

RADIO

1929 EDITION

Sets-Parts
Accessories

Wholesale
Price Guide



The Barawik Co.
CHICAGO ILL.

New Departments
in This Issue

Auto Tires
AND ACCESSORIES

Electrical Goods
WIRING, FIXTURES, ETC.

Sporting Goods
OUTING CLOTHING
FOOTBALL, BASKETBALL, ETC.

Household Specialties
VACUUM CLEANERS
PHONOGRAPHS, ETC.
ELECTRICAL TOYS



The Symphony Beats them all!

AC Operated Phono-Radio

A Price Sensation!

Featuring the Marvelo AC 8-9 with

Two superb home entertainers in one beautiful cabinet—that is what you get in The Symphony. The renowned Marvelo AC 8-9 and a dependable, high quality electric phonograph with the powerful Dynamic Speaker reproducing the music of both. This amazing Phono-Radio Combination is, indeed, fittingly named. It is really and truly a Symphony for it easily beats everything else on the market for appearance—quality of tone—and low price. From coast to coast people who appreciate the best are buying these new complete home entertainers. Surely it is a fine investment when you can get all the advantages and pleasures of an all-electric radio and an electric reproducing phonograph for little

more than the price of a good radio alone. This combination is a real triumph of engineering skill. The choice of the world's best entertainment is always at your command. The two reliable instruments are ever ready to entertain you. You hear the radio broadcast or the record reproducing with amazing vividness. The Marvelo AC 8-9 is recognized by experts as one of the world's most efficient receivers. No one will question the advantages of electric reproducing in phonographs. It is so far ahead of the old type of reproducing that the tone quality of your records will be a revelation.

All Electric Operation

The use of the new AC tubes makes possible the convenient operation of this advanced receiver. After you have plugged the set into your light socket, a slight turn of the switch is all you need to operate the set. No batteries, chargers, or eliminators are needed. You will get more pleasure and satisfaction from an AC operated set than from any other kind. The Marvelo AC 8-9 is one of the leaders in the field for sensitivity, tone quality, range, selectivity and volume. You will get the difficult far-away stations with the greatest ease. Read page 10 for complete description of this receiver.

Never Before Such Quality at Such a Low Price

Our extremely low price on this superior all electric Phono-Radio Combination is the talk of the industry. Never before anywhere has a value like this been equalled. The best of everything is in this instrument. No expense was spared to make it one of the outstanding buys of the year. Remember that Barawik never cuts down on quality when he makes the price low. As you look through the following pages of this catalog, you will find many other items at money-saving prices.

Modern, Beautiful Console

The Symphony is one of the foremost examples of the better class of cabinet making. Designed on the fashionable high-boy lines, it makes a good size and decorative piece of furniture in your living room. It is equally beautiful when closed or open. Made of genuine American walnut with matched butt two-tone walnut doors that swing straight back against the sides. The distinctive turned legs have delicate fluting at the tops. A cross stretcher furnishes additional bracing. An artistic grille located below the receiver panel conceals the Dynamic Speaker. Height over all, 54 inches.

You Make Big Savings on This 1929 AC 6-7 Tube Receiver

Operates Direct from Your Electric Light Socket

May Be Had in Colors



Years Ahead in Performance

\$35⁴⁵_{Net}

A True AC Receiver

Designed and constructed to please the most critical radio expert! This wonderful Marvelo receiver comes to you with a cord and plug that connects directly to your 110 volt, 60 cycle AC light socket, the same as your electric washing machine. No other connections except the aerial and ground are needed for its operation.

The Marvelo is a true AC receiver that never requires attention.

New 1929 Design

The advanced circuit design easily makes the Marvelo AC 6-7 a leader for the coming season. The sharply tuned three stage radio frequency amplifier makes possible long distance reception without the usual interference from nearby high powered broadcast stations. True single dial tuning makes operation so simple that a child may operate it as easily as the grown-ups.

For full technical description see page 28.

Finest Tone Quality

Famous musicians hearing the Marvelo AC 6-7, pronounce its tone quality practically perfect. You, too, will say the same when you hear it, for it actually reproduces all types of broadcast entertainment with clear, vivid, realistic tone quality. Even on distant stations it graduates smoothly from a whisper to a thundering volume with an amazingly superior tone that is as lifelike as the studio music, itself.

Guaranteed Quality Throughout

In the Marvelo's Superb construction, quality parts are used throughout. The power pack, which furnishes the power for the entire receiver utilizes a type 280 full wave rectifier tube. It is designed for continuous use even when overloaded 25 percent. This great reserve power amply furnishes all the current for the four type 226, one type 227, and one type 171 tubes used in this receiver.

Compare These Prices

IF11487 Marvelo Table Model AC 6-7 receiver in brown tone Art Metal Cabinet. Less tubes and antenna equipment. **List \$65.00** **Net \$35.45**

IF11488 Same as above but with full set of tubes, and all necessary antenna equipment. Complete ready to operate. **List \$90.00** **Net \$47.45**

See page 29 for prices on other colors.

Chassis Only

To accommodate those who want to install this wonderful radio in their own cabinets the chassis is sold separately at the substantially low wholesale price of

IRCI1494

\$32⁹⁵_{Net}

Combination AC 6-7 and Speaker Table in Colors

The beautifully designed speaker table to match the Marvelo AC 6-7 receiver shown above may be had in four different colors: Browntone, Nile Green, Chinese Red and Old Ivory.

Many people prefer a combination of this type, because of its unique appearance and the small space it occupies in the home. This combination is equipped with the Marvelo Magnetic Cone Speaker described on page 65. It was chosen because of its wonderful tone quality and the great volume carrying capacity, and equal amplification of all notes in the entire musical scale.

For further information and prices of the popular colored models see page 30.

Astonishingly Low Prices

IF11524 Brown toned Finish Combination Marvelo AC 6-7 and speaker table to match as shown, less tubes and antenna equipment. **List \$100.00** **Net \$52.95**

Complete—Ready to Operate

IF11523 Same as above but with complete set of genuine AC tubes and all necessary antenna equipment. **List \$125.00** **Net \$64.95**



May Be Had in:
Browntone
Nile Green
Chinese Red
Old Ivory

\$52⁹⁵_{As shown}

Browntone Finish

Another Barawik Triumph!

Marvelo A C 6-7 Chancellor Console

\$52⁵⁰



We Challenge Comparison!

A Receiver Comparable to Only the Finest

Here is the last word in Radio perfection—a set worthy of your serious attention for its super performance at a new low price level. Wherever in America you find a radio set of such wonderful performance for your money and no where will you find a set that carries a more liberal guarantee.

Distance—Power

This receiver has been especially designed for getting distant stations, to have great power, and to be electric. The all metal chassis, twice matched radio frequency coils, ruggedly built three gang condenser, and the well-shielded construction give it an added advantage over most other radio sets in producing outstanding performance. With this superior type of construction you are assured that this new receiver will at least equal, if not surpass the results obtained from other sets of its type.

For full technical description of the Chancellor Marvelo AC 6-7 chassis, read page 28.

Lifelike Tone

Nothing has been spared to make the Chancellor's tone quality supreme. The vivid, clear toned magnetic cone speaker together with the powerful audio amplifier fully amplify all tones of the original broadcast in such a way that you will actually wonder how such marvelous and realistic reproduction is possible.

For the Finest Homes

Many of the finest homes in America will find the Chancellor Marvelo AC 6-7 a welcome addition. It is small enough to be placed into a rack or corner, but yet commands instant attention and admiration of anyone entering the room in which it is installed.

Marvelo Guarantee

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver (unless results obtained with it equal those of the calibrated standard).

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in material and workmanship.

Artistic Walnut Console

Lovers of beautiful furnishings find the Chancellor a beautiful and artistic piece of furniture. The gracefully formed legs and cross stretcher together with the charming beaded scroll effect borders give this Console a finished appearance attained by few others. The drop front door acts as an elbow rest. Size 32 in. high, 21 in. wide, and 15 in. deep.

Priced Far Below the Market

IF11567 Marvelo Chancellor Model as shown above equipped with magnetic cone speaker, less tubes and antenna equipment. **\$52.50**
List \$120.00 Net

IF11568 Same as above, but equipped with Marvelo dynamic power speaker described on page 66.
List \$150.00 Net **\$66.50**

If Complete Equipment is desired add \$12.00 to the price given above. This includes full set of 7 tuning AC tubes and all necessary antenna equipment for complete operation. Nothing else to buy.



Electrical Reproduction in This Phonograph A Revelation in Tone Quality

People who have heard this new electric phonograph have all been amazed at its surprising tone quality. They did not think that phonograph music could be so perfect and so life-like. Delicate shadings of tone that were heretofore lost in the ordinary phonograph are now brought out with crystal clearness. No wonder the electric phonograph has become so popular throughout the country in a very short while. Once you hear it, you, too, will want to own this Phono-Radio Combination. It is so far superior to anything on the market before this that you will never be satisfied with the older instruments. Not only do you get the finest radio procurable, but you also get the all-electric phonograph with its automatic stop and crank-free motor. You will find it extraordinarily free from all mechanical noises. Nothing to mar the pure beauty of the music that issues forth from either the radio or phonograph. The electric motor is made specially for phonographs and is absolutely noiseless in operation. You can regulate the speed and maintain the desired speed at any

time. A pick-up arm of extra quality is used as it is much more sensitive than the ordinary mechanical reproducer. It detects and amplifies every impulse with exact faithfulness. The result is astounding. Many people have been deceived by this phonograph, thinking that they were listening to the original music instead of a phonograph. The whole phonograph is contained in a neat pull-out drawer directly underneath the radio set panel. It uses the same powerful Dynamic Speaker as the radio. There is nothing new to learn in operating one of these Combinations—no hook-up or change of power is necessary. You simply turn the switch located in the phonograph panel and the change from radio to phonograph or vice versa is complete. This Combination is, without a doubt, one of the most worth while values offered by anyone today. Avail yourself of our low price now and become the possessor of the most modern music producer in the world. You will find it to be a source of real joy in your home for the whole family.

An Elegant Piece of Furniture

Simple lines and beautiful proportions mark this cabinet as one of the newest designs from the studios of famous cabinet-makers. It is kept free from ornateness to give it real distinction. It is truly a fine piece of furniture that will lend an air of good taste to any room. Beautiful brown genuine American walnut fashions the cabinet. You will find that it will form an interesting part of your decorative scheme, yet will blend perfectly with what furniture you have. The wood is hard-rubbed to a lovely, soft, satiny sheen. The front doors are decorated with accents of two medallions. A convenient feature of these doors is that they fold straight back to the sides of the cabinet. Attractive legs and cross stretcher complete the details. The outside dimensions of the console are 53 inches high x 28 x 17 1/4 inches deep.

You Are the Judge

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

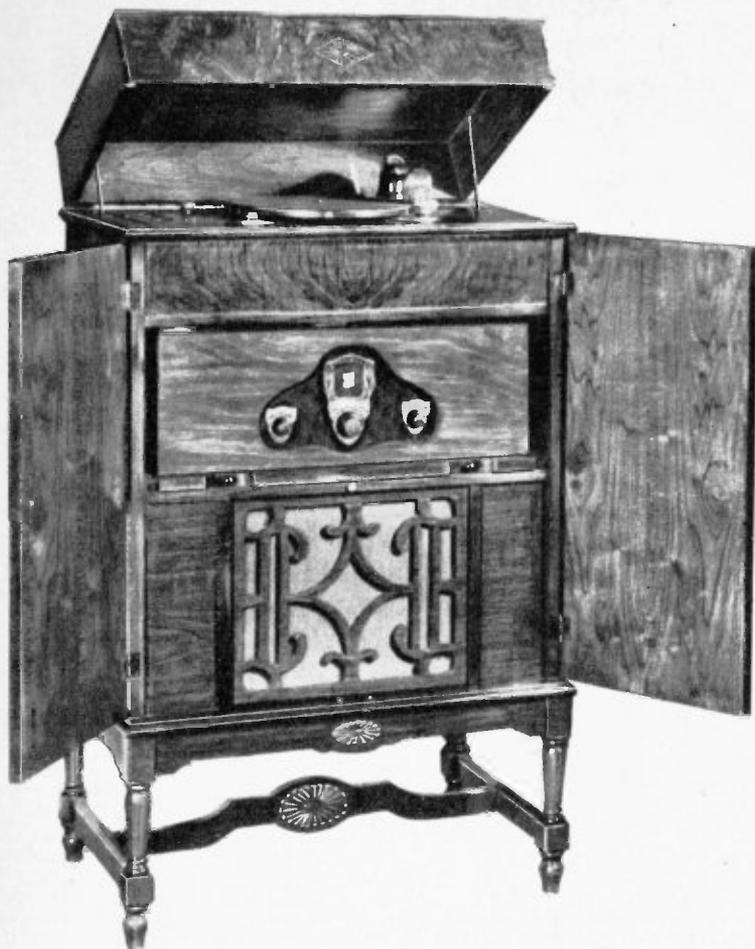
Lowest Wholesale Prices

1F11480 Phonograph-Radio Combination as described above. Without tubes or antenna equipment. List \$250.00 Net Price **\$134.50**

1F11481 Same as above but complete, ready to plug in and operate. Includes set of genuine AC tubes and all necessary antenna equipment. List \$280.00 Net Price **\$144.50**

FREIGHT ALLOWED TO YOUR STATION—SEE PAGE 260.





Cadenza Console

\$169⁵⁰

Unexcelled Radio Performance— Perfect Phonograph Reproduction

Proclaimed by everyone the greatest advancement in the field of home entertainment, the all electric Phono-Radio is fast becoming the biggest selling instrument today. Where formerly two separate consoles were used, now everything is in one cabinet. Very few homes were large enough for both instruments, therefore most people had either a radio or a phonograph. The roomy Cadenza console contains both the phonograph and radio units with ample space to spare for speaker and phonograph album. In design and craftsmanship this gorgeous piece of furniture easily ranks with the best. Its size and finish make it an outstanding piece of furniture. Made of genuine American walnut plywood with matched

butt walnut veneer doors and front panel, it will blend harmoniously with your other furniture. The short, sturdy legs, securely braced with a cross stretcher, form an even, solid support for the cabinet. This feature is very desirable in securing perfect radio and phonograph performance. The outside dimensions are 30 x 28 x 19 inches deep. You get the best of everything in the Cadenza—finest walnut cabinet, a high quality electric phonograph unit, and the famous Marvelo AC 8-9 Receiver. You cannot get a better combination. Furthermore it is equipped with the most popular speaker on the market today—the Dynamic. There is no better speaker, made at any price.

Super-Efficient Marvelo AC 8-9 Receiver

Regardless of how much you pay for a radio receiver, you cannot get a better one than the Marvelo AC 8-9. It is entirely electric in operation. All you do is insert the plug in a light socket. You have no batteries or eliminators to hook up. You will find it extremely easy to turn on and turn off, and the upkeep is negligible—only a few cents or so per month added to your light bill. You will find the AC 8-9 Receiver the equal of

receivers selling for as much as double our low price. Only by producing in immense quantities and selling directly to you, can we afford to keep the price so low. Even the farthest and most difficult stations to get will come to you with surprising clarity. This receiver is truly a distance-getter. Read more about it by turning to page 10 of this catalog, where you will find the complete technical description is given.

THE BARAWIK CO., CHICAGO, ILL.

*A Cabinet
of
Distinguished
Appearance*

*Massive
Proportions*



The All Electric Phonograph Brings Out Richer, Truer Tone Values

You, too, will be amazed at the performance of this all electric phonograph. It is entirely different from the old-style machine. Simple to the extreme in operation, there is absolutely nothing new to learn. You can change from radio to phonograph by a mere turn of the switch. There are no delicate adjustments to make, nothing to replace or change. Just turn the switch—that is all. No cranking. Automatic stop. The radio receiver is located in a sliding drawer arrangement. This makes it very convenient when you wish to gain access to the set. The phonograph is located in the top of the cabinet, immediately under the lift lid. No expense

was spared in making this phonograph as good as any on the market. A noiseless induction electric motor drives the turntable while a specially designed tone arm and high quality electric pick-up carries the electrical impulses from the record to the audio amplifying system of the receiver. This system is responsible for the extraordinary quality of the tone. Even your old records that you may not have played for many months will again be a source of pleasure to you for they will take on new life and beauty when reproduced this all electric way. All sounds come to you through the remarkable Dynamic Power Speaker.

All the Volume You Want With the Dynamic Speaker

The Dynamic Power Speaker furnished with this all electric Phono-Radio is recognized by all radio experts as the greatest advancement of recent years in the development of radio speakers. It is almost uncanny in performance. No larger than an ordinary size dinner plate, it is nevertheless capable of enough volume to fill an auditorium. Read all about this great feature speaker on page 66 of this catalog. You will find the description very interesting.

You May Purchase This Phono-Radio on Approval

Each Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

Our Low Prices Save You Many Dollars

1F11478 Phonograph-Radio Combination as described above, without tubes or antenna equipment.

List \$350.00

Net Price

\$169.50

1F11479 Same as above, but complete, ready to plug in and operate. Includes set of genuine AC tubes and all necessary antenna equipment.

List \$380.00 Net Price

\$179.50

All Prices Quoted Are Net—There Are No Further Discounts

Showing
Phonograph
Hidden From
View
When Not
in Use



Freight
Allowed
See Page 260

Equipped with
*Dynamic
Speaker*

Marvelo Combination Electric Gives Perfect Reproduction

Always leading, Barawik takes pleasure in offering you this remarkable reproducer of music—the new Phono-Radio All Electric Combination. All enclosed in one beautiful cabinet, this ensemble is the latest work in home entertainment. Nothing in the air can escape you, for in it is the famous all powerful Marvelo AC 8-9. If you prefer phonograph entertainment, all you have to do is turn the switch, insert your favorite record, and you are listening to the record in a way never before produced. There is as much difference between phonograph music that is reproduced electrically and the old style, as there is between a bicycle and a high-powered motor car.

Artistic Walnut Console

There are very few consoles made that equal this one for beauty of appearance and symmetry of line. Beautifully proportioned, it is instantly recognized as a piece of high quality furniture by all. Made of Genuine American Seasoned Walnut, first toned to an Adam brown, then rubbed to a high gloss. The four sturdy legs are delicately fluted to add gracefulness. The outside dimensions are 42 inches high by 33 inches wide by 18 inches deep.

Everyone wants an electric phonograph. It is a most popular instrument these days. There is nothing to approach it for clearness of reproducing. The old records you may have at home will sound altogether different to you when you play them the electric way. Behind the upper right-hand grille is concealed the drawer containing the electric phonograph. Bring the drawer forward and the phonograph is before you, ready to play.

Completely Electric—Never Requires Winding

A special electric motor, extremely silent in operation, furnishes the motive power for the turntable. The speed of the motor can easily be regulated. A pickup arm, of the highest grade possible, replaces the reproducer. It is decidedly more faithful than the old style reproducing and is used by all leading manufacturers of electric phono-radios. If you wish to tone down the volume, all you have to do is turn the volume control until you get the desired result. There is ample space below the radio panel for records and all other accessories of the radio set that you may wish to put away where you can get them easily.

See Page 10 for Full Technical Description of the 8-9 Tube Set with Which This Combination Is Equipped



Our Low Price Saves You Money

\$ **199⁰⁰**
COMPLETE

Phonograph and AC 8-9 Receiver of All Music at Reasonable Cost

The famous Marvelo AC 8-9 is truly the peer of all all-electric radio receivers. It is entirely electric in operation. You need no batteries, eliminators, chargers or other old fashioned equipment. All you need is an electric light plug from AC current. You just plug the set in, turn the switch, and your set is ready to operate.

Never Requires Attention

Needs no attention, such as getting batteries charged, or replacing batteries. An AC set is the best investment you can make in radio. Easy to tune with the single dial. You get the station you want right away.

The Marvelo is known for its remarkable selectivity. You will never be annoyed by interference from other stations. The hair line tuning avoids all that. Read more about the details of this receiving unit on page 10 of this catalogue.

Powerful Dynamic Speaker

Really the sensation of the radio world, The Dynamic Speaker is a revelation of compactness, capable of tremendous volume. The dynamic is by far the most popular type of speaker used, this being due to the fact that even when loaded to capacity, it will not distort or in any way change the original sound of the broadcast. There is no other speaker as good as the Dynamic. Read more about it on

page 66 of this catalogue. It is the best in radio.

Marvelo Guarantee

Each individual set bears the factory guarantee for tone quality, volume, distance, sensitivity, selectivity. This is your assurance of getting the best.

Priced Extremely Low

At our low prices you can now afford this De Luxe Phono-Radio. Prices were never so low as they are this year. Many dealers ask as much for a radio alone as we ask for this combination. Think of the advantages of having the two combined, at such a low price.

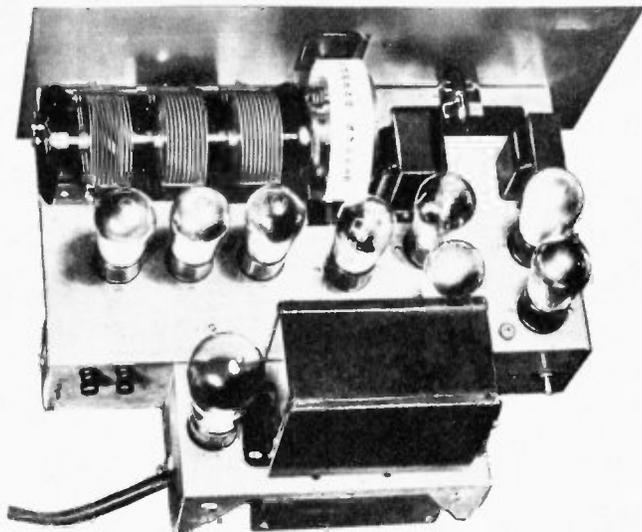
Comes complete with everything needed for immediate operation. Tubes, power-pack for both A and B current, and complete antenna and ground equipment is included. There is nothing else to buy. The price we quote you is the price it will cost you. No extras needed. The shipping weight is 350 pounds.

3F11566 Complete, ready to use.
List \$375.00 Net **\$199.00**
3F11569 Without tubes or antenna equipment. List \$345.00 Net **\$189.00**



We Pay Freight As Per Offer Given on Page 260

Marvelo Model AC 8-9 Chassis



ALL METAL CONSTRUCTION

Tuned R. F. Circuit

The circuit comprises three stages of perfectly balanced radio frequency amplification, detector, and three low-ratio, all frequency audio amplification, the last stage audio being a push-pull 171A power amplifier. This doubles the power handling capacity output of the set so that the tremendous power delivered by the radio frequency and detector units is amply taken care of. With this highly efficient design, distortion, fuzzy tone, and background noises are forever eliminated. A special hum-adjuster located on the back of the set allows you the opportunity of balancing out any AC hum that might occur when installing new tubes.

Push Pull Amplification

Those who appreciate music will be the more pleased with this set because of its wonderful ability to reproduce the near and far-away programs with true realism. To hear a program on the Marvelo AC 8-9 is to be right at the studio, for one can hardly believe that such wonderful performance could be coming from a thousand or more miles away. This realistic tone is made possible by using a push-pull 171 power amplifier, thus doubling the power handling capacity so that there will not be any danger of overloading, commonly called distortion and poor tone quality. By this arrangement the great power delivered by the RF amplifier and detector is amply taken care of.

Illuminated Control

Extremely simplified single dial control gives the Marvelo a great advantage over all other sets. Improved type vernier drum dial of special construction is used. This dial has a positive action drive with no lost motion and no backlash. It can be turned the smallest possible fraction of a degree with positive assurance that it will stay there. The "dyed-in-the-wool" fan will appreciate this for it greatly helps in bringing in distant stations. The dial is brightly illuminated so that numbers are easily read at all times. This light is also a reminder to turn off the set.

Practically 10 K. C. Selectivity

Perfect shielding of all necessary parts in the Marvelo Electric AC 8-9, together with the highly efficient sharply tuned radio frequency stages, gives practically 10 KC selectivity. No more is it necessary for you to be bothered with interference from other stations, for the Marvelo easily separates them all. The Marvelo now makes it easily possible for you to listen to your favorite station without the slightest bit of annoyance from others.

Simple Operation

Just plug into the electric light socket—that's all the new Marvelo AC needs to operate. No batteries or eliminators to hook up or watch—no attention at all except to turn the panel switch on and off. Not a bit of fussing—the easiest set to start, to operate, to turn off. No upkeep other than a few cents monthly added to your light bill.

Superlative Value

Never before have you been offered such a wonderful value! A perfect all-electric set designed in accordance with the latest scientific principles of radio engineering which does away with all batteries, acids, etc., and costs only a few cents a day to operate. A remarkable achievement. Compare the special features of the Marvelo All-Electric AC 8-9 with other similar sets now on the market even costing more—compare them for distance, selectivity and tone, and see how easily the Marvelo outperforms them all.

A Year Ahead

Exclusive features found only in the Marvelo easily make it a year ahead in design. Take for instance the dry power pack. It takes a full 20 per cent overload and is specially built so that fluctuations in line voltage from 105 to 120 volts have no effect on the operation. This special construction materially lengthens the life of the AC tubes, for it keeps the proper voltage on them at all times—a very important point.

Note the Special Features

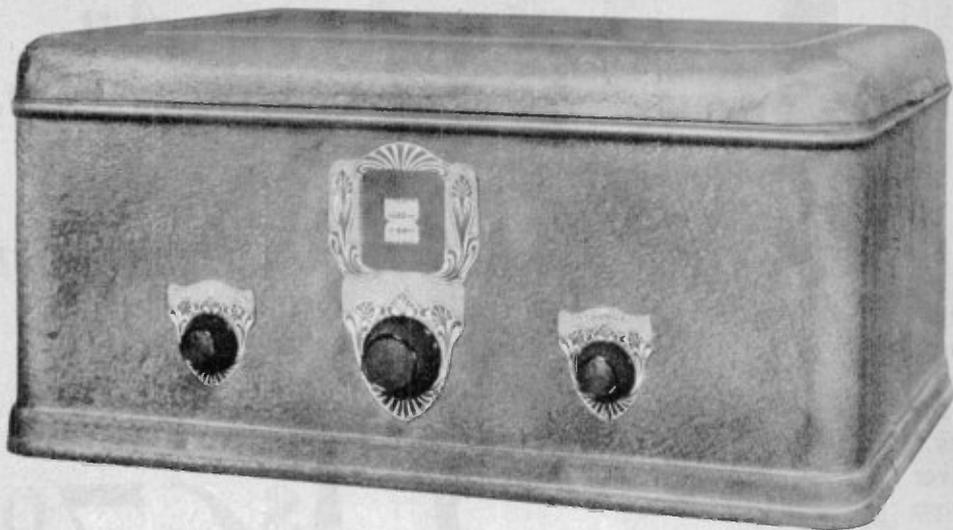
The heavy all-metal, cadmium plated chassis gives absolute rigidity and perfect alignment of all co-ordinated parts. Double faced contact sockets give positive grip at all times. All wiring throughout is cabled so that set will be free from hum, short circuits and grounds.

Wholesale Price on Chassis

1R11431 Chassis only.
List \$90.00.

Net \$45.00

Marvelo Model AC 8-9 Receiver



BRIGHT CHEERFUL COLORS

An Air of Distinction

The latest styles in household furnishings dictate bright and attractive colors prominently displayed wherever possible. You have probably already noticed and perhaps possess some of the attractive furniture and drapes toned in the vivid and contrasting colors now so popular. It is possible to obtain your radio set in a choice of brilliant red with gold trimming, Nile green with gold trimming, walnut brown with gold trimming or old ivory with brown trimming. Any one of these four models will add greatly to the beauty of your home.

As a matter of suggestion, we will say that the Chinese red model is most appropriate in large rooms with dark colored and comparatively massive furniture. It blends well with wall hangings of yellow and tones going down to dark brown or gray.

The Nile green model is not quite so flashy and is more suited for use in a room with lighter hangings and less pretentious furnishings. Especially suitable for use in the sun parlor or on the porch.

Greater Distance Now Possible

Due to the special construction of this new and greater true AC receiver distant stations are almost as easy to bring in as the locals. Most of them can be brought in with surprising volume and tone quality—in fact you will think they are locals until you hear the call letters. The sturdy bridge type chassis construction which gives rigid alignment of parts insures lasting and permanent electrical balance of the radio frequency stages. This means that a station once logged will always be found at the same dial setting.

The circuit consists of three highly efficient radio frequency stages, detector, and three stages of audio amplification—the last stage being a 171A push-pull amplifier—an ideal circuit for perfect long distance reception.

True Single Dial Control

The Marvelo All-Electric AC 8-9 Model is a true single dial radio receiver. No compensators to adjust—nothing except one single illuminated vernier drum dial to tune for the station you want. So simple in fact that even a small child can operate it as well as the grown-ups. The brightly illuminated dial makes it easy for you to see station settings at a glance even when the room is dark. It also acts as a reminder to turn set off when not in use.

Stations come in with such life-like clarity that it is actually hard to believe you can be listening to a radio receiver. Just a mere snap of the Off-On switch—a turn of the dial and there you are—entertainment of all kinds with tone quality pleasing to all.

Pleasing to Eye and Ear

The walnut finish model is universally applicable. It blends perfectly with furnishings whether light or dark. Very appropriate for use in positions on the opposite side of the room from the windows.

The old ivory model is the lightest in tone of all and has the appearance of an antique chest such as is brought back from the Orient. If your house is furnished with antique furniture, this receiver is most appropriate. It is also suitable for use in a bedroom or other room which is finished in pastel shades of pink, blue, or yellow.

The tone quality is in perfect harmony with the external appearance of the instrument. You cannot do better than select one of these table models, for you will have not only the most up to date in appearance, but also the finest reception and the latest developments in radio.

Why Marvelo Is Better

The extremely rigid requirements of the Marvelo engineers place the All-Electric 8-9 in a class by itself. Each part, before it is placed in the set, must pass rigid tests so that any defect, regardless of how small, may be detected and discarded. With the Marvelo you are assured of extraordinary construction, for it is built to endure—to give complete and lasting satisfaction—and to out-perform!

Table Models

Sets only without tubes or antenna equipment, in Art Metal Cabinets.

1R11439	Chinese Red Finish	
1R11440	Nile Green Finish	
1R11441	Old Ivory Finish	
1R11442	Walnut Finish	
List \$95.00		Net \$49.50

Complete with all tubes and antenna equipment, ready to operate.

1R11443	Chinese Red Finish	
1R11444	Nile Green Finish	
1R11445	Old Ivory Finish	
1R11446	Walnut Finish	List \$130.00
		Net \$64.25

Real Values

These are remarkable values. Distinctive ART METAL cabinets that have no peer. But this is not all, for housed in this beautiful cabinet is a true AC All-Electric Receiver that gets more distance, has greater selectivity and possesses a better tone quality. Truly supreme in its clearness and purity of realistic tone.



An Exquisite Com- bination

Full
Technical
Descrip-
tion of
This
Receiver
Is Given
on
Page 10

\$ **67⁰⁰**
Net

As Shown

May Be Had in
Browntone
Nile Green
Chinese Red
Old Ivory

Marvelo AC 8-9 With Speaker Table

Real AC Performance

Only those who have heard the Marvelo 8-9 tube AC receiver can attest of its superior quality. Its single illuminated dial tuning makes bringing in the near and far-a-way stations a joy to all. Operates direct from the electric light socket and never requires adjustment or attention. When you want to listen to entertainment, just snap the switch on—when you're through listening, snap the switch off. That's all there's to it!

Astounding Performance

If you want to get distant broadcasting stations the Marvelo will get them for you without effort. Even though you live in congested broadcast districts where interference is great you need not worry for the various programs being broadcast glide in and out with such surprising separation that you will actually be astonished with this new degree of radio perfection.

Perfect Toned Speaker

The Marvelo magnetic cone speaker, with which this combination is equipped, is a fitting companion to the Marvelo AC 8-9. It is the last word in magnetic speakers and because of its marvelous reproduction and perfect clearness of tone all those who hear it proclaim it to be the best of its type ever offered!

Famous Marvelo Circuit

The circuit used in this exceptional receiver employs new methods that give far greater efficiency than heretofore thought possible to attain. The precision construction, the perfectly balanced sharply tuned radio frequency stages, and the "All-Toned" audio frequency amplifier produce results that entirely please the most exacting radio buyer and the critical musician. For full technical description of this receiver turn to page 10.

You to Be The Judge

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

Your Choice of Colors

In keeping with the trend of modern times we are able to offer our customers the above combination Marvelo AC 8-9 and speaker table in four extremely popular colors. The various finishes are of high grade lacquer and will remain beautiful for many years. These finishes are of two tone effect which greatly enhances their appearance in any room.

Note These Low Prices

Marvelo All-Electric AC 8-9, with Speaker Table and Magnetic Speaker, but without tubes or antenna equipment.

1F11432	Walnut Finish	Net \$67.00
1F11433	Chinese Red Finish	
1F11434	Nile Green Finish	
1F11404	Old Ivory Finish	
List \$130.00		

Complete with 5 type 26 AC amplifier tubes, 1 type 27 AC detector tube, 1 type 230 full wave rectifier tube, and complete Antenna Equipment, ready to operate.

1F11435	Walnut Finish	Net \$81.75
1F11436	Chinese Red Finish	
1F11437	Nile Green Finish	
1F11438	Old Ivory Finish	
List \$165.00		

*Unsurpassed
Beauty in the
Alcazar
Console*

*Marvelo
AC 8-9
Receiver*

\$97⁰⁰
Net



Freight
Allowed
To Your
City

See
Page 260

Genuine All-Electric Performance

You must own an AC receiving set to appreciate fully all the advantages of this better and simpler method of choosing the pick of all broadcasts. Its very simplicity of operation is a revelation of delight. Just think—no batteries, eliminators, chargers, or other equipment to worry over. Just plug the wire into the nearest light socket, turn on the switch, and there you are. Nothing could be easier. A child can do it easily. You will never realize the perfection of this Marvelo AC 8-9 Receiver until you have it in your own home and have

enjoyed your first evening's entertainment. The far away stations that you have always hoped to hear come to you so clear and distinct that you will hardly believe your ears. The receiver in this beautiful cabinet has been designed and built by radio experts who have spared no trouble to make this set the peer of all AC receivers. Read page 10 of this catalogue for a detailed description of this marvelous receiver. The illustrations on these pages will give you a definite idea of the beautiful workmanship and expert design of this receiver.

A Very Beautiful Console

A beautiful console indeed is the Alcazar. Made of genuine American Walnut plywood, it is sure to keep its lovely appearance for many years. The sliding doors are matched butt walnut. They will never be in the way. The dimensions are 50 inches high by 27 1/2 inches wide by 17 inches deep. You can have your choice of either Magnetic Cone Speaker or Dynamic Cone Speaker. Both are of excellent quality and will give wonderful results, but the Dynamic is recommended where more volume is desired.

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Rigid Marvelo Guarantee

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

**Extremely Low Wholesale
Prices**

1F11555 Console Model Marvelo All-Electric AC 8-9, equipped with Magnetic Cone Speaker, less tubes and antenna equipment.

List \$185.00 Net **\$97.00**

1F11556 Same as above, but with full set of genuine AC tubes and all necessary antenna equipment. Complete, ready to operate.

List \$215.00 Net **\$111.25**

Dynamic Speaker Type

1F11557 Console Model Marvelo All-Electric AC 8-9, equipped with Dynamic Power Speaker, less tubes and antenna equipment.

List \$215.00 Net **\$111.00**

1F11558 Same as above, but with full set of genuine AC tubes and all necessary antenna equipment. Complete, ready to operate.

List \$245.00 Net **\$125.25**





Freight Allowed to Your City See Page 260

*Superb
Tone Quality
with Either
Dynamic or
Magnetic
Speaker*

\$ **101⁶⁰**
NET

*Casalona
Console*

Marvelo Model AC 8-9 Receiver

For the Finest Homes

The Casalona Console shown above is perhaps one of the most beautiful models ever shown. Either open or closed it is sure to please the eye. The make up of the cabinet is one of extreme style, grace and charm, and its appearance in any home will immediately suggest refined judgment on the part of the owner.

Deep, Natural, Rich Tone

Marvelo's new standards of radio reproduction assure you of absolutely the finest possible tone quality and volume. Extra large size audio transformers, properly bypassed to eliminate howls and squeals, are used in order that all notes in the entire musical scale may be reproduced in their proper pitch and with equal volume.

Push Pull Audio

The last stage of audio frequency amplification in the Marvelo AC 8-9 consists of two type 171 tubes in a push pull system. This superior method of amplification doubles the power handling capacity of the receiver so that it easily delivers a much greater amount of undistorted power to the speaker. For maximum volume with this receiver or any other receiver utilizing a push pull amplifier the Marvelo Dynamic speaker is especially recommended.

Attractive Cabinet

The sliding doors on the Casalona push back in cabinet so that they are never in the way—an exclusive feature. Made of genuine 5 ply walnut veneer and finished in a high-lighted satin walnut. Both the doors and the apron are decorated with fancy carved moldings. Size of cabinet: 49 in. high, 30 in. wide, 16½ in. deep.

Low Wholesale Prices

1F11526 Casalona Console Model Marvelo All-Electric AC 8-9, equipped with Magnetic Cone Speaker, less tubes and antenna equipment.

List \$195.00 Net **\$101.60**

1F11525 Same as above, but with full set of genuine AC tubes and all necessary antenna equipment. Complete, ready to operate.

List \$225.00 Net **\$115.85**

Dynamic Speaker Type

1F11527 Casalona Console Model Marvelo All-Electric AC 8-9, equipped with Dynamic Power Speaker, less tubes and antenna equipment.

List \$225.00 Net **\$115.60**

1F11528 Same as above, but with full set of genuine AC tubes and all necessary antenna equipment. Complete, ready to operate.

List \$255.00 Net **\$129.85**

One Dial Tuning

The Marvelo AC 8-9 is a true single dial receiver which easily tunes from one station to another by merely turning the center knob. A second knob turns the set off and on, while the third knob controls the volume.

The illuminated dial is plainly marked so that it is an easy matter to return to a station once you have taken its dial setting.





\$107⁵⁰
NET

**Cambridge
Console**

Freight
Allowed to
Your City
See Page
260

Marvelo Model AC 8-9 Receiver

Unlimited Power

When listening to distant stations, a receiver with unlimited reserve power is very desirable, if loud speaker volume is to be had. This very important feature is the one great reason why the Marvelo AC 8-9 excels in getting the far-away programs. The special design and construction of this receiver give it such great amplifying power that one will very seldom care to use all of it.

Foolproof Chassis

A moment's glance at the chassis of the Marvelo AC 8-9 will immediately impress you with its precision construction. Each part entering into the construction is subjected to severe tests so that any defect may be found before it is built into a set. This, however, is not all, for after the receiver is completed, it is given an "air test" which means that it must meet with our rigid requirements for distance, sensitivity, selectivity, volume and tone quality. Complete confidence is thereby assured you when ordering this receiver.

Full technical description given on page 10. Turn to it now.

Elegant Cabinet Beauty

The Cambridge Console is a fitting piece of furniture to match the decorative scheme of any room. It is made of choice walnut veneer and finished in a satin walnut finish. Artistic speaker grille gives effect of fine hand carving. Large size drawer beneath set. Size of cabinet, 52 inches high, 33 inches wide and 18 inches deep.

Wholesale Prices

1F11450 Marvelo All-Electric AC 8-9 Cambridge Model with Magnetic Cone Speaker, less tubes and antenna equipment.
List \$200.00 Net **\$107.50**

1F11452 Same as above but with full set of Genuine AC Tubes and antenna equipment. Complete ready to operate.
List \$230.00 Net **\$122.25**

1F11454 Marvelo All-Electric AC 8-9 Cambridge Model equipped with Dynamic Power Speaker, less tubes and antenna equipment.
List \$230.00 Net **\$121.50**

1F11456 Same as above with full set of Genuine AC Tubes and antenna equipment. Complete ready to operate.
List \$260.00 Net **\$136.25**

Judge It Yourself

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.





