceal all batteries and chargers. Full size hinged doors make batteries readily accessible. Changes any table type set into a console set.

Its pleasing appearance and fine workmanship will grace any finely furnished room. Large enough for any receiver. The top is 18 in. deep by 32 in. long, height 31 in.

A remarkable value. Finely finished high priced table offered at an exceptionally low price. Do not confuse this Genuine Walnut table of full dimensions with other so-called walnut tables offered you. This table is walnut throughout, will beautify your home and enhance the value of your set.

Shipped fully crated from our factory in Southern Indiana or Chicago warehouse.

Mahogany Console Table

Beautiful Hand Rubbed-Dull Mahogany Finished

Beautiful in appearance. Substantially constructed. This mahogany table will change any old type receiver into a modern console set.

Graceful and well finished. The two-tone inlay effect is exceptionally attractive. The fine cabinetwork and graceful design will please the most critical.

Large Enough for Any Receiver

This is not a small, skimped table. It is big enough for any receiver and has ample space for all batteries, chargers or eliminators. The top is 31 in. long, 15 in. deep; it stands 31 in. high. Big enough for most receivers and a loudspeaker also. Keep batteries off floor and hidden from view.

This mahogany cabinet is well made and of pleasing appearance and proportions. It will fit into any home.

Low Price

It is unbelievable that a table of this type and value can be built at the low price offered to you.

Our enormous purchasing power is your advantage. We have been able to secure these tables at fully 50% below their market value. We offer you a rare bargain with an opportunity to save real money.



Shipped fully crated from our factory in Southern Indiana. One thousand tables are now ready for delivery. Order immediately. Shipped by express or freight.

R 2729

Shipping
Weight,
60 lbs.

\$9⁴⁰

Columbia GRAND

Our Leading Console Set Offer—Compare It

Never in the history of radio consoles or sets have you had an opportunity to buy a quality 6-tube console set built into a quality console with built-in loud speaker at anywhere near such a price. The Grand Console is soft mahogany finish, substantially built with balanced diaphragm loud speaker unit, built into the loud speaker below. Two doors open with spacious compartments for all batteries and chargers.

The 6-Tube Grand

The Grand is not just another 6-tube set, but is built with a purpose. The additional tube lends greater volume, better tone quality and finer undistorted reception. It is the combination of the wonderful receiver built with solenoid coils, straight line frequency condensers, with a beautiful walnut and gold etched mahogany panel that make this the wonderful value it is.

Distance, Volume and Quality

We have hundreds of unsolicited testimonials from customers asking us how we can sell them a console receiver with which they have been able to obtain stations from coast to coast and in some instances foreign stations with such wonderful tone quality, volume and clarity of reception. Refer to other testimonials of customers in this book where their names and addresses are given.

No Better Set for Any Price

You cannot obtain a 6-tube set which will operate better and which will please you more at anywhere near this price. It is ready to attach and tune in immediately after it is received. No complicated data. Merely attach as instructions show to batteries and you are ready to listen in to the finest concerts and to stations miles away.



R3026. Columbia Grand Six, as pictured, without accessories but with built-in speaker and unit. A \$125.00 value. **\$42⁶⁵**

R3027 COLUMBIA GRAND SIX, complete with built-in loud speaker and balanced unit, including 2—45 v. "B" batteries, 1—4½ v. "C" battery, 1—100 a.h. storage "A" battery, 1—aerial equipment, 6—type X-201A tubes, connected battery cable, including instructions, ready to operate. **\$65⁹⁵**
Specialty Priced

Beautiful two-tone mahogany finish 6-tube console set with built-in loud speaker and quality speaker unit. Large compartments for batteries, chargers or eliminators.

\$42⁶⁵

Note.—If you desire a light socket set, we suggest you buy the Columbia Grand Six without Accessories and purchase individually from our catalog 6—X-201A tubes, "B" battery eliminator, aerial equipment, 1—storage battery and 1—Trickle charger, or 1—"A" power unit. These are all listed on other pages of this catalog.

6 TUBE SENIOR

Localized Control

The Easy-To-Tune Quality Set

Instead of the usual dials, we offer you here Centralized three drums. Three fingers tune the set. Easily logged.

The Senior Localized Control is a 6-tube receiver in a beautiful hand-rubbed mahogany finish cabinet, 21 inches long, gold etched panel, modified straight line condensers, solenoid coils, type X bakelite sockets and all parts underneath the sub-base. Simplified wiring.

Thousands of Columbia Sets are in use. Unsolicited testimonials by our thousands of customers prove reception from coast to coast. Tremendous volume, clarity and great selectivity. Minimized interference. So beautiful a receiver has yet to be offered at anywhere near this price. Its quality goes unquestioned as it has been manufactured in Columbia's spacious factory where almost 200 are employed.

Real Quality at a Low Price

Heretofore it has been impossible to offer this quality receiver at anywhere near this price. It is made possible by our tremendous production and purchases. Only a small knob controls the tremendous volume the six tubes will render. No howling—simplified control. **REAL TONE QUALITY.** A truly wonderful set in a beautiful cabinet. Easy to install by following our simple instructions. Battery cord is attached to set. Should you desire a power tube as amplifier, the set permits it and instructions show it. Type UX-112 is suggested instead of one of the 201A tubes. This is an additional feature although not necessary for volume.

Complete with Accessories

R3015. The complete 6-tube Senior Receiver as pictured, complete with 2.45 v. "B" batteries, 1 100 a. h. storage battery, 1 "C" battery, 1 complete aerial kit, 6 type X-201A tubes, 1 quality Cone speaker or Victor Horn Speaker (state which desired) with battery cable attached, with complete instructions for installing and operating, specially priced—nothing else to buy.

Shipping weight, 120 lbs.

\$65⁴⁵

R3014. The 6-tube Senior Localized Control as pictured without accessories or loud speaker with instructions—

\$36⁵⁰

Shipping weight, 25 lbs.

The Senior Localized Six is usually shipped for storage battery use, but if dry cell operation is desired, PURCHASE THE SENIOR ALONE SPECIFYING FOR DRY CELL OPERATION and purchase accessories separately, substituting 199 TUBES instead of 201A and substituting 6 DRY CELLS instead of storage battery.

\$36⁵⁰



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