*Superior
Radio
Performance*

with the

*Marvelo
Stage Shielded
AC 7-8*

\$83⁷⁵

**Supreme Artistry in the
Verona Console**

Seldom will you see such beauty and gracefulness as is embodied in this elegant Verona console. Made of genuine mellow brown American walnut plywood, it will long be an adornment to your home. This console is a product of one of the foremost cabinet studios in this country. All the skill of the master craftsman has entered into this lovely design. It is so distinctive that it will never be out-of-date, but will always be a modern piece of furniture. A great deal of charm is added by the beautiful two-tone scroll work on the matched butt walnut doors. The outside dimensions of the con-

sole are 42 inches high, 24 inches wide, 17 inches deep.

You have your choice between the Magnetic Cone Speaker and the Dynamic Power Speaker. Either of these popular types is entirely satisfactory. Both are renowned for their rich, true tone qualities. The Dynamic Power Speaker is, however, more popular when extraordinary volume is desired, as for example, in public halls, theaters, etc. Its advanced design permits it to give tremendous volume without in the least way distorting the broadcast. Both of these speakers are described in full on pages 65 and 66, respectively.

Stage Shielded AC 7-8

This perfected Stage Shielded Marvelo AC 7-8 is one of the most compact and efficient receivers of this type made. With it, you will have no trouble in reaching out for the far-away stations that you have always desired to hear. They will come to you loud and clear through the wonderful Magnetic Cone or Dynamic Power Speaker—whichever you choose. You will be amazed at the ease with which you can operate this set. What is more, it is all electric in operation. There are no batteries, eliminators, or chargers to fuss with. You just plug it in the nearest light socket, and it is ready to entertain you at any hour of the day or night. A complete description of this receiver will be found on page 10 of this catalog.

Rock Bottom Prices

1F11405 Marvelo Stage Shielded AC 7-8 Verona Console Model, equipped with Magnetic Cone Speaker, less tubes and antenna equipment.

List \$150.00 Net **\$83.75**

1F11406 Same as above, but equipped with Dynamic Power Speaker.

List \$180.00 Net **\$97.75**

**Complete—Ready
To Operate**

If you wish the above models complete, ready to operate, add \$13.50 to the prices given. Equipment includes full set of AC tubes and all necessary antenna parts.



**We Carry a Full Line of
Television Supplies. See Page 162**

*Dynamic
or
Magnetic
Speaker
As You
Prefer*

\$84⁵⁰

*Antonia
Console*



Freight
Allowed
to Your
City
See Page
260

Marvelo Model AC 8-9 Receiver

One of the most popular models of a really fine receiver—The Marvelo All-Electric AC 8-9.

The console is a real masterpiece of fine cabinetmaking. Only the very finest materials are used in its construction. Its design was inspired from the Old Spanish Treasure Chest—as indeed it is! It houses behind the beautiful scroll grille either a Dynamic or Magnetic

Cone Speaker, both famed throughout the world as ideal radio reproducers. The exterior is of choice figured and matched butt Walnut veneer in dull rubbed natural brown color. A distinctive touch has been added by the use of the tastefully ornate Spanish hardware. Size of console: 44 inches high, 28 inches wide, and 17 inches deep. Read below about the true AC receiver housed in this exceedingly beautiful cabinet.

A Receiver Comparable to the Finest

The Marvelo All-Electric AC 8-9, described in detail on page 10, makes the Antonia one of the finest console radios ever offered. When you consider that this set is the last word in up-to-date radio engineering having every feature that has been proved necessary for good reception, and many exclusive features found in no other set, you know that our low prices represent exceptional merchandise values.

Marvelously Clear Reproduction

The true realism of Marvelo tone quality is a wonder to all who have heard it. The Dynamic Speaker, described on page 66, or the Magnetic Cone Speaker, described on page 65, is standard equipment with this receiver. Whichever you prefer, you can be assured that you are getting the best, for both types are acknowledged leaders in their respective fields.

The long range and volume of this set will please you. Its hairline selectivity puts it in a class by itself, for it easily

separates all stations 10 KC or more apart.

Everything you want in a radio set is incorporated in the Marvelo AC 8-9—good looks, up-to-dateness, wonderful performance, long life and dependability. It is the radio sensation of the season!

Antonia Wholesale Prices

1R11561 Antonia Console Marvelo All-Electric AC 8-9, equipped with Magnetic Cone Speaker, less tubes and antenna equipment.

List \$150.00 Net **\$84.50**

1R11562 Same as above, but equipped with Dynamic Power Speaker.

List \$180.00 Net **\$98.50**

Complete Equipment

If complete equipment for immediate operation is desired, add \$14.75 to the prices given. This includes full set of genuine AC tubes and all necessary antenna parts.



We Pay Freight As Per Offer Given on Page 260



Montclair Console

with the

Approved

Marvelo AC 8-9

\$71⁰⁰

Outclasses All Competition In Performance and Price

The Montclair is, indeed, in a class by itself. Truly an outstanding example of the tremendous power there is in purchasing in huge quantities. Only by reason of the best co-operation, with us on the part of the manufacturer are we now able to offer you an all electric 8-9 console at such a remarkably low price. Do not confuse the Montclair with other consoles of similar appearance. Again we say the Montclair is in a class by itself. It is destined to become one of the most pop-

ular low-priced all electric radios on the market. Within the reach of even the man of modest income, it brings to the home all the enjoyment of the higher-priced radio. In performance the Marvelo AC 8-9 Receiver is surpassed by none. Its construction embodies all of the latest advanced radio engineering ideas. It is built by experts who have had many years of experience in the industry.

Genuine Walnut Console

The two-tone walnut finish of the charming Montclair console agrees with the dictates of modern furniture designers. Nearly all the most expensive consoles exhibited at the recent radio show in New York City were finished in two-tone walnut. Barawik takes pleasure in offering you this advanced model at an extremely low price. Never has your radio dollar purchased more beauty and refinement than in the Montclair. The delicately fluted legs with the graceful turnings leading to the fluted corner pilasters of the cabinet add an effective note not found in the ordinary console at this price. The size of the console is 40x25x15 inches deep. All in all you will find this Montclair an outstanding value.

All Electric Operation

You just plug into your nearest socket. That is all you need to do. No batteries or eliminators to bother with. For performance you will find this AC 8-9 all that you could want in a radio. A detailed description will be found on page 10.

Magnetic or Dynamic Speaker

There are no better speakers made. You have your choice between the two. The Dynamic is more popular right now, as it gives more volume. Both, however, will give perfect reproduction of any music, speaking, or other forms of entertainment.

Marvelo Challenges
Comparison With Others

Save Money Here

1F11409 Montclair Marvelo All-Electric AC 8-9, equipped with Magnetic Cone Speaker, described on page 65, less tubes and antenna equipment.

List \$140.00

Net \$71.00

1F11410 Same as above but equipped with Dynamic Power Speaker, described on page 66.

List \$170.00

Net \$85.00

Freight allowed, see details on page 260.

Complete Ready to Operate

If complete equipment for immediate operation is desired, add \$14.75 to the prices given. We will then include full set of genuine AC tubes and all necessary antenna equipment.

**Greater
Volume—
and
Distance**

**Elverano
Console**

\$78⁷⁵

**Complete with Magnetic
Cone Speaker**



**See Page 260
for Our
Freight
Allowance
Offer**

Marvelo All Electric 8-9 Receiver

Brings in Distance with Ease

Never before a value like this Marvelo. Radio sets have been on the market for years, and each year the improvements made have been in keeping with the best engineering practice. This season, however, we offer you the Elverano Model Marvelo AC 8-9 All-Electric Radio; a set that is by far the most remarkable value ever offered. This rich appearing console model is of early American period design, and comes to you with either a magnetic cone, or dynamic cone speaker, as you prefer.

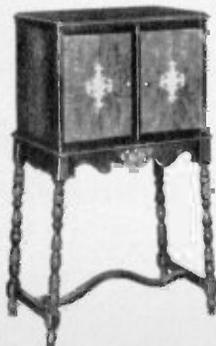
Expensive Servicing Eliminated

In the Marvelo's superb construction, sturdy bridge-type chassis, cable wiring, special apparatus to prolong life of AC tubes, quiet, practically hum-free operation and easy tuning qualities, your dreams of radio perfection will come true.

Even though long distance reception is not a vital necessity in present-day receivers, the Marvelo AC 8-9 easily brings in the far-away stations with surprising results. Its single dial tuning makes operation a pleasure to children as well as grownups. Even on distant stations it graduates smoothly from a whisper to a thundering volume with an amazingly superior tone that is as life-like as the studio music itself.

Delicate Beauty

The beautiful Elverano Model cabinet design is just another striking example of Marvelo's leadership. The delicate and shapely legs are slightly inclined outwards, thereby imparting an air of distinction. Thoroughly seasoned genuine 5-ply walnut veneer hand rubbed to a two-toned high-lighted walnut finish places this cabinet in a class by itself. The addition of this rare piece of furniture in any living room or den will instantly improve the appearance, and harmonize with the surrounding furnishings. And of equally great importance is the price, which will insure you big volume sales on this number.



With Magnetic Cone Speaker

1R11497 Magnetic Speaker type, Elverano Model Marvelo All-Electric AC 8-9, complete with five 226 type AC, one 227 type AC detector, two 171A type power and one 280 full wave rectifier tubes. Antenna equipment and instructions. Ready to operate, nothing else to buy.

List Price \$170.00 Net **\$95.40**

1R11498 Same as above, less tubes and antenna equipment. List Price \$140.00 Net **\$78.75**

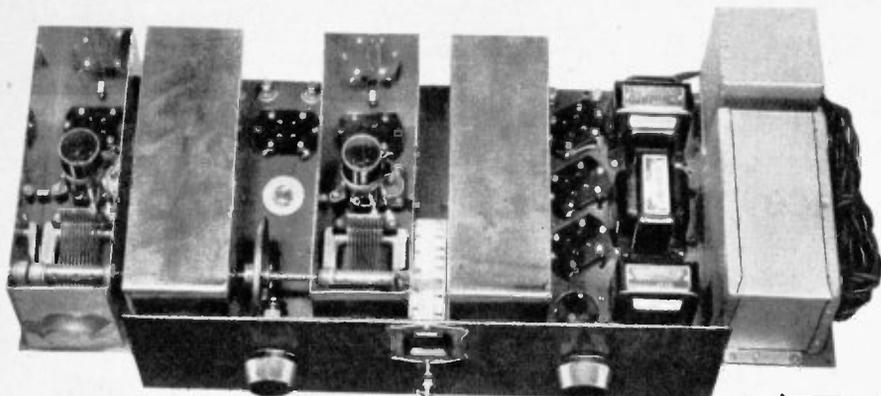
With Dynamic Cone Speaker

1R11495 Elverano Model, complete with Dynamic speaker and full equipment, including five 226 AC, one 227 type AC detector, two 171A type power amplifier and one 280 type full wave rectifier tube; complete antenna equipment and detailed instructions. Nothing else to buy, ready to operate.

List Price \$205.00 Net **\$105.40**

1R11496 Elverano Model, complete with Dynamic Speaker, less tubes and antenna equipment. List Price \$175.00 Net **\$88.75**

All Prices Quoted Are Net—There Are No Further Discounts



Marvelo

Stage Shielded AC 8-9

A Precision Made Chassis

Powerful—Selective—Sensitive

\$73⁵⁰



Table Model Marvelo Stage Shielded 8-9

Combining the Latest Principles for Better Reception

Easily the sensation of the radio season this year! Full, rich, clear toned and realistic reproduction never before thought possible. Extraordinary selectivity, making possible satisfactory reception under the most trying conditions, places any music in the air at your instant disposal—all you need to do is turn the switch on and turn the dial. It's so easy that a child can tune it as well as the grown-ups.

This marvelous creation of radio science combines the skill of the technical mechanic and the knowledge of the radio engineer to the highest point of development yet reached. It is unquestionably a masterpiece.

Nothing to Wear Out

There is practically nothing in this set to ever give you trouble. An over-size power pack using an 80 type tube delivers proper voltage to each tube. This power pack is so generously designed that a 20 per cent overload cannot harm it. A special switch allows you to keep line fluctuations from burning out tubes.

Beautiful Cabinet

This remarkable radio has been fitted in a choice walnut cabinet which is hand rubbed to a velvety finish. It measures 30 inches long, 15 inches wide, and 11 inches high.

Low Wholesale Prices

1R11820 Marvelo Stage Shielded AC 8-9 Table Model, less tubes and antenna equipment. List \$147.50 **Net \$86.73**

Chassis Sold Separately

Fits any cabinet 26 inches wide, 12 inches deep, and 8 inches high or larger. 1R11821 List \$125.00 **Net \$73.50**

For Complete Operation

Add \$14.75 to the above prices and we will include full set of AC tubes and all necessary antenna equipment.

Technical Description

A special bridge circuit of unique design is used with great success in the Marvelo Stage Shielded AC 8-9. Four RF stages, one of which is untuned, detector, and two stages of audio, the last stage being a push-pull 171A power amplifier. This specially constructed amplifier is responsible for the tremendous power this receiver possesses.

Individual Stage Shields

In the superior construction of this receiver you will find separate metal shields for each radio frequency stage. In this particular set this special and thorough shielding has been resorted to so that its sensitive RF coils cannot pick up strays and nearby powerful broadcasting stations, commonly known as "coil pickup." Because of this careful construction, a new degree of selectivity has been reached. You need never worry about interference, for this set separates all stations with ease.

Powerful Audio Amplifier

In designing the Marvelo Stage Shielded AC 8-9 we had but one thought in mind, and that was, the customer must get the best. That is why the audio amplifier is of unusual design. In the construction you will find one straight stage of audio using giant size transformers, and then a push-pull power stage using two 171A tubes for still greater volume without distortion and fuzzy tone. The result of this new designing gives exceptional power with superb tone quality—clear, bell-like, vivid and realistic.

A True AC Receiver

The bugbear of trouble eliminated forever! A big statement, to be sure, but nevertheless true when you have the Marvelo Stage Shielded Receiver. All it requires is plugging into the light socket and connecting antenna and ground. Could anything be more simple?

9 Tubes



\$138⁰⁰_{NET}

Cambridge Console

Full Technical Description
Given on Page 20. Turn to
It for Further Information.

Marvelo Stage Shielded A C 8-9

Lovers of music, home owners, and critical radio fans will find this truly remarkable receiver a welcome addition in any home. Its clear, bell-like, and vivid reproduction of all broadcast entertainment gives it a distinction unrivaled by most others. The console is made of selected walnut veneers and finished in a soft shade of dark walnut. A striking grille resembling hand carving hides the powerful speaker from view. Size of console: 52 inches high, 33 inches wide, and 18 inches deep.

Marvelo Guarantee

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

Unexcelled Tone Quality

So realistic is the reproduction of this fine receiver that one actually finds it hard to believe that such realistic entertainment could be coming out of a radio set. Both nearby and far-away stations may be brought in from a mere whisper to a thundering volume and with an amazingly superior tone that is as life-like as the studio music itself. The powerful audio amplifier together with the speaker, whether it be a dynamic or magnetic cone, produces clear, full toned reproduction unsurpassed by others.

These Low Prices Will Please You

Unlike others, the Marvelo is sold on a very small margin of profit. The discount is far lower than other manufacturers allow you while the quality is at least equal if not better. A few minutes trial with you at the dial will convince you.

Dynamic Speaker Equipped
1F11464 Marvelo Cambridge Console AC 9 tube receiver with dynamic speaker less tubes and antenna equipment. **\$152.00**
List \$285.00 Net

With Magnetic Cone Speaker
1F11463 Marvelo Cambridge Console AC 9 tube receiver with magnetic cone speaker less tubes and antenna equipment. **\$138.00**
List \$250.00 Net

Complete Equipment—Ready to Operate
Add \$14.75 Net to the prices given and we will include 9 AC tubes and all necessary antenna parts for complete installation.



We Pay Freight As Per Offer Given on Page 260



*Dynamic
or
Magnetic
Speaker
Equipped*

Freight
Allowed
to Your
City
See
Page
260

\$ **130⁴⁵**

**Alcazar
Console**

See Page 20
For Full Technical
Description

Marvelo Model Stage Shielded AC 8-9

The Marvelo Model Stage Shielded AC 8-9 Alcazar Console is considered by many to be one of the most beautiful and tastefully designed radio cabinets on the market. This cabinet, constructed of America's finest walnut veneers, is finished in a very attractive walnut finish.

A unique feature of this newly designed radio Console is the sliding doors which are never in the way when the set is being operated.

The size of cabinet is 49 inches high, 30 inches wide, and 16½ inches deep.

This receiver is especially recommended in congested broadcast districts where interference is great. The individual stage shields prevent the radio frequency circuit from picking up interfering noises, which is a decidedly great advantage when tuning for distant stations.

Turn to page 20 and read thoroughly the technical description of this marvelous receiver. Then you'll know why we claim there is no finer receiver made.

Greater Ease of Operation

So easy to operate that a small child can bring in distant stations as well as the grown-ups. The illuminated drum dial, turned by one knob needs only a slight turn to go from one station to another, while a second knob controls the volume. The third knob turns the set off and on. Could anything be more simple?

Rich, Clear, Vivid Tone

The owner of the Alcazar Console Marvelo AC Stage Shielded 8-9 will be delighted with its marvelous performance and elegant tone quality. The super audio amplifier containing extra large size audio transformers together with a type 171 push pull stage make it one of the finest examples of present day engineering.

Low Wholesale Prices

1F11730 Alcazar Marvelo AC Stage Shielded 8-9 equipped with magnetic cone speaker, less tubes and antenna equipment. List \$240.00 Net **\$130.45**

1F11731 Same as above but with full set of AC tubes and all antenna equipment. Ready to operate. List \$270.00 Net **\$145.20**

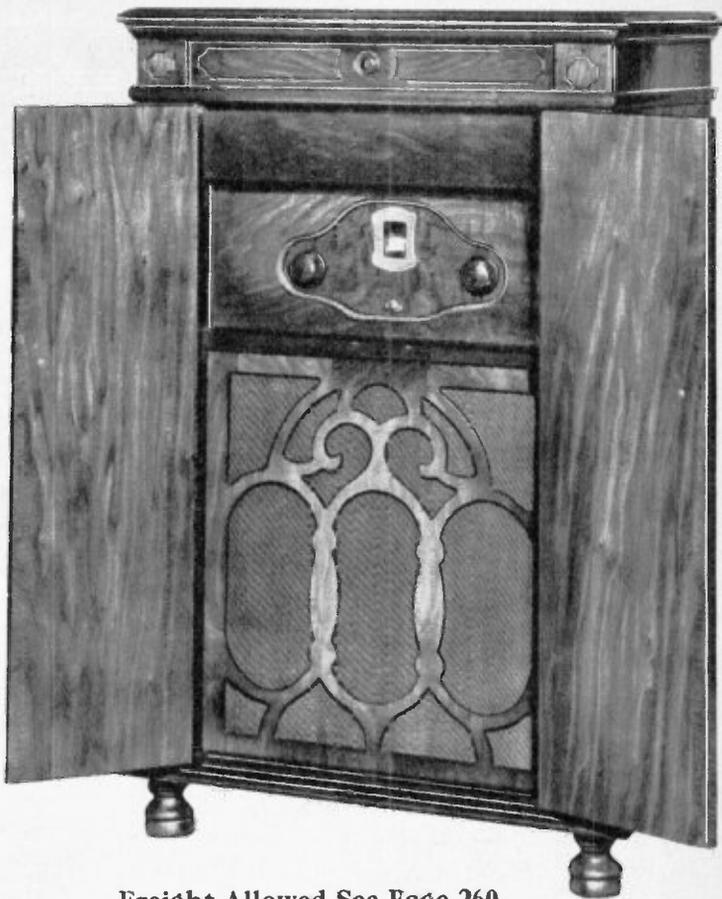
1F11732 Alcazar Marvelo AC Stage Shielded 8-9 equipped with dynamic power speaker, less tubes and antenna equipment. List \$270.00 Net **\$144.45**

1F11733 Same as above but with full set of AC tubes and all antenna equipment. Ready to operate. List \$300.00 Net **\$159.20**



*Makes a
Beautiful
Addition to
Any Home*

\$ **123**⁰⁰_{Net}



**Sherbrooke
Console**

Freight Allowed See Page 260

Marvelo Stage Shielded AC 8-9

Performance—Appearance—Equal to the Best

**Marvelo
Welcomes
Comparison
With Others**

For ease of operation, stability and tone, the Marvelo All-Electric Stage Shielded AC 8-9 is the very best. Here is the kind of set you will enjoy owning, for its simple tuning and all electric operation is a joy to everyone. The set is so designed that servicing and troublesome repairs are seldom necessary.

The console is of Spanish design in all its richness and charm, constructed of finest American Walnut with front panels of Butt Walnut. Magnificent carved grille and mouldings, all finished in velvety smooth, hand-rubbed and polished walnut. Dimensions: 45 inches high, 28 inches wide, and 17 inches deep. For full technical description see page 20.

Long Air Column Horn Gives Wonderful Tone Quality

In keeping with our policy of giving the customer the best on the market for the lowest prices, we have equipped the Sherbrooke with the famous long air column horn fitted with a Concert Grand Speaker unit, one of the finest units made. The specially designed audio sys-

tem, using a stage of push pull type 171 amplification, gives enormous volume without distortion. The combination of this amplifier, together with the concert unit and air column horn, give amazing tone that few others equal.

Distance—Selectivity

Few other sets equal the Monroe Stage Shielded AC 8-9 for distance and selectivity. Due to the special circuit which is perfectly balanced and the complete and thorough shielding of all parts, new peaks of perfection have been attained in getting distance without interference. The individual stage shields prevent the sensitive R. F. coils from picking up stray energy, which helps to prevent interference.

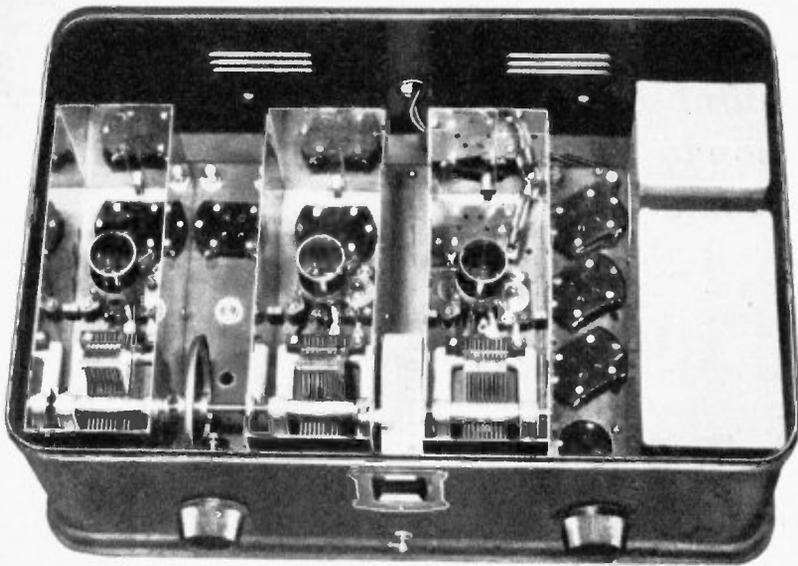
Note These Low Prices

1R11823 Sherbrooke Model Marvelo Stage Shielded AC 8-9, less tubes and antenna equipment. Carefully packed and shipped freight paid to your city. See offer on page 260.
List \$225.00. **Net \$123.00**

With Complete Equipment
Complete, ready to operate. Includes full set of genuine AC Tubes and all necessary antenna equipment. If this equipment is desired add \$14.75 to the price given above.



All Prices Quoted Are Net—There Are No Further Discounts



Marvelo 7-8 Stage Shielded All-Electric AC Receiver

\$52⁹²



Marvelo AC
7-8 Stage
Shielded
Table Model

Precision Construction

The precision construction of the Marvelo All-Electric AC Stage Shielded 7-8 is evident at first glance. It is built like a watch, so exact is its makeup. The careful selection of parts, coupled with expert assembling and wiring, makes it one of the finest sets ever offered.

The Circuit

The circuit consists of one untuned, two tuned stages RF completely shielded, detector, and two stages of audio frequency amplification, the last stage being a push-pull double power handling capacity amplifier. A highly efficient bridge circuit in the RF end, perfectly balanced, gives this set a degree of selectivity and sensitivity attained by few others.

A Powerful Receiver

You will be amazed at the tremendous power the Marvelo Stage Shielded 7-8 possesses. Its ability to pick up the feeble radio impulses out of the air and amplify them with tremendous volume places this receiver in a class by itself.

RF Coils and Condensers

The high degree of perfection attained is exemplified in the specially shaped RF space wound solenoid coils. The tuning condensers connected to these coils are fuggedly made to hold their calibration, and after compensating at the factory, they need never to be touched.

Super Audio System

In order to fully take care of the tremendous power delivered by the RF, detector, and first audio stages, a push-pull power amplifier is used. This is the secret of the great volume and extraordinary tone quality this set possesses.

Radio's Latest Sensational Success

A new creation by distinguished radio engineers who class this set as the crowning achievement of their careers. These engineers, well known in radio circles, have brought to the highest point of development the skill of the mechanic and the ingenuity of the greatest radio minds in the country. The result is the smooth, positive action, true single dial tuning that needs only a slight turn of the knob to bring in the station you want. No easier control, nor more reliable, has ever been devised.

So perfectly made is the Marvelo AC 7-8 that distance, selectivity, volume and realistic tone are forever present whenever the switch is turned on. You never need to make excuses, for it gets everything in the air and reproduces with great power and fidelity of tone. And its value is such that very few other manufacturers can begin to equal it.

A Thing of Beauty

In keeping with the trend of modern styles, a fitting art metal cabinet has been designed for this set. It not only adds beauty to the room, for in addition to this it acts as a double shield for the efficient inner workings of this great receiver, thereby increasing its selectivity. Size of cabinet 19½ inches long, 8½ inches high, and 12½ inches wide.

True AC Receiver

Never requires attention for batteries, chargers, etc., are eliminated. Contains a special power pack, using a type 280 rectifier tube, which is designed with a high factor of safety. It may be overloaded 20 per cent without danger of impairing efficiency.

Wholesale Prices

1R11745 Marvelo AC 7-8 Stage Shielded Art Metal Table Model as shown above, less tubes and antenna accessories. List \$96.00 **Net \$55.84**

Chassis Sold Separately

For mounting in your own cabinet. Will fit in a space 18½ inches wide, 7 inches high, and 10 inches deep. Front panel is 7x18 inches.

1R11746 Chassis only. List \$90.00 **Net \$52.92**

Complete—Ready to Operate

Add \$13.50 to the prices given above and we will equip the Marvelo AC 7-8 with full set of genuine AC tubes, and all necessary antenna parts.

Dutchess Console

The
Radio
With A
Personality

\$103⁰⁰
Net

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.



Save
Still More
See
Page 260
For Freight
Allowance

MARVELO STAGE SHIELDED AC 7-8

For stunning beauty, it would be difficult to imagine anything more charming than this beautiful and massive model. It incorporates both the master handiwork of the cabinet maker and the ingenuity of the experienced radio engineer. The console is made from choice figured, matched butt walnut veneer and finished in a soft natural walnut color.

This sets off to the best advantage the charming and striking design. It is richly ornamented by a series of mitered return mouldings and generous spindle carvings—the true Spanish style. Dimensions of cabinet: 50 inches high, 27½ inches wide, and 17 inches deep. Shipping weight 125 pounds.

Superb Tone Quality

Behind the elaborate grille will be found the speaker compartment. It houses either a Dynamic Power Speaker (described on page 66) or a Magnetic Cone Speaker (described on page 65), whichever you prefer. Both types provide a richness and sweetness of tone seldom attained. The dynamic type being chosen by those who prefer the tremendous volume necessary for halls and auditoriums, theaters, and clubs.

WONDERFUL PERFORMANCE

This beautiful console has the new 7-8 tube AC. Marvelo Stage Shielded Chassis, fully described on opposite page. With an illuminated single dial to tune and one volume regulator to bring down the thunderous volume, you have full command of the air at any time. If there is music in the air, you can be sure that the Dutchess Model will get it.

Technical description given on page 24.

Save on These Low Prices

1R11465 Dutchess Console Model Marvelo Stage Shielded AC 7-8 with Magnetic Speaker, less tubes and antenna accessories. **\$103.00**
List \$175.00 Net

With Complete Equipment

1R11466 Same as above but with complete equipment ready to operate. Includes full set of genuine AC tubes and all necessary antenna equipment. **\$116.50**
List \$202.50 Net

1R11467 Dutchess Console Model Marvelo Stage Shielded AC 7-8 with Dynamic Speaker, less tubes and antenna equipment. **\$117.00**
List \$205.00 Net

1R11468 Same as above, but with complete equipment, ready to operate. Includes full set of AC tubes and all necessary antenna equipment. **\$130.50**
List \$232.50 Net





Single
Dial
Tuning

Freight
Allowed
See Page
260

\$103⁰⁰

*Malaguena
Console*

Marvelo Stage Shielded AC 7-8

The Malaguena Console Model Marvelo Stage Shielded 7-8 is a beautiful piece of furniture that will enhance the appearance of any room in which it is placed. It is a true example of Spanish design cabinet. The double swing doors are of the finest butt walnut, perfectly matched for grain and finish. They swing flat against the cabinet and are never in the way. The gracefully designed spiral legs are solidly braced by a back

stretcher. Below the radio set is an artistically carved grille which effectively conceals the speaker from view.

The Malaguena is made of genuine walnut, the beauty of which is outstanding as a cabinet wood. It matches the finest furniture and looks well in any home. Convenient door pulls are located in the center of each door. You will find this cabinet rich in appearance and of the highest class workmanship. Size 43 1/2 inches high, 24 1/2 inches wide and 16 inches deep.

Radio At Its Best

This improved receiver is one of the finest of its type. The thorough individual copper shielding surrounding each stage of amplification insures you of the best possible results at all times.

Few other sets of its type equal the Marvelo AC stage shielded 7-8 for distance and selectivity. Due to special circuit design new peaks of perfection have been attained in getting distant stations without interference. For full technical description turn to page 24.

Easy To Operate

It is exceedingly easy to tune this receiver. Its single illuminated drum dial needs only a turn to bring in the program you want. There are no compensators to adjust, nor any other control except the volume knob and the off and on switch. The operation is, in fact, so simple that a child can operate it with the best of results.

Marvelous Tone Quality

Regardless of whether you choose the dynamic or Magnetic cone speaker, you will have the finest tone quality. These speakers are noted for their realistic reproduction of all broadcasts: entertainment.

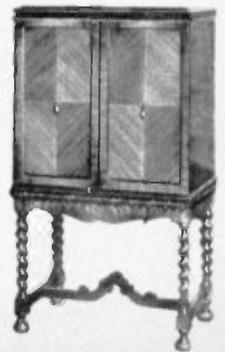
Wholesale Prices

1F11801 Malaguena with Magnetic Cone Speaker, less tubes and antenna equipment.
List \$180.00 Net **\$103.00**

1F11802 Same, but with set of AC Tubes and all antenna equipment.
List \$207.50 Net **\$116.00**

1F11803 Malaguena with Dynamic Speaker, less tubes and antenna equipment. List \$210.00 Net **\$117.00**

1F11804 Same, but with set of AC Tubes and all antenna equipment.
List \$237.50 Net **\$230.00**



THE BARAWIK CO., CHICAGO, ILL.

*Powerful
Sensitive
Selective*



Freight
Allowed
To Your
City
See Page
260

\$83⁷⁵
NET

*Verona
Console*

Marvelo Stage Shielded AC 7-8

Very Powerful

Few other receivers have the reserve power which you will find in the Marvelo Stage Shielded AC 7-8. The power is so great that you will seldom care to use it all. Ample volume for entertaining large groups may be had at any time.

Reception At Its Best

You are absolutely assured of reception at its best when you have the Marvelo Stage Shielded AC 7-8 tube receiver in your home. For the person who does not care to waste time tuning in stations, this receiver is heartily recommended for only a slight turn of just one knob gives you the program you want.

Exquisite Cabinet Beauty

The cabinet, design and workmanship truly reflects the work of master craftsmen. It is made of walnut veneer and finished in a beautiful dull rubbed velvety smooth satin walnut finish. The richly designed speaker grille, backed by a dull gold colored cloth sets off the remaining part of the cabinet beauty. The dimensions of the cabinet are: 42 inches high, 24 inches wide, and 17 inches deep.

Your Choice of Speakers

Due to the tremendous strides made in radio during the last year great improvements have been made in speaker designs. The outstanding examples of this rapid progress are the magnetic cone speaker and the dynamic power speaker. In keeping with the usual Marvelo policy of giving the customers the best, we are equipping the Verona with either of these speakers, as you prefer. Both types are noted for tone clear reception and regardless of the type you choose we know you will be satisfied.

Technical description given on page 24.

Our Liberal Trial Offer

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

Surprisingly Low Prices

1F11405 Marvelo Stage Shielded AC 7-8 Verona Console Model, equipped with Magnetic Cone Speaker, less tubes and antenna equipment.

List \$150.00 Net **\$83.75**

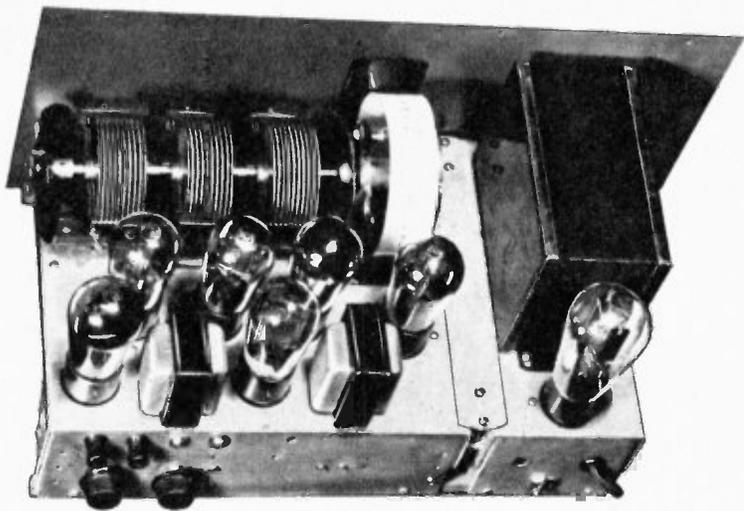
1F11406 Same as above, but equipped with Dynamic Power Speaker. Net **\$97.75**

Complete—Ready To Operate

If you wish the above models complete, ready to operate, add \$13.50 to the prices given. Equipment includes full set of AC tubes and all necessary antenna parts.



Marvelo Model AC 6-7 Chassis



Compact, Reliable, Efficient

Why the Marvelo Is Better

Excellent constructional improvement and new circuit discoveries make the Marvelo one of the outstanding radio sets of the season. Take for instance the first stage of radio frequency amplification which, together with the remaining two stages, amplifies the feeble electrical energy present in the air, millions of times. This first stage is aperiodically tuned—that is, it automatically compensates for any length antenna, large or small. No more is it necessary to make the antenna a certain length for maximum results—you get that without even thinking about it. We welcome your personal inspection of this receiver for we want you to find out the many other exceptional features that make this set surpass most others.

The Most Efficient Marvelo Circuit

Marvelo Radio sets are built along the soundest radio engineering principles. The circuit used is a perfectly balanced one using three stages of radio frequency amplification, a tuned detector circuit, and two stages of all frequency audio amplification. This superior type of circuit is the most reliable known for it assures the finest tone, volume, distance, and selectivity possible to obtain.

Wonderful Marvelo 6-7 Chassis

A complete all metal chassis, sturdily made, giving absolute rigidity and assuring perfect alignment of all parts. Easily withstands such abuse as shipping, demonstrating and rough handling. The chassis is cadmium plated, a beautiful white silvery-like finish. It is made small and compact to meet with modern requirements. This style chassis prevents tinkering with the delicate adjustments, and protects the various parts from dust and dirt. Socket contacts are double faced to insure positive contact at all times.

Illuminated Drum Dial

Extremely simplified true single dial control gives the Marvelo a great advantage over most other sets. Improved type vernier drum dial of special construction is used. This dial has a positive action drive with no lost motion and no backlash. It can be turned the smallest possible fraction of a degree with positive assurance that it will stay there. The "dyed-in-the-wool" fan will appreciate this, for it greatly helps in bringing in dis-

tant stations. The dial is brightly illuminated so that numbers are easily read at all times. This light also acts as a reminder to turn set off.

Simple to Operate

Just plug into the electric light socket—that's all the new Marvelo AC 6-7 needs. No batteries or eliminators to hook up or watch. No attention at all except to turn the panel switch off and on. Costs only a few cents a day to operate.

Comparison Proves Marvelo Leadership

In our laboratory, where every facility for radio set testing is available, practically all 6-7 tube AC sets now on the market were placed on test alongside the Marvelo. Repeated tests for distance, selectivity, sensitivity and tone quality were carried on night after night. Needless to say, the Marvelo proved to be equal to the best and better than most. Since the human ear is not a very reliable method of judging tone quality, a most rigid method was resorted to. Laboratory apparatus, built especially to order, proved without a doubt Marvelo's unexcelled tone quality, which, after all, is the one thing most desirable feature nowadays wanted in a radio. Order the Marvelo, test it any way you want to and then make your decision.

Marvelous Marvelo Chassis

All metal chassis, cadmium plated a silvery white finish, and ruggedly constructed to withstand roughest usage. All necessary parts are thoroughly shielded from outside interference. This shielding also protects the delicate parts from dust and tinkering. Double-faced sockets insure positive contacts. Cabled wiring prevents short circuits. Resin core soldering rustproofs all connections. Rubber grommets protect wires passing through metal chassis. Generous length cable from set to socket. Built-in, hum-free dry power pack. Perfectly balanced stages assure you of perfect operation the minute you connect it. Just plug into the light socket—that's all there's to it.

Chassis only, to mount in your own console or cabinet. Complete with all essential parts, wired, ready to operate. Tubes and antenna equipment not included. Shipping weight, 30 lbs. **\$32⁹⁵**
1R11494
List \$60.00

Net



FREIGHT
ALLOWED
SEE
PAGE
260

Full Toned
Magnetic
Cone Speaker
Gives
Unbelievable
Reproduction

\$52⁹⁵
NET

May Be Had in
These Popular
Colors:

BROWNTONE
NILE GREEN
CHINESE RED
OLD IVORY

Full Technical Description
Given on Page 28. Turn
to It Now and Read Why
Marvelo Excels.

Marvelo AC 6-7 with Speaker Table

The Combination Marvelo AC 6-7 and Magnetic Cone Speaker table to match shown above is perhaps the most amazing radio value ever offered in America. Its single dial tuning allows you to tune from one station to another with a mere turn of the tuning control, conveniently located below the illuminated wavelength drum dial. A second control needs only a slight touch to change from a thundering to a whispering volume, while the third control turns the set off and on. This setting up and operation of

this set is so simple that a small child can do it as easily as the grown-ups. Needs only plugging in the electric light socket, after the aerial and ground have been connected, for its operation. Could you wish for anything more simple?

Size of Speaker table 30 inches high, 25 inches wide, and 17 inches deep. Table may be purchased separately if desired. See page 64.

An Ideal Performer

You could not wish for a more ideal radio set, for the construction of this receiver is such that it performs equally well on both distant and nearby stations, regardless of your locality. Its ability to prevent interference on the station in which you wish to listen makes the Marvelo AC 6-7 one of the most outstanding radio sets offered anywhere this year.

For the Finest Homes

Many of the finer homes prefer this combination because of its artistic eye appeal. The delicately turned legs and cross stretcher are perfectly proportioned and it is needless to say that the grille behind which the speaker is located, enhances the beauty to a great extent. Any of the various expertly applied lacquer finishes, which are so popular at the present time, give new life to any room in the home.

Full Toned Speaker

The Marvelo Magnetic Cone Speaker, with which this combination is equipped has been chosen for its ability to reproduce the broadcast programs with realistic, life-like tone quality. Not a note in the entire musical scale is lost for it amplifies with equal volume all notes from the lowest to the highest. This clear and vivid reproduction is one of the main features of the 1929 Marvelo Radio Sets.

Comparable to the Finest

Laboratory tests as well as air tests over an extended period of time prove the Marvelo AC 6-7 equal to the finest sets of its type now being sold elsewhere. The precision construction and expertly designed circuit which make this super performance possible is explained in detail on page 28.

Our Prices Are Lowest!

Marvelo All-Electric AC 6-7 with Magnetic Cone speaker table to match, as shown above.

Browntone Finish without tubes or antenna equipment. **\$52.95**
1F11524—List \$100.00 Net

Browntone Finish with tubes and antenna equipment. **\$64.95**
1F11523—List \$122.50 Net

Without tubes and antenna equipment.
1F11520—Chinese Red Finish.
1F11521—Nile Green Finish.
1F11522—Old Ivory Finish. **\$55.45**
List \$105.00 Net

Complete with tubes and antenna equipment.
1F11517—Chinese Red Finish.
1F11518—Nile Green Finish.
1F11519—Old Ivory Finish. **\$67.45**
List \$127.50 Net



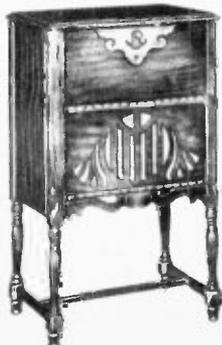
\$52⁵⁰

*Chancellor
Console*

Marvelo Model AC 6-7 Receiver

A Suitable Comparison

We have never seen a radio set in this price class that can compare with the Marvelo Model shown here. In appearance, performance, and engineering, it is an exceptional value. An AC, ALL-Electric model, completely self contained, speaker, radio set, and all. The upper portion of the console has a hinged drop leaf, where you may rest your arms as you turn the dial. Beautiful beaded scroll effect borders, set off the speaker compartment below with its artistically formed speaker opening. Gracefully formed legs and support give the console a finished appearance, harmonizing with modern furniture design.



Ahead of the Crowd

All radio sets in recent years have advanced in design, appearance, and ease of operation, but the tone quality has remained about the same. We too, have perfected all these features, but in realistic tone quality we believe the Marvelo excels them all. The overtones, the basses and the high notes are rich, full, vivid, and clear. It's a pleasure to sit down and listen to such musical perfection.

Buy Marvelo for its exceptional tone quality with plenty of volume. You can then be sure of getting the best for your money.

Distance—Selectivity

In this day of chain broadcasting the DX or long-distance range "Fan" has a hard time of it, because of interference from nearby stations. Local programs are now so good as to make long-distance listening almost unnecessary. Yet it is most gratifying to know, if you own a Marvelo set, that it can pick up far-away stations practically as easily as locals. Even though you might not care to use it for long distance reception it's mighty pleasing to know that you have a set that will out-perform the neighbors' in long range, selectivity and tone quality. Full technical description given on page 28.

Hairline Selectivity

Due to the present day congestion of broadcast channels, selectivity is of great importance, for without it a radio set is not satisfactory. Remember in the old days what a job it was to turn three dials to get the station clearly? In the Marvelo that is all a thing of the past for all this is done with one dial. The sharply tuned RF stages, perfectly balanced, are such as to give hairline selectivity regardless of your locality.

Price List

1F11567 Model as shown above equipped with magnetic cone speaker, less tubes and antenna equipment. Net **\$52.50**
List \$120.00

1F11568 Same as above, but equipped with dynamic power speaker described on page 66. Net **\$66.50**
List \$150.00

If Complete Equipment for immediate operation is desired add \$12.00. This includes full set of genuine AC tubes and necessary antenna equipment.

All Prices Quoted Are Net—There Are No Further Discounts



Antonia Console

Unmatched Tone Quality

The marvelously faithful reproduction clear, bell-like, vivid, and true is possible only because of the extra high quality parts used in the amplifying system. In order to further please our customers we are providing the Antonia Cone Speaker, Magnetic or Dynamic, whichever is desired. Either type further accentuates the beautiful tone quality of the set, for they both are the acknowledged leaders in their respective fields.

Where tremendous volume is desired, the Dynamic type is recommended, for it possesses the ability of carrying extreme volume without distortion.

See Page
28 for
Technical
Description

You Can
Save More
Money
By Reading
Freight Rate
Offer on
Page 260

\$74⁴⁵-

Marvelo Model AC 6-7 Receiver

STRIKING CABINET BEAUTY

A walnut veneer console of the highest quality walnut, in hand rubbed and highly polished piano finish. This model would win a prize, at any exposition, for its well-proportioned and pleasing lines, not to say anything of the high quality radio set and the exquisitely modeled speaker compartment that goes with it. The turned and fluted legs supporting the cabinet, the choice selection of wood, the expert craftsmanship of its construction, all testify to something far above the ordinary.

Dimensions about: Height, 52 inches; width, 36 inches; depth, 17 inches. Shipping weight, 120 pounds.

MAGICAL PERFORMANCE

But it is the finer inner construction of this magnificent radio set that, after all, gives it its character and true value. For inside is the efficient, new and modern Marvelo All-Electric AC 6-7 completely electrified so that it is only necessary to plug it into your electric light socket to have the broadcasting entertainment of the country at your command. The beautiful appearance and noteworthy performance of musical reproduction found in the Marvelo are the distinguishing factors that make it the finest 6-7 tube set.

WHY THE MARVELO IS BETTER

Excellent constructional improvements and new circuit discoveries make the Marvelo one of the outstanding radio sets of the season. Take for instance the first stage of radio frequency amplification which, together with the remaining two stages, amplifies the feeble electrical energy present in the air, millions of times. This first stage is aperiodically tuned—that is, it automatically compensates for any length antenna, large or small. No more is it necessary to make the antenna a certain length for maximum results—you get that without even thinking about it. We welcome your personal inspection of this receiver, for we want you to find out the many other exceptional features that make this set excel most others.

NOTE THESE EXCEPTIONALLY LOW WHOLESALE PRICES

1F11710 Antonia Model Marvelo All-Electric AC 6-7 equipped with magnetic cone speaker, less tubes and antenna equipment. List \$140.00 Net **\$74.45**

1F11711 Same as above but equipped with dynamic power speaker. List \$170.00 Net **\$88.45**

If complete equipment for immediate operation is desired, add \$12.00 net to the prices given. This includes full set of genuine AC tubes and all necessary antenna equipment. Nothing else to buy.



PALOMA CONSOLE

**SIMPLE TO
OPERATE**

**ILLUMINATED
DRUM DIAL**

**ALL METAL
CHASSIS**

**THOROUGHLY
SHIELDED**

**AC OPERATION
THROUGHOUT**

**GREATER
SELECTIVITY**

CABLE WIRING

**LOW LOSS
DESIGN**

**PLENTY OF
VOLUME**



\$ 59⁵⁰

**FREIGHT
ALLOWED
TO YOUR
CITY
SEE PAGE
260**

Marvelo Model AC 6-7 Receiver

Graceful and Appropriate

It is difficult to surpass the grace and distinguished appearance of the Paloma Console. Open front style, receiver always in view. This is one of the best examples of the True High Boy. Tall and slender, this fine piece of furniture will enhance the parlor in the finest home. The workmanship which entered into its construction is in keeping with the good taste that this type of cabinet represents.

Elegant Walnut Finish

Like all the fine radio cabinets, the High Boy is made of genuine Walnut Ply Wood. A cabinet of this construction is impervious to moisture. Will not warp or twist out of shape, and has a mechanical strength way out of proportion to the delicate lines and apparent delicate construction. It is much lighter than a cabinet of the same dimensions made of solid wood; is more readily portable; and not so subject to damage by abuse. The outside dimensions of the cabinet are 40 inches high, 23 inches wide, and 16 inches deep.

Simple To Operate

The receiver is as simple and efficient as man's ingenuity can devise. Just plug into light socket, connect antenna, ground, and speaker, and you are ready to receive programs. Single dial to turn, brings in station after station, both local and long distance, and the auxiliary control regulates volume, giving the desired intensity. It is possible to have a mere whisper or enough volume for public entertainment or dancing.

Up-To-Date All The Way Through

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

We Guarantee Each Marvelo

to operate perfectly and to be free from defects in materials and workmanship.

The complete description of the Marvelo chassis will be found on page 28.

Note These Low Prices

1R11716 Paloma Model Marvelo All-Electric AC 6-7 as shown above—complete with power-pack, less tubes and antenna equipment. List \$115.00

Net \$59.50

With Complete Equipment—Ready To Operate

1R11717 Includes Paloma Model Marvelo All-Electric AC 6-7, complete with power-pack and the following necessary accessories: 4 type 226 AC amplifying tubes, 1 type 227 special AC detector tube, 1 type 71 power amplifying tube, and 1 type 280 full wave rectifying tube. In addition to this a complete set of antenna equipment for aerial and ground installation is included. Nothing else to buy. List \$140.00

Net \$72.50

We Pay Freight As Per Offer Given on Page 260



\$82⁹⁵

Freight
Allowed to
Your City
See Page
260

With
Dynamic
or
Magnetic
Cone
Speaker

Clearmont Console Marvelo Model AC 6-7 Receiver

Powerful

A world of power is at your finger tips when you tune the Marvelo AC 6-7 receiver. The perfectly balanced RF amplifier, the super sensitive detector, and the all powerful audio amplifier, using genuine AC tubes throughout, amplify the electrical impulses picked out of the air millions and millions of times. It is no wonder then, why you will seldom care to use the full power.

Selective

Even though this receiver possesses the ability to amplify tremendously, it is not done at the expense of the selectivity. It is surprising to anyone how easily distant stations can be brought in without interference from locals or nearby powerful broadcasting stations. Those living in congested districts will find this receiver ideal as well as beautiful.

Sensitive

Because of the special construction and new circuit design, you will find the Marvelo AC 6-7 especially sensitive. Space wound solenoid coils having identical electrical characteristics perfectly matched to a three gang condenser, anchored to an illuminated drum dial, make it one of the most sensitive receivers ever designed. Consistent performance in your home will prove all our claims.

Striking Cabinet Beauty

You have never seen a cabinet quite so beautiful. Hinged doors swing all the way back. Made of walnut veneer. Size: 50 in. high, 27 1/2 in. wide, and 17 in. deep. High grade workmanship throughout.

Try It in Your Own Home

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

Wholesale Prices

The low prices given below are in no way indications of the value you receive. Order your set now and prove to yourself that Barawik values are the biggest ever offered.

IF11407 Clearmont Console Marvelo AC 7 with magnetic cone speaker less tubes and antenna equipment. Net **\$82.95**
List \$150.00

IF11408 Same as above but with Dynamic power speaker. Net **\$96.95**
List \$180.00

With Complete Equipment

If you wish complete equipment so that there will be nothing else to buy, add \$12.00 to the prices given and we will include full set of AC tubes and all necessary antenna equipment.



*America's
Leading
Radio
Value!*

\$85⁰⁰
NET

**Alcazar
Console**

**Dynamic or
Magnetic Cone
Speaker
As You Prefer**

**Freight
Allowed
See
Page
260**



Marvelo Model AC 6-7 Receiver

**We
Challenge
Comparison
With
Others!**

Full, Clear Toned Reception

The tone quality produced by this receiver reaches peaks of quality seldom attained by other makes. Marvelo engineers were not satisfied with just ordinary tone quality like most other receivers have. After much painstaking effort on the part of these engineers we are proud to tell you that new degrees of perfection have been reached in musical reproduction. With the new system one actually finds it hard to believe one is listening to a radio set. All notes in the entire musical scale—from the lowest to the highest—are reproduced in a clear, realistic manner that is as life-like as the studio music itself. Musical experts have pronounced the Marvelo's reproduction practically perfect.

Here's Real Radio Performance

This exceptional receiver will be found ideal for the critical radio fan as well as the person who is interested only in the programs that are received. It is extremely simple to tune—just one drum dial to turn to get the station you want, and it's illuminated and plainly marked so that logging of the stations you hear can be done in a moment's time. Distance with ultra selectivity together with its beautiful appearance make it one of the finest values ever offered.

Superb Cabinet Beauty

Many people proclaim the Alcazar Console one of the most beautiful radio cabinets ever built. Its trim lines, gracefully enhanced by the delicately fluted legs and cross stretcher present a very striking appearance. Made of genuine walnut veneer and finished in a high-lighted hand rubbed satin walnut finish. Easy sliding doors are never in the way. Size of cabinet: 50 inches high, 27½ inches wide, and 17 inches deep.

Alcazar Wholesale Prices

1F11701 Alcazar Console Model Marvelo All-Electric AC 6-7 equipped with magnetic cone speaker, less tubes and antenna equipment.
List \$160.00 **Net \$85.00**

1F11702 Same as above but with complete set of genuine AC tubes and all necessary antenna equipment.
List \$185.00 **Net \$97.00**

1F11703 Alcazar Console Marvelo All-Electric AC 5-7 equipped with Dynamic Power Speaker, less tubes and antenna equipment.
List \$190.00 **Net \$99.00**

1F11704 Same as above but with complete set of genuine AC tubes and all necessary antenna equipment.
List \$215.00 **Net \$111.00**



All Prices Quoted Are Net—There Are No Further Discounts



Makes a
Beautiful
Installation
in the
Home

\$ **82¹⁵**

**Sherbrooke
Console**

Freight Allowed
See Page 260

Marvelo Model AC 6-7 Receiver

Super Performance

An up-to-date receiver must be capable of getting distant stations without interference from nearby high powered transmitters. That is exactly what the Sherbrooke Console Marvelo 6-7 receiver will do when installed in your own home. The precision construction makes this set an outstanding achievement. There are no batteries or eliminators to fuss with for this receiver operates direct from the electric light socket and never requires attention.

Long Air Column Horn

Many people prefer the exponential long air-column horn for realism and perfect tone of all sorts of broadcasts. This horn is scientifically designed along the lines of the human throat, and is capable of great accuracy and vividness in reproducing all sounds. In the model shown above, a nine foot (108 inches) horn is fitted with the balanced armature type Concert Grand Speaker unit. This unit is considered one of the finest made. The deep basses, the overtones, all the high notes of the soprano and small musical instruments are faithfully reproduced without the slightest distortion. Great volume can also be secured with this type horn. Very popular for outside broadcasts.

Impressive Beauty

The Sherbrooke Console is truly worthy of its name. Its dignified appearance and massy lines of designing give it an artistic appearance which will match the decorating scheme in any home. Made of genuine American Walnut Ply Wood with double doors of matched Butt Walnut. The speaker compartment is concealed behind a gracefully carved grille. Size of Console is 44 3/4 inches high, 28 inches wide, and 17 inches deep.

Never Requires Attention

After installation in your home, this wonderful radio will never require attention. The generously designed power pack, which furnishes power for the entire receiver, is designed with a very high factor of safety. This insures you of carefree reception.

Wholesale Prices

1R11707 Console Model Marvelo All-Electric AC 6-7 less tubes and antenna equipment. List \$160.00 Net **\$82.15**
1R11708 Same as above with complete set of AC tubes and all necessary antenna equipment. List \$185.00 Net **\$94.50**

Marvelo Guarantee

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly.



A Big Hit and a Big Value

\$ **56**⁵⁰
Net

Montclair Console



Marvelo Model AC 6-7 Receiver

Charming and Graceful Cabinet

Two-toned Walnut, hand rubbed and highly polished. The impression given by this magnificent cabinet is one of grace, symmetry of line and richness. The elaborately carved effect of the speaker compartment grille is reminiscent of the old hand woodcarvers. The sturdy, shapely base is distinguished by the attractive turnings, with matched flutings to set it off most effectively. Size: 40½ in. high, 25 in. wide, and 15 in. deep. Shipping weight, 80 lbs.

The built-in speaker, dynamic or magnetic cone, whichever you prefer, is mounted above the set itself. Its range of volume is remarkable in its clearness and naturalness—so much in fact that you will absolutely marvel at it.

We believe that this is the peer of all 6-7 tube receivers in its price class for beauty, quality, style and in faithful reproduction of music or other entertainment.

Choose Your Own Speaker

The Montclair comes to you completely equipped with either a magnetic or dynamic cone speaker, whichever you prefer. Both types are leaders in their respective fields and can be relied upon for their exceptional ability of reproducing perfectly. The dynamic type, of course, is recommended where extreme volume without distortion is desired, such as in halls, theaters, auditoriums, etc.

Special Features

Exceptional features of the Marvelo are responsible for its greatness. In distance, selectivity, and tone it will equal or out-perform in every way, yet its cost is surprisingly low. The true single dial control, shielded construction, hum-free adjuster, perfect balance of RF stages, and twice-matched space wound coils, together with expert assembling, assure you marvelous reception.

Greater Ease of Operation

So easy to operate that a small child can bring in distant stations as well as the grown-ups. The illuminated drum dial, turned by one knob needs only a slight twist to go from one station to another, while a second knob controls the volume. The third knob turns the set off and on. Could anything be more simple?

Price List

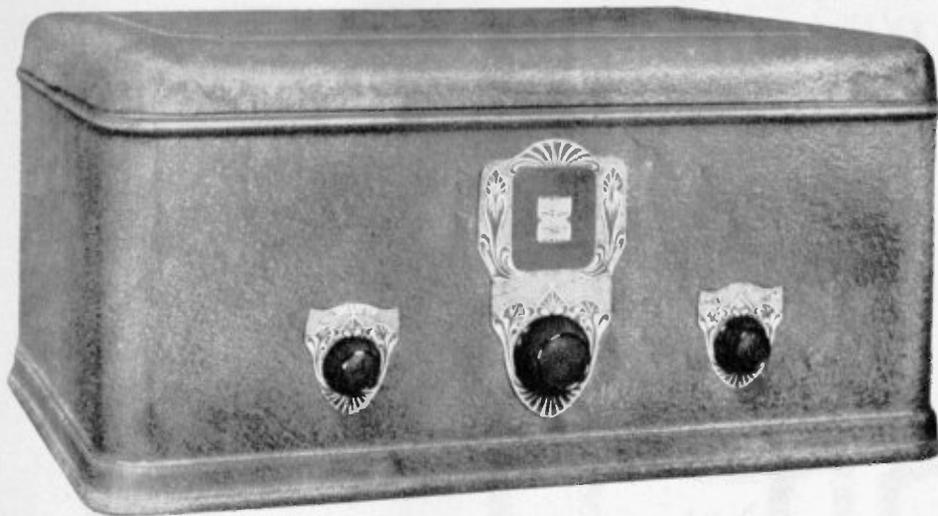
The models listed below are shipped freight allowed to your city, as per offer on Page 266.

1R11713 Montclair Model Marvelo All-Electric AC 6-7 equipped with magnetic cone speaker, less tubes and antenna equipment.
List, \$120.00. Net..... **\$56.50**

1R11714 Same as above, but equipped with dynamic power speaker.
List, \$155.00. Net..... **\$69.50**

If complete equipment for immediate operation is desired add \$12.00 to the prices given. This includes full set of AC tubes and all necessary antenna equipment.

Marvelo 8-Tube Battery Operated



Vitaly Responsive, Radio Reception at Its Best! **\$34⁵⁰ Net**

Appearance and Operation Are Way Above Standard

The modern trend in radio dictates that a receiver must be single control and mounted in a metal cabinet. In strict keeping with everything modern, we have a receiver which not only meets, but excels the most exacting requirements.

The beauty of this receiver far surpasses anything which has gone before. Not only is it pleasing to the eye, but operation is way above standard. The metal cabinet is finished in a beautiful seal brown crystalline lacquer with splashes of a golden tone. This harmonizes with most internal woodwork finishes, mahogany and walnut furniture. You will find this receiver not only beautiful but a source of constant pleasure due to the superior performance.

The metal cabinet is being received with unprecedented favor, because it is far easier to keep in first class condition than wood. Smoke does not tarnish it, nor does heat or weather peel the lacquer. This makes it especially suitable for outdoor use in the summer time. Blazing sun or evening dew will not affect either the finish or the working qualities in the slightest manner. Rich tone and full volume reception make this receiver a choice companion on a cold winter eve. Never again will you be lonesome when the snow has fallen and traveling is difficult. The world will be brought to you in all its joy and excitement. You will have the best of entertainment at your elbow, what more can be desired?

Easy To Tune

Only one tuning control for selecting the station desired. Once this station is tuned in, another control which regulates volume is used to bring the signal to the proper intensity. It is possible to have music and volume sufficient to fill a large room, or a mere whisper with no sacrifice in tone quality in either end of the scale.

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in materials and workmanship.

All Metal Inside and Out

There are no high-loss di-electric, consequently the efficiency is very high. All metal construction is used throughout both for the cabinet and receiver proper. The Chassis and cabinet are both grounded to the negative filament entirely eliminating absorption and capacity eddy currents. There is no bakelite or wood employed. What installation used is in small pieces

Sensitive and Selective

Extremely sensitive to weak signals makes possible distant reception selective enough to cut through an intense barrage of local interference. It is possible to pick up and hold distant stations for an entire evening with little or no interference from high powered locals. This receiver makes an appeal not only to the person who desires local entertainment but also to the man who craves distant reception.

Battery operation is in some respects superior to the AC receivers. Installation and maintenance are a bit more complicated, but this is absolutely the best receiver it is possible to obtain in localities where alternating current is not available.

Special pains have been taken to make this so. Foolproof construction and a minimum of moving parts create an air of confidence in the instrument. It does not go dead without a very good reason. With proper care and frequent checkup of the batteries this set should give you faultless service for many years to come. It is economical in operation. The A battery will run for 25 to 100 consecutive hours without charging and the B batteries will last an entire season at the rate of four hours usage a day. We take delight in offering you this, the largest and most powerful battery operated set on the market.

placed where needed and of the highest quality.

Wholesale Prices

1R1172 Set in cabinet, without accessories	45 lbs.	Ship. wt.	
List \$85.00		Net	\$34.50
1R1173 Set in cabinet, complete with tubes, batteries and antenna equipment.	Shipping weight 125 lbs.		
List \$107.00		Net	\$55.05
1R1174 Chassis only, for mounting in your own cabinet.	Shipping weight 40 pounds.		
List \$80.00		Net	\$30.50

Save Money With Our New Departments in Sporting Goods, Electrical Supplies, Auto Tires and Accessories. See Pages 164 to 264.



*All Metal
Chassis
Built In
Speaker*

\$ **56** ⁵⁰/_{NET}

*Montclair
Console*

Marvelo Battery Operated 8

The Montclair 8 Console Model is the very latest in receiver design. For those desiring a complete, self contained installation nothing can be recommended more highly. The all metal chassis of the receiver is electrically perfect while the console is a marvel of the cabinet making art. The combination presents both efficiency and beauty, with a remarkably long and trouble free life. The receiver requires no care other than attending to the batteries. The finish of the cabinet is durable and will be as presentable in twenty years as when first purchased.

Beauty with Strength

Built of walnut veneer it is remarkably strong, will not warp and is far lighter than a console of same size built of solid wood. The top is full $\frac{3}{4}$ inch thickness with triple-cut bevel shaped edges. Legs are solid wood with fluted capitals and are artistically turned. "I" beam bracing gives great mechanical strength, allowing more delicate structure without a sacrifice. Frontboard is full $\frac{3}{4}$ inch thickness. Gouge-shaped opening in receiver compartment. Panel fits flush and is accessible from the rear. Speaker compartment has plywood grill with cloth of gold facing.

Built in Magnetic Speaker

of superior design, double acting armature, more than enough volume for ordinary household reception. Full scale range without undue emphasis on certain notes. Insert panels in front board are rubbed, and stained to a darker tone. Entire piece of furniture finished with natural color walnut—beautifully two toned. Polished to a dul egg shell gloss, the natural grain of the wood accentuated into a pleasing contrast. The dimensions overall are 41 inches high, 25 inches wide and 14 $\frac{1}{2}$ inches deep.

For an instrument of this quality, our price is very low. We do not skimp on quality to reach a price, and the purchaser of this console may well rest assured that what he obtains will be exactly as represented, a full value received for his expenditure. Our policy of highest quality, lowest price is well expressed in this receiver. You cannot obtain a more beautiful or durable piece of furniture. The finish is such it will harmonize with all furnishings, and whether the surroundings be a mansion or cottage you will find this beautiful and lasting console one that blends perfectly into the general atmosphere. Its appearance is heavy enough to balance any type of furniture.

Grace with Solidity

In reality it is light enough to be readily moved, and strong enough to withstand all ordinary rough handling. Access to batteries and accessories is obtained through the back. The top is fastened down permanently and makes a delightful mooring for a ship model, or an attractive location for a set of books or pair of candlesticks. The beauty and utility of the console coupled with the remarkable tone quality and distance getting ability of the receiver make this a combination especially to be desired. It may be obtained stripped for use with your own equipment, or a complete installation, ready to operate. Complete technical description given on page 9.

List of Prices

1R11719 Console, complete with built in speaker but no accessories. Ship. wt. 90 lbs.

List \$125.00 Net **\$56.50**

1R11720 Console complete with built in speaker, 120 ampere storage battery, three large 45 volt B batteries, 8 tubes and complete antenna and ground equipment. Shipping weight 170 pounds.

List \$167.00 Net **\$76.95**



6 Tube Battery Operated Console Modesto Model

\$ **49** ⁵⁰
NET

An Inexpensive Console Receiver

Distance, Quality, Economy

Everything you can ask for in a receiver. Complete, compact; batteries, speakers, and radio all housed in a console. Readily portable. Requires no external connections but antenna and ground. Especially recommended for those who are unable to obtain alternating current. Distance getting is far above the average, for there are few 6 tube receivers which can successfully compete with the Modesto, and none which can beat it in distance covered or volume of reception. The quality of both speech and music is unimpeachable. Especial pains have been expended to design a receiver in which all parts function in perfect harmony. From the antenna to speaker, everything works in unison and the signal you hear is quality in the most gratifying form. A receiver which is good need not be extravagant in operation. We have found that batteries will last a very long time when used in this console.

Unusual Cabinet Beauty

The style of this console has come to be considered by many as the ideal radio cabinet. It is one that will harmonize with most any type of furniture. Constructed of Choice American Walnut, in a beautiful dull-rubbed velvety finish. A striking feature is its richly designed grille, hiding from view the speaker and battery compartment. Dimensions: 40 inches high, 24 inches wide, and 16 inches deep. Ample space has been allowed for batteries, chargers and accessories.

Special Speaker for New Tone Beauty and Volume

The special Magnetic Cone Speaker is responsible for the vibrant, crystal clear tone quality this set possesses. Its marvelous reproduction is rivaled only by more costly dynamic speakers.

Special Low Wholesale Prices

1R11738 Modesta Console Marvelo, 6-tube battery operated as shown above, less equipment. Net **\$49.50**
List \$100.00

With Complete Equipment

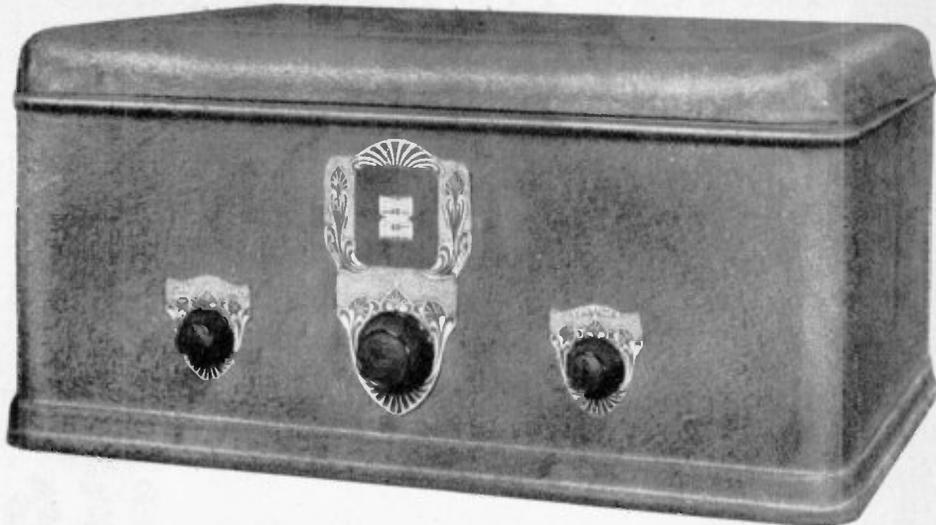
Includes the following equipment for complete operation:

- 4—201A Type Tubes
- 1—200A Type Detector Tube
- 1—112A Type Power Tube
- 3—Large B Batteries
- 2—4½-volt C Batteries
- 1—Pioneer 100-ampere Storage A Battery
- 1—Complete Antenna and Ground Outfit Instruction Booklet.

1R11739 Modesta Console with all equipment listed above. Total List \$140.00
Your net cost **\$65.95**

THE BARAWIK CO., CHICAGO, ILL.

Marvelo 6 Tube Battery Operated



A Modern Receiver in Design, Workmanship and Performance

Beauty and Usefulness Combined With Absolute Simplicity

Not content with making a receiver that would work better than the average, we bent our efforts in designing a cabinet that would give a distinguishing aspect to the set, an air of true beauty, one you will be proud to have installed in your home.

The cabinet is all metal, coated with brown crystal-line lacquer, highlighted with splashes of gold. Strictly in keeping with the latest styles and color schemes, this receiver will grace the most pretentious residence, or fit harmoniously into the decorative scheme of the humbler cottage. Elaborate in display, still not gaudy, perfectly suitable for any environment.

Operation is in direct keeping with appearance. It works like a charm. Designed especially for the home that is not fortunate enough to have access to electric current, the receiver is operated by a storage A and dry

B and C batteries. It is our candid opinion that direct current receivers are slightly more satisfactory in operation than all electric, the main drawback being that they require more constant and detailed attention. The use of first class batteries will make this a minimum. Everything possible has been done to make this set fool-proof. There is only one tuning control. So simple to tune a child can operate it. Everything but the batteries is contained within the metal cabinet. No chance of accidental damage while lid is on. Built rugged enough to withstand all ordinary abuse and rough treatment.

The escutcheon plates are permanently fastened to the panels. Finished in a contrasting tone they add greatly to the beauty of the receiver. The Egyptian design is out of the ordinary, further enhancing the individuality.

Distance Getting

Most localities where alternating current is not available are so far from a broadcasting station a receiver that will not reach out is worthless. Fully realizing this, we took special pains and made actual tests to make sure this set met all the exacting requirements. To our immense satisfaction it did, and we are proud to be able to offer our customers such a piece of superior merchandise as this. When the weather is favorable, stations a thousand miles distant and over are easily picked up, with sufficient volume to operate a loud speaker. The daylight range is always much less than evening, but still it is enough to enable you to get the weather and market reports, as well as news and musical programs.

What This Receiver Contains

Three stages of radio frequency amplification, tuned by a gang condenser, a super sensitive detector and two stages of transformer coupled audio. A power tube used in the last stage produces volume above that of the average six tube set, with tone quality well rounded and full, almost as good as the original rendering. The voice is clear and crisp, with every word or number easily understandable, the music equal to that heard in town at a dollar a seat.

Marvelo Guarantee

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

Long Life

Due to the sturdy construction and extra care expended on the wiring and assembling, this receiver will last a lifetime. What few moving parts there are, are of such mechanical perfection they will resist all ordinary wear and tear. The design is such that as long as stations continue to use the present wave bands this set will be in keeping and thus able to supply entertainment.

Note These Low Prices

In keeping with The Barawik Co.'s usual policy, the prices are very low, quality being considered.

1F11735 Art Metal Model Monroe battery-operated 6 as shown above, less all accessories. **Net \$25.85**
List \$55.00

Complete Ready to Operate

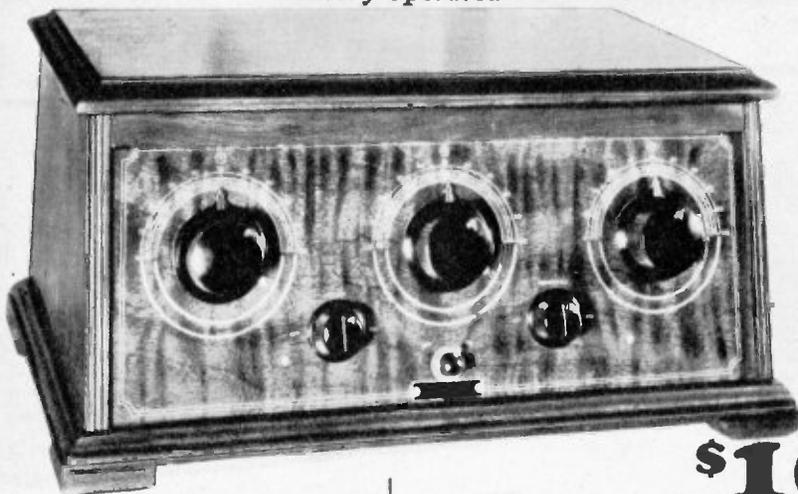
Includes the above set with the following accessories: 4 201A Type Tubes, 1 Supersensitive 200A Detector Tube, 1 112 Type Power Tube, 3 45-volt large size B Batteries, 2 4½-volt C Batteries, 1 100-ampere Storage Battery, and all necessary parts for Antenna and Ground Installation.

List \$95.00 **Net \$42.30**
1F11736

1F11737 6-tube Battery-operated Chassis. No cabinet, no accessories. **Net \$22.50**
List \$50.00

Marvelo Tri-Dial 5 Tube

Battery Operated



\$16⁵⁰
NET

Many Exclusive Features

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

Radio coils are of the space wound Solenoid type, silk covered wire on bakelite tubing, the kind of coil pronounced the best by the Bureau of Standards.

Straight-line frequency condensers of advanced style, mechanically perfect. Low ratio Audio Transformers provide perfect reproduction of both high and low notes with great volume. Perfectly shielded, preventing interstage coupling and insuring greater selectivity.

Engraved Metal Panel, usually found only on high priced sets. Snappier appearance, greater ruggedness, better performance. Tuning and volume controls of advanced design.

Cabinet is of elegant walnut finish in a very pleasing modern design.

No "Excuses"—No Service Problems

The Marvelo 5 Tridial once sold becomes a booster for your store. Made from the finest parts it will stand up and produce results for the most particular fan. Thousands of them are now doing just that. No complaints. No servicing!

Price List of Marvelo Tridial 5

Set in Table Cabinet, without accessories. Ship. wt. 25 lbs.
1R13091 List, \$40.00. **\$16.50**
Net

Complete For Battery Operation

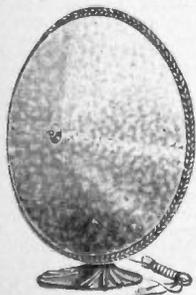
1R13092 Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 100-Amp. "A" Storage Battery, "C" battery, two large 45-volt "B" batteries, Pioneer 16-inch Free edge cone speaker and complete Antenna and Ground outfits. Shipping weight, 120 lbs.
List, \$78.85. Net, Wholesale **\$36.25**

Marvelo 5 Tridial Chassis only. Shipping weight 18 pounds.
1R13094 List, \$35.00. **\$14.50**
Net

Quality at Lowest Prices

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

Accessories for 5-Tube Battery Operated



Pioneer Free edge Cone Speaker is included. Perfect tone quality is obtained with this cone. No sacrifices at either end of the scale.

Bass and treble both faithfully reproduced. An excellent speaker to match the Marvelo Tri-Dial 5-tube set.

Tremendous Volume results from the use of extra large magnets adjusted for tone and tension. Supported at the apex only, cone is free to vibrate at all frequencies. Diameter of cone 14 1/2 inches.

The equipment supplied with MARVELO Tri-Dial 5-tube battery operated receivers is the best and may also be purchased for use with other sets of similar design and requirements.

List of Accessories

	List Value
5 201-A tubes @ \$1.50.	\$ 7.50
2 45 volt, large size B batteries @ \$2.50.	5.00
1 4 1/2 volt C battery @ \$0.60.	.60
1 Pioneer 100 A-F Storage Battery	15.00
1 Pioneer free edge cone	9.00
1 Antenna and ground outfit	2.75
Total retail value	\$38.85

2R307 Your Cost. **\$19⁷⁵** Net



Marvelo Tri-Dial 5-Tube Battery Operated Receivers



Delightful simplicity of design, coupled with the extreme satisfaction of superior performance, gives to the owner of this beautiful receiver a feeling of elation in knowing he could not have more for any price. Here is an instrument that will do justice to any home. Unpretentious in outlay, it is so carefully wrought and in such perfect harmony with its surroundings it forms an integral part of the room in which it is placed. No matter what style or period your furniture, this model will harmonize. Made of selected Mahogany with metal panel, it presents a finish of deep red lustre, rubbed to a gloss, equal to that on expensive phonographs and pianos.

To save you time and trouble in ordering, we have already assembled a complete assortment of accessories which have been found to perform best with this particular receiver. These may be obtained by ordering the complete installation. There is one exception. The Speaker is left to your own judgment, and must be ordered extra. See note below. The accessories included are 4 201A and 1 200A Tubes, 100-ampere hour Storage Battery, 3 long-life 45-volt B Batteries, C Battery, and complete Antenna and Ground Equipment.

1R11570 Complete Receiver as stated above, with all accessories. Shipping weight 120 pounds
List \$76.60 Net \$35.35

1R11571 Receiver only, no tubes or accessories. Shipping weight 40 pounds.
List \$40.00 Net \$18.95

This receiver will operate any of the popular speakers with enough volume for ordinary household reception. Whether you prefer a cone, drum or other style, you will find a very complete assortment of the highest grade speakers listed between pages 63 and 76. One of these will most surely meet your individual requirements.

The panel below the receiver is removable, allowing instant access to the battery compartment, which is to the rear and below the set proper. Supported by carved feet with felt cushions, it will not mar the table if jostled accidentally.

Glided pull-to removable panel. Two-tone inlays in top and sides. Inside dimensions are 12 x 18 x 11 inches. Set is supported on a shelf in such a way it is accessible from both top and bottom without removing it from cabinet. Cabinet stands 15 inches high, is 23 inches long and 16 deep.

Very Efficient Circuit

The latest type of five-tube circuit is used in this specially low priced receiver. It consists of two high gain radio frequency stages, super-sensitive detector, and two stages of all ratio audio amplification. The quality of all the component parts has been selected with great care and the owner can rest assured that he is getting on this type of receiver the finest and greatest value ever offered.

Table Model with Built-In Speaker

This model was designed for those who want a table set, but desire that the speaker be contained within the same cabinet as the receiver. We are proud of this model, for not only is it a remarkably selective receiver but possesses beauty that is unusual in instruments of this class.

Mounted in a cabinet of walnut veneer, so carefully wrought it takes careful observation to distinguish it from the solid wood. Finished in the natural color, the delicate graining speaking of elegance and refinement. In keeping with this is the

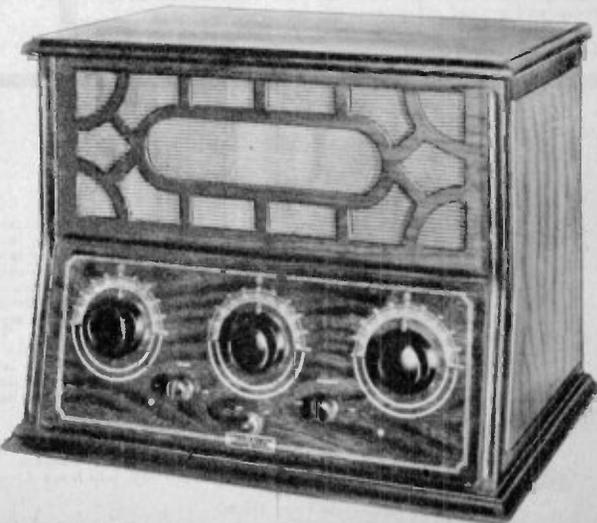
cloth of gold screen placed behind the artistically wrought grille that covers the bell of the speaker. Horn is of wood with a full orthophonic type throat. Equipped with a balanced armature unit, it reproduces with excellent tone quality.

The sideboards are decorated with a raised center panel, the frames fluted and both the top and baseboard shaped with artistically curved bevels. Backboard and top are both fixed in place permanently. Access to the interior is obtained by removing the grille and pulling out the receiver.

The set is mounted on a metal panel, finished to resemble walnut. An extra long battery cable makes it possible to entirely remove receiver from cabinet without disturbing any of the connections. Set is installed with panel at a slight angle to make operating easier. While this set was primarily designed for operation with batteries it may be converted to AC by simply substituting an A and B eliminator for the batteries. No changes in the tubes or wiring is necessary. Felt cushions on the bottom prevent scratching the table top and also act as shock absorbers, preventing vibration from being transferred to the detector tube. The overall dimensions are 17 inches high, 22 inches long, and 13 deep. No compartment is provided for batteries. The cable protrudes through hole in back of cabinet and reaches to floor. To simplify the task of ordering and to assure you of obtaining equipment that is suitable for this receiver, we have already made up a complete set of accessories, which are obtained when the complete installation is ordered. They are exactly the same as in the model listed directly above.

1R11572 Receiver complete with all Tubes, Batteries, Antenna equipment, and Loud Speaker ready to operate. Shipping weight 130 pounds
List \$77.60 Net \$36.35

1R11573 Receiver without tubes or other equipment. But with built-in Loud Speaker. Shipping weight 50 pounds. List \$45.00 Net \$19.95



Marvelo Tri-Dial Receivers in Consoles

Battery Operated

This group of receivers is offered for use in localities where electric central station current is not available. Never before has such high quality merchandise been offered at such low prices. Properly designed, carefully constructed radio receivers. Attractive-looking consoles elegantly finished.



\$36⁹⁵
Net

The Consolette

With Magnetic Built-In Speaker

A fine quality Marvelo Tri-Dial 5-tube receiver fitted into a compact attractive console made of finely grained walnut veneer in beautifully hand-rubbed Adam-brown finish. Set easily accessible for tube changes. Tuning dials convenient height for tuning from arm chair. Built-in speaker of newest type with great volume and pleasing tone quality. Ample space for batteries. Size, 40 inches high, 27 inches wide, 14 inches deep. Shipping weight, 80 pounds.

1R11506 Without Accessories. List Price, \$70.00 Net.

\$36.95

1R11507 Complete ready to operate, including five 201A tubes, one Pioneer 100 ampere storage battery, C battery, two large 45 volt B batteries and complete antenna and ground equipment.

List Price \$100.00

Net, **\$53.35**

Spinet Desk

With Magnetic Built-In Speaker

The wonderfully operating Marvelo Tri-Dial 5-tube battery operated receiver fitted in Spinet Desk type console. Made of finest genuine walnut veneer in handsome hand rubbed Adam-brown finish. Two attractive grilles—one on speaker compartment; other on battery compartment. Drop door encloses set panel when not in use, provides convenient arm rest for tuning. An extremely attractive model and a wonderful value at our price. Stands 36 inches high, 40 inches wide, 16 inches deep. Shipping weight, 90 pounds. Complete with all accessories, 135 pounds.

1R11493 Without Accessories.

List price \$85.00

Net, **\$43.50**

1R11420 Complete ready to operate, including five 201A tubes, one Pioneer 100 ampere storage battery, C battery, two large 45 volt B batteries and complete antenna and ground equipment.

List Price \$115.00

Net, **\$59.90**

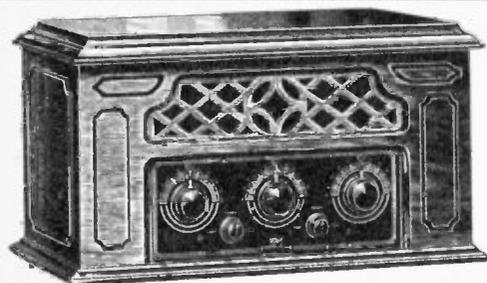


\$43⁵⁰
Net

Table Model

With Built-In Speaker

An extremely attractive model that conveniently adapts itself for use in many places where a compact cabinet with built-in speaker is desired. A wonderfully fine piece of furniture, built of genuine solid walnut in elegant hand rubbed finish. One of the most attractive pieces of radio furniture we have ever seen. Behind the richly designed grille is a Symphonic air column type horn with concert style balanced armature unit, insuring the finest tone quality. The highly efficient Marvelo Tri-Dial 5-tube receiver is fitted into this cabinet in a very attractive manner. This combination is very popular and provides an excellent radio set at an extremely low cost. Width, 29 inches, Height, 16 inches, Depth, 15 inches. Shipping weight, 70 pounds. Complete with all accessories, 150 pounds.



\$26⁵⁰
Net

1R11526 Without Accessories. List Price \$60.00

Net, **\$26.50**

1R11527 Complete ready to operate, including five 201A tubes, one Pioneer 100 ampere storage battery, C battery, two large 45 volt B batteries and complete antenna and ground equipment.

List Price \$90.00

Net Price, **\$42.90**

Sovereign Console

A beautiful piece of furniture is this Sovereign Console. It is the utmost in simplicity—and it is this very simplicity that makes this console ultra modern. It depends solely on its faultless symmetry and its rich walnut wood for its supreme artistry. This modern age has developed a type of furniture distinctive and different from period designs. This console is a fine example of the modern furniture craftsman's art. If you would inject a bit of this feeling of the ultra modern in your home, place this console in your living room. Immediately it becomes a part of its surroundings, and yet it adds a delightful ultra-modern note.

This cabinet is made of beautiful walnut finished in the interesting burl effect. Selected butt walnut makes the doors, and five-ply walnut veneer makes the top and panels. The finish is natural and hand-rubbed over the whole cabinet. The small view shows the cabinet open. If desired, we can furnish this cabinet complete with our famous Magnetic Cone speaker, described in full on page 65 of this catalog.



Specifications and Prices

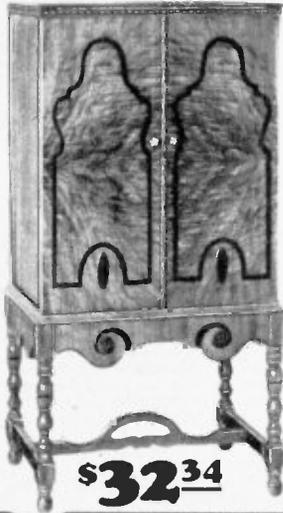
The dimensions of the cabinet are 40 inches high by 27 inches wide by 16 inches deep. The maximum panel space is 9½ inches high by 21 inches wide by 12 inches deep. Ship. wt., 100 lbs.

3F11673 Cabinet only. Net **\$29.40**
List \$50.00

3F11674 Cabinet with Magnetic Cone Speaker. Net **\$36.40**
List \$65.00



\$29⁴⁰



Graceful Versailles Console

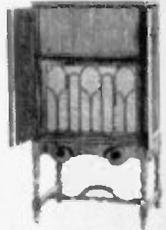
Modern, yes—but reminiscent of the splendors that were at the French court at Versailles. The proportions give the effect of slender height and the tracery design on the doors suggests exquisite grace. The sight of this console sends your imagination on a flight back into the days when handsome ladies swayed and glided and bewigged gentlemen bowed and curtsied to the strains of a delicate minuet. The spirit of the whole cabinet is one of refined gaiety and light-heartedness—and it will bring just that note into your living room. Such delicate beauty could never have been accomplished without quality materials. This cabinet is made of Genuine Walnut plywood. The doors are selected butt walnut with the design in two-tone finish. The top and sides are also walnut plywood. Here is given a view of the cabinet with the beautiful double doors swung open. The inside of the cabinet is fully in keeping with the whole design.

Generous Size—Low Price

The outside dimensions of the cabinet are 18 inches high by 24 inches wide by 16 inches deep. These proportions are as perfect as can be had. It will take any radio set measuring up to 21 inches wide by 10 inches high by 14½ inches deep. The inside dimensions of the speaker space are 22 inches wide by 14½ inches deep by 17 inches high. Ship. wt., 110 lbs.

3F11670 Cabinet only. Net **\$32.34**
List \$55.00

3F11671 Cabinet with Magnetic Speaker described on page 65 of this catalog. Net **\$39.34**
List \$70.00



\$32³⁴

Elegant Verona Console

A truly different design comes to you in this Genuine Walnut plywood Verona console. Two tones of wood are so arranged as to give the effect of rare inlaid work. This cabinet, indeed, looks like a replica of furniture made in the days when each piece expressed the very soul of the craftsman. This cabinet has a personality all its own—one which will become a focus of attention and a center of interest in any room. Swing back the doors and see the attractive grille, behind which is hidden the speaker compartment. You may secure this cabinet equipped with a Magnetic Cone Speaker, described in detail on page 65 of this catalog. An unusual feature, one not often found in a cabinet at this price, is the lift top. This enables you to gain easy access to the chassis. We also offer you the privilege of obtaining this cabinet already equipped with a set. You may choose between our famous 8-9 AC and our favorite 8 tube DC. Full descriptions of both sets appear on pages 10 and 38 of this catalog. Shipping weight, 80 pounds.

Special Low Prices

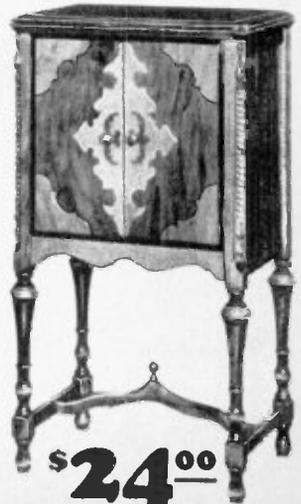
The outside dimensions of the cabinet are 41 inches high by 22 inches wide by 16 inches deep. It will take a set measuring up to 8 inches high by 18 inches wide by 12 inches deep.

3F11661 Cabinet only. Net **\$24.00**
List \$45.00

3F11662 With Magnetic Cone Speaker. Net **\$31.00**
List \$60.00

3F11663 With Magnetic Cone Speaker and 8-9 AC chassis. Net **\$76.00**
List \$150.00

3F11664 With Magnetic Speaker and 8 Tube DC chassis. Net **\$61.50**
List \$120.00



\$24⁰⁰



Paloma Console

Nothing exceeds the grace and distinguished appearance of the genuine Highboy. It is considered by many as the peer of all open front cabinets. Thousands of people prefer it to any other type. This is one of the best examples of the true highboy. Tall and slender in appearance this fine piece of furniture will enhance the appearance of the best room in the finest home. The exquisite workmanship that entered into its making is in keeping with the good taste that this style of cabinet represents. You will find the highboy in the best radio and furniture stores throughout the country. It is a favorite radio cabinet. In very few other styles will you find as much beauty and elegance as in the Highboy. The artistically turned legs are braced with a graceful cross stretcher.

Beautiful Walnut—Natural Finish

Like all the better radio cabinets, the highboy is made of genuine Walnut plywood. A cabinet made of plywood will not warp or twist out of shape as furniture made of solid wood often will. You can get this cabinet with Magnetic Cone Speaker described in full on page 65 or without speaker. You also have your choice of buying it with our famous Marvelo 9 chassis fully described on page 10 of this catalogue. The neat appearing grille above the panel blends well with the general appearance of the cabinet.

The outside dimensions of the cabinet are 40 inches high by 23 inches wide by 16 inches deep. It will take a set up to 8 inches high by 18 inches wide by 13 inches deep. There is ample room for all batteries and other accessories.

Console Only

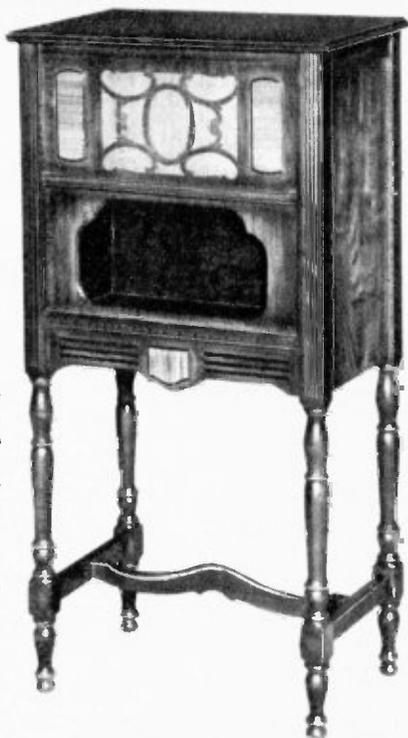
3R11654 Without Speaker
List \$45.00 Net..... **\$19.65**

Console With Speaker

3R11655 With Speaker
List \$60.00 Net..... **\$26.65**

With Marvelo 9 AC Receiver

3R11656 Complete with Monroe 8-9 All Electric chassis and speaker List \$150.00 Net..... **\$71.65**



Elverano Console

Truly a thing of beauty that will be a pleasure forever. All the artistry of the best cabinet makers in the country has entered into the making of this most beautiful cabinet. This is another example of the tremendous steps that American manufacturers have made in incorporating old world beauty in the most modern of furniture. Rich overlays—grained wood. Made of the very finest grained walnut in natural finish with artistically designed burl overlays. Five ply of course, not only for beauty, but also for more rigidity and sturdiness. The decorative antique brass trimmings add greatly to the general appearance of the cabinet as a whole. The gracefully turned legs with the curved stretcher assure a solid, steady support for the cabinet. Across the top of the panel opening is a long graceful grille that hides the speaker from view. This is by far one of our most beautiful cabinets that the best people will be proud to have in their homes. It is equally at home in the most richly furnished homes as in the smaller homes of people who want the best in a highboy.

Measurements and Specifications

The Elverano is 46 inches high by 28½ inches wide by 16½ inches deep. It will take any chassis that measures up to 8 inches high by 23 inches wide by 13½ inches deep. The overall size of this attractive cabinet immediately impresses a person with the great possibilities it has as an added piece of decorative furniture in the home. There is no overlooking this cabinet when you enter the room it's in. You see it immediately and marvel at its great beauty. You can have it with either Magnetic Cone Speaker (described on page 65 in this catalogue) or with Dynamic Speaker (described on page 66) or, if you prefer, you can have it without speaker.

Console Only

3R11659 Without Speaker
List \$60.00 Net..... **\$27.75**

With Magnetic Speaker

3R11657 With Magnetic Speaker
List \$75.00 Net..... **\$34.75**

With Dynamic Speaker

3R11658 With AC Dynamic Speaker Equipped with rectifier and Transformer
List \$110.00 Net..... **\$48.75**



Avalon Ortho Console

All the natural beauty of the exquisite grain of natural walnut is retained in the hand rubbed walnut finish of this beautiful console. The construction which is rugged and sturdy plainly indicates the work of master craftsmen who pride themselves in the perfection of their creations. The dimensions of this console are: 39 inches high, 23 inches wide, and 16 inches deep.

Impressive Design

Your customers will instantly approve of the new massive design brought out in this console cabinet. Ample space has been provided for batteries or eliminators if used for a battery operated radio set. Set compartment measures 20 inches wide, 13½ inches deep, and 9 inches high. These generous dimensions allow practically any set to be used. The large speaker compartment measuring 23½ inches high, 14½ inches deep and 20 inches wide is concealed behind an artistically designed grille, backed by a dull gold colored cloth.

With or Without Exponential Air Column Speaker

You may have your choice of console only, or console fitted with genuine orthophonic 84 inch exponential air column speaker and genuine Concert Grand Unit. The combination of this superb type horn and unit gives remarkable reproduction of all broadcast entertainment.

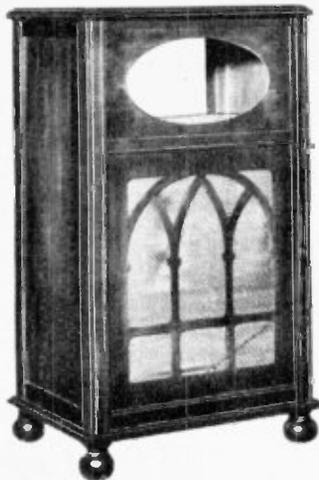
Lower Wholesale Prices Means Bigger Profits For You

3R11650 Console only. As shown. No speaker or speaker unit included. Ship. wt. 90 pounds.

List \$45.00 Net **\$19.50**

3R11651 Console fitted with Orthophonic Horn and Speaker Unit as described above. Shipping weight 95 lbs.

List \$75.00 Net **\$28.00**



The Chancellor Console

Here is a real triumph of the cabinet maker's art. It would be difficult for anyone to find a more beautifully proportioned cabinet anywhere. The rich elegance of the Genuine Walnut Plywood construction is equalled only by the appealing charm of the graceful style. Truly a cabinet that anyone might be proud to own. The elegantly turned legs support the cabinet rigidly. Notice that they are reinforced with a cross stretcher. A very striking effect is attained by the delicately carved grille. The Magnetic Cone Speaker, which is built in the cabinet, is in added quality feature that will be appreciated. This speaker is described in detail on Page 65 of this catalogue. It is well known for its remarkable tone quality. The drop front door is securely hinged and acts as a welcome elbow rest when tuning or making radio log. You will find this one of the most remarkable values in this style cabinet.

Beautiful Workmanship—Generous Dimensions

Not only is the workmanship in this cabinet the finest that master craftsmen can produce, but the measurements are such that the cabinet will look well in almost any size room. The outside measurements are 36 inches high by 21 inches wide by 15 inches deep. It can accommodate sets up to panel size 19 inches wide by 8 inches high by 14 inches deep. The battery compartment is 11 inches high by 19 inches wide by 12 inches deep. All our cabinets are carefully crated before shipping, and are guaranteed to reach you in perfect condition. Shipping Wt. 70 lbs.



3R11652 With Magnetic Cone Speaker List \$50.00

Net **\$21.95**

3R11660 Without Speaker List \$35.00

Net **\$16.35**



The Palmyra Console

Specially Designed for AC Sets

All the charm of the Early American simplicity, and lack of ornate, is represented in this fine example of the master cabinet makers' art. Look at this cabinet again. You will marvel at its distinguished appearance, shapely turned legs and cross stretcher, and its general air of good taste and correctness. A slight break from the too severe is the attractive grille, located below the set compartment. Made especially for AC sets, this cabinet is a true criterion of the progress that has been made by American manufacturers in adapting the earlier period furniture styles to the needs of the modern world. Right up to the minute, is this cabinet. One that will have immediate appeal to the owner or prospective purchaser of an AC set. Made throughout of Genuine Walnut plywood. Five-ply for added strength. The door of matched butt walnut veneer, is finished in hand rubbed natural finish. The top and side panels are also five-ply.

Details of Construction

The receiver compartment is 31 by 13 inches deep. Special panel arrangements for standard receivers will be furnished without extra charge if specified when ordering. Outside dimensions of cabinet are 41½ inches high by 34½ inches wide by 18 inches deep. Ship. Wt., 65 lbs.

3R11653 Cabinet Only List \$45.00

Net **\$26⁴⁴**

Attractive Montclair

A Low Priced Console



Here is a real Barawik feature. A beautiful Walnut console for only \$18.85. Never before has such a tremendous value been possible. Only by getting 100% cooperation from the manufacturer have we been able to make the price as low as it is. This console is considered by many radio furniture experts as an outstanding value and we do not hesitate to recommend it to the customer who is looking for a combination of style and quality in radio furniture at a low price. The beautiful two-tone walnut finish stamps it as a piece of quality furniture that will give long, enduring satisfaction. At the recent radio show, nearly all the better radio cabinets were finished in two tones—proof conclusive that this is really a stylish piece of furniture that will be immediately recognized as such by anyone who sees it in your home.

The distinctive shape of the panel opening, together with the elaborate grille underneath, are in beautiful accord with the dull rubbed panels on each side. The delicate fluting on the legs enhances the gracefulness on this inexpensive, good looking console.

Choice of Two Speakers

As a further convenience to the customer who is thinking of getting this attractive console, we have made special arrangements with the manufacturer to have it equipped with either a Magnetic or a Dynamic Cone speaker. Both of these speakers are described on pages 65 and 66 respectively. Turn to these pages now and read all about them. Both speakers are high quality throughout and will give greatly improved results to any broadcast. The Dynamic, being able to take on more volume without distorting the sound in any way, is recommended for large homes, halls, auditoriums etc. The outside dimensions of this console are 40½ inches high by 25 inches wide by 15 inches deep. The panel size is 6 by 11 inches.

3F11666	Cabinet only.	List \$40.00	Net, \$18.85
3F11667	Cabinet with Magnetic Cone Speaker.	List \$55.00	Net, \$25.85
3F11668	Cabinet with 110V AC Dynamic Cone Speaker.	List \$85.00	Net \$39.85
3F11669	Cabinet with 6 Volt Dynamic Cone Speaker.	List \$75.00	Net \$36.10

Genuine Serenader—Console Model for Dynamic or Magnetic Speaker

This attractive Serenader Console consists of a fine speaker cabinet placed on matching table base, especially designed for the cabinet. The whole console is most attractive, made of Genuine Solid American Walnut, with hand rubbed finish. The corner posts of the cabinet are accentuated with artistic bits of polychrome, and the grille is backed with a fine quality old gold gauze. The table is simple—but beautiful in its simplicity. It blends perfectly with the speaker cabinet, and contributes a note of good taste to it. The whole console makes an effective addition to your radio console. The solid walnut gives the speaker cabinet special value for good reproduction.

Technical details of the construction are also made according to the latest principles of speaker cabinet building, and thus you are assured of the newest and best when you place this console next to your radio. The table is of sturdy construction, with the four legs set so as to prevent jarring and vibrating when speaker is in use. The cabinet also is firmly and solidly built, and fits onto the table with the exactness which is necessary on all furniture used in connection with radio. Dimensions: 38½ inches high. Speaker Case—14¼ inches high x 14½ inches wide x 12½ inches deep.



Cabinet Only—Without Speaker

All ready to receive the speaker of your choice. Will take either a Magnetic Cone Speaker, or a Dynamic Cone Speaker. Our

price is low for this quality. All Walnut construction.

F5200 List \$32.00 Net \$18.82

Cabinet With Magnetic Cone Speaker

Same as above, equipped with our famous Marvello Magnetic Cone Speaker described in detail on page 65 of this catalogue. This

is a great value, not to be missed.

F5201 List \$47.00 Net \$25.67

Cabinet With Dynamic Speaker

Equipped with Marvello 110 Volt AC Dynamic Speaker described in detail on page 66 of this catalogue. The best unit you can get.

Equipped with Marvello 6 Volt D. C. Dynamic Speaker.

F5202 List \$102.00 Net \$51.32

F5218 List \$92.00 Net \$47.57

Table Model Serenader for Dynamic or Magnetic Speaker



This table model Serenader is similar to the speaker cabinet which is part of the console described above. It has the same kind of polychrome decoration and the same attractive type of grille, which is in keeping with the distinctive lines of the cabinet. This cabinet is also built of solid walnut throughout. Four small pedestals in the corners raise the cabinet and give it a firm foundation so that it may be placed on any table or floor with good effect. There is no speaker in this cabinet,

but it is especially suitable for Magnetic or Dynamic Cones. See pages 65 and 66 of this catalogue. The inside dimensions are 12x12x11 inches deep. Has baffle board installed with 7-inch opening. The installation of this board is so arranged that it can be easily removed to increase the opening, in order to accommodate a larger type speaker unit.

F5203 List \$18.00 Special \$10.58
Low Price Net

"Casalona" Highboy

We take immense pleasure in offering you our Casalona Highboy. We sincerely believe it to be one of our most beautiful models. Not only is the finish the very finest, but we think you will agree that the appearance is one of extreme style, grace and charm. Either open or closed it is sure to please the eye. You will see cabinets of this style and quality only in the homes of people who know and appreciate the best.

Special Features

We want to call your attention to several important quality features not found in most cabinets. First, the doors. The disappearing doors which slide back into the cabinet are made of 5 ply veneer English Oak with carved moldings on the apron going all the way around the sides. This is a far more expensive process than using pressed moldings, but the result is more satisfactory from all viewpoints.

The Finish

The whole cabinet is finished in a beautiful hand rubbed lacquer. A third feature is that the doors fold back against sides of cabinet.

No unsightly doors in sight when cabinet is open. The set is contained in a convenient pull-out drawer.

Dimensions

The outside dimensions of this cabinet are: Height 49 inches, Width 30 inches, Depth 16 1/2 inches. Will take set up to 9 inches high by 22 inches wide by 13 inches deep. Ship. Wt. 110 lbs.

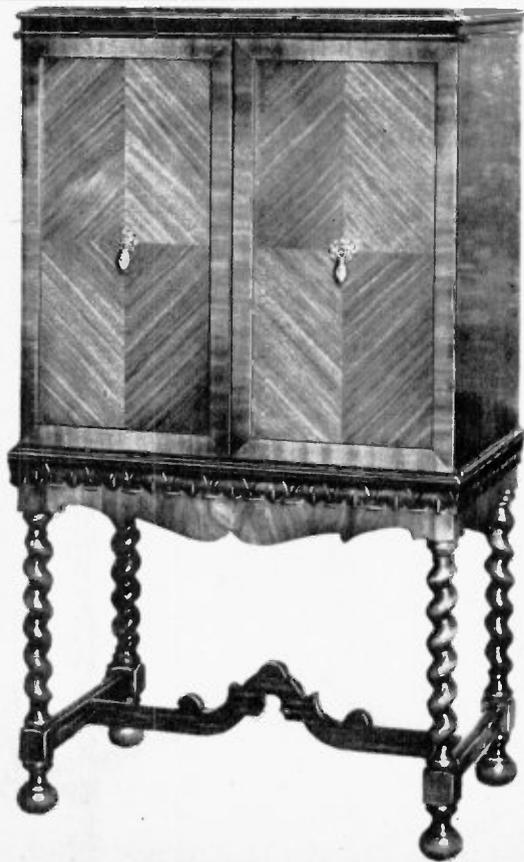
3R11684 List \$100.00 **Net \$49.95**

3R11685 With Magnetic Cone Speaker

List \$115.00 **Net... \$56.95**

3R11686 With Dynamic AC Speaker

List \$145.00 **Net... \$70.95**



"Gotham" Highboy

A captivating piece of furniture is the "Gotham." Seldom have we seen anything that equals it in beauty, and charm of refinement. The effect is at its best when the doors are closed for they in themselves are veritable works of art. They are made of the finest Walnut procurable in a stunning matched diamond design. An overlay of striped walnut around the frame of each door on the outside completes an ensemble of unmatched beauty. The inside of each door is finished with burl walnut of a shade that harmonizes with the furnishings in any room, when folded flat against the side.

The artistic legs braced by a curved stretcher form a fitting support for this superb cabinet. A grille of dignified design is placed immediately below the drawer containing the set. Easy access to the chassis is possible at all times. The whole cabinet is in hand rubbed lacquer finish.

Large Size — Roomy

As a piece of furniture, this highboy will hold its own in any surroundings. The quality of the workmanship, together with its generous proportions will command attention in the richest of homes. The outside dimensions are: Height 43 3/4, Width 24 1/2 and Depth 16 inches. Will accommodate set measuring up to 9 inches high by 20 inches wide by 13 inches deep. Ship. Wt. 105 lbs. Freight allowed to your city, as per offer on page 260.

3R11688 List \$90.00 **Net \$43.75**

3R11689 With Magnetic Cone Speaker

List \$105.00 **Net \$50.75**

3R11690 With Dynamic AC Speaker

List \$135.00 **Net \$64.75**



"Alcazar" Highboy



One of the most captivating highboy cabinets we have ever listed. All that is good, and beautiful has been incorporated in this dignified piece of refined furniture. The manufacturers of this exquisite creation are known throughout the world for the high quality of their product. This imposing model is a combination of burl and striped walnut. Only the finest of woods used. Five ply veneer, for necessary sturdiness. The doors are diamond matched walnut and slide back into cabinet. The outside and panel portion of the cabinet is finished in burl walnut so that it may harmonize when open and blend beautifully with the doors when closed. A beautiful hand rubbed lacquer finish puts the added touch of perfection.

Graceful and Tall

—Notice the gracefulness of the turned and fluted legs, also the fluted pilasters at sides. The arched door with the artistic scroll work over it adds greatly to the charm of the cabinet. Drawer, below set compartment, is handy for radio magazines, log book, etc.

Dimensions of cabinet are 50 inches high by 27½ inches wide by 17 inches deep. Will take any set measuring up to 9 inches high by 24 inches wide by 13 inches deep. Ship. Wt. 105 lbs.

3R11676 List . . . \$90.00 Net . . . **\$45.35**

3R11677 With Magnetic Speaker.

List . . . \$105.00 Net . . . **\$52.35**

3R11678 With Dynamic AC Speaker.

List . . . \$135.00 Net . . . **\$66.35**



"Clearmont" Highboy

Regal in appearance is what everyone who has seen this High boy has said. There is just enough ornamentation and carving to make this model do credit to the most sumptuous surroundings. A really very beautiful Walnut highboy supported by gracefully turned legs, braced with a curved stretcher. This alluring piece of furniture is an outstanding example of the better class of cabinet maker's handicraft. Everything was taken into consideration when making this model so as to attain a degree of perfection that distinguishes the good from the mediocre. There is no mistaking this cabinet for a low priced one. Anyone, even the most unsophisticated in the beauties of fine furniture, will immediately recognize in this highboy the full quality of this gorgeous piece of decorative furniture.

Beautiful in Every Detail

There are no parts of this cabinet that are not beautiful and that do not harmonize with the ensemble. The rich hand rubbed natural Walnut finish stamps it as a piece of high quality. Genuine walnut, five plies, so it will not warp or twist out of shape. Notice that the attractive arched double doors fold right back against the sides. The set is contained in a handy pull-out drawer. Easy access to it is therefore possible.

Dimensions

The dimensions of the cabinet are 50 inches high by 27½ inches wide by 17 inches deep. It will accommodate any chassis measuring up to 9 inches high by 24 inches wide by 13 inches deep. We guarantee safe delivery on all our cabinets. Ship. Wt. 100 lbs.

3R11680 List \$85.00 Net Each . . . **\$43.35**

3R11681 With Magnetic Cone Speaker

List \$100.00 Net **\$50.35**

3R11681 With AC Dynamic Speaker

List \$130.00 Net **\$64.35**



The "Westminster"

The Westminster is well named indeed, for it is a thing of increasing beauty and pleasure. This is one cabinet that does not get by unnoticed. Not only is it imposing in appearance but also the wood that has gone into its making has been exceedingly well matched and assembled. Made of Genuine Walnut plywood, it will stand changes of climate and weather without warping or twisting out of shape. The doors are made of five ply veneer burl walnut with maple overlays. The entire inside of this cabinet in the panels is done in burl walnut. This makes it more expensive to manufacture but the result gained in added beauty and richness of character more than offsets the added expense. The set itself is contained in an easy to pull out drawer so that all parts are easily accessible. The large grille is elaborately carved. The short turned legs are all joined by a four-point stretcher. A generous amount of scroll work stamps this beautiful piece of furniture as one of quality and good taste. Notice that the double doors fold right back against the side of the cabinet. This protects them against banging and other damage. The finish of the cabinet is hand rubbed lacquer.

Large Impressive Size

There is nothing skimpy about the Westminster. Beautifully proportioned in all its dimensions it is indeed a piece of furniture that will command attention. The outside size is 44 inches high by 29½ inches wide by 16¼ inches deep. It will take any set measuring 9 inches high by 24½ inches wide by 12⅞ inches deep. Shipping weight 120 lbs. This cabinet is sent freight allowed to your station. As per offer on page 260. Well packed in veneer case it is guaranteed to reach you in perfect condition.

3R11903 Cabinet only

List \$85.00

Net \$49.50

3R11904 With Magnetic Cone Speaker described in detail on page 65 of this catalogue.

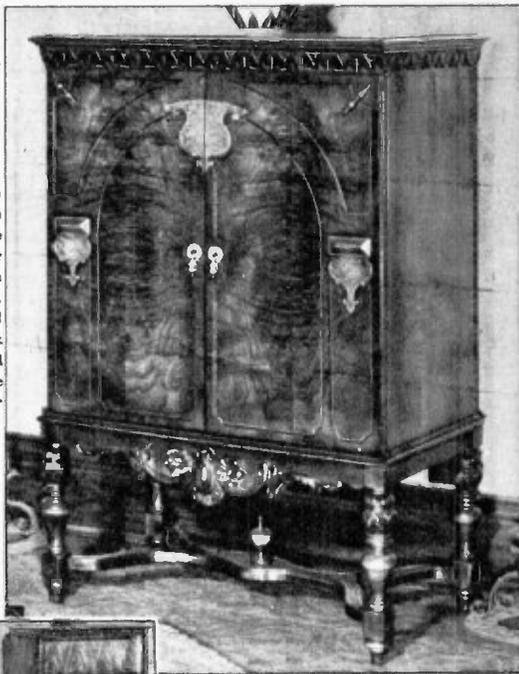
List \$100.00

Net \$56.50

3R11905 With Dynamic AC Speaker

List \$135.00

Net \$70.50



The "Graemere"

The Graemere console is in line with the latest designs of radio furniture. Listening to an entertaining program is a double pleasure if the set is enclosed in a beautiful cabinet such as this one. A true example of the better kind of cabinet making art.

Made of genuine Walnut plywood throughout with matched butt walnut veneer doors. The rich piano finish gives it a high polish and mirror-like lustre. This finish is very popular and is found only in the more expensive furniture. The receiver compartment is a sliding drawer that permits the operator to get at the set easily at all times. There is a great deal of room in the speaker compartment for horn or cone speaker or for eliminators. A large drawer below the set compartment gives the necessary room for magazines, radio log, etc. This drawer has a hinged lid that forms a writing surface. The turned, fluted legs are solidly braced by an attractive, curved stretcher.

Size of Cabinet

Outside dimensions are 55 in. high, 34 in. wide, 18 in. deep. Will take any set 29 by 9½ by 13 in. deep. Ship. Wt. 120 lbs. Shipped freight allowed as per offer on page 260.

3R11907 Cabinet only

List \$100.00

Net \$58.80

3R11908 With Unit and Ortho Horn

List \$115.00

Net \$67.62

3R11909 With Peerless Cone Speaker

List \$120.00

Net \$70.56

3R11910 With Radiola 100A Speaker

List \$125.00

Net \$73.50

3R11911 With Jensen AC Dynamic Speaker

List \$155.00

Net \$91.14



All Prices Quoted Are Net—There Are No Further Discounts

The Cambridge



There is something beautiful about the Cambridge that is apparent at first glance. Somehow we feel that we do not need to describe this cabinet in detail. Beauty is seen in its every feature. There is an abundance of detail in this console that will immediately appeal to the person who is looking for something differently attractive to help decorate a room. Made of genuine Walnut plywood this refined piece of furniture will keep its sturdiness intact for many years to come. The double doors are decorated with a striking octagonal design, centered with a smaller panel in dark walnut. Behind these is an elaborate grille which hides the speaker. Below is the drawer containing the chassis. Easy to get to the different parts of the set. In the table proper is a full width space with door to hold log book, radio magazines, etc. The four nicely turned legs have a fluted design that gives added attractiveness to them. A cross stretcher is also turned and fluted. Notice the decorative beading directly above the legs and all around the cabinet at the top and all around the top of the table. Nothing has been forgotten in the making of this lovely example of the cabinet maker's art to give it a gorgeous appearance.

Generous Dimensions

There is all the room needed and more in this cabinet to put all batteries or eliminators or speaker. The manufacturers have made a cabinet that has good looks and is practical as well. The outside dimensions are 52 inches high by 31 inches wide by 18 inches deep. It will accommodate a set measuring up to 9 inches high by 26 inches wide by 14 inches deep. Ship. Wt. 130 lbs. This set is sent freight paid to your town. See page 260.

3R11692 Cabinet only

List \$100.00

Net **\$55.86**

3R11693 Equipped with Magnetic Cone Speaker described in detail on page 65 of this catalogue.

List \$115.00

Net **\$62.86**

3R11694 With Dynamic AC Speaker

List \$135.00

Net **\$78.86**

Radio-Phonograph Console

Same design as above but fitted with special compartment above Radio set for electric phonograph. For complete description and details, see pages 8 and 9.

3R11695 Radio-Phonograph—Console only.

List \$135.00

Net **\$65.86**

3R11699 Radio-Phonograph Console with all phonograph fittings, complete with electric motor and turntable, high grade tone arm, electric pick-up with volume control, switch and inbuilt Magnetic Speaker. No set included.

List \$250.00

Net **\$129.50**



\$55⁸⁶
Net

May Be Had for Either Straight Radio
or for Combination Radio Phonograph

The Chateau

This console is fittingly called the Chateau. Owing to its attractive low height, it is very becoming in the smaller rooms with low ceilings. Made of exquisite Walnut plywood, it will keep its beautiful appearance for years to come. Notice the attractive drop front with its diamond matched walnut design decorated with a charming scroll design in the center. This drop front panel has the added advantage of locking. A very convenient feature not found on every cabinet. A small round grille of tasty design conceals the speaker. The four gracefully turned legs have a delicate touch of carving on them. They are securely braced by a curved cross stretcher. The fluting in the pilasters above the front legs adds grace and elegance to the ensemble.

The appearance of this console in any home will immediately suggest dignity and refinement on the part of the owner.

Dimensions—Specifications

The outside dimensions of the cabinet are 42 inches high by 35 inches wide by 15 inches deep. It will take any set measuring up to 10 inches high by 36 inches wide by 13 1/4 inches deep. Ship. Wt. 110 lbs. Shipped freight paid to your town. See page 260.

3R11696

List Price \$70.00

Net Price **\$39.75**

3R11697 With Magnetic Cone Speaker

List \$85.00

Net **\$46.75**

3R11698 With Dynamic AC Speaker

List \$115.00

Net **\$60.75**





The "Carlos"

A cabinet of distinction that will immediately appeal to the lady of the house. Up to now, furniture manufacturers have overlooked the fact that many radio buyers are women, and consequently, they have never manufactured a cabinet that appealed to them. Barawik's lead the way in showing for the first time, cabinets of that type. Beautiful pieces of furniture they are too. No woman will resist the charm of these elaborate, feminine creations of the master cabinet maker. The considerate husband will also be interested in these new, better looking highboys. They are sure to appeal to him also, especially if he considers the tastes of his wife. Tall and graceful, this alluring model is made with Genuine Bent Walnut top. The matched butt walnut doors with carved moulded panels and half round turning are very attractive. They fold flat against the selected Walnut Plywood sides. The shading and high-lighting of the sugar maple burl apron, the carved burl maple frieze, and the ornamental overlay at the top are beautifully blended with the rest of the cabinet. The delicately turned and fluted legs are braced by an ornamented cross stretcher. The easy sliding pull-out chassis board is mounted on rollers.

Specifications and Size

The outside size of the cabinet is 28 inches wide by 19½ inches deep by 56 inches high. Will accommodate any size panel up to 21 inches wide by 10½ inches high by 14½ inches deep. The inside dimensions of the speaker compartment are 22½ inches wide, 9 inches high, 15 inches deep. Shipping wt., about 120 lbs.

Shipped Freight allowed as per offer on Page 260.
3R11922 List, \$98.50.
Net Price.....

\$57.30



The "Alvarado"

A delightful piece of furniture reminiscent of the days of French monarchs and glories. A true example of period furniture reproduced in American studios for modern uses. Truly a beautiful receptacle for the favorite radio set. This new style of cabinet is very popular although very new. It appeals particularly to those people who have a definite decoration scheme in their homes, and who do not want to deviate from it. The one-quarter diamond matched mahogany on the doors is artistically high lighted and shaded. Moreover it is ornamented with a beautiful floral inlay that stamps the seal of quality on the piece immediately. The mottled mahogany apron and frieze add greatly to the beauty of the general appearance. The gracefully designed legs are securely braced by a decorated stretcher. The top as well as the sides and grille of this quality highboy are made of the finest Walnut plywood. Through and through you will find the quality of this cabinet to be the highest. It is the product of one of the largest and best known radio cabinet makers in the country. His products are recognized as leaders in the field. You will need very little sales talk to sell this model to the woman or man who desires the best cabinet of this style. The pull-out chassis board is mounted on rollers. Easy to get at the set at all times.

Specifications and Size

The outside dimensions of this artistic cabinet are 54½ inches high, 27 inches wide and 19 inches deep. It will accommodate any set measuring up to 10½ inches high, 21 inches wide, 14½ inches deep. The inside measurements of the speaker compartment are 10 inches high, 22½ inches wide and 14 inches deep. Shipping weight about 120 pounds.

Save Even More—This Cabinet is Shipped Freight allowed. See page 260.

3R11925 List, \$90.00.
Net.....

\$52.92



The "Laurel"

A real, massive, dignified console that will add distinction and richness to even the largest room. It is so correctly proportioned and designed as to make it graceful and appealing in appearance. The large stately double doors are ornamented with a fluted paneled design. The fluted paneled pilasters on each side give the console a dignity and appearance of height that is beyond all expression. The upper, drop-down door matches the design of the rest of the cabinet and protects the set as well as adding greatly to the general look of the cabinet. The short, round legs give an air of sturdiness. A good-looking removable grille, covering the entire lower part of the cabinet is richly designed to resemble the leaded windows of old cathedrals.

Made of genuine American Walnut with 5-ply Walnut veneer top and panels, this console will not warp or twist out of shape in damp climates. The doors are made of 5-ply selected and matched butt Walnut veneer. A beautiful hand rubbed finish climaxes the splendid workmanship in this high quality piece of cabinet maker's art.

Generous Dimensions

Panel size is extra large. 29 inches wide by 10 inches high by 13 1/2 inches deep.

Overall Size: 42 inches by 32 1/2 inches wide by 18 1/2 inches deep.

Speaker compartment is 29 inches high by 24 inches wide by 14 1/2 inches deep. Shipping weight, 110 lbs.

Shipped Freight allowed as per offer on Page 260.

3R11913

Cabinet

only.

List, \$90.00.

Net,

\$52.70

3R11914 Cabinet with 108 inch air-column horn.

List, \$100.00.

Net,

\$58.80

3R11915 Cabinet with Air-chrome Speaker described on Page 67 of this catalogue.

List, \$115.00.

Net,

\$67.62



The "Cadenza"

Phono-Radio Console

A gorgeous, rich-looking cabinet of impressive size and proportions. Made to accommodate the finest radio and phonograph. Above the set compartment is a phonograph turntable with genuine GE phonograph motor, volume control, and adapter. Also an electric pick up with tone arm and automatic shut off attachment. A switch is already installed for changing from radio to phonograph. This forms the best phonograph music reproducer possible. With these features you will appreciate your phonograph records to a much greater degree than was formerly possible. The cabinet is made of genuine Walnut with matched butt walnut veneer doors and front panel.

It is a beautiful piece of furniture that will enhance the appearance of the richest room. When a radio set is installed in it, you have the acme of music entertainment at your command. There are no intricate parts to change when you wish to switch from records to radio or radio to records. You simply turn the switch and it's done. All entertainment comes to you through your favorite speaker. The same Speaker is used for both.

Extra Large Panel

The receiving compartment is a handy sliding drawer 24 inches wide by 9 inches high by 14 inches deep. The speaker compartment is 13 inches high by 15 inches wide by 16 inches deep. The outside dimensions of the cabinet are 50 inches high by 28 inches wide by 19 inches deep. Ship. wt., about 100 lbs.

Shipped Freight allowed to Your Station as per offer on Page 260.

Price List

3R11917 Cabinet only.

List, \$100.00.

Net,

\$58.80

3R11918 Cabinet with Phonograph Equipment as listed above.

List, \$180.00.

Net,

\$105.84

3R11919 Cabinet with Phonograph Equipment as listed above and Peerless Cone Speaker.

List, \$200.00.

Net,

\$117.60

3R11920 Cabinet with Phonograph Equipment as listed above and A. C. Dynamic Speaker.

List, \$235.00.

Net,

\$144.06



Delmar Console

Another outstanding success in the art of fine cabinet making. Nothing quite as beautiful has ever been designed in period radio furniture. All the gracefulness and beauty that characterized the exquisite furniture of the 18th century is captured in this gorgeous highboy. People who know have declared it one of the most graceful, well proportioned pieces of artistic furniture they had ever seen. You too, will marvel at the richness of it. Made of the best quality woods, perfectly matched and blended, it is a genuine piece of art. It shows the designing skill and taste of the real artist. You will be surprised at the way your best customers will marvel over this model. They will be the ones who will want it immediately for their fine homes. Period furniture is all the rage now, and all you have to do is show this to the man or woman who wants the finest and your sale is assured. Made with genuine American Walnut plywood top and sides. Will not warp and twist out of shape in damp climate. This is a great advantage. The Sugar Maple doors, showing the natural grain of this choice wood, fold back flat against the sides. Richly shaded in two-tone effect they are further decorated with scroll work of charming design. Decorated sycamore frieze and apron blend beautifully with the other parts of the cabinet. The delicately turned and fluted legs are braced by a decorated back stretcher.



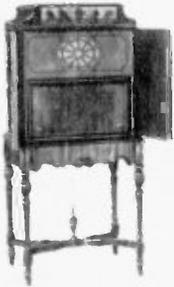
Specifications—Size

The outside dimensions of this most beautiful cabinet are as follows: 55 inches high by 26½ inches wide by 19 inches deep. Will take any set measuring up to 21 inches wide by 10½ inches high by 14½ inches deep. The inside measurements of the speaker compartment are 22½ inches wide by 10 inches high by 14½ inches deep. The easy sliding, pull-out chassis board is mounted on rollers. Ship. wt., 120 lbs.

SHIPPED FREIGHT ALLOWED as per offer on page 260.

3R11940
List \$85.00

Net \$49.98



Alameda Console

Here is another example of the delightful art that was the cabinet makers' of the Napoleonic period. Named after the famous empress of that period, this charming highboy is a true adaption of the beautiful creations that deserved the praise of the best furniture connoisseurs of the time. Still in great favor in the best homes, this style of furniture has only recently been adapted to such modern uses as radio cabinets. It is sure to please you! best customers. They will appreciate the beauty of design as well as the wonderful workmanship that has entered into this creation. Rich in appearance and of correct proportions, this is one of our finest period highboys. Show it to those who know and appreciate art in furniture making and they will be delighted with it. A fitting console for any home.

Made with genuine American Walnut plywood sides and top. This construction assures rigidity and absence of warpage in even damp climates. The genuine matched butt Walnut doors fold neatly against the sides of the cabinet. They are delicately shaded and tastefully paneled to the best advantage. Specially designed frieze and apron of zebra wood. The very finest procurable. The attractive construction of the legs and the back stretcher merit special attention. A good looking grille is located above the easy sliding pull-out chassis board that is mounted on rollers. The finish is perfect. Carefully rubbed and highlighted.

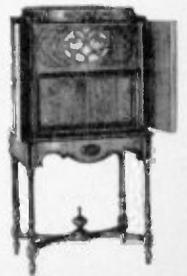
Specifications of Cabinet

The outside dimensions are 57 inches high by 26 inches wide by 19 inches deep. Will take any panel measuring up to 21 inches wide by 10½ inches high by 14 inches deep. The speaker compartment measures inside 22 inches wide by 10½ inches high by 14 inches deep. Ship. wt., 120 lbs.

SHIPPED FREIGHT ALLOWED as per offer on page 260.

3R11936 List \$92.00

Net \$54.10



The Sherbrooke



A masterpiece of the furniture manufacturers' art is this beautiful, massive creation. Its impressive appearance is enhanced by the graceful, fluted pilasters on the sides. The beautiful scroll overlay on the large double doors adds an air of rich distinction to the looks of the cabinet. A large, elaborate, removable grille covers the lower half of the cabinet. The four, short, turned legs of this console give it an appearance of solidity and sturdiness that is not found on most cabinets. Truly a beautiful addition to the furnishings of any room. One that you will be proud to show to your friends. Made of genuine American Walnut with butt walnut doors. Five plies, of course, so that it will not warp or twist out of shape in damp climate. You can purchase this cabinet already equipped with the famous Long Air Column Speaker described in detail on page 69 of this catalogue. Also you have your choice of the famous Marvelo 7 AC or the Marvelo 9 AC Radio sets. These sets are described in all their interesting details on pages 28 and 29 and also 10 and 11 of this catalogue respectively. Turn to these pages now and choose the set that suits your needs best. Each is famous for long distance, selectivity, and wonderful volume of reception.

Size and Specifications

Outside size of cabinet is 44 1/4 in. high by 28 in. wide by 17 in. deep. Will take any set measuring up to 24 3/4 in. wide by 12 in. high by 12 1/2 in. deep. Ship. wt., 140 lbs.

SHIPPED FREIGHT ALLOWED as per offer on page 260.
3R11929 Cabinet only. Net **\$41.65**
List \$80.00

3R11930 Cabinet with Orthophonic type Horn Speaker and Concert type Balance Armature Unit. Net **\$49.75**
List \$100.00



The Del Prado

You get all the grace and charm of the finest period furniture in this delightful highboy. It is really an amazingly true reproduction of the gorgeous furniture style that marked the era of the prosperous French monarchies. Graceful in appearance and correct in design, this attractive cabinet is sure to please the discriminating purchaser who wants something different yet practical to contain his radio set. You will be amazed by the beauty and distinctiveness of the Del Prado. You will be enthusiastic about it, and so will your customers. There are few cabinets that excel this one for sheer beauty and workmanship. The top and sides of this creation are made of genuine American Walnut plywood. There is no better wood for cabinet making. You may be assured that it will not warp or twist out of shape even in damp weather. The genuine matched butt Walnut doors swing clear back against the sides. Elaborate carved mouldings, with special highlighted effect decorate these beautiful doors. The apron is made of blistered maple. The carved frieze adds a touch of distinction. The gracefully turned and fluted legs are charmingly braced by a fancy back stretcher.

Dimensions—Specifications

The outside dimensions of the cabinet are 56 inches high by 25 inches wide by 18 1/2 inches deep. Will accommodate any panel measuring up to 10 3/4 inches high by 21 inches wide by 14 inches deep. The inside dimensions of the speaker compartment are 21 inches wide by 12 inches high by 14 inches deep. The easy sliding pull-out chassis board is mounted on rollers. Ship. wt., 110 lbs.

SAVE STILL MORE—THIS CABINET IS SHIPPED FREIGHT ALLOWED as per offer on page 260.

3R11932 Net **\$49.39**
List \$84.00



Genuine Walnut Cabinets



\$8⁵⁵
Net

Table model Cabinets. Made of selected walnut veneer and solid walnut. Finished in a beautiful shade of antique walnut lacquer and shaded to harmonize with the latest furniture creations. Attractively embossed frame at top and bottom. Neat ornaments applied on pilaster corner posts. Panel height is 7 inches, but by removing upper or lower strips, panels of both 8 or 9 inch height can be used in addition. Full 12 inch inside depth. Piano hinged top. Shipping weights 25 to 35 pounds. Fully guaranteed and the best value ever offered.

Price List

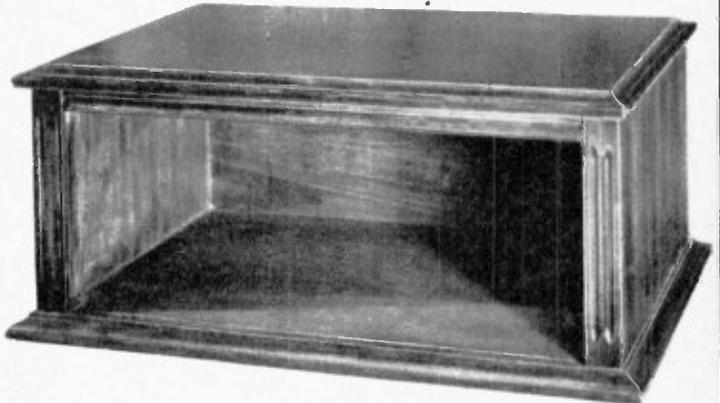
Article Number	Panel Width Inches	List Price	Net Price
3R11633	18	\$15.00	\$ 8.55
3R11634	21	17.00	9.69
3R11635	24	18.00	10.26
3R11636	26	19.00	10.83
3R11637	28	20.00	11.40
3R11638	30	21.00	11.97

De Luxe Table Model Cabinets

An inexpensive cabinet but very well made of fine materials and nicely finished. Selected quarter sawed gum wood matched to secure a beautiful grain, and finished in an attractive shade of mahogany. Hand rubbed. Simple design, but very neat. Panel 7 inches high. FULL 12-INCH DEPTH. Shipping weight 15 to 25 pounds.

Price List

	Panel Width Inches	List Price	Net Price
3R11611	18	\$ 9.50	\$5.41
3R11612	21	10.50	5.98
3R11613	24	11.25	6.41
3R11614	26	12.00	6.84
3R11615	28	12.75	7.27
3R11616	30	13.50	7.70



Spinet Desk Console For Sets and Speakers

A popular compact style of console cabinet, especially designed to enclose cabinet model sets. You will find a big market for this item. Top and side panels of five-ply walnut veneer. The door is five-ply matched butt walnut veneer. Hand rubbed walnut finish. Height 41 1/2 inches. Width, 34 1/2 inches. Depth, 18 inches. Inside dimensions, 31x10x13 inches. Shipping weight, 60 pounds.

Price List

With set compartment 10 inches high, 21 inches wide, 13 inches deep. Especially designed for Atwater-Kent Model 37 and Crosley Band Box Receivers. Suitable for use with all similar metal cabinet receivers, including our Marvelo 6-7. Compartment at side with grille for cone speaker.

3R11617 Cabinet only.
List, \$45.00. **\$26.46**
Net.....

3R11618 With Peerless Magnetic Speaker.
List, \$65.00. Net, **\$38.22**

Special model for set only without speaker compartment.
3R11619 List, **\$23.52**
\$40.00. Net.....

Freight Allowed
Make up a \$50.00 order.
Save freight charges. See
page 260 for details.



\$26⁴⁶
Net



We Pay Freight As Per Offer Given on Page 260

Beautiful Furniture Specialties

New Pier Book Case

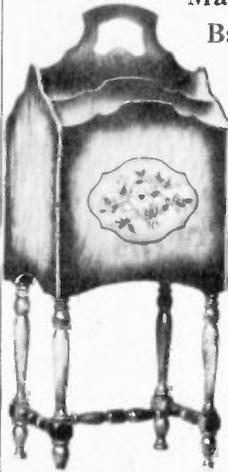
Something entirely new and different in book cases. Designed to take care of books and magazines. Wonderful for dens, halls, odd corners, etc. Has four generous sized shelves that will accommodate many books. 12 1/4 in. wide; 8 in. deep; and 54 1/4 in. high, with handsomely designed top and legs. Made of selected woods, double lacquered. Shipping weight, 18 lbs. 8R10532 Red Crockle Lacquer. 8R10533 Green Crackle Lacquer. 8R10534 Shaded Light Walnut.

\$6⁷⁵
Ea. Net

Retail Price, \$15.00



Standing Magazine Basket



8 R 10525
Shaded
Light Walnut
Finish.

8 R 10526
Red Lacquer
Finish.

8 R 10527
Green Lacquer
Finish

\$4⁵⁰
Ea. Net

Retail Price \$9.00

Built chair-high, to match regular furniture. Compartments are wide and generous, to accommodate a large number of magazines. Legs are neatly turned, with sturdy stretchers for stability and long service. Basket has flower spray panel on both sides. Here is a number that will be much appreciated for its usefulness and attractive appearance. 3-ply veneer throughout, and wonderfully finished. 11 1/4 in. wide; 9 1/2 in. deep; 30 1/4 in. high. Shipping wt., 10 lbs.

Combination Smoke Tray and Magazine Rack



Here is comfort, beauty and convenience all in one. Just the thing for holding current magazines and keeping at the reader's side his favorite smokes or her box of bon bons. Can easily be carried from one room to another. Beautifully turned supports and stretchers. Large base with sturdy legs. All 3-ply veneer, with double lacquer finish and floral panel on both sides. 12 1/4 in. wide; 7 3/4 in. deep, and 30 1/4 in. high. An exceptionally attractive piece at a very moderate price.

8R10541 Shaded Light Walnut Finish. **\$5²⁵**

8R10542 Red Lacquer Finish. **\$5²⁵**
Ea. Net
Retail Price \$12.00



Booklovers Magazine Rack

A beautiful new art design rack in a variety of finishes. Made of selected kiln-dried hard wood. All panels are 3-ply veneer. Finish is high quality lacquer, two coats, with artistic flower spray decorations on both sides. Has a finish coat of clear lacquer over all, insuring permanent brilliance of colors and long wear. Rack is 27 in. high; 13 1/2 in. wide; 7 1/2 in. deep.

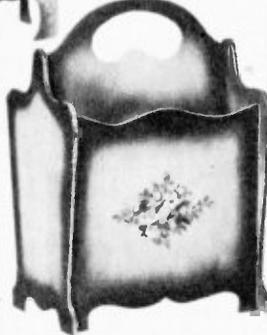
8R10544 Shaded Walnut **\$4²⁵**
Finish.

8R10545 Red Lacquer **\$4²⁵**
Finish.

8R10546 Green Lacquer **\$4²⁵**
Finish. Ea. Net
Retail Price \$7.50

Floor Type Magazine Rack

A good quality floor magazine basket with two large compartments.



Beautiful floral decorations on both sides. Stoutly built. 12 in. wide; 8 1/2 in. deep, 17 1/4 in. high. Shipping wt. 8 1/2 lbs. 8R10535 Shaded Light Walnut Finish. **\$2²⁵**
Ea. Net
Retail Price \$5.00

Sturdily built, to give life-long service, yet it has grace and daintiness that will add charm to any room. Includes inside accessory tray. Made of thoroughly kiln dried selected wood. 3-ply veneer, and decorated with handsome floral medallion. 28 in. high; 14 in. wide; 10 in. deep.

8R10538 Shaded Light Walnut Finish. **\$4⁷⁵**
Ea. Net
Retail Price \$10.00



Priscilla Sewing Cabinet

Kidney Top End Table



A New Popular Design

What woman wouldn't like this charming new end table, with its graceful proportions and new shaped "Kidney" top? Just the thing for that vacant corner or any convenient nook in the house. Beautifully modelled legs and base. Top has exquisite flower spray panel decoration. Table top is 12x24 inches. Table is 25 in. high. Here is a table with a hundred uses, and a wonderful value at the price. Expertly finished throughout. Shipping wt., 15 lbs. 8R10528 Shaded Light Walnut Finish. **\$4⁵⁰**
Ea. Net
Retail Price \$8.50

Genuine Temple Console Reproducers



**Air
Chrome
Speaker
in Table
Console**
3R11851
List \$45.00
\$26⁴⁶_{Net}

Nothing surpasses the beauty of this delightful console model speaker. The cabinet is made of Genuine American Walnut plywood. The workmanship is the best. Designed along artistic lines, it is a fitting addition to any radio set. The delicately scrolled grille, the graceful, turned legs and the turned pilasters on the sides all add to the beauty of the cabinet. Especially designed to bring out the unusual features of the Temple Air Chrome Speaker to best advantage. Place any AC receiver on Table and you have a complete unit. The genuine Temple Air Chrome Speaker that is concealed in it is recognized as one of the best in its field.—It will reproduce all the deep basses and overtones as well as the high notes of the soprano with amazing clarity and accuracy. This famous speaker is described in all its interesting, technical details on page 67 of this catalogue. Turn to it now.

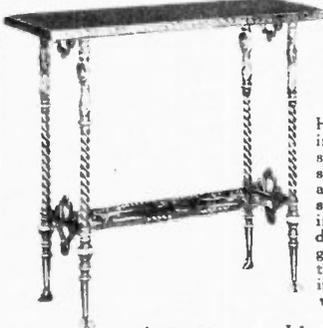
Outside dimensions are 30 in. high by 29 in. wide by 15 in. deep.



**Air
Column
Speaker
Attractive
Table
Style**
3R11852
List \$42.50
\$24⁹⁹_{Net}

Graceful and elegant is this attractive speaker table. Made of Genuine American Walnut plywood, it forms a solid, beautiful table for a cabinet receiver. A complete unit at low cost. The gracefully turned and fluted legs are strongly braced by a cross stretcher. The scroll work and the fluted pilasters all greatly increase the beauty of this charming piece of furniture. You will be sure to like the Genuine Temple Air Column Speaker hidden in the recesses of the table. This type of speaker is preferred by many on account of its capacity for great volume without distortion and also for its extraordinary faithfulness in reproducing all the deep notes as well as the high ones with life-like accuracy. This wonderful speaker is described in detail on page 68 of this catalogue. The speaker in this table is the regular 60 inch length. The outside dimensions of the table are 30 3/4 inch high by 24 inch wide by 14 inches deep. The size of the top panel is 24 by 14 inches.

Beautiful Wrought Iron Radio Tables and Benches



\$749 Net List \$15.00
3R11856

These tables are especially designed for use with metal cabinet receivers such as Crosley, Atwater Kent, Marvelo, etc. The combination is very practical and makes an attractive appearance at low cost.

Solid Top Table

Very popular right now. Harmonizes well with sets in metal cabinets. The solid top forms an ideal steady support for the set, and the lower shelf is for the speaker. Of sturdy wrought iron, this table of artistic design faithfully copies the graceful work of earlier times. Dimensions are 27 inches high by 28 1/4 inches wide by 11 3/4 inches deep.

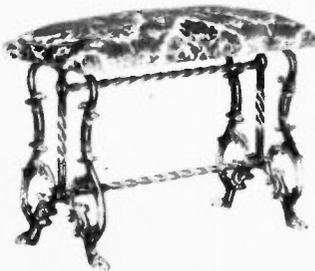
Open Top Table

There is a big demand for radio tables. An artistic achievement in wrought iron. Elaborate open work top, shelf and sides. Makes a very compact and neat combination with the new metal cabinet receivers. The shelf below accommodates the speaker. Dimensions are: 27 in. high by 22 3/4 in. wide by 12 in. deep.

List price \$15.00
3R11857



\$749 Net



\$573 Net List \$11.50
3R11858

Beautiful Radio Bench

This artistic bench is made of beautifully worked wrought iron in graceful design. The cross stretchers are spiralled for more elegance. The top is padded with self filling and is covered with good quality tapestry cloth. Also ideal for sitting at the fireside, or as an added seat for bridge table, etc. Beautifully matches the tables shown above. Dimensions are 18 1/2 inches high by 24 1/2 inches wide by 12 inches deep.

Large Wrought Iron Radio Bench

Made of wrought iron in artistic polychrome finish. Makes an ideal match with the tables shown above. Will go well in any setting. Has sides for added comfort and for ease in moving about. Twisted cross stretchers. Padded seat covered with attractive tapestry cloth. Welcome at the fireside, or as window or wall bench.



List \$14.50
\$720 Net
3R11859

New Improved HYATT SIX

Portable Radio Set



Relieve dreary days or nights of their monotony. Wherever you go, whatever you are, The Hyatt Portable is a dependable source of entertainment. There is an individuality about it that engenders companionship. It belongs to you. The standard radio belongs to the family—to the home. But the Hyatt Portable can be taken with you wherever you go: To the office—on the week-end trips or to your summer camp. When you travel it provides entertainment en route, and at your destination it is still on the job. No home is complete without a radio and the Hyatt serves the home as well as the individual.

A National Sensation Three Stages Radio Frequency!

The Hyatt is known throughout the country as one of the most reliable portable receivers made. It steps out and some really amazing reports have been made of its performance.

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

Transformers, both radio and audio frequency built under Hyatt specifications and name, mounted on Bakelite base. Benjamin cushion tube sockets are used throughout.

One of the Finest Portables Ever Made!

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

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

The case is especially attractive in artificial leather covering with ship design on inside of front cover, which houses the loop. Size 14 inches long, 11 inches high and 9 inches deep and weighs, completely equipped with batteries and tubes, less than 28 pounds. Without accessories 15 pounds.

The Hyatt Portable receiver uses six 299 type tubes; three 1½ volt "A" batteries; two 45 volt "B" batteries, and one 4½ volt "C" battery.

1R6357 Set only, no equipment. Retail Price \$75.00
Net Wholesale **\$44.10**

1R6358 Set Complete with all accessories as specified above. Retail Price \$95.00
Net Wholesale **\$55.95**



Portable Radio Set

This well known set has proven extremely popular both with owner and dealer. The demand for it has made it a ready seller and a money maker for the dealer. Owners and users have found it extremely easy to handle and have been pleased with its remarkable performance.

The first extremely compact radio on the market, the Trav-ler still retains some of the old features which originally made it so popular. Among these are its light weight—only 23 lbs.; all in one case; loop aerial, five tubes, batteries, loud speaker; standard parts; sweet tone and strong volume.

New Features Added

To the proven features of this popular set have been added: Improved appearance—beautiful black and gold color scheme. Jones' multi-cable plug permits using the Trav-ler with larger batteries or eliminator when at home. Special attachment, permitting the use of either the Trav-ler loop aerial or antenna and ground. And above all else a lower price is now in effect.

To show the Trav-ler is to sell it. In fact, one on your showcase, with batteries installed—ready to operate by simply turning the switch will awaken a desire for one in the hearts of many of your radio fan customers. Always ready to operate—wherever it is located—in the home, in the camp or in a car or boat on a Sunday outing.

It is 8½ inches deep; 10 inches high, and 12½ inches wide. Shipping weight, 28 pounds. Uses five 299 type tubes, three 1½ volt "A" batteries, two 45 volt "B" batteries and one 4½ volt "C" battery.

1R5515 Set only, without accessories. List \$57.50

\$33.80

Net.....

1R5517 Set complete with all accessories (tubes and batteries) ready to operate. List, \$77.15.

\$45.60

Net.....



The New Marvelo 50 Portable Radio

More Power—Greater Range

Remarkable
Performance



\$34⁵⁰

Listen to Anything in the Air! Anytime! Anywhere!

Radio is the one big thing that is missed the most on any kind of trip away from home. How often have you been on a camping trip, motor trip, or any other kind of outing, or even on a business trip and wished that you had a radio with you to entertain after the day was over? You need never have that experience again for here is a New, Better Portable Receiving Set that is sure to meet with your enthusiastic approval. The price is low enough to make it within the reach of all. You will find it a splendid investment in pleasure and entertainment. There is one big advantage in having a portable radio set and it is this: A portable belongs to you. It is yours to take away anywhere, any time. You can't take the console radio in your home out of the living room and bring it to your own room when you feel like doing so. But you can a portable. Take it with you in any room in the house, on trips, on land or water. You need never be lonesome when you are alone if the portable is with you. You will never tire of it. There is a feeling of good companionship wherever the portable radio is. You will feel like the host of a party every time you take it with you.

Performs Like a High Priced Set The Shield Grid Tube Does It

Many people formerly supposed that a portable radio was incapable of good performance. This is not the fact with this New and Better Marvelo. Its performance compares favorably in every way with that of far more expensive sets. The Shield Grid Tube with the new circuit design of this portable stamps this set as one of superior construction. This tube, many times more powerful than the ordinary radio tube, produces an amplification of 170 compared to 8 in the tubes used in ordinary portables. There is one stage of radio frequency amplification operated with this tube. The remainder of the circuit comprises a detector and two stages of audio amplification. This permits maximum volume at all times. A Utah unit and the long air column tone chamber gives a true, clear, and vivid tone to all music and other broadcast.

Easy to Tune-In on Your Favorite Station

There is nothing new to learn in operating a portable. The two tuning controls with window dials above make it easy. The loop aerial is coiled around the swinging front cover. You regulate the tone by the volume control. You

Looks Like an Expensive Leather Traveling Bag

Just as attractive in appearance as the smartest luggage. The domed top with rounded corners is an exclusive design that adds greatly to its beauty. The deep-grained black imitation leather covering wears exceedingly well and looks rich and dignified. The frame work is strong and rugged. It will stand a great deal of travel. Four ½ inch rubber studs on bottom cushion the case and permit easy swinging of front cover when using set. There is no need to detach the cover. Just swing it to the position that gives you the best results. You can attach an aerial and ground to it if you wish. The case is 12½ inches high by 14½ inches wide by 8½ inches deep.

Extremely Low Prices

Complete, Ready to Use

3F11751—
Without
Accessories.
Includes 1 shield grid tube, 4 style 99 tubes, 2 45-volt B batteries, 3 dry A batteries, 1 C battery. There is nothing else to buy. Weighs 26 lbs.
3R11752.....

\$34.50

\$46¹⁵

We Pay Freight As Per Offer Given on Page 260

Stylish Console Table

An exquisite piece of furniture that will be the pride of the owner. Elaborate in design, made of the best materials by expert artisans, this beautiful console table will complete the furnishings of any room in good taste. Made of Genuine American Walnut plywood, it will ever be a source of pleasure to the owner of any AC receiver. Makes a complete, compact outfit at low cost. The distinctive octagonal grille, with carved scroll work on the sides, the spiral legs, securely braced by a cross stretcher stamp it as a piece of high quality.

Can Be Furnished With Magnetic Cone or With Dynamic Power Speaker

Either of these speakers is recognized as leaders for quality of tone and faithfulness of reproduction of all kinds of music or other entertainment. Many people prefer the Dynamic Power Speaker because it is capable of greater volume without the slightest distortion. These speakers are described in more detail on pages 65 and 66 of this catalogue. If you wish, the table can be had without speaker. The overall dimensions of the table are 29 inches high by 32 1/4 inches wide by 14 1/4 inches deep. Ship. wt. 70 lbs.

1R11865 Table Only.	Net	\$18.82
List \$27.00		
1R11866 With Magnetic Speaker.	Net	\$25.82
List \$47.50		
1R11867 With Dynamic Speaker.	Net	\$39.82
List \$75.00		



Quality
Console Table
Two Toned Walnut

Changes Any Table Radio to a Console

An extraordinary value for the owner of any DC receiver. With the set on top this table completes a neat appearing outfit at a very low price. Made of Genuine French Walnut plywood, it is very beautiful in appearance and very sturdy in construction. The delicate two-tone rubbed finish adds greatly to its appearance and makes a piece of furniture that is a happy addition to the home. This is a very special value at our low price. The wide-awake merchant will appreciate the good margin of profit that there is in this table for him, and will stock accordingly. There are still thousands of radio owners in your locality who have no console. This is your opportunity to offer one to all DC receiver owners and set builders who have not yet availed themselves of this great bargain.

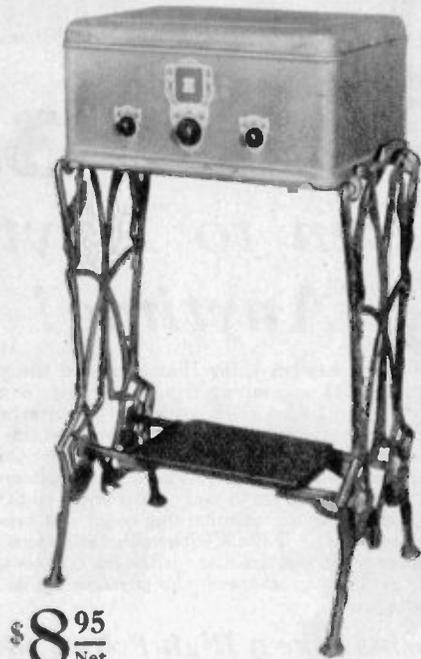
Large Battery Compartment

There is ample room to conceal all batteries and eliminators or chargers. The double, full sized hinged doors permit easy access at all times. The top is large enough for any receiver. The outside dimensions are 31 inches high by 18 inches deep by 32 inches wide. Shipped carefully crated and guaranteed to reach you in proper condition. Ship. wt. 90 lbs.

3R11869 List \$25.00

Net

\$11⁷⁵



\$8⁹⁵
Net

Artistic Metal Table

Here is a real boon to owners of AC receivers in metal cabinets. This wrought iron table is made especially for them. A beautiful table in every way, it completes the unit at a very low cost. The design is exclusive and very decorative. A motif of branches, in natural bark finish is elaborated with flowers tinted in natural colors and with green leaves. This table harmonizes with any color of metal cabinet. It will go equally well with the walnut, red, ivory or the green finish. Made to take standard metal cabinets such as used on the Marvelo, the Atwater Kent, the Crosley. Compact and neat in appearance. Solid and sturdy in construction, it will give a steady support to the set. Sits flat on the four legs, does not wobble or sway. The shelf below forms a suitable support for the speaker. This is a fast selling table that has proved its popularity. Will make a delightful combination with the metal benches shown on the opposite page. Dimensions are 30 1/2 inches high by 22 1/2 inches wide by 16 inches deep. Ship. wt. 60 lbs.

1R11871 List Price \$20.00

Net Each

\$8⁹⁵

Genuine Orthophonic Speaker Tables



The Console

A beautiful Speaker Table that combines usefulness with attractiveness. A charming addition to the furnishings of any home. Made of genuine American Walnut plywood, it will give many years of service without warping or twisting out of shape. The elaborate grille conceals a nine and one-half foot (114 inches) air column horn, of the preferred exponential type. The artistic scroll work at the bottom, and the exquisite finish of the hand-rubbed walnut is especially worthy of attention. Large enough to take any size table model radio, this speaker table makes a very attractive combination at low cost. It is especially desirable where little room is available for a radio, or for the person who already has a table receiving set with an old-style speaker. The outside dimensions of the "Console" are: 19 inches deep by 35 inches wide by 33 1/2 inches high. The dimensions of the speaker compartment are: 16 inches deep by 33 inches wide by 23 1/4 inches high.

3R11862
List \$75.00

Net **\$34.00**

Exponential Air Column Horn

Both the "Console" and the "Little Princess" are equipped with a long Exponential Air Column Horn of the latest scientific design. This type of speaker is preferred by many people to other types. It absolutely records all the basses, and overtones, and the shrill notes of the soprano without the slightest distortion. These horns are equipped with Concert Grand Balanced Armature Type Unit, of the very best make. This unit is largely responsible for the accuracy and fidelity of reproduction. The exponential type horn is built along strictly scientific principles, and follows largely the curves of the human throat. The dimensions are not guessed at, but, on the contrary, are accurately derived at according to strict charts and rules. The horns in these speaker tables are made by a manufacturer of national reputation and will positively be a revelation in tone to you. Moreover, they are capable of great volume.

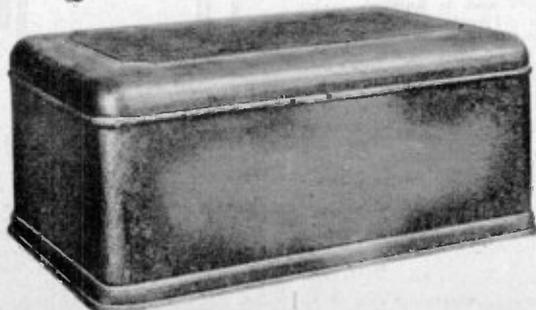


The Little Princess

The "Little Princess" is an outstanding example of beautiful cabinet work. Made of Genuine American Walnut plywood it is sure to give long, lasting satisfaction. Tall and graceful in appearance, it is an exquisite piece of occasional furniture as well as a fitting support for the table style of receiving set. Exactly proportioned, it will look exceedingly well in the smaller apartment or small home where there is too little room for a large console. The elaborate grille conceals an 86-inch exponential type air column of scientific construction. The scroll work at the bottom of the grille, the fluted pilasters at the sides, combined with the beautiful finish of the cabinet, all go to make this speaker table a thing of rare beauty. Large enough to accommodate the smaller size table receivers, it can also be used in the decorative scheme of the home for placing a vase or books. The outside dimensions are: 18 inches deep by 26 1/2 inches wide by 33 1/2 inches high. The dimensions of the speaker compartment are: 15 inches deep by 24 1/2 inches wide by 33 inches high.

3R11863
List Price \$55.00

Net Price Each **\$26.00**



Radio Art Metal Cabinet In Modernistic Colors

Cabinet made of pressed steel. Designed especially for new AC sets. Also ideally suited for use with battery operated sets. Close fitting cover easily removed. Ventilating louvers effectively dissipate heat from rectifying unit. Flat finish inside. Beautiful crackled finish outside in glistening silken effect. Four cushions on bottom to prevent scratching. Inside height, 9 inches. Width, 19 inches. Depth, 12 inches. Shipping weight 15 pounds. Order color wanted by article number.

3R11595 Walnut Brown
3R11596 Chinese Red
3R11597 Nile Green
3R11598 Old Ivory

\$4.80
Net
List \$9.00

All Prices Quoted Are Net—There Are No Further Discounts

Our Big Special Radio Table



Unrivaled Beauty!

Never before has the power of Barawik's tremendous purchases been more effective. Only by ordering in huge quantity have we been able to quote such a low price on this Leader. A beautiful table that will be the joy of every owner. A brand new style, latest design radio table made to our exact specifications. Embodies beauty and usefulness. Graceful and cheerful in appearance. This is an outstanding example of the better class of cabinet making. The finely turned legs are securely braced with a turned cross stretcher. The delicate flower design on the speaker grille adds a touch of life that is very appropriate.

Unequaled Value!

The demand for radio tables is greater now than ever. Cash in on this tremendous value. There is a good margin of profit for you. What is more, you have something very new and very attractive to offer. Nowhere else will you find so much for your money. This style of table is especially suitable for all types of AC cabinet receiving sets. You can get the table in any color listed, to match the cabinet. The two together form an attractive, complete unit at a very low cost. We have cut down our margin of profit on this table just to make it a big feature for you. We have co-operated with the manufacturer so that you would have a high quality table to offer at a low price. Take advantage of this remarkable offer and start right now selling these most attractive tables.

Choice of 4 Beautiful Colors

You have your choice of four beautiful colors: Nile Green, Chinese Red, Old Ivory and American Walnut. The first three colors have a smooth smoked finish in two-tone effect. This finish brings out the beauty of the colorings to the utmost. The Walnut is dull rubbed and polished to a beautiful,

lasting finish. Dimensions: Height 30 in. Width 25 1/2 in. Depth 17 in. Shipped carefully crated for your protection. Specify color wanted by article number.

Choose the Style of Speaker You Like

Although you can get this table without speaker, we have found that most of our dealers prefer ordering it with the speaker built in. In that way, they make a bigger sale, and more profit. You can have your choice of either the Magnetic Cone Speaker or the Dynamic Power Speaker. Both are recognized as leaders in the field. They are both known for their remarkable tone quality, and their faithfulness in reproducing the deep basses, the overtones, the high sopranos, and all other entertainment with astounding, life-like accuracy. Some people prefer the Dynamic because it is capable of greater volume without distortion. These speakers are described in detail on pages 65 and 66 of this catalogue.

Table Only	Table with Magnetic Speaker	Table with A. C. Dynamic Speaker
List \$20.00	List, \$35.00	List, \$65.00
Net \$10.45	Net \$17.50	Net \$32.15
3F11575 Walnut	3F11579	3F11583
3F11576 Chinese Red	3F11580	3F11584
3F11577 Nile Green	3F11581	3F11585
3F11578 Old Ivory	3F11582	3F11586
Ship. wt., 56 lbs.	Ship. wt., 62 lbs.	Ship. wt., 96 lbs.

Our Special Dynamic Speaker Table



A Very Artistic Cabinet

Our Special Dynamic Speaker Table is perhaps one of the finest radio speaker tables made today. The artistic turned legs are gracefully proportioned and although they are not braced by a cross stretcher, they possess considerable strength. This beautiful cabinet is made of 5-Ply Walnut finish and is finished in an antique dark walnut. Its size of 30 inches high, 24 inches wide, and 16 inches deep permits one to place any table model radio set upon it.

Supplied With Either Magnetic or Dynamic Power Speaker

3F11675 Dynamic Speaker Table as shown without speaker.	List \$20.00	Net \$11.35
3F11676 Same as above but with Magnetic Cone Speaker.	List \$40.00	Net \$18.50
3F11677 Same as above but equipped with Marvelo 110 Volt A. C. Dynamic Power Speaker.	List \$75.00	Net \$36.85
3F11678 Equipped with Marvelo 6 Volt D. C. Dynamic Speaker.	List \$60.00	Net \$33.10



Colonial Radio Table

An attractive table designed on the popular Colonial style. Solidly made, it is equally suitable for AC or DC sets. The lower shelf can either be used for the speaker or for the batteries or power units. Has a fine dull walnut finish that harmonizes well with any interior. Dimensions: Height 33 in. Width 36 in. Depth 16 in. Ship. wt. 20 lbs.

3F11375
List Price \$15.00. Net Each **\$6.95**

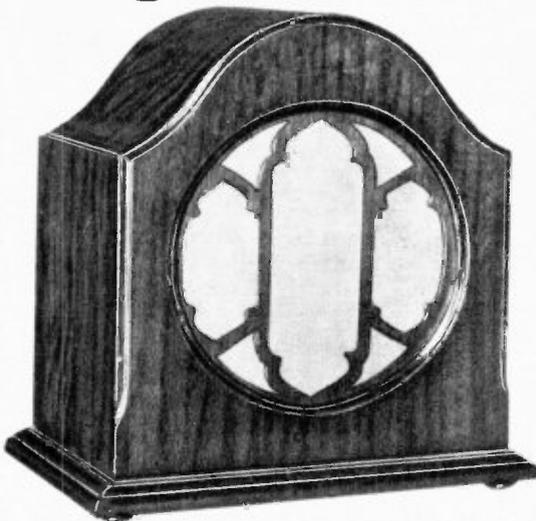
Marvelo Magnetic Cone Speakers

Greatest Speaker Value!

When we set out to have this special Marvelo Speaker built to our specifications, we made exhaustive tests of practically every magnetic unit and speaker on the market. You benefit from the results of many months of research in this speaker. It combines every quality required for today's advanced radio sets. Our combined quantity production permits us to price this speaker very low so as to give you an unsurpassed resale value.

2F5367 Marvelo Magnetic Speaker. Beautiful two-tone walnut finish. Fully 12 in. high. A wonderful value. Ship. wt. 16 lbs. List \$35.00

\$13⁹⁵
Net



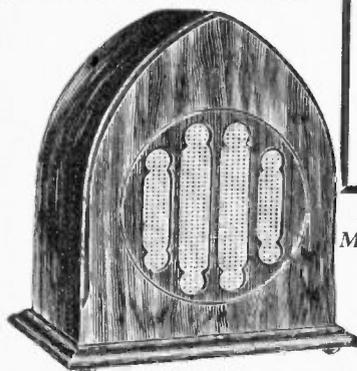
Has Beautiful Tone Quality

Balanced Armature Unit

The cone reproducer, of unlimited tonal capacity and volume acceptance, is unusually compact and efficient, built especially for use with sets in either consoles or table cabinets. It gives you the full roundness and clarity in every range, holding to the true values throughout the entire wave band, and setting a standard of quality reproduction that must be heard to be fully appreciated.

Marvelous Tone Quality!

On hearing this speaker you will instantly proclaim it well worth \$35.00 at retail. The magnetic unit we use is one of the finest products of acoustic engineering skill. Its even balancing renders it equally sensitive to all frequencies in both high and low range. Full auditorium volume does not overload it nor distort its richness of tone.



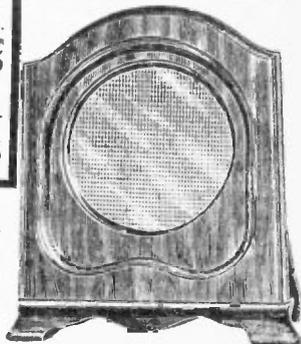
Marvelo Gothic Magnetic Speaker

Equipped with the special Marvelo magnetic unit, this is the outstanding speaker value of the season. The exterior housing is true Gothic, of our own exclusive design. It is finished in rich two-tone walnut, 12 inches high. Its performance, both in tone quality and volume will equal any make of magnetic speakers on the market. Ship. wt. 15 lbs.

\$10⁹⁵
Net
2R5370 List \$27.50

Marvelo Magnetic Chassis
Heavy balanced armature type. Compact and true tone. Measures 8 3/4 by 6 inches.
2R5368 List \$15.00 Net Price **\$6.75**

Marvelo Box Chassis
Same as above, in fine, wood sounding chamber. 9 1/4 x 9 1/4 x 6 1/2 in.
2R5369 List \$18.00 Net **\$8.75**



Marvelo Easel Magnetic Speaker

This finely finished portrait frame model is one of the most attractive decorative panel speakers we have seen. Its two-tone walnut finish and rich silk screen make it a piece worthy of a place in any room. The heavy built-in Marvelo Magnetic Speaker Unit utilizes to the fullest extent the natural sounding-board quality of the wood frame, 12 inches high. Ship. wt. 12 lbs.
2R5371 List \$25.00

\$12⁹⁵
Net

Peerless Magnetic and Dynamic Speakers



Peerless Dynamic and Magnetic Speakers have new improved construction, with widest range of impulse reception and superlative tone quality. Dynamic and magnetic cabinets are true Gothic models, in beautiful two-tone walnut finish. The chassis of both types are of the unusually efficient famous Peerless construction.

2R5381 Dynamic Cabinet Speaker for use with sets using Power Supply or A and B eliminators operating on 60 cycle, 110 volt A. C. light socket current. Ship. wt., 24 lbs. List \$75.00 Net **\$44.10**

2R5382 Dynamic Chassis Unit only, without cabinet. Weight, 18 lbs. List \$60.00 Net **\$35.28**

2R5383 Magnetic Cabinet Speaker. List \$35.00 Net **\$20.58**

2R5384 Magnetic Chassis Unit only, without cabinet. Weight, 6 lbs. List \$20.00 Net **\$11.76**



Magnavox Dynamics

Magnavox Dynamic Power Speakers provide natural and enjoyable music and speech with amazing accuracy and feeling. They take all the volume any set can give, without the slightest distortion. Holds all the audible frequencies, from the highest to the lowest.

Dynamic Chassis

Magnavox Dynamic Power Unit, with its wonderful tone quality and power. Ship. wt. 16 lbs.

2R5375 6-V DC. List \$35.00 Net \$20.58

2R5376 110-V. DC. List \$40.00 Net \$23.52

2R5377 110-V. AC. List \$50.00 Net \$29.40



Beverly Dynamic

Two-tone brushed walnut table type speaker complete with cords and plug. 12 1/2 in. high, 18 in. wide, 9 in. deep. Wt. 15 lbs.

2R5378 6-V. DC. List \$55.00 Net \$32.34

2R5379 110DC. List \$60.00 Net \$35.28

2R5380 110AC. List \$70.00 Net \$41.16

We Pay Freight As Per Offer Given on Page 260

Choose Marvelo Dynamic Speakers for Tone

Don't Miss This Profit Maker!

Dynamic speakers, along with the amazing development of electrified radio, are the big outstanding features of this season. For the millions of electrically operated sets that will be sold, no other speaker will perform so well. But greater still is the market to people who already own a set and have determined to make it a socket-power receiver. When a set owner goes to the expense of making this change, he is not going to be satisfied with his old type of speaker. He wants one that will keep pace with the improved tone quality, distance and volume this change can give and nothing but a Dynamic will do.

The New Type Speaker Everybody Wants!

The Dynamic principle of sound reproduction has completely revolutionized the public's ideas of what a speaker should be. It is so far ahead of any other type that there is no way to make a comparison.

Best of all, the Dynamic speaker will give more efficient reproduction over a wider range of musical sounds. And it will so faithfully catch the delicate overtones that it makes any lesser speaker sound dull and flat.

It gives you ALL the music; ALL there is in the original production—the boom-boom of the bass horns; the low throbbing zum-zum of the viola and cellos; and it will give you these in any degree you prefer, from the merest whisper to the crashing crescendos of the drum and brass.

Dynamic reproduced music is TRUE music. That is why it has taken hold so powerfully; that is why nothing else will do. That is why you have a brand new, broad field to sell to—practically everybody who has a radio.

Perfects the Best; Improves the Rest

A Dynamic speaker is the only kind that will match the flawless reproduction of the highest grade receivers. It is the final touch that makes a good set perfect. And for an old set, it is the greatest improvement that can be made, for it gives the set owner a new pleasure—thrill, accomplished in no other way.

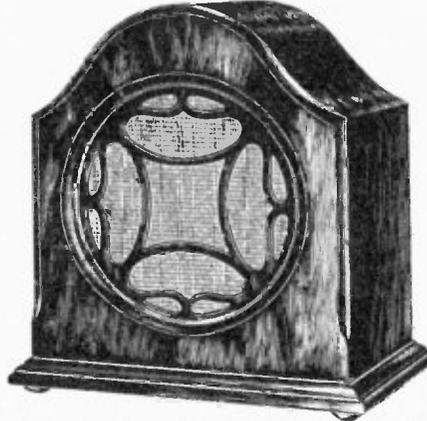
Beautiful Art Model Cabinet

The Marvelo Dynamic Speaker is housed in a cabinet of exquisite eye-appeal. Its rich dignified lines match it with the finest furniture. 11 inches high. Finished in artistically blended two-tone walnut.

Amazing Volume!

"Amazing" is the only word which truly describes the volume these Marvelo Dynamic speakers will give you. And it is volume of the purest type; no blare and blasting; no harshness or shrillness. From the softest hushing whisper to the full auditorium volume, each step in the scale is as clear and round as at center pitch.

This is due to the powerful, heavy duty power chassis employed, a chassis which will take the greatest load without shattering.



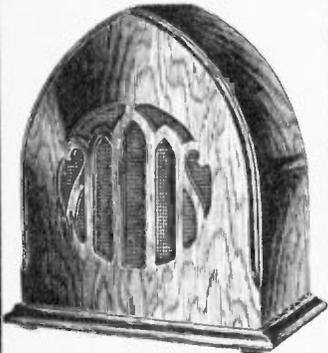
CATHEDRAL MODEL
Super Value!
Marvelo Dynamic Speakers
\$28.75

PRICE LIST

Complete as illustrated with Pure Tone Dynamic chassis and connecting cord.

- | | |
|---|--------------------------------------|
| 2R5066 —For use with 6 volt storage battery operated sets. | List, \$50.00.
Net \$28.75 |
| 2R5065 —For use with sets using A and B 110 volt 60 cycle Power Supply or A and B Eliminators, but not specially designed for use with dynamic speakers. Has transformer and rectifier unit. Popularly known as the AC type. | List, \$70.00.
Net \$32.50 |
| 2R5064 —For direct connection to 110 volt 60 cycle AC operated sets, especially designed for use with dynamic speakers. | List, \$60.00.
Net \$30.50 |

THIS IS A DYNAMIC YEAR!

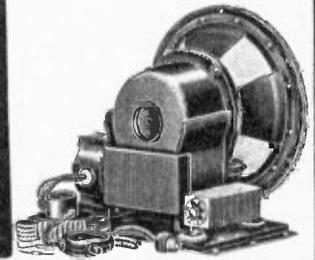


Marvelo Gothic Dynamic

In this Dynamic Speaker is combined the finest craftsmanship in cabinet design, with the unequalled quality and power of the Marvelo Dynamic Power Chassis. In outward beauty it is of distinguished, classical appearance. The rich Gothic design is a faithful reproduction of Gothic architecture and the finish is deep two-tone walnut. The cabinet houses the marvelous new Marvelo Power Chassis, with its amazingly pure tone and infinite volume. 12 inches high. A piece that will be a graceful addition to the furnishings of any home. The Marvelo Dynamic Power Chassis is designed to give complete tonal range and musical fidelity of the highest order. It will take tremendous volume; will not overload, and requires no adjustments. Chassis weighs 16 lbs.

- | | |
|---|-------------------------------------|
| 2R5067 —For direct connection to 110 volt 60 cycle AC operated sets designed for use with dynamic speakers. | List, \$42.50
Net \$23.75 |
| 2R5068 —For use with sets using A and B 110 volt 60 cycle Power Supply or A and B Eliminators, but not specially designed for use with dynamic speakers. Has transformer and rectifier unit. Popularly known as the AC type. | List, \$62.50
Net \$27.50 |
| 2R5069 —For use with 6 volt storage battery operated sets. | List, \$52.50
Net \$25.50 |

NOTE: All standard sets, such as Atwater-Kent, Crosley, Kolster, Radiola, etc., require 2R5068 Speaker.



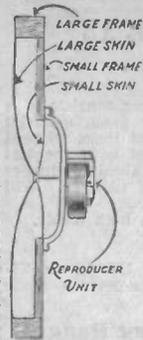
Dynamic Power Chassis

No speaker can be better than the power unit from which it operates. That is why we have paid so much attention to making sure of this important point in building Marvelo Dynamics. With this new Dynamic Power Unit, you have one of the highest efficiency; one that covers the full range of musical sounds with equal facility at every stage. It is built especially for radio set-builders, dealers and distributors. Its compact size, 9x3x7, permits its use in any cabinet or console. Its remarkable capacity for reproduction will be a great asset to you in making sales. Our price makes it doubly attractive. Shipping weight, 9 pounds.

Chassis Only

- | |
|---|
| 2R5048 —For direct connection to 110 volt, 60 cycle AC operated sets designed for use with dynamic speakers. List, \$35.00. Net \$17.95 |
| 2R5094 —For use with sets using A and B 110 volt 60 cycle Power Supply or A and B Eliminators, but not specially designed for use with dynamic speakers. Has transformer and rectifier unit. Popularly known as the AC type. List, \$55.00. Net \$21.70 |
| 2R5095 —For use with 6 volt storage battery operated sets. List, \$45.00. Net \$19.70 |

Temple's Newest Air Chrome Speaker



New Principle of Reproduction

A new perfection in radio reproduction. Instant response to all notes on all instruments. Designed on a new principle, this speaker performs so accurately that it closely approaches perfection.

Uniform Response from 50 to 10,000 Cycles

That is the amazing range of the new Temple Air Chrome Speaker. In other words, it reproduces with practically the same ease all the notes from the deepest organ to the shrill high blast of the cornet. It makes any radio set better, and the best a truly musical instrument. An entirely new product of radio engineering, at a price which makes it a wonderful re-sale item for you.

A New Type of Diaphragm

The Temple Air Chrome is of the open radiator type. A new innovation, a double diaphragm, is used, so arranged that the larger disc is tuned to the lower frequencies and the smaller responds readily to the higher. This principle makes possible a balanced response, whereby the slightest pulsation actuates the cone and is reproduced. There is no lost motion in overcoming inertia.

Special Temple Double Action Unit

A specially powerful double action unit accounts for the great handling capacity. That is why the Temple Air Chrome will not chatter, why it is suited particularly to every kind of power output, and especially why you will find it an instrument well worthy of your most serious consideration.



Model 20 Temple Air Chrome Speaker

The new Air Chrome with this famous Temple unit is used, the front half covering the lower frequencies, the rear the higher. The open radiator type, a new idea, which lifts it bodily out of the class of cone speakers. Tone is very realistic. Enclosed in a beautiful cabinet which well reflects the super-quality of the reproduction. Genuine walnut, harmonizes with the most expensive furnishings. Size 20x25 x10 inches over all. Shipping weight, 15 pounds. Packed in wooden box.

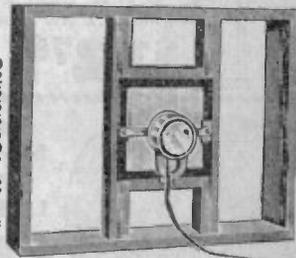


\$17.05
List, \$29.00
NET

Cat. Number	Size, Inches	Shp. Wt., Lbs.	PRICE LIST	
			List	Net
2R5078	24 x24	16	\$25.00	\$14.70
2R5079	18 x20	8 1/2	23.00	13.52
2R2080	14 x14	8	20.00	11.76
2R5072	10 x12	7 1/2	20.00	11.76
2R5073	9 x24	8 1/2	20.00	11.76
2R5070	9 1/2 x15 1/2	8	20.00	11.76
2R5071	30 x30	20	75.00	44.10

Model 50 Dynamic

Same cabinet as at left, but incorporating the new Temple Dynamic Speaker Unit. Faithful reproduction. Latest design. Finest quality. 2R4999—List, \$49.00. Net, \$28.82



ACOUSTICONE AERO CONE SPEAKERS

Decorative Hand Painted Models

Acousticone has gone a step farther in making highly decorative and ornamental speakers. Here are two distinctive designs. Mounted on sturdy easel stands. The woodwork is the popular crackle finish. The actuated diaphragm is genuine airplane cloth, hand painted, highly colored, producing effects that are bound to be tremendously popular. Ship. wt., 6 lbs.



Japanese Model

2R5092—List, \$25.00
Each, Net, \$12.85

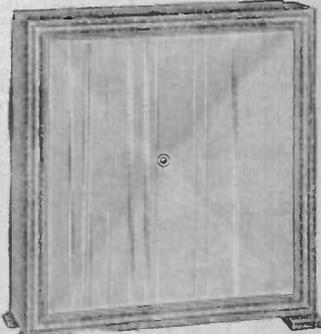
The rich black and white effects so well brought out in Japanese art are used here to full advantage, with just enough color to give it the contrast needed. Size, 18x24 inches.



Dancers Model

CHOICE
\$12.85
NET
2R5090—List, \$25.00 each. Net, \$12.85

A highly colored modern art treatment of a popular decoration. Genuine hand painted airplane cloth diaphragm. Beautiful octagon shape. Large frame; full capacity. Width 21 inches.



Silver Screen Model

A double drum, consisting of two diaphragms with their exact centers drawn together. One of the few speakers made that will reproduce 30 to 8,000 cycles with true fidelity and power without blasting, rattling or distortion.

Can be completely assembled in a few minutes. Made very simple and accurate. About 6 inches deep. Entirely finished in silver tone.
2R5087—List, \$20.00. Net, \$9.00
2R5088—List, \$18.00. Net, \$7.85

Materials for Airplane Cloth Speaker

Make your own airplane cloth speaker—these materials and complete instructions assure satisfactory results.

Speaker Units

A powerful unit with wide frequency range. Shipping weight, 3 pounds.

2R5076—List, \$6.00. Each, Net, \$2.95
2R5074—Famous Temple Unit. List, \$10.00. Net, \$5.88

Apex Tips

For binding the cone apex and for adjustment. Shipping weight, 1 ounce.

2R5077—List, 15c each. Net, 10c



Liquitone Cone Covering

Makes the cloth sensitive and regulates the depth of pitch. Ship. wt., 1 lb.

2R5083—8 oz. can. List, 38c
75c. Net, Each

Airplane Cloth

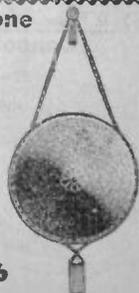
For making diaphragms. High grade cloth, genuine airplane texture. Square yard lengths.

2R5085—Mercerized. List, 75c
\$1.25 yard. Net

G. R. P. Fabricone

The G. R. P. Fabricone is something entirely new in speaker design and principle. Will reproduce from the lowest to the highest frequencies. It is very easy to assemble. All necessary parts and full instructions are included. Output includes Liquitone to regulate tone. Send for a G. R. P. Fabricone today. It will show you the way to new radio results and larger profits.

2R5075
List, \$11.50
Net, Each, \$6.76
Ship. wt., 3 lbs.

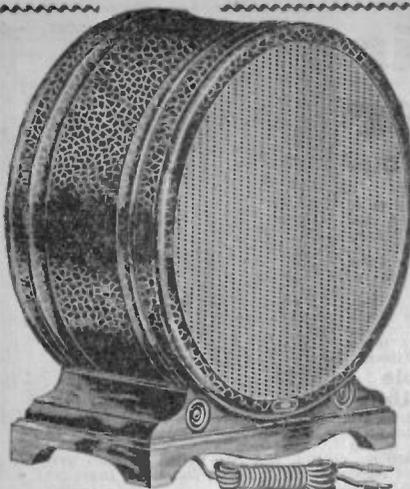


All Prices Quoted Are Net—There Are No Further Discounts

Temple Speakers

EXPONENTIAL MODEL NO. 13

AIR COLUMN SPEAKER



2R5226—Model 13. Height, 16 inches. Width, 14 1/2 inches. Depth, 10 inches.

Retail Selling Price, \$22.50. **\$12.78** Your Net Price

A speaker of distinctly different design. The tone chamber consists of a 54-inch exponential air column. Moulded of heavy, close grain material which is absolutely vibrationless, therefore insuring original tones without undesirable overtones, and free from distortion. Equipped with the improved Temple double action unit which reproduces with absolute fidelity of tone and probably more volume than any other unit of its type. Will not chatter, even with the strongest volume.

Faultless tone. Amplifies all notes from deepest bass to high treble.

54 Inch Air Column

The reason for the superior performance of this speaker lies in the 54-inch air column, correctly designed to take advantage of correct acoustic principles. The emitted sounds are pure and sweet.

The Price is Very Low

By special arrangement with the factory we are able to offer this speaker at a price that will show you extra profit. Worth its full retail price and, because of its outstanding performance during the past season, should be a big seller this year. Shipping weight, 30 pounds.

All Frequency Range

Due to the fact that this speaker is absolutely free from inherent vibration, all notes from deep bass to high treble are reproduced perfectly. Reproduction is equally realistic at all points on the musical scale.



Temple Model 15
2 R 5227
LIST \$29.00

\$17.05 Net

Wholesale

New in performance, realistic in tone, with volume

to spare. Of refined beauty—smaller in size, lighter in weight, 60-inch air column. Responds to all frequencies from lowest bass to high treble. Encased in genuine walnut with sides of same color in beautiful grained leather effect. 11 1/2 inches wide, 12 1/2 inches high, 8 1/2 inches deep. Net weight, 12 1/2 lbs. Shipping weight, 19 1/2 lbs. **2R5227—List, \$29.00. Net \$17.05**



Temple Model 11

Improved model, which incorporates the features of Model 13 shown above, but is much lighter in weight, 54-inch exponential air column. Temple speaker unit—exceptional volume. Size 12 1/2 x 11 1/2 x 8 1/2 inches. Net weight, 12 1/2 lbs. Shipping weight, 19 lbs.

2R5243—List, \$22.00. Net \$13.23

Temple Tone Chambers

New Model Temple air column tone chambers without cases. For installation in consoles, etc. Combine great rigidity with entire freedom from inherent vibration. Lighter in weight. Scientifically designed air column. No unit included.



2R5204—Model 150—60-inch air column. Size 11 1/2 by 7 1/2 inches. Shipping weight, 10 pounds. List, \$14.00. Net \$8.23

2R5205—Model 150—75-inch air column. Size 13 by 11 1/2 inches. Shipping weight, 48 pounds. List, \$24.00. Net \$14.11

Ansonia Cone

The Magnetic Speaker with the Dynamic Tone Gothic Model

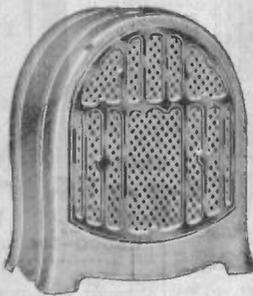


Equipped with a newly developed Electro-Magnetic Unit, with every modern engineering feature, as described below. Enclosed in a handsome burl walnut cabinet of the Gothic design. Outstanding in appearance as well as tone quality. The musical notes are reproduced with full value for the overtones, harmonics and fine shadings. Vocal reproduction is exceptionally pleasing, due to the extremely fine definition and complete absence of barrel effects. An unusually fine magnetic speaker. Shipping weight, 11 lbs.

2R5228—Gothic Model. List Price, \$29.50. Net \$15.60

Operadio Air Column Speakers

Exponential Air Bico type. Cast out of the new material Vulcanite. Solid, inert, vibrationless material with remarkable acoustic values. New improved unit, giving added volume with true reproduction of all tones.



The Westminster

The newest and finest in air column speakers. A leading producer that embodies all that is new and beautiful in loud speaker design. The Westminster may be connected to any set and, in addition, is capable of handling the output of any standard amplifying system up to and including the 171-tube (17) push-pull excepted. Exquisitely finished in the ultramodern tripod, 61-inch air column, 15 1/2 inches high. Shipping weight, 8 pounds.

2R5233—List Price, \$35.00. Net \$20.58

Ansonia Square Type

This beautiful speaker contains the same cone unit as described below. The unit is mounted in a square cabinet 10 1/2 inches high, 11 1/2 inches wide and 6 inches deep. Cabinet is of mahogany with inlay border. Tone chamber is covered with acid colored silk. Marches H.C.A. No. 18 Steiple, Mohawk and many similar sets. Shipping weight, 11 lbs.

2R5229—List, \$25.50. Net \$15.60



Console Cone Unit

For installation in cabinets where suitable baffle board is provided to give best results. The unit is of the balanced armature type and is magnetically and mechanically centered in such a way that it is impossible to rattle even on tremendous volume. Dust-proof cover on the motor protects it from dirt and dust, thereby assuring better action at all times. Has an extra large magnet which insures very long life. So constructed that it reproduces the extreme high and low notes with unusual fidelity. Complete with cone, cord and baffle box, ready for installation. Will handle output of either 171 or 310 push-pull amplifiers. Shipping weight, 6 lbs.

2R5230—List, \$16.00. Net \$8.47



The New Senior

Last year's most popular model improved in performance and design. Operates on sets up to 7 tubes. Is very sensitive to weak signals. Capable of a great volume with perfect acoustic properties. 54-inch air column, 12 inches high. Shipping weight, 10 lbs.

2R5231—List, \$25.00. Net \$14.70

Junior Model

A very compact and efficient speaker. Has exponential air column of 30 inches in length. Will handle output of sets up to and including 6 tubes. Total height of 7 inches. Finished in two colors. Shipping weight, 7 lbs.

2R5232—List, \$15.00. Net \$8.82



Popular Exponential Air Column Horns

RACON Air Column Speaker Horns Are Superior



**EXPONENTIAL AIR COLUMN
66 INCH, SUPER QUALITY**

New Air Column Drum Speaker

A radical departure from the usual drum speaker, here is one light enough for a child to carry, but still retaining the features that make a drum so desirable. The Racon contains an exponential air column having the newest acoustical ideas. Made of fabric, impregnated and hardened till it is as substantial as any of the heavier ones. Being a fabric, it has no period of vibration of its own, being free to vibrate in unison with the impressed sound. Perfect tone quality is the result. Not affected by climate, heat or moisture. Will withstand all ordinary abuse without damage. Mounted in a metal shell with a fine mesh facing, cloth covered. Shell is enameled in brown crackle finish. Base is walnut finish, with rubber feet. Diameter 11 1/2 inches, depth 11 inches. Air column 66 inches. Shipping wt., 7 pounds.

2R5058—List \$19.50. Net

\$11.47

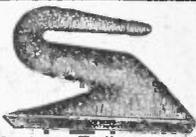


Racon Chassis Models

Snail Shell Type with flat bottom. No unit included. Air column is 120 inches. Bell 18x13 inches diameter. 13 inches deep. Very light construction. Ready to mount in console. Ship. wt., 10 pounds. 2R5059—List, \$18.00. Net **\$10.60**

A smaller model to mount in consoles with speaker compartment at the top. Air column 45 inches. Bell 6 1/2 x 20 inches. Depth 12 1/2 inches. No unit furnished. Straight line exponential chamber insures the best reproduction. Easily mounted. Ship. wt., 5 lbs.

2R5060—List, \$5.00. Net **\$2.94**



Console Symphonic

Designed especially for console cabinets. Vastly superior to ordinary manufacturers' wooden horn. 2R5196—Air column, 60 in. Bell, 6x15 in. Depth, 10 1/2 in. Each **\$5.50** 2R5197—Air column, 60 in. Bell, 10x20 in. Depth, 13 1/2 in. Each **\$6.75**



Compact Ortho-Type

While very compact it has long air column. Gives astonishing volume with excellent tone quality. Air column, 48 inches. Bell, 10 in. round. Depth, 8 inches. 2R5063—List, \$3.95

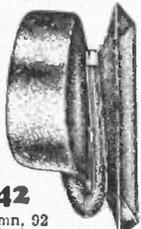


Giant Orthophonic

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

3R5193—Air column, 104 inches. Bell, 18x24 inches. Depth, 13 1/2 inches. Each **\$9.42**

3R5194—Air column, 92 inches. Bell, 18x18 inches. Depth, 13 1/2 inches. Each **\$7.80**



Superphonic

Designed to give tonal reproduction qualities of the new "orthophonic" type. Used either with a radio set or phonograph and reproduces faithfully entire audible scale of tones with rare sweetness and clarity.

3R5061—72-inch air column. Each **\$5.50**

12 in. round, 9 in. deep. Each **\$5.50**

3R5062—84-inch air column. 14 in. round, 10 in. deep. Each **\$6.45**

3R5063—66-inch air column. 11 in. diam., 7 in. deep. List, \$8.00. Net. **\$4.50**

The Latest Newcomb-Hawley Horns for Mounting in Consoles

Exponential type air column speaker horns. Their splendid tone quality, faithfulness of reproduction, and ability to handle all wave frequencies have won for them a highly prized reputation for excellent radio reception. The tone chambers are trumpet shape, whose diameter increases in direct proportion to the expansion of the sound waves, insuring full value of the reproduction from the softest and lowest to the highest and loudest tone. Any sound which can be reproduced electrically will be amplified by these sound chambers exactly as created.

The bell or horn of the speaker is molded of a special non-resonant composition. These horns are so shaped that they will occupy the least amount of space without impairing their efficiency. There is a Newcomb-Hawley to fit almost any console or cabinet. May be drilled for mounting without interfering in any way with their effectiveness. Does not chip nor crack. Threaded to accommodate standard thread speaker units. Painted a chocolate brown color.

Mount in Your Console

Unmounted horns, ready to be slipped into your console or orthophonic phonograph. May be fastened in place quickly and easily. Very rugged and easily stand ordinary handling. Will not vibrate perceptibly. Speaker unit not included.

2R5050—Console Grand, for use in the larger consoles and phonographs. Tremendous amplification. Bell area 520 square inches. Height 24 inches, width 19 inches, depth 12 3/4 inches. Air column 86 inches. Price includes Nathaniel Baldwin Unit. Other prices do not include units. Shipping weight, **\$14.70** 25 lbs. List, \$25.00. Net

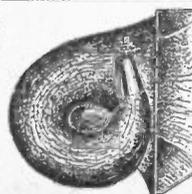
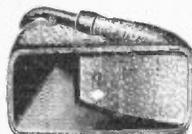
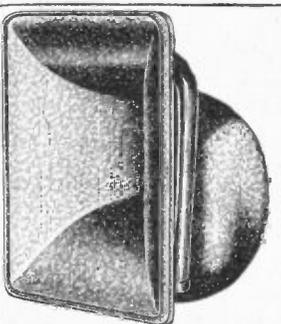
2R5051—Console Grand Junior. For use in a smaller compartment. Bell area 312 square inches. Height 19 1/2 inches, width 17 inches, depth 12 1/4 inches. Air column 74 inches. 22 lbs. List, \$15.00. Net. **\$7.95**

2R5052—Cabinet Horn Type CR-2. Bell area 250 square inches. Height 12 1/2 inches, width 21 1/4 inches, depth 13 inches. Air column 53 inches. Ship. wt., 18 lbs. List, \$12.00. Net **\$6.70**

2R5053—Cabinet Horn Type F-2. Bell area 156 square inches. Maximum height 8 1/4 inches. Bell height 7 1/2 inches, width 23 1/4 inches, depth 11 1/2 inches. Air column 45 inches. Ship. wt., 12 lbs. List, \$10.00. Net **\$4.65**

2R5054—Cabinet Horn Type P-10. For mounting in console with speaker compartment at top. Bell area 83 square inches. Height 8 1/2 inches, width 15 1/2 inches, depth 10 1/2 inches. Air column 32 1/2 inches. Ship. wt., 20 lbs. List, \$7.00. Net **\$3.30**

2R5055—Snail Shell Type. Bell area 80 square inches. Height 7 1/2 inches, width 11 inches, depth 8 inches. Air column 25 inches. Shipping weight, 3 pounds. List, \$6.50. Net **\$3.00**



Newcomb-Hawley Drum Speaker

Contains special tone chamber described below and designed for speakers of this type. For use with cabinet type receivers, or where a complete console is not desirable. 56-inch tone chamber. Metal case finished in rich bronze, with a facing screen of the same color. Height 15 inches, width 15 inches, depth 8 inches. Complete with unit and cord. Will operate on any receiver of three tubes and over. Weather-proof. Fine for outdoor use. Ship. wt., 25 lbs.

2R5056—List, \$25.00. Net **\$14.70**

Drum Type Horn

The new, compact, exponential air column designed by Newcomb-Hawley either for making their popular drum speaker or installing in a cabinet where space is limited. Has 56-inch tone chamber. Size, overall, 13x18x8 inches. Threaded to fit any standard speaker unit. Ship. wt., 20 lbs.

2R5057—List, \$9.00. Net **\$4.68**



We Pay Freight As Per Offer Given on Page 260

MUTER DEPENDABLE DYNAMIC

The Dynamic Speaker in spite of its great power is no larger or more cumbersome than other types of speakers. All working parts of the Muter are completely encased which protects the delicate mechanism from dust or accidental injury.

A Dynamic speaker will bring your set up to date and improve its tone quality far beyond your expectations.

The Muter Table Model illustrated at the left is of solid Walnut and is a pleasing design which will harmonize with any setting.

- | | |
|---|----------------|
| 3R5300—With type 4306 Chassis. List, \$49.50. | \$29.10 |
| Net..... | |
| 3R5301—With type 4390 Chassis. List, \$53.00. | \$31.16 |
| Net..... | |
| 3R5302—With type 4310 Chassis. List, \$59.50. | \$34.99 |
| Net..... | |

Muter Dynamic Chassis

These are sold for use as new or replacement speakers in console receivers, adaptable to any cabinet 12 inches wide, 11 inches high, and 9 inches deep or larger.

Type 4310, for use with 110 Volt AC. Equipped with Westinghouse Rectox rectifier unit and special stepdown transformer. Provided with 8 ft. lamp cord and switch.

3R5367 List \$39.50 Net **\$23.23**

Type 4306, for use with 6 to 12 volt DC battery or heavy duty trickle charger

3R5368 List \$29.50 Net **\$17.35**

Type 4390 for use with 90 to 135 volt DC "B" Eliminators, Power Packs, etc.

3R5369 List \$33.00 Net **\$19.40**

Spinet Console Speaker

For those who consider the usual speaker separate from the set unsightly, this console type Muter Dynamic should particularly appeal.

It is a complete piece of furniture in itself, built of solid walnut, designed to occupy a minimum of floor space and to harmonize with the finest surroundings.

Complete with the dependable Muter Dynamic unit, it makes a welcome addition to any home, combining improved tone quality, greater potential volume and attractive pleasing appearance.

3R5370—With Type 4306 Chassis. List, \$84.50.

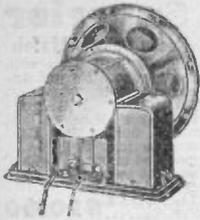
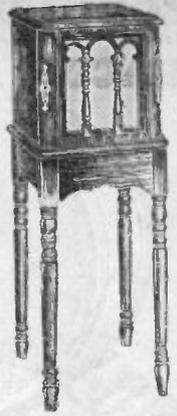
Net..... **\$32.05**

3R5371—With Type 4300 Chassis. List, \$58.00.

Net..... **34.10**

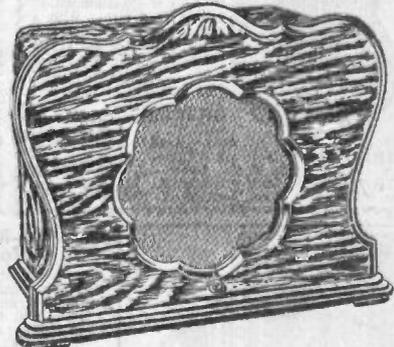
3R5372—With Type 4310 Chassis. List, \$74.50.

Net..... **43.80**



OXFORD DYNAMIC SPEAKERS

The Oxford Dynamic Speaker has a clarity of reproduction which is a revelation in fine music. Each instrument in an orchestra is faithfully portrayed, from the highest flute note to the lowest bass. The human voice is at its best on an Oxford Dynamic reproducer—clear, distinct with the exact human quality. Although the bass notes are developed to the greatest extent in this speaker, they are under control. This speaker, gives each range its proper emphasis, without distortion on any range. The Oxford is noted among Dynamic Speakers for its clarity of tone, fullness and richness of the bass notes and true reproduction of the highest notes. Unusual volume on both local and distant signals.



This speaker with the wonderful Oxford Dynamic speaker model 23, is a beautifully finished piece of workmanship, a fit companion to the best of radios. It will harmonize with the furnishings of the most expensive home.

3R5120 For 110 V AC. List, \$65.00. Net..... **\$38.22**

OXFORD DYNAMIC CHASSIS

Model 23 illustrated, complete with rectifier and step down transformer all mounted on sub base, to operate on 110 volts AC.

3R5244 — List, \$39.50.

Net..... **\$23.23**

Model 24, to operate on 80-115 volts DC.

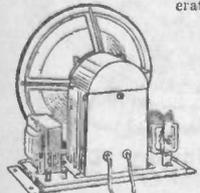
3R5245 — List, \$31.50.

Net..... **\$18.52**

Model 22, to operate on 6 volts DC.

3R5246 — List, \$29.50.

Net..... **\$17.35**



Two Range Diaphragm

This quality and completeness of reproduction is due to an exclusive Oxford principle, two range diaphragm consisting of a small conical part for the highest notes, and a flat outer ring for the lowest bass notes.

The Oxford also has a more powerful electro magnet although it uses no more current to actuate the unit than do other speakers. Each part is carefully designed, tested and analyzed to do its part, no matter how small a part, to make the Oxford a big step ahead of all competition.

An attractive model which will enhance your mantel piece, the top of a book case or even the radio cabinet itself. Carefully wrpught front baffle board of generous proportions. Solid walnut, ringing true, throws the sound in a powerful cone, clear to the farthest corner of the room. Entirely eliminates dead air pockets. Aperture is covered with a cloth of gold screen. Baffle box and base are California gum, walnut finish. An instrument of beauty, one you will be proud to possess. Size overall 18 inches wide, 14 inches high and 9 inches deep. Ship. wt., 18 lbs.

3R5247—For 110 volt AC. List, \$48.50. Net..... **\$28.52**

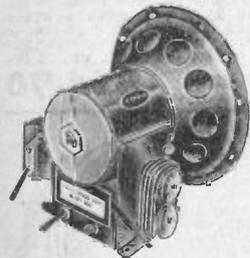
ERLA DUO-DYNAMIC CONE

A splendid speaker in which are incorporated several new features which make a bid for popular approval. The Erla is scientifically made, with all due attention paid to the minor details which while unimportant in themselves, add up rapidly and pronounce a speaker either a tremendous success or simply a speaker.

The first and most important of these improvements is a refinement in the design of the voice coil. This tiny spool of wire is accurately placed at the very apex of the cone, fitting loosely over the protruding iron core of the electromagnet. The coil is accurately matched electrically to the impedance of the input transformer so that both are in absolute resonance at all times, resulting in clearer definition of the speech and music.

The mounting of this coil deserves special mention. It is hung in a spider so that there is no side motion. At the same time there is absolute freedom of flexibility in response to the impulses generated by the speaker.

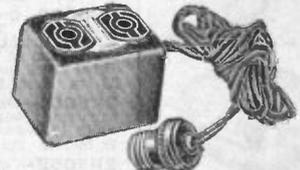
The cone is constructed of a waterproof paper which prevents any softening on humid days resulting in mushiness of tone. Entire speaker encased in steel affording ample protection against any rough handling which is liable to occur. Finished in black laquer with cadmium trimmings. Not only good to listen to, but extremely pleasing to the eye as well. Made in two models.



Shipping weight, 12 lbs each.

3R5234—To plug in 110 volt AC light socket. List, \$42.50. Net..... **\$24.99**

3R5235—For use with six volt storage battery. List, \$30.00. Net..... **\$17.64**



S. C. O. Automatic Control For Dynamic Speakers

Turns on the field current to your AC dynamic speaker automatically when you turn the switch throwing your receiver into operation. Simplifies the control and prevents all possibility of forgetting to turn off the dynamic when through with the radio. Small in size, requiring no attention when once installed. Connected in a moment, permanent, foolproof. You are always running a risk when you operate your dynamic without this protection. Do not delay. The service this little instrument will render is way out of proportion to the cost. You cannot get along without it. Ship. wt., 1 1/4 lbs.

3R725 List \$3.50 Net..... **\$2.06**

Improved Pioneer Cone Speaker

\$9.00 Retail Value Reduced to **\$3³⁵** Net

MARVELOUS TONE QUALITY

Perfect reproduction is obtained with this new Cone Speaker. The full resonating 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 tone quality.

TREMENDOUS VOLUME

To obtain volume from cone speakers a large unit with heavy magnets is absolutely necessary, and in this respect the adjustable driving unit used in this speaker has few equals.

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

REMARKABLY LOW PRICE

Our ability to buy in large quantities enables us in turn to offer you this exceptional bargain without sacrificing quality.

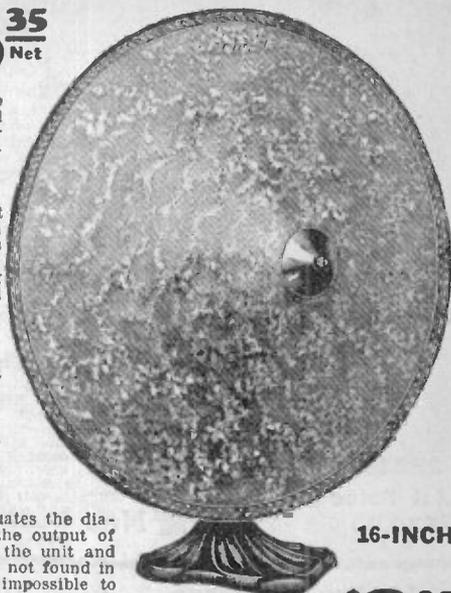
The price at which we offer the free edge cone cannot indicate its value. It must be heard to be fully appreciated. Here is a big seller. It is worth its full list price and will make big profits for you.

LARGE DIAPHRAGM CONE—POWERFUL UNIT

16 inch. A large, adjustable unit actuates the diaphragm, enabling you to match it to the output of your receiver. The method of coupling the unit and diaphragm is distinctive and is a feature not found in any other cone speaker. It is almost impossible to overload this unit. The base is metal finely finished.

A Sales Leader

Make this cone your big sales leader. It will meet and beat all competition, and show you a real profit on every sale.



16-INCH

\$3³⁵ Wholesale

2R5103

List Value \$9.00



NEW 20-INCH CONE
2R5153 Net
List \$13.50 Each **\$5⁶⁵**

Similar in construction and equal in quality to our 16-inch free edge cone speaker.

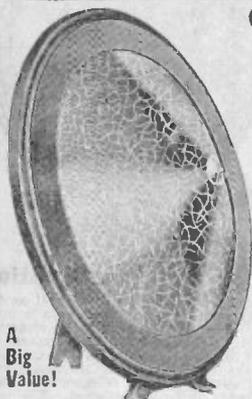
Camco Easel Cone

2R5156
List \$12.50

\$5⁹⁵ Net

Extra Large
16½ Inch
Cone

A Big Value!



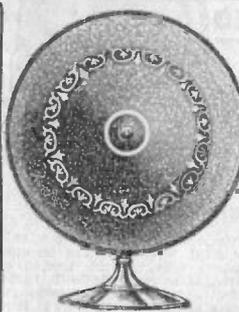
An extra large cone of beautiful alligator leatherette paper in a hand rubbed, high grade mahogany frame. Cone is 16 inches in diameter, actuated by adjustable power unit with large magnet and broad surface apex attachment. Has wide tone range from lows to highs with fine quality. A very popular type of speaker that can be conveniently placed on practically any surface or hung on wall. Shipping weight, 9 pounds.

Western Electric Cone

Produced by the world's foremost experts in sound transmission. Responsive to low bass notes as well as high treble. Mechanically and electrically perfect. Beautifully finished. Will carry the full volume of power-tube sets without the slightest distortion. Ship. wt., 10 lbs.

2R5096
List, \$35.00.

Net. Each,



Vemarc Cone Speaker

A cone specially designed to handle the increased power and volume delivered by the new types of power tubes. Fitted with impedance change switch which changes the electrical impedance of the speaker windings to exactly match either 201A or 171 power amplifier tubes. Takes the full output without coupling devices. Captures and reproduces the whole musical range with wonderful quality and fidelity.

"Masonite" Soundboard

The sweetness of tone is given by the special "Masonite" back soundboard, which protects the free edge of the cone against damage. All speakers factory tested. Guaranteed to operate correctly. Beautifully decorated and finished. An extremely large cone for the money. 20 inches high. Shipping weight, 13½ lbs.

2R5098
List, \$10.00.

\$5⁸⁸ NET

"ROYAL GOLD" DeLuxe Speaker

With Extra Long 60-Inch Exponential Air Column

A truly DeLuxe speaker. Every step in its construction was planned to make it an aristocrat among speakers. The air column unit of full 60-inch length is of the new exponential type, handling all audible frequencies, from the highest to the lowest, with an amazing realism and faithfulness. The purity and clarity of tone will give you a new appreciation of radio reproduction. It carries a big, heavy unit of the balanced armature type, capable of taking tremendous volume without danger of overloading. Finished in Beautiful "Old Gold"

The finish of this beautiful speaker is so new and distinctive that it commands instant attention. The entire instrument is finished in old gold, making a rich and harmonious unit that will blend with the finest home room furnishings. The grille is of heavy carved wood in a design of unusual beauty.

Non-Resonant Material

All the material used in making the "Royal Gold" DeLuxe Speaker is completely non-resonant, absolutely dead to vibrations or other undesirable reactions, producing only a perfect reproduction of the original broadcast—nothing else. Shipping weight, 35 pounds. Size, 15 by 14 inches.

2R5097—List, \$22.50.
Net, Each

\$12⁷⁵ NET



All Prices Quoted Are Net—There Are No Further Discounts

The New A-Z Reproducer

For Radio—For Electric Phonographs

All-Wood Sounding Board



2R5102
List Price \$30.00
\$14⁷⁰ Net

The entire construction is of wood, with the exception of the actuating unit, base and grille. The wood soundboard or diaphragm is glued to a resonating box and operates under tension. The vibration delivering element is of a spring, quivering character similar in its action to the strings of fine musical instruments. There is no paper, metal, mica or composition used in the diaphragm. Nothing but wood is used—giving the sweet, pure, reedy sound that can be obtained in no other way.

Complete Tonal Range

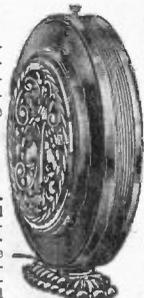
Designed on the same basic principles that have been followed for centuries in the construction of the violin, piano, mandolin, and guitar. Here is what we believe one of the most marvelous reproducers yet built. The idea back of its superior construction gives it easy leadership over any similar speaker on the market. Make any comparison you wish, tone, beauty, price.

A Thing of Beauty!

The design itself is a treat to the eye. The wood is beautiful, rich walnut. The carved stand and elaborate grilles are rare examples of the most skilled woodcraft. The reproducer is 21 inches high, 19 inches wide, and yet with all its generous size and amazing tone qualities, it is only 4 1/2 inches deep—a feature that makes this speaker a welcome addition to the furnishings of any home. Shipping weight, 10 pounds.

Great Volume—Full Range

The A-Z Reproducer has tremendous volume, and complete tonal range. Every note is clear, retaining the original fullness and roundness of all overtones. In the reproduction of voices or instruments it "individualizes" each separate voice or instrument, with all its original truthness. It accomplishes this at all frequencies, and positively will never blast or distort.



Only 4 1/2 Inches Deep

Sterling Full-Range Varitone

The New Magnetic Speaker with Compensator to Match Any Receiver



Produces full richness of overtones and suppresses those that tend to harshness. Electrical and mechanical impedances are perfectly matched. Gives a new kind of speaker reception over the whole range of audible frequencies. Equipped with tone filter compensator which increases the speaker's sensitivity at high or low range to suit every taste. Two beautifully designed models of surpassing beauty and elegant finish.

MODEL R-2

2R5112—Table Model. Metal case in two-tone bronze, with silk grille. List, \$25.00. Each, Net..

MODEL R-4

2R5124—Table Model. Brown carved walnut case, with silk grille. List, \$35.00. Each,.....

Height 11 inches. Width 11 inches. Depth 5 1/2 inches. Shipping weight, 15 pounds.

\$14⁷⁰ NET

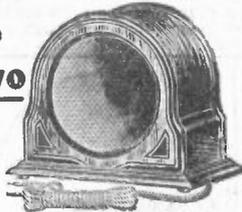
\$20⁵⁸ NET

Trimm Entertainer

2R5125
List \$25.00

\$14⁷⁰

Your Net Wholesale Price



Clock Model Cone

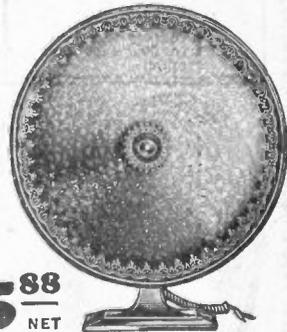
This new Trimm model is another winning number. A special feature is the improved balanced armature unit, which, though extremely sensitive, is so ruggedly built that it will give perfect service for long periods of continuous operation. The cabinet is of beautiful

Two Tone Walnut

Handsomely paneled. Has bronze mesh screen front and back.

The improved spring feature with double coil gives positive control over the air gap. Reproduces over a wide range of audibility, handling all details with remarkably true fidelity—volume with mellowness, with entire absence of blasting or distortion. Shipping weight, 15 pounds.

Trimm Concerto Speakers



\$5⁸⁸ NET

Take Maximum Amplification

Will reproduce the low notes as well as the high with greatest fidelity and with volume and richness. Built on the balanced armature principle, it is particularly well adapted for operation with semi-power and power tubes and will take the higher voltages and maximum amplification without blasting or distortion. The edge is fully protected. The unit is ruggedly built, and all parts are rust-proofed.

2R5104—Model 38 Concerto Grand. Diameter Cone, 17 inches. Shipping weight, 14 pounds. List, \$16.00. **\$9.41** Net

2R5119—Model 28 Concerto. Diameter Cone, 14 inches. Ship. wt., 11 lbs. List, \$10.00. Net **\$5.88**

TWO BIG VALUE MIDGET SPEAKERS

Na-Ald Midget Cone Speaker

A Big Selling Novelty



\$1¹⁸

Every one of your customers will want one of these little speakers. Tens of thousands have been sold in a few months. A novelty that appeals. Works surprisingly well as a speaker and gives good tone quality with fair volume. Well made. Adjustable volume. Intended only as a decorative addition to the regular speaker. Ship. wt., 2 lbs. 2R5169—Retail Price, \$2.00. Your net cost **\$1.18**

Racon Dwarf Horn



A fine small exponential horn of artistic proportion and marvelous tone quality. Made of special inert composition, eliminating vibration, and perfectly designed for maximum acoustic qualities. Height is 11 inches; base is 5 1/2 inches. Handles the full range of frequencies with round, full tone. Does not blast nor distort. Not affected by temperature. Fitted with adjustable unit for volume control. Special value at your low wholesale cost. Ship. wt., 2 lbs.

\$2⁶⁵ 2R5136 List, \$4.50 Net, Each

Stands 18 inches high; 12-inch bell of genuine Vulcanite. It out-talks speakers costing twice as much. Great volume, beautiful tone, no blasting, distortion or harsh overtones. Lifetime guarantee. Ship. wt., 8 lbs.

2R5105
List Price, \$10.00.

\$5⁸⁸ Each Net

Model 125



TRIMM Home Speaker

MAGNETIC and DYNAMIC

UTAH SPEAKERS

Model 18 Drum



ANTIQUE BROWN WALNUT

2R5137
List Price \$18.00

Your Net Wholesale Price

\$10⁵⁸
Net

The Model 18 Drum is one of the most popular speakers of the Utah line. It is used by thousands who appreciate the best radio. Equipped with the famous Utah Power Motor, it reproduces with amazing purity. Cabinet is metal mounted on ornamental wood fibre base; handsomely finished in antique brown walnut, which harmonizes with any room furnishings. Height 16 1/2 inches. Ship. wt. 8 1/2 lbs.

Model X-26 Is a Wonderful Value!

Utah quality and its reputation for excellence have always been accepted as standards of comparison. Because of its faultless reproduction, the Utah unit is famous wherever radio is known. The Utah reproduces with remarkable purity and clarity all notes in the scale, from the lowest bass to the highest treble—making radio the delightful form of entertainment it is intended to be.

Will Not Blast

It will take all frequencies without blasting or distortion, and it is extremely sensitive, catching even the weakest audible frequencies and reproducing them in good volume. The large capacity unit and perfectly balanced diaphragm will carry great amplification. It is almost impossible to overload it to the point of "barreling" or resonance.

TRUE UTAH QUALITY!

Model X-26 is true Utah quality. It is a beautifully designed loud speaker, equipped with the Utah Power Motor. This speaker will greatly add to the appearance of any radio outfit. The frame and stand are true works of art. The design is one that will hold its eye-appeal permanently. Being double-sided, it can be placed attractively in any position. The rich, deep carving is a true reproduction of finest craftsmanship. Beautiful satin finish that will harmonize with the finest furnishings. Front and back have same grille appearance. Height 10 1/2 inches, width 10 1/2 inches, depth 8 1/2 inches. Shipping weight, 9 1/2 pounds.



2R5219 \$15²⁹
List \$26.00
NET

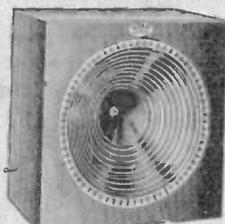
Model 1 X-30 Speaker



2R5139
List \$30.00
\$17⁶⁴
Net

Better radio is being enjoyed in thousands of homes where receivers are equipped with the Utah Model 1 X-30 speaker, with the Special Utah Power Motor that brings in the faintest audible frequencies and is tuned to require no adjustments of any kind regardless of volume or distance. A new clock type reproducer, with the Utah Motor, it always gives satisfaction. Made of genuine walnut ply wood, beautifully finished in antique brown. Front and back have the same appearance and grille with Gothic front. Height 11 1/2 inches, width 15 inches. Shipping weight, 10 pounds.

X-B Console Speaker



A FAST SELLER
2R5220
LIST \$16.00
\$9⁴¹
NET Wholesale

Built to the high Utah standard, the X-B Console Speaker has attained great popularity. Its perfect, natural reproduction of voice and instrument has won it a legion of friends. It is a convenient size for installation in most consoles. Dimensions, 8 1/2 x 9 1/2 x 5 inches. It has all the advantages of the exclusive Utah features. You'll find this model a wonderful seller. Handsomely finished in satin tone. Has new type acoustic sound spreader opening. Shipping weight, 8 pounds.

Utah X-35 Speaker

5-Ply Antique Finish Walnut
2R5221
List \$26.00



\$14²⁹
NET Wholesale

The celebrated X-35 Utah Speaker—a remarkable seller. It combines great beauty of design with amazing reproduction. The design is beautiful old Great Greece style, one that will endure in its original attractiveness. A big, powerful speaker that will handle great volume without blasting or distortion. Beautifully embossed. Height, 13 inches. Ship. wt., 11 lbs.

UTAH DYNAMIC POWER SPEAKERS

Dynola Cabinet

One of the greatest triumphs in the building of radio speakers is the UTAH DYNAMIC POWER SPEAKER. These speakers represent a perfection never before attained. Their true, faultless reproduction under all conditions marks a sensational advance. Housed in the beautiful UTAH DYNOLA CABINET, made of 5-ply walnut, with genuine Burl Walnut front finished in antique brown. Same grille and appearance both front and back. Dimension 12 1/2 x 15 1/2 x 12 1/2 inches.

Only UTAH Could Produce Such Value!



The engineering and mechanical skill of the famous UTAH organizations have nowhere been utilized to better advantage than the DYNAMIC POWER SPEAKERS—that's why they're unrivaled! Has the specially processed moisture proof corrugated cone, which guarantees true reproduction regardless of climatic or temperature conditions.

Prices of Dynamics

Utah Dynola Speaker, with Utah R-200 Power Unit, 6 to 12 volts DC for field excitation. Operates from A battery. Current consumption 3 to 1 ampere. Shipping weight, 25 pounds.

2R5207—List, \$55.00. Each, Net..... **\$32.34**
2R5254—Chassis only. List, \$30.00. Net..... **\$17.64**

Utah Dynola Speaker, with Utah D-200 Power Unit, 110 to 220 volts DC for field excitation. Current consumption 45 to 90 milliamperes. Shipping weight, 25 pounds.

2R5206—List, \$55.00. Each, Net..... **\$32.34**
2R5253—Chassis only. List, \$30.00. Net..... **\$17.64**

Utah Dynola Speaker, with Utah A-100 Power Unit, 110 volt alternating current light socket supply for field excitation, using Westinghouse dry rectifier. Shipping weight, 30 pounds.

2R5208—List, \$65.00. Each, Net..... **\$38.22**
2R5255—Chassis only. List, \$40.00. Net..... **\$23.52**

Utah Piano Speaker

By installing the UTAH PIANO SPEAKER any upright or baby-grand piano can be quickly converted into a high class radio reproducer, without in any way interfering with the piano mechanism or harming it.



The UTAH utilizes the best advantage of the UTAH PIANO SPEAKER is the sound producing qualities of the piano-soundboard. The UTAH PIANO SPEAKER is equipped with a 25-foot cord, so that a radio receiver may be placed at a distance or in another room from the piano.



3R5222
LIST \$10.00
\$5⁸⁸
Net

Utah Speaker Units

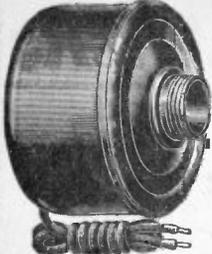
Connecting the diaphragm to the armature through a tripod arrangement is one of the exclusive features that make the superiority of the UTAH. The result is a faultlessness of reproduction not obtained in other designs, together with maximum volume.

2R5223—UTAH "DE LUXE" UNITS. List, \$7.50. Net..... **\$4.41**
2R5224—UTAH UNITS. List, \$5.00. Net..... **\$2.94**
2R5225—Big Chief Units. List, \$3.50. Net..... **\$2.06**



The Famous UTAH Dynamic Chassis for console installation

We Pay Freight As Per Offer Given on Page 260



New R. F. I. Super Power LOUDSPEAKER UNIT

Truly a scientifically correct device—the product of the study and work of acoustical, electrical and radio engineers. Of the balanced armature type; built on the electro-magnetic principle. Extremely sensitive, it reproduces with uncanny faithfulness all frequencies encountered in music and speech.

Perfect Balance—Faithful Reproduction

So perfectly balanced that no point in the scale is either slighted or favored. A unit readily adaptable to any type of speaker or reproducing device and its performance a marvel in uniformity. No distortion at any point, but a liquid, sweet, natural flow of radio broadcast that delights the most critical listener. For use with power tubes and special amplifiers. It will carry tremendous volume without hint of distortion. Even the largest power set will not break it down. It will handle up to 700 volts without danger of burn out. The magnets are of tungsten steel. The entire unit is rustproof and tightly sealed. Will give lifelong service in any atmosphere—even in salt air. Shipping weight, 3 lbs.

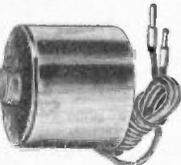
2R2120
List \$2.89
Net \$6.00

2R2120—List, \$6.00. Net..... \$2.89

Fidelity Specials

2R2128
List \$10.00

\$4.90
Net



New in principle and materials. Diaphragm of special alloy—light as aluminum, but with five times its tensile strength. Rubber gasket cushions. Absolutely rust-proof magnet. Coil wound on molded bakelite spool, made moisture-proof by special process. New type balanced armature is extremely sensitive at all frequencies, and catches the faintest signals. Shielded with heavy brass cover against dust and dirt. Carries the big volume of present-day AC sets without chatter or distortion and allows free transmission of high frequencies. Complete with cord and taps. Shipping wt., 3 lbs.

Model 250 Special

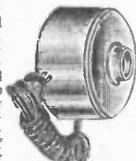
2R2128—Constructed especially to accommodate the high power tubes as well as giving unusual reproduction on other types of tubes. List, \$10.00. Net..... \$4.90

Standard Model

2R2118—Works very satisfactorily with tubes of the 201A, 112 and 171 types. List, \$6.00. Net..... \$2.95

Balanced Armature Type Unit

Extra large permanent magnet of fine grade tungsten steel. Special construction to stand hard usage and great volume. Specially adapted for present-day AC sets with extraordinary volume and capacities. Will handle up to 700 volts without danger of burn out. Very sensitive to weak signals; allows free transmission of high frequencies. Sturdily made, finely finished. Long cord with phone tips. A wonderful bargain at our price. Shipping wt., 1 1/2 lbs.



2R2129—List, \$5.00. Net... \$1.69

Dulce-Tone

Makes a Loud Speaker of Your Phonograph

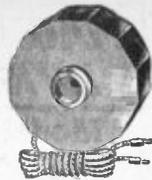
Place phonograph needle in Dulce-Tones grooved reed and plug into radio set. No special connections needed, gets power direct from set without outside batteries. Use it in separate room if desired. Adjustable for volume. For all makes of phonographs. Produces a clear, rich tone, using the phonograph sound chamber, which gives you the wonderful resonance and depth produced by the superior acoustics of wood sound chambers. Five-foot cord included. Shipping wt., 2 lbs.

2R2130
List \$10.00
\$5.88
Net

2R2130—List, \$10.00. Net... \$5.88

Temple Double Action Units

Each part has been designed and matched to every other part. The large air gap gives greater freedom from chattering under enormous volume. Specially designed cap allows free transmission of high frequencies and protects against injury. Threaded to fit all standard makes of loud speakers. Ship. wt., 2 lbs.



2R2127—List, \$6.00.
Net... \$3.53

Amplion Air Column Speaker Unit



Unusually rugged in construction, yet extremely sensitive. Has a intense magnetic field with laminated pole pieces. Light moving parts and noiseless transfer levers. Accurately balanced restoring spring and scientific step-up ratio furnish splendid reception. Will handle the full volume of the modern AC set with power tubes.

\$5.88
Net

3R2126—List, \$10.00.

Tone Arm



Used to attach speaker unit to wooden horn. Made of cast metal. Four screw holes. Threaded to take unit. Permits of best results with specially built wooden horn.

3R2121—No unit included. Each.... 67c

Genuine Nathaniel Baldwin Units New Improved Types

Nathaniel Baldwin was one of the pioneers in the conversion into sound of the electrical currents received by the radio. Each unit is accurately adjusted before leaving the factory. Not equipped with adjusting devices. Will operate perfectly with all standard tubes, including power tubes. All metal parts electro-plated with cadmium rust-proofing.

Baldwin Concert Grand

Generally known as the best. Each unit hand made, carefully adjusted and tested. Precision made at every step. Widely imitated, but not excelled for its faithful, consistent reproduction. Threaded to fit all standard speakers. 5-foot cord with tips. Shipping wt., 2 lbs.



\$7.05
Net

2R2122—List, \$12.00.

Baldwin Concert

Similar to the Concert Grand but not quite as large or rugged in construction.

2R2123—List, \$10.00. Net..... \$5.88

Baldwin Rival Unit

Although lower in price, this splendid unit has all the quality of construction and fine reproducing qualities which distinguish the famous Baldwin line. Ideal for all console horns. Threaded for all standard speakers. Ship. wt., 1 lb.



2R2124
List, \$6.50
\$3.82
Net, each

2R2124 1/2—Baldwin Rival Unit with Shield. List, \$7.00. Net..... \$4.12

Standard Phono Pedestal Speaker

For attaching to tone arm of any phonograph. Comes with unthreaded stems to which suitable adapters can be fitted for attaching to phonograph tone arm. Equipped with extra long cord and phone tips. Heavy pedestal base. Has durable imitation leather finish. Very sensitive magnets will amplify faintest signals, and allow easy transmission of high frequencies without distortion.



2R2125
List, \$8.00.
Special Bargain Price
\$2.95
Net, Each

Improved Utah "Tripod" Units Utah Tripod Diaphragm

View of Utah diaphragm only, with patented tripod suspension construction. The great advantage of this exclusive patented design is that it enables Utah units to stand extreme power without blasting, and makes possible a faithfulness of reproduction few other diaphragms can approach. Accurately assembled and well finished. This new patent is now used in all Utah units.



DeLuxe Utah Units

This unit includes the tripod patented feature described above. It is the largest and finest speaker unit ever produced by Utah and is capable of handling enormous volume with rare faithfulness of reproduction. Ship. wt. 3 lbs.



2R2131—List, \$7.50. Net..... \$4.41

Standard Utah Units

Similar in construction to the DeLuxe, but not quite as sturdy and powerful. Will render excellent service, and has long life.

2R2132—List, \$5.00. Net..... \$2.94

"Big Chief" Unit

A fine popular priced new Utah unit. Has the many exclusive Utah features. Finished in highly polished nickel. Fitted with 5-foot cord and phone tips. Very sensitive, yet sturdy and strong. A dependable unit.



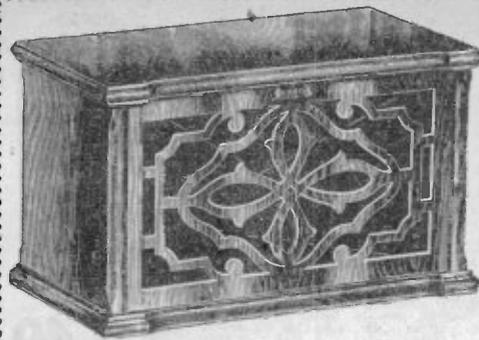
3R2133
List, \$3.50.
Each, Net
\$2.06
Net

Utah "Phono" Speaker

For attaching to tone arm of phonograph. An inexpensive speaker that will give satisfactory service with any phonograph. Furnished with or without stand. All-nickel finish. Complete with long cord and phone tips. With base as illustrated.



2R2134—List, \$8.00. Net..... \$4.70



Cello Talker

BIG VALUE!

Here is a genuine \$25.00 retail value speaker at an almost unbelievably low price, the result of a fortunate purchase of the manufacturer's entire supply, making it possible for us to offer this quality speaker at a figure actually below the cost of manufacture.

BEAUTIFULLY DESIGNED

The woodwork itself is a masterpiece of grace and skill. The tone chamber is specially designed for low note emphasis, a feature rarely found in any but the most expensive speakers. Although non-resonant of itself, it vibrates in perfect unison with the lower frequency sounds.

It is finished in dark mahogany, highly polished. The carved grille front is of an unusually attractive design.

ORTHOPHONIC PRINCIPLE

With this speaker all notes are mellow and round, eliminating the harsh discords of ordinary reception. The speaker unit is a famous balanced armature type. Usually sells for \$7.00 alone. This combination makes the Cello Talker a truly unbeatable value. It is remarkably sensitive, catching the faintest audible frequencies and reproducing them with a fidelity and power that would do justice to speakers at many times the price. The speaker unit is amply heavy to carry great volume without overloading.

A GREAT MONEY-MAKER FOR YOU!

You can easily double and treble your money with this speaker. The performance will bring you quick sales at \$10.00 to \$15.00. Ship. wt., 5 lbs.

2R5170—Regular \$25.00 retail value, our special wholesale price. Net..... **\$4.65**

**A REGULAR
\$25.00 SPEAKER
SPECIAL
WHOLESALE
PRICE**

**\$4.65
NET**

ENSCO CONE KIT

**Built in
a Few
Hours**

**Build It Yourself
in One Evening**

A most beautiful 3-foot cone that will add prestige to the best of receivers. No matter how efficient a receiver is the volume and tone quality will not be up to standard unless a reproducer of equal caliber is used. In the Ensco cone the home builder will find an instrument that is easy to build, and truly efficient when in service.

All Ready to Assemble

All parts are supplied in kit form, all ready to put together. One short evening of interesting work and you have a cone speaker equal to any, and especially desirable,—for you built it yourself. You will be proud of your handwork.

Ensco Unit Used

The celebrated Ensco Reproducing Unit, which sold so well last year, is again employed, with added improvements which make it better than ever. The paper for the cone comes in a sheet all stamped, ready for assembling. Metal arms and extension pin furnished. Wooden brackets and full and carefully prepared instructions complete this kit. Shipping weight, 5 lbs.



2R5158
List price, \$12.00
**\$7.00
NET**

PENN 30 INCH CONE Quality and Value Combined

Outfit consists of two sheets Alhambra Penn-O-Tex paper, pair back rings, Penn Unit Mountings, can of special Ambroid Cement, and Penn Cone Speaker Unit with necessary bolts and washers. Extremely sensitive and of unusual power. You will never know the real thrill of radio until you have this giant 30-inch Cone Speaker. With complete instructions it is easy to build. Endorsed by such distinguished technical editors as Czekajsky, Gurney, Hurd, Casey and others. Shipping weight, 5 pounds.

2R5155
\$13.50
List **\$8.10
NET**

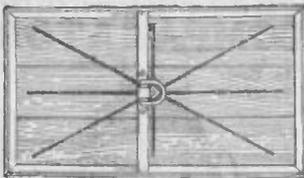


New Omniphone Reproducer

The Omniphone, a portable loud speaker. A new and very different type of speaker, yet perfectly practical and a great source of entertainment. Consists of a driving unit and a contact arm. Place the ball on this arm against any vibrating surface such as door jamb, window frame or table top, and a reproducer results. Gives very clear music and voice, volume depending on sound heard employed. Complete with 30-foot cord, mounting pin and hook. Size 4 1/2 x 1 1/2 inches. Shipping weight, 2 pounds.
2R5099—List, \$7.50. Net, **\$4.45**



Balsa Wood Reproducer Build It Yourself



Nature provides sounding boards for all purposes, highly resonant for violin, deeply resonant for piano and xylophone, and here, Balsa Wood, non resonant for a radio reproducer.

Made of thin strips of balsa supported in a frame like a picture. May be hung on wall or set on easel.

Responds to all frequencies. Having no period of vibration of its own it truthfully reproduces the deep booming of a drum and the soft whisper of a violin.

Supplied in kit form only; assemble it yourself. Full instructions included. Shipping weight, 5 pounds.

2R5163—8 1/2 x 11 inches. List, \$8.00. Net **\$4.70**
2R5164—21 x 34 inches. List, \$10.00. Net **6.47**
2R5166—Driving Unit. List, \$8.00. Net **4.79**

PIONEER 3-FOOT CONE Make It Yourself!

Dealers are finding the make-it-yourself cone does a big profit maker. The fad is sweeping the country and thousands of fans everywhere are taking up this fascinating task of building a giant cone to go along with their regular speakers. All who build it get endless additional enjoyment and thrill from the realization that it is the result of their own handwork.

A Business Getter

The PIONEER is a real quality, easy to build cone kit at a fair price. When completed it hangs on the wall and provides that booming, resonant reproduction so desired in large cones. Every store should have one of these striking, pretty, efficient, huge volume cones for floor demonstrations.

Ready to Assemble

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

2R5167—Retail Price, \$9.00



YOUR NET PRICE

**\$4.10
EA.**

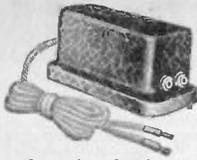
All Prices Quoted Are Net—There Are No Further Discounts

Amsco Orthophone

3R2634

List, \$6.00.

\$3.53
Net



A device consisting of a series of resistances in one case which, placed between any loud speaker and set, will greatly improve reception. It eliminates the direct plate current from speaker winding, thereby increasing volume, yet preventing distortion. It increases frequency range of speaker, especially bringing out full roundness of lower frequencies. Attached in half minute. Case is 4 1/4 x 2 1/2 x 2 3/8 inches brown crystal finish.

Muter Finisher and Tone Filter

Improves Tone—
Quality and Volume
—Protects Speaker



3R2590

\$2.94
NET

Easily attached in a few seconds without disturbing set. Enclosed in highly finished enameled container with nickelled binding posts and suitable phone cord. Size 4 in. high, 3 1/4 in. long, 2 1/2 in. wide. List, \$5.00.

S. M. Tone Filter

Designed to be placed between set and speaker unit. Acts as a transformer and tone filter. Equipped with four phone tips jacks instead of four binding posts. Heavy duty 5 ft. extension cord. (Can be instantly attached to any radio. Takes the heavy overload, prevents damage to delicate speaker unit coils, and tends to improve the clarity and quality of the reception. Silver-Marshall No. 222 prolongs the life of the speaker unit by protecting against the higher plate voltages of power tubes operation. 3R2533—List, \$6.00. Net, each **\$4.70**



Amplion Cone Unit

Rugged in construction, yet extremely sensitive to weak signals. Has intense magnetic field; laminated pole pieces, light moving parts; accurately balanced restoring spring. Has noiseless transfer levers and sensitive step-up ratio. It is one of the outstanding successes in cone unit construction, being an ideal combination of improvements and refinements. An entirely new design and extremely accurate and precise. Ship. wt., 4 lbs. List, \$10.00.



3R2514

\$5.88

Net

R.F.I. POWER CONE UNIT

Built on the electro-magnetic principle, this unit closely approaches the dynamic in volume and quality of reproduction. Balanced armature type and magnetically and mechanically centered in such a way that it is impossible to rattle even on tremendous volume.

Completely Shielded

A special feature is the dust cover protecting the vital parts from dirt and dust, thereby assuring better action at all times. Has extra large magnet which insures much longer than ordinary life. So constructed that it reproduces extreme high and low notes with unusual fidelity. Worthy of being built into the very finest cone. Ship. wt., 2 lbs.

3R2583

List Price, \$10.00.

\$5.31

Net

Each

Pioneer Tone Filter

Protects the Loud Speaker Unit

Provides an effective filter for all DC current, thus protecting the delicate speaker coils against the higher plate voltages required with modern power tubes. Makes it possible to handle the output of any set through any speaker with complete safety, producing tremendous volume without blasting.

Prolongs the Life of Your Loud Speaker

It helps remove rattle and distortion, especially on high frequency ranges, and brings you radio reception that is more perfectly regulated, with the same overtone and colorings of the original broadcast. It acts like a water-filter, removing some of the magnetic overloads that hinder perfect reproduction on so many sets.

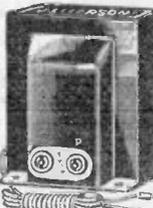
With the Pioneer Tone Filter, your enjoyment of your set will be greatly increased. It will give you an entirely new conception of radio, and enable you to bring in fainter signals without the usual annoyances caused by forcing the volume on these difficult wave lengths. It can be easily and quickly attached without disturbing the set or speaker. Shipping wt., 4 lbs. 3R2537—Regular List Price, \$5.00.



OUR
LOW
NET
PRICE

\$1.40

Jefferson Output Transformer



The use of power tubes has necessitated higher plate voltages than ordinary. As a result the operation of the speaker is impaired. The high voltage causes distortion, blasting, and interferes generally with good reception. It may even burn out speaker windings. The Jefferson output transformer has been designed to overcome this. It is connected between speaker and set. It gives the speaker its natural volume without distortion. Recommended for use with 171 and 21D type power tubes. Shipping weight, 2 1/2 pounds. 3R2644—List, \$6.00. Net..... **\$3.53**

It helps remove rattle and distortion, especially on high frequency ranges, and brings you radio reception that is more perfectly regulated, with the same overtone and colorings of the original broadcast. It acts like a water-filter, removing some of the magnetic overloads that hinder perfect reproduction on so many sets.

National Tone Filter

For use with power tubes to prevent the high plate voltage from damaging the loud speaker. Contains an impedance of the correct value and a Tone Filter Condenser. No DC can reach the speaker. Chattering distortion and burn-outs are prevented. Attractive metal case with tip jack connections. 5-foot phone cord included. Shipping weight, 2 1/2 lbs. 3R2535—List, \$8.00. Net **\$4.70**



Power Amplifier Type

A new model similar to the above is built especially for the new UX 250 and CX 350 power amplifier tubes. Impedance designed to continuously carry as much as 100 milliamperes. Contains a set of high voltage, short path variety. Shipping weight, 2 1/2 lbs. 3R2536—List, \$8.50. Net **\$5.00**

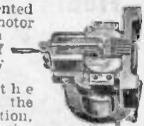
Sterling Tone Filter

Eliminates tube noises and improves tone quality of speaker when connected between radio set and speaker. Absolutely prevents overload of direct current from rinding speaker. The high voltages now delivered from "B" eliminators make it necessary to protect the radio loud speaker from damage. Attach in two minutes—lasts forever. 3R2532—List, \$5.00. Net **\$2.94**



The B. B. L. Motor For Cone and Air Chrome Speakers

A new and original patented development. The B. B. L. motor has the ability to transmit an unusually large amount of power and correspondingly large volume output without the introduction of the blasting notes. Because of the extreme care in their construction, these motors reproduce the entire frequency range with rare fidelity and sustained. Ship. wt., 2 lbs. 2R2591—B. B. L. Loud Speaker Motor. List, \$10.00.



\$5.88
NET

2R2592—Model S—with air-col-um adapter. List, \$12.00. Net.... **\$7.06**

Trimm Cone Units

Noted for high sensitivity and very wide frequency range. Very effective in reducing blasting and distortion of high frequency broadcasts. Full, rich tones, clear and smooth, both high and low range. Can be built into any cone to make a splendid reproducer. Large magnet, heavy armature and precision diaphragm assure long life and clear reception. Well finished and carefully paced. Ship. wt., 4 lbs. 3R2551 List, \$6.00. **\$3.53** NET



3R2551
List, \$6.00.

\$3.53
NET

TEMPLE COMPARATOR

The Quick, Easy Way to Compare a Number of Loud Speakers at One Time

An absolute necessity for comparing loud speakers. A turn of the knob switches from one horn to another without loss of a note, giving you an instant comparison of their tone qualities in a positive, practical way.

Helps You Sell Speakers

A Temple Comparator is one of the biggest helps in selling speaker horns. It allows your customer to make his own choice as he listens, and he practically sells himself. It is also a great home instrument, where there are a number of speakers, as is usual today in most homes equipped with radios.

The capacity of this model is 5 speakers at one time. About 3 1/2 inches high and wide. Sturdily built and well finished, to take care of long, continuous service. Nothing to get out of order.



2R2553
List, \$3.50.

\$2.06

NET

Phone Cushions



Made of soft rubber. Light as a feather. Fits any phones. Excludes all noises and makes wearing phones a pleasure.

2R736—List, 50c. **33c**
Net, pair.....

Trimm Professional Headsets



This is the famous Trimm headset, nationally advertised, and admitted one of the most favored headsets used by the professional operators everywhere. The same headset Donald B. McMillan used on his expedition to the Arctic regions, during which he has kept in constant touch with civilization through radio. Thoroughly dependable. Coils wound to 3,000 ohms. Shipping wt., 2 lbs.

2R723—List, \$5.50. **\$3.23**
Net.....

Nathaniel Baldwin Receivers



This is the genuine Nathaniel Baldwin Type C Headset, known the world over for its high quality. One of the best if not the best headset made.

2R722—List, \$4.95
Net.....

Frost Headsets

The splendid quality of Frost phones has made thousands of friends for them. Made in several different styles, one of which is sure to meet your requirements. Fully guaranteed.



2R721—Frost No. 174, 2000 ohm headset. Aluminum shell. List, \$3.00. **\$1.76**
Net.....

2R720—Frost No. 175, 3000 ohm headset. Aluminum shell. List, \$3.50. **\$2.06**
Net.....

2R719—Frost No. 172, 3200 ohm headset. Bakelite shell. List, \$6.00. **\$3.53**
Net.....

The Poly-Claro Plug



Radio's latest development. Improves the tone quality of every Loud Speaker. Eliminates "scrapy" sounds from Loud Speaker. Broadens the range; brings out bass and high tones. Adds body, detail and definition to the tone. Vastly improves summer reception by reducing noises and crackling. No matter how old the set or speaker may be, the Poly-Claro Plug will improve the tone quality.

2R2539—List, \$1.50. **88c**
Net.....

Central Modulator Plug



Gives any degree of tone volume from a whisper to maximum by turning the small knob on the plug. Static interference is reduced and programs come in clear and true. Shipping wt., 6 oz.

3R2538—For sets with jacks.
3R2549—For sets without jacks. Plug complete.
List Price, \$2.50. Net..... **\$1.47**

Pioneer Head Phones

Quality apparatus at lowest prices ever offered. Only quantity production with labor saving machinery makes our prices possible. Built to laboratory standards by skilled workmen. Reproduces code, music or voice with exceptional clarity.

For DX Tuning

Radio amateurs will find these phones very satisfactory. For broadcast reception they enable you to tune in distant stations not possible to locate on a loud speaker.

Best Quality

Made of selected materials. Receiver cases and caps are fine polished finish. Covered headband, easily adjusted to comfortably fit the head. Complete with 5-foot cord. Shipping weight, 2 pounds. You will be pleased with their performance.

3R717—2,000 ohm. List, \$2.50. Net..... **\$1.10**
3R722—3,000 ohm. List, \$3.50. Net..... **\$1.39**



Special

\$1.10
Net

E-Z Improved Radio Plug



Cord is easily and quickly connected. No tools needed. Simply pass cord through large eyelet in end of plug and insert cord tips in holes. Tips cannot pull out, yet can be removed in an instant, if desired. Fine polished black moulded grip. Ship. wt., 6 oz. **21c**



De Jur Plug

A well made plug. The cord tips are firmly clutched and the smooth nickel-plated stem assures a good contact with the jack. Has all the features of a serviceable plug. It is a real value. Ship. wt., 6 oz. **15c**
3R1508—Net, each.....

Frost New Type Plugs



An automatic plug that holds two sets of cords. Cords snap into place and can be instantly released by a press on the button release. Shipping weight, 6 ounces. **44c**
3R1514—List, 75c. Net.....

Duplex Two-Cord Plug



Finest quality plug of this style on the market. Unbreakable fiber barrel in attractive black satin finish. Accurately fitting metal parts, finely finished. Takes two sets of cords. **29c**
3R1569—List, 50c. Net.....

Carter Portable Volume Control



An attractive device in bakelite case for regulating volume. Fitted with two connection cords and tips. Is easily applied to a radio, connected across speaker, providing a perfect control of the tone and volume. Can also be used as a phonograph pick-up control. **\$1.47**
3R1515—List, \$2.50. Net.....

Extension Cord Sets



Complete with cord and connector. A very special value. Excellent quality. Loud speaker can be moved any distance away without moving set.

	List, each	Net
3R781—20 ft.	\$1.00	\$0.50
3R782—30 ft.	1.40	.82
3R784—50 ft.	2.20	1.20

Extension Cords

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

3R1538—10 ft.	Each.....	\$0.27
3R1538—20 ft.	Each.....	.36
3R1538—30 ft.	Each.....	.62
3R1541—50 ft.	Each.....	1.10

Phone and Speaker Cords

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

3R737—5-foot double cord. Spade tips one end, straight tips on other. **30c**
List, 55c. Net.....
3R738—5-foot double cord. Straight tips on both ends. List, 55c. **30c**
Net.....
3R739—5-foot single cord. Straight tips on both ends. List, 35c. **21c**
Net.....

Extension Connector

Connects speaker cord with extension cord so speaker can be moved any distance from set. **24c**
3R1521
Each.....

Cord Tips



3R726—Standard. List, 5c. Dozen **35c**
3R727—Separable. List, 6c. Dozen **55c**

Table Clarostat

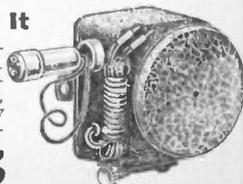
For regulating volume. Can be placed at a distance from the set, near the telephone, or at the dimmer table, to reduce volume as desired. Loud when you want it—soft, mellow music when you want it, without returning to set. Complete with cord and connector. **\$1.47**
2R728—List, \$2.50. Net.....

Radio Reel—Extension Cord

Place Your Speaker Where You Want It

A high quality instrument, fully guaranteed. Handsomely finished in mahogany brown enamel and nickel. Use of this device permits moving speaker in any direction, 25 feet from set. Has automatic rewinding reel, controlled by ratchet, operated by push button. Easily attached. Twenty-five feet of high grade cord and terminal included.

2R785—List, \$3.75. **\$2.45**
Net.....



RADIOTRON AND CUNNINGHAM TUBES



Dependable long lived radio tubes—that is the reason why Cunningham and Radiotron tubes have always dominated the market. Precision construction such that regardless of type the dynamic and static characteristics are always the same, whether the tubes are the products of to-day, tomorrow or later on. Unceasing efforts on the part of the makers have gained complete public confidence the world over, and when any radio engineer or professional man puts either of these tubes in a set, he knows that complete and lasting satisfaction will be the result. These two makes of tubes have identical characteristics. We will supply either type in stock unless you specify to the contrary.

CX301A—UX201A
Amplifier Detector Tube. Filament draws .25 amperes at 5 volts.
2R921—Radiotron UX 201A.
2R931—Cunningham CX 301A. **\$1.03**
List, \$1.50. Net

CX300A—UX200A
Super Sensitive Detector. Filament draws ¼ amp. at 5 volts. B voltage 22 to 45 volts.
2R1021—Radiotron UX 200A.
2R1031—Cunningham CX 300A. **\$2.74**
List, \$4.00. Net

CX300—UX200
Detector Tube. Filament draws 1 ampere at 5 volts. B voltage 22 to 45 volts.
2R1016—Radiotron UX 200.
2R1026—Cunningham CX 300. **\$1.23**
List, \$1.75. Net

CX374—UX874
Voltage Regulator Glow Tube. Regulates B filament voltage where the current is 50 mls or less.
2R933—Radiotron UX 874.
2R934—Cunningham CX 374. **\$3.26**
List, \$4.75. Net

CX380—UX280
Full Wave Rectifier. Output 65 mls at 220 volts DC. Fil. takes 2.5 amps. at 5 volts.
2R940—Radiotron UX 280.
2R941—Cunningham CX 380. **\$2.71**
List, \$4.25. Net

CX381—UX281
Halfwave Rectifier. Output 110 mls at 550 volts DC. Filament takes 1.25 amperes at 7½ volts.
2R935—Radiotron UX 281.
2R936—Cunningham CX 381. **\$5.14**
List, \$7.50. Net

CX326—UX226
AC Amplifier Tube. Filament draws 1.05 amperes at 1½ volts AC. For either AF or RF amplification.
2R944—Radiotron UX 226.
2R945—Cunningham CX 326. **\$1.43**
List, \$2.25. Net

CY327—UY227
AC Detector. Heater type. Filament draws 1.75 amperes at 2½ volts AC. Has special 5-prong base.
2R942—Radiotron UY 227.
2R943—Cunningham CY 327. **\$2.55**
List, \$4.00. Net

CX340—UX240
High Mu Amplifier. For resistance and impedance amplifiers. Filament takes ¼ ampere at 5 volts.
2R937—Radiotron UX 240.
2R939—Cunningham CX 340. **\$1.37**
List, \$2.00. Net

CX312A—UX112A
Power Amplifier. Filament takes .25 amperes at 5 volts. 135 volts of B and 9 volts of C recommended.
2R1017—Radiotron UX 112A.
2R1013—Cunningham CX 312A. **\$1.75**
List, \$2.75. Net

CX371A—UX171A
Power Amplifier. Filament takes .25 amperes at 5 volts. 180 volts of B and 40½ volts of C recommended.
2R1022—Radiotron UX 171A.
2R1032—Cunningham CX 371A. **\$1.75**
List, \$2.75. Net

CX310—UX210
Power Amplifier. Filament takes 1.25 amperes at 7½ volts. 425 volts of B and 35 volts of C recommended.
2R1018—Radiotron UX 210.
2R1038—Cunningham CX 310. **\$6.17**
List, \$9.00. Net

CX350—UX250
Super Power Amplifier. Filament takes 1.25 amperes at 7½ volts. 425 volts of B and 84 volts of C recommended.
2R1014—Radiotron UX 250.
2R1015—Cunningham CX 350. **\$7.01**
List, \$11.00. Net

CX322—UX222
Shield Grid Amplifier. Filament takes .125 amperes at 3.3 volts. Amplification constant 300.
2R821—Radiotron UX 222.
2R820—Cunningham CX 322. **\$4.46**
List, \$6.50. Net

C299—UV199
Old Style Midget Base Dry Cell Tube. Filament takes .06 amperes at 3 volts. Plate 45-90 volts.
2R922—Radiotron UV 199.
2R932—Cunningham C 299. **\$1.54**
List, \$2.25. Net

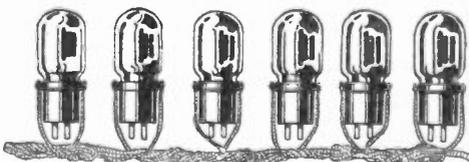
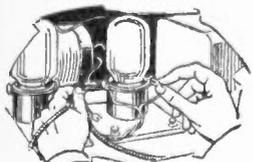
CX299—UX199
Dry Cell Tube with Standard Base. Filament takes .06 amperes at 3 volts. Plate 45-90 volts.
2R920—Radiotron UX 199.
2R930—Cunningham CX 299. **\$1.54**
List, \$2.25. Net

CX220—UX120
Standard Base Dry Cell Power Tube. Filament takes .125 amperes at 3 volts. Plate 135 volts.
2R928—Radiotron UX 120.
2R938—Cunningham CX 220. **\$1.71**
List, \$2.50. Net

C11—WD11
Cell Tube. Filament takes .25 amperes at 1.1 volts. Plate voltage 22½-90.
2R1020—Radiotron WD 11.
2R1071—Cunningham C 11. **\$1.71**
List, \$2.50. Net

CX12—WD12
Standard Base Dry Cell Tube. Filament takes .25 amperes at 1.1 volts. Plate 22½-90 volts.
2R1019—Radiotron WD 12.
2R1039—Cunningham CX 12. **\$1.71**
List, \$2.50. Net

Easy To Make Your Old Set Into a Real AC Radio With This New Kit



MARATHON AC KIT

The change from DC to AC is as simple as the illustrations above show—you cannot make it complicated. The Marathon harness is universal and can be used in any set. The "spades" slip over the projections on the tubes—no thumbscrews.

Marathon AC Tubes Guaranteed for a Year

The amazing, self-biasing Marathon AC Tube—an entirely new development in the radio art—automatically takes care of every condition. No other tube is like it. It is built on an entirely new principle and guaranteed for a year! Marathon AC Tubes have the standard 4 prong UX bases. No adapters or by-pass condensers or center tap resistances required.

3R4637—5 or 6 tube Kit. **\$17.64**
List, \$30.00. Net
3R4638—7 tube Kit. List, \$35.00. **20.58**
Net
3R4639—8 tube Kit. List, \$40.00. **23.52**
Net

No re-wiring—no adapters—no by-pass condensers—no center tap resistors—no additional "C" Batteries

\$17.64
Net

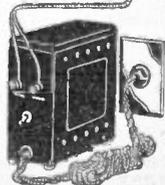
Guaranteed to Operate Satisfactorily on Your Set

For 5 or 6 Tube Set

No need to wonder if the Marathon AC Kit will work on your set. If you have a set now operating from an "A" battery (dry cells or storage), employing UX sockets, and 5, 6, 7 or 8 tubes we guarantee perfect satisfaction. We will not tell you about the increased efficiency the Marathon AC Tubes will give your set, but you will be agreeably surprised.

Complete Kit—Nothing Else to Buy

The Marathon AC Kit is complete. The six tube Kit, for example, includes 6 Marathon AC Tubes, a universal harness which fits all six tube sets, a transformer which steps down the voltage to 6 volts (on which all of the tubes operate), and a volume control. Nothing else to buy. Shipping wt., 15 lbs.





Radio Tubes

Ce Co tubes are made in one of the largest plants in the world devoted exclusively to the manufacture of radio tubes. They have an exceptionally well equipped laboratory which is never idle. It is always busy endeavoring to further improve a line which is already noted for very satisfactory performance.

Best by Performance

At first Ce Co tubes were advertised as being "Best by Test"; today public opinion of millions of actual users declares them "Best by Performance."

Greatly Enlarged Capacity

The best proof of Ce Co popularity lies in the fact that the factory has been forced to increase its production capacity by five times in the last three years.



Art. No.	Mfr. No.	Type	Price List	Price Net
2R995	-AX	(201-A)	1.50	88c
2R996	-01-B	(201-B)	3.50	\$2.06
2R997	-B	(UV-199)	2.00	1.18
2R998	-BX	(UX-199)	2.00	1.18
2R1083	-E	(120)	2.50	1.47
2R902	-M-26	(226)	2.25	1.32
2R903	-N-27	(227)	4.00	2.35
2R1084	-F-12	(112)	2.75	1.62
2R1081	-F-12A	(112A)	2.75	1.62
2R1075	-J-71	(171)	2.75	1.62
2R1010	-J-71-A	(171A)	2.75	1.62
2R1082	-L-10	(210)	9.00	5.29
2R987	-H1-Mu	26	4.00	2.35
2R988	-L-50	(250)	11.00	6.47
2R989	-R-81	(281)	7.50	4.41
2R990	-R-80	(280)	4.50	2.65
2R991	-G	(240)	2.00	1.18
2R992	-H	(200A)	2.50	1.47
2R993	-K R.F. Amplifier		3.00	1.76
2R901	-RF-22	(222DC)	6.50	3.82
2R994	-AC-22	(222AC)	8.00	4.70

GENUINE Raytheon Rectifier Tubes

The Raytheon tube has revolutionized the B eliminator.

Long life. No filament. Greater economy and reserve power enough to run a 10-tube set. Uninterrupted service. No liquids. So developed that a single tube utilizes both halves of the alternating current for rectification. A dependable rectifying tube—the talk of the radio world. 2R831—Type BH, Output 125 Mils. List, \$4.50, Net, \$2.65. 2R1077—Type BA, Output 350 Mils. List, \$7.50, Net, \$4.41.



Raytheon Rectifying Cartridge

Type A. Compact, simple, reliable. Contains no liquid or filaments. Most efficient for battery chargers or A power units. Low operating cost. Guaranteed for 750 hours' service. Rating 2½ amps. 2R1078—List, \$4.50, Net \$2.65.



New Sovereign AC Tubes

Requires no "A" batteries for filament operation. Heater type. Operates direct from the house lighting current through a step-down transformer. May be used to convert any radio receiver to an AC operated set. Long life. 2R1079—AC Tube. List, \$5.00, Net \$2.94. 2R1080—AC Power Tube for last audio stage. List, \$5.00, Net \$2.94.

ARCTURUS 127 DETECTOR

The Arcturus 127 is the latest development in 2.5 volt AC tube. This tube was developed because of the pressing demand for a dependable AC Detector, but its high mutual conductance and amplification factor recommend its use in any radio or audio frequency amplifying stage where a reduction of AC hum is necessary. Has an exceptionally long life due to the low operating temperature. The usual life is far in excess of the standard 1,000-hour requirement.

Another strong point in favor of your purchasing this tube is its very short thermal lag; this is usually from 7-10 seconds, whereas other tubes take as high as one minute to reach their temperature. There is no other tube which can offer you the same high quality service that Arcturus gives. Ship. wt. 10 oz. 2R1076—127 Det. tube (227) List, 5.00..... \$2.94

McCullough or Kellogg AC Tubes

This tube as now manufactured by Kellogg Switchboard & Supply Co. is of a uniform high quality, has been improved to the point where it is highly satisfactory. Eliminates "A" batteries, recharging, rheostats, etc. Plugs to any 110-volt 60-cycle alternating current electric light socket (through small step-down transformer). Insures lower impedance, greater electron emission and increased signal response. Has no alternating current hum or microphonic action. Operates at low cost.

- 2R824—Type 401 AC Radio Tube. List, \$5.50, Net..... \$3.24
- 2R865—Type 403 Power Amplifier for last stage. List, \$7.90, Net..... \$5.15
- AC Tube Transformer
- 2R1712—AC Tube Transformer. For use with McCullough AC tubes. List, \$6.00, Net..... \$3.53

Postage, 14c extra.



Concert Master Copper Shielded RADIO TUBES

No Howls, Squeals or Microphone Noises

They are new! Clearer, stronger volume! A completely shielded tube in a pure copper case. This insures sharper tuning, greater clarity, increased volume and distance, and added protection against handling and breakage. The shield being grounded to the negative "A" terminal gives complete elimination of stray capacities, sharper tuning, and saves "A" battery current. The interior soft cushion, with no period of vibration, makes this tube practically air-suspended and definitely eliminates squeals, howls, and microphonic noises. In this day of shielded sets, Concert Master Shielded Tubes are a necessity. They improve any set.

Concert Master Tubes are thoroughly and rigidly constructed. They contain a thorium impregnated filament, enabling their withstanding re-activation any time loss of efficiency is sighted.

Concert Master Tubes, to be passed as perfect, must show an emission reading in the 201A type of 55-60 at 45 volts or 65-70 at 90 volts and the 199 20-25 and together with their other fine characteristics Concert Master Tubes will insure perfect performance over a longer period than the average radio tube.

Cat. No.	Type	Price List	Price Net
2R845	201A	\$2.50	\$1.47
2R846	200A	4.00	2.35
2R848	199	2.50	1.47
2R847	X112	4.00	2.35
2R849	171	4.00	2.35



All Prices Quoted Are Net—There Are No Further Discounts

MARATHON RADIO TUBES

**Better Tone—Longer Life
Greater Distance—Bigger Value**

Marathon is one of the best known radio tube brands in the country. In actual performance, Marathon tubes are the very best. Made in a factory with superior manufacturing facilities; supervised by engineers with many years' experience in making radio tubes. Made by workers skilled through years of actual tube production. This results in tubes of extremely long life. Great ruggedness. Silver clear tone and maximum volume.

Marathon tubes are extremely sensitive. They bring in distant stations with ease. They actually out-perform most other brands of tubes on the market, and all this at the astonishingly low prices quoted on this page.

Marathon Quality Will Win

Marathon tubes will stand every test. Put them in the laboratory, check them carefully against the highest tube standards. You will find them to be leaders on every important requirement in a tube. We guarantee that Marathon tubes will please you. We guarantee that they will give you a minimum of 6 months' satisfactory service. If for any reason any Marathon tube does not meet this guarantee, you may return them for full credit. You are to be the sole judge. There could be no stronger guarantee than this Marathon tube guarantee. It will permit you to make sales to customers against all competition, and the low prices we quote on Marathon tubes will help you make big profits on this quality line.

Complete Selection of Tubes

The Marathon line is complete. Every type of tube for which there is a demand will be found in the Marathon line. You can supply your customers' needs complete with Marathon tubes. As new types of tubes are brought out, we will be able to supply them in the Marathon brand at prices correspondingly low with those quoted on this page.

SPECIAL FREE DEAL \$12.50 Tube Tester

We include a \$12.50 Readrite Tube Tester free with every purchase of 50 Marathon tubes. Tests both AC and DC tubes. Convince yourself and convince your customer of Marathon tube quality. Order a lot of 50 Marathon tubes of any one kind, or assorted, as you choose. You will find a big sale for this nationally advertised tube, and our special low prices mean big profits to you.

Self Selling Counter Display Cartons

Marathon tubes are packed in attractive two-color display cartons, which will give them a favorable introduction with the most critical purchaser. Keep these tubes on display. You will find that the cartons will attract the attention of your customers and help your sales. We supply a special counter display box with every 10 Marathon tubes, when requested. Simply specify "carton" on your order.

Absolutely Guaranteed

Every Marathon Super Quality tube is double guaranteed against all possible defects, no reservations, no arguments. Any defective Marathon tube will be replaced at once without charge. They are the best and are guaranteed to perform as well as any tube manufactured, regardless of make, name, or price. Each tube individually boxed, carefully tested, and unconditionally guaranteed.



Rectifier Tubes

Type MX280 Full Wave Rectifier
Only one required in power packs designed for tubes of this type. Handles any set up to ten tubes including one power tube. Fil., 5 volt AC; input, 400 volts AC; output, 325 volts DC; current, 2 amps.
2R115—List, \$4.25. Net, \$2.09

Type 281 Half Wave Rectifiers
Requires fewer condensers in filtering and rectifying circuits. Two required in power packs to give full wave. Fil., 7 1/2 volts; current, 1 1/4 amps; input, 750 volts; DC output, 110 mils.
2R116—List, \$9.50. Net, \$4.65

SHIELD GRID TUBES

Type MX222 and 222AC
R. F. amplifier in circuits specially designed to make use of its high voltage amplification and low feed back capacity between plate and control grid. May also be used as an audio frequency amplifier where resistance coupling is employed. Some of the best circuits specifying shield grid tubes are listed on pages 106 to 123. Fil., 1 volt, 1 amp.; plate, 90 to 135 volts; grid bias, —1 to —1.5; shielded grid bias, 45 volts.
2R109—For DC only, \$3.18
2R110—For AC only, \$3.41
List, \$7.00. Net, \$3.41

**MARATHON
MX201A**

Type MX201-B.
A new low amperage tube which may be used in place of a 201-A in battery operated receivers. Draws only 3/4 ampere per tube.
2R1107
List, \$3.00.
Net **\$1.47**

Type MX201-A.
All purpose tube, works in all circuits as det., amp., or osc. Fil. 5 volts, .25 amp. Plate voltage 22 1/2 to 150. Grid bias as amplifier 4.5 to 9 volts.
2R1106
List, \$1.50.
Net **73c**

Detector Tubes

Type MX200-A Detector.
A gas filled tube for storage battery operation only. Very sensitive to weak signals. The best detector made. Fil. 5 v., .25 amp. Plate 22 1/2-45 volts.
2R1105
List, \$4.00.
Net **\$1.96**

Type MX240 High Mu Tube.
Especially designed for use in resistance coupled audio amplifiers. Has an unusually high amplification factor without distortion or loss of purity of tone. Fil. 5 v., .25 amp. Plate 90-130 volts. Grid bias 1.5-15 volts.
2R1113
List, \$2.25.
Net **\$1.13**

Dry Cell Tubes

Type MX199 Dry Cell Tube.
All purpose, det., amp., or osc. Uses three dry cells for filament supply. Fine for portable set. Plate 45 volts.
2R1104
List, \$2.25.
Net **\$1.13**

Type MX 120 Power Tube for dry cell use. Last stage audio only. Gives greater volume and clarity. Plate 45-90 volts.
2R1101
List, \$2.50.
Net **\$1.23**

Power Tubes

Type MX112A Power Tube.
Use in first stage when a 171 is in second, or in last stage when 201-A is in first. Fil. 5 v., .25 amp. Plate 130 v. Grid bias 6-15 volts.
2R1100
List, \$2.75.
Net **\$1.35**

Type MX171A Power Tube.
For use in last stage audio only. Gives greater volume than 201-A and purer quality. Fil. 5 volts, .25 amp. Plate 135 v. Grid bias 15-40 v.
2R1103
List, \$2.75.
Net **\$1.35**

Type MX210 Power Tube.
For use in last stage audio when a plate voltage of 300 to 500 is available. Also makes a fine transmitting tube. Fil. 7.5 v. Bias 30-90 volts.
2R1108
List, \$9.00.
Net **\$4.41**

Type MX250 Power Tube.
Largest and most powerful made. Must be used with special equipment. Gives deafening volume and marvelous tone quality. Fil. 7.5 v. Plate 400-700 volts. Bias 30-100 volts.
2R1114
List, \$11.00.
Net **\$5.39**

AC Tubes

Type MX226 AC amplifier. For use in either radio or audio circuits. Has a heavy oxide coated filament which operates at low temperature, meaning very long life. Fil. 1.5 v. AC. Plate 90-180 volts. Grid bias 6-18.5 volts.
2R1111
List, \$2.25.
Net **\$1.11**

Type MX227 5-Trong AC Detector. Fits special socket only. The latest development in AC tubes. Only type that makes a really satisfactory detector. Heating transformer, 2.5 v. Plate 45-150 volts.
2R1112
List, \$4.00.
Net **\$1.96**

**Quality-Tubes
Yet Priced
Reasonably**

SKYLINE Radio Tubes

True Economy

In skyline Tubes you will find true economy. Quality brought down to a price. Large volume production in one of America's best equipped factories, fitted with the latest improved labor-saving precision machinery, permits the wonderful offers you will find on this page.

Where Price and Quality Meet

Low prices on Skyline tubes still mean superb quality. Careful engineering at the factory, rigid tests at every step of manufacture, all under skilled experienced supervision make Skyline tubes the best values you can find. Every tube guaranteed for quality in every specification.

Try a sample lot of these tubes, subject them to careful exacting tests. You will be convinced that they are exceptionally fine quality, equal to tubes selling at much higher prices; and at our low prices you can make big profits and satisfied customers.



Type 226 AC Amplifier

A remarkable new AC tube which performs equally well as a radio or audio frequency amplifier. Has a low temperature filament which insures a long and useful life. Filament current 1.5 volt. Plate voltage 90. Grid bias 6-13 volts.

2R1151—List, **79c**
\$2.25. Net

Type 227 AC Detector

Fits the new five prong socket only. The latest development in AC detectors, and one which will function perfectly. The only type of AC tube that makes a really good detector. Filament voltage 2.5 AC. Plate 45-90 volts. 2R1152—List, **\$1.35**
\$4.00. Net

Type 280 Full Wave Rectifier

Only one tube needed in a power pack designed for tubes of this nature. Will easily handle any receiver up to ten tubes when only one power tube is employed. Fil. 5 volts AC. Input 400 volts AC. Output 325 volts DC. 2R1155—List, **\$1.35**
\$4.25. Net

Type 281 Half Wave Rectifier

Two tubes required for full wave rectification. Will handle the most powerful receiver made, or may be used for plate supply of a 15 watt transmitter. Fil. 7.5 volts AC. Input 700 volts AC, maximum. Output 600 volts DC. 2R1156—List, **\$2.25**
\$7.50. Net.....

Type 201 A An All-Purpose Tube

Makes an ideal detector, amplifier or oscillator. A tube that can be used in any circuit and nearly any receiver. You cannot go wrong carrying them in stock. Fil. 5 volts, .25 amp. Plate 22½ to 150 volts.

2R1146—List, **49c**
\$1.50. Net

Type 171A Power Tube

For last stage audio, only. New lower amperage type. Fil., 5 volts, .25 amp. Plate, 135 volts. Grid Bias, 1.5-4 volts.

2R1143—List, **85c**
\$2.75. Net

Type 200A Detector

A gas filled tube for storage battery operation only. Very sensitive to weak signals. Best detector made. Fil. 5 volts, .25 amp. Plate 22.5-45 volts.

2R1145—List, **98c**
\$4.00. Net

Type 222 Shielded Grid Tube

Bring your set ahead of the crowd by using the very latest development in R F amplifiers. Special equipment for use with this tube listed elsewhere in our catalog. Gives tremendous volume. Type 222 AC. For AC only, **\$2.40**
2R1150—List, \$8.00. Net

2R1149—List, \$6.50. Type 222. For DC only, **\$1.95**
Net

Attractive Packing

Skyline tubes are securely packed in rich-looking attractive cartons. They make a striking appearance on your shelves or when delivered.

You Need Not Pay More

Skyline tubes will please your customers and show you big profits. Sell them at full list prices if you choose, or meet any competition at a profit.

Type 171 Power Tube

For use in last stage audio only. Gives greater volume than 201-A and purer quality. Fil. 5 volts, 0.5 amp. Plate 90 volts.

2R1142—List, **85c**
\$2.75. Net

Type 112A Power Tube

Use in first stage when a 171 is in second, or in second when a 201-A is in first. Fil. 5 volts, .25 amp. Plate 180 volts. Grid bias 6 to 15 volts.

2R1140—List, **85c**
\$2.75. Net

210 Power Tube

For use in last stage audio when a plate supply of 300 to 500 volts is available. Makes a fine transmitting tube. Fil. 7.5 volts. Bias 30-90 volts.

2R1148—List, **\$2.70**
\$9.00. Net

250 Power Tube

Largest and most powerful made. Must be used with special equipment. Gives tremendous volume and marvelous tone quality. Fil. 7.5 AC. Plate 400-700 volts. Bias 30-100 volts.

2R1154—List, \$11.00.
Net, **\$2.70**

Type 199 Dry Cell Tube

All purpose detector, amplifier or oscillator. Uses three dry cells for filament supply. Fine for portable sets. Plate 45 volts.

2R1144—List, **68c**
\$2.25. Net

Type 120 Power Tube

For dry cell use. Last stage audio only. Gives greater volume and clarity. Plate 45-90 volts.

2R1141—List, **75c**
\$2.50. Net

Type 240 High Mu Tube

For use in resistance coupled audio amplifiers. Gives high amplification without distortion. Fil. 5 volts, .25 amp. Plate 90-180 volts. Grid bias 1.5-13 volts.

2R1153—List, **60c**
\$2.25. Net



Silver King

Incomparable Value

Radio Tubes

Guaranteed Quality and Life

Silver King Guaranteed Radio Tubes are the highest type of tubes on the market. They are absolutely guaranteed to give perfect service under all conditions. Fine, clean looking tubes, put up in attractive cartons pleasing to the eye and attractive to the visitor in your place of business. A "square deal" tube that will make money for you, make customers for you and bring you a reputation that will mean increased business for you.

Better Tone—More Power

Superior tone quality is built into every Silver King tube. Careful workmanship at every step of manufacture insures superior reproduction qualities. Increased power is assured because every specification in every tube is developed to the highest point of perfection yet attained. Get behind these tubes. They are sure to give satisfaction and be big money makers for you.

Silver King Tube Guarantee

We absolutely guarantee the Silver King Radio Tube to be equal or superior to any on the market and will replace any Silver King tube which does not give satisfactory service—you to be the sole judge. We further guarantee that all Silver King tubes will give a minimum of six months service except type 227, which type we guarantee to equal or surpass any other make of this type on the market. This means exactly what it says. Where bulb is broken or where filament is knowingly burnt out—these, of course, cannot be covered, but all other causes are positively protected under this iron-clad guarantee.



Type 201-A

Johnny on the Spot

A well-tried tube that holds an undisputed record for continuous service in most any capacity a tube can be used. Works very well as detector, amplifier or oscillator, and for low power transmitting it overdoes itself.

The most popular and universally used tube in existence. More of these are sold than all others put together. They keep right on selling in spite of the numerous newcomers in the field. This is because they may be used anywhere, by any one and they always work. Filament takes 5 volts, .25 amp., and the plate voltage is 22½ on up. Works with both batteries and power packs. AC may be used on the filament when functioning as audio amplifier.

2R1126—List, \$1.50. **59c**
Net

Type 201-B Low Amperage Tube

When six or more tubes are heated by a single storage battery the drain is rather heavy and constant recharging is necessary. To eliminate that objectionable feature this tube, which draws only ½ ampere, was developed. It is now possible to keep a storage battery in the pink of condition with a trickle charger, or run it twice as long before recharging, truly a gratifying feature, and one which will be speedily taken advantage of. Replace your tubes today and save the expense of recharging your battery so often.

Have same operating characteristics as type 201A and are interchangeable.

2R1127—List, \$3.00. **\$1.20**
Net

Type 200-A Detector Tube



No signals are heard unless the detector is capable of rectifying them. Any good tube will detect, but the best detector must be especially designed. The 200A is. It detects, and that it does perfectly. In design it is correctly proportioned, and instead of being highly evacuated it is filled with an inert gas. The tube is "soft" and very critical in adjustment. It cannot take a high plate voltage, and must have an individual filament rheostat. When once adjusted it walks circles around a 201A. Use a B battery with taps from 18 to 45 volts. Filament voltage, 5. Amperage, .25.

2R1125—List, \$4.00. **\$1.52**
Net

Type 226 AC Amplifier

For use in all AC circuits. Does not require external heater wires, therefore the tubes may be changed quickly, with no fuss or muss. Works equally well as radio frequency and audio frequency amplifier. Performance is way above the average in both of these, and we can well recommend these tubes to any one who wants an all electric receiver of the highest caliber, absolutely foolproof, and capable of giving exceptional results.

Filament voltage 1.5, amps. 1.05, plate voltage 90-180 DC. 2R1131—List, **95c**
\$2.25. Net

Type 227 AC Detector

Made to fit the new five prong socket, eliminating the extra terminals which make most AC tubes an abomination and prevent a quick change. This is a highly efficient detector and functions without hum or mush. For use in all AC sets. Heater voltage 2.5, A. C. Plate voltage, 90-180.

2R1132—List, \$4.00. **\$1.90**
Net

Type 199-A Dry Cell Tube



Popular for over four years, this tube still continues to be used with undiminished ardor. For localities where electric power is not available and dry cells must be used this tube gives maximum results with a minimum expense. Fil uses three dry cells. Plate 2½ to 60 volts. Detector, oscillator and amplifier. A good tube for that portable set.

2R1124—List, \$2.25. **89c**
Net

Type 120 Power Tube for Dry Cell Use

Often the owner of a dry cell powered receiver has a need for greater volume than is ordinarily possible. The addition of a 120 tube as a last stage audio amplifier will give almost once and a half as much volume, and an additional increase in pureness of tone and quality. Type 120 is interchangeable with type 199, the only difference being it takes a higher plate voltage and filament drain. Power consumed still far below a 201A.

2R1121—List, **95c**
\$2.50. Net

Sales Making Multi-colored Cartons

The eye is speedily attracted by a brilliant display of color, and when that display is your stock shelf—it means your goods are noticed.

Take advantage of that fact and stock Silver King tubes which not only make a pleasing first impression but give lasting service and keep the good will of your customers. Take advantage of our free meter offer and obtain a supply of these tubes and watch them sell. It means a handsome profit for you. Don't wait.



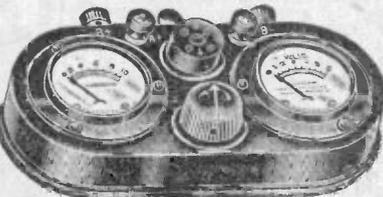
Silver King

Super Quality
Radio Tubes

Unequaled Values

You should sell Silver King Tubes at the full list prices. They are worth it. Notice our low net prices—figure your big profits on these high quality super power tubes. Silver King tubes will meet your demand for the very best; will satisfy your customers and make money for you.

Tube Checker Free!



With your first order for 50 Silver King tubes we will send you FREE one of these Readrite \$12.50 value Tube Checkers. Tests AC and DC tubes. With it you can convince yourself and your customer. This is an age of "SHOW ME!"—We want to show you the absolute uniformity of Silver King tubes and their high quality—then you can demonstrate to your customer. You will know what each tube should read and can show your customer that it reads right—then you can guarantee it to function right.

Make Up Your Own Order!

Order the tubes you need so that the total order is for fifty tubes or more. You can order any one type or as many different types—just so long as your total order amounts to one case (fifty tubes). Write on your order for these 50 tubes: "Include the Tube Checker Gratis" and it will be shipped with the case of tubes. We are sure of your repeat business and we are making this attractive offer to get your initial order. Every dealer should have a tube checker to help him to sell tubes by showing how they will function.

Order by Catalogue Number 2R1199.



Type 171A Power Amplifier

Now you may have a real power amplifier, for here is a tube that has a low current consuming filament, coupled with a most reliable performance and long life. Makes the best of amplifiers just a little bit better. Gives tremendous volume and a pureness of tone that is nothing short of marvelous. Filament requires 5 volts and only .25 ampere. Plate voltage—90 to 180. Grid bias of 4.5 to 45 volts.

2R1123—
List, \$2.75.
Net **\$1.19**

Type 112A Power Amplifier

When a 171A is used as a last stage amplifier, this tube makes the best first stage amplifier. The combination is unbeatable. May be used as second stage amplifier when a 201A is used as first. Filament voltage, 5. Current consumed, .25 amp. Plate voltage, 90-150. Grid bias, 6 to 12 volts.

2R1120—
List, \$2.75.
Net **\$1.19**

Type 210 Power Amplifier

It takes a tube of this size to properly energize some of the largest of reproducers, especially the dynamic cone type. Gives sufficient volume to be uncomfortable at close range. Will easily fill a large hall. Takes a high plate voltage. Will not function properly on less than 300 volts, works best on 450 to 500 volts. A power pack must be provided to supply this potential. One using two type 281 tubes is recommended.

Also makes a capital transmitting tube for short wave code or phone work. Signals carry great distances with high audibility. Many amateur stations are using this type of tube for sending.

As an amplifier the functioning is nearly perfect. It amplifies music and voice with a minimum of distortion, carrying all the harmonics and overtones.

Filament supply 7.5 volts AC. Grid bias 20-80 volts.

2R1128—List, \$9.00.
Net **\$3.55**

See pages 88 and 89 of this catalog for the best to be had in power amplifiers and parts to build them.



Type 222 Shielded Grid Amplifier

The full possibilities of radio frequency amplification are now for the first time being realized. There is much yet to be learned. By employing the shielded grid tube, amplification to a degree never till now dreamed of is possible. It is so remarkably sensitive it must be enclosed in a metal shield to prevent the capacity interfering with the incoming signal and to prevent intercoupling between the circuits. Truly a most remarkable piece of mechanism. All the parts needed for building a shielded grid amplifier are listed in this catalog. The owner of such a set may well swell his chest in pride, for he has the best. Do not lag behind, build one and be one jump ahead of the crowd. Full directions come with each tube.

Type 222 AC. For AC only.
2R1130—List, \$8.00.
Net **\$3.04**

Type 222. For DC only.
2R1129—List, \$6.50.
Net **\$2.47**

Type 240 High Mu Tube

Resistance coupled amplification is a big success with the high-mu tube. This tube is designed particularly for this specific purpose, and for that it is supreme. All the parts needed in the construction of a resistance coupled amplifier are listed elsewhere in this catalog. For pureness of tone it cannot be equaled. Build one and be contented. Fil. 5v. 25 amp. Plate voltage 90-150. Use grid bias specified by makers of resistance.

2R1133—List, **76c**
Net \$2.00.

Type 280 Full Wave Rectifier

This tube will supply plate current from the light socket to any receiver of ten tubes or less. Very economical in performance and remarkably long lived. Must be used in a suitable power pack. Only one required. Fil. 5 volts AC, input 400 volts AC, output 325 volts DC.

2R1135
List, 34.25.
Net **\$1.80**

Type 250 Super Power Amp.

A whale of a tube for the man who is satisfied with nothing less than the most powerful. Larger and more powerful than the 210. Draws more power and gives a corresponding greater output. Tone quality is perfect, volume deafening, and performance most gratifying. Too large for home use. Recommended for concert or outdoor performance. Will take a plate voltage of 700.

2R1134—List, \$11.00.
Net **\$4.70**

Type 281 Half Wave Rectifier

Two of these tubes in conjunction with a suitable power pack will supply all the Direct Current one could possibly use on the largest receiver made. Filament 7.5 volts. Input 700 volts AC, output 500 volts DC.

2R1136—List, \$7.50.
Net **\$2.85**



All Prices Quoted Are Net—There Are No Further Discounts



SONATRON



The Sonatron label is your assurance of STANDARD QUALITY, PERFORMANCE and DEPENDABILITY.

Every Sonatron radio tube has this label. It is your guide to the "World's Largest Radio Tube Line."

The World's Largest Radio Tube Line



Dry Cell Tubes Type 12

Amplifier and Detector
Fil. volt 1½; Fil. amps. .25; Plate volt 22½ to 90.
2R1027—List, \$2.50.
Net, each **\$1.23**



Shielded Grid Tubes! Types 222 AC and 222 DC

Less than a year old, this marvelous tube has surprised the world by the tremendous advance it made in radio frequency amplification. It will magnify sounds to a degree never before known. By using one or two of these Shielded Grid Tubes in a specially designed circuit one may have a receiver which will prove a constant source of delight. Also useful in audio amplification, where results nearly equal to those in radio frequency amplification are obtained. The full possibilities of this tube have not yet been realized. There is much yet to discover. Full instructions with each tube.

2R844—For AC. List, \$7.00. Net..... **\$4.12**
2R811—For DC. List, \$6.50.
Net **\$3.72**

A Super Detector, Type 200A

Power Detector
For greater volume, for distant stations, use this Power Detector in the detector socket, only, of storage battery sets. No rewiring is necessary on either old or new sets. Fil. volts 5; Fil. amps. .25; Plate volts 22½ to 45.
2R908—List, \$4.00
Net, each **\$1.96**



Type 199
Amplifier and Detector
Fil. volts 3; Fil. amps. .06; Plate voltage 22½ to 90; "C" Battery volts 1.5 to 4.5. Short prongs.
2R1003—List, \$2.25. Net **\$1.11**

Type X199
This type of tube has the same specifications as Type 199, but it has the new X base (long prongs).
2R1004—List, \$2.25. Net, each... **\$1.11**

Type 199A
Power Amplifier
Identical specifications as Type 199 but equipped with the standard base.
2R1026—List, \$2.25. Net, each... **\$1.11**

Type 120
Power Amplifier
This tube is used in dry cell battery sets in the last stage of an audio frequency. It produces great volume without distortion. Fil. volts 3; Fil. amps. .125; Plate volts 135; "C" Battery volts 22.5.
2R1005—List, \$2.25. Net, each... **\$1.23**

The Popular 201A Type Detector and Amplifier

An all purpose tube, universally used in storage battery and socket power sets. Operates as detector, radio frequency amplifier, and audio frequency amplifier. As a detector it is quiet in operation and does not require critical adjustment. The high input impedance and high mutual conductance make it especially valuable in the radio frequency stages. The comparatively low output impedance of the tube guarantees excellent results when used as an audio frequency amplifier.

With proper plate voltage and the required grid bias (C Battery), it will give good results as a power amplifier or output tube.
Fil. volts, 5; Fil. amps. .25; Plate voltage, 22½ to 180. C Battery volts, 1.5 to 13.
2R813—List, \$1.50. Net **73c**

Type 201B Low Amperage Tube
Possesses the same characteristics as the 201-A, with one exception. The filament current is only ¼ amp. instead of ½, causing less drain on the batteries and thereby less cost of maintenance.
2R818—List, \$3.00. Net **\$1.76**



Rectifying Tube Type SH85

A gas-filled tube which may be used in any of the no-flament eliminators. Output 85 mils. at 300 volts.
2R960—List, \$4.50.
Net **\$2.20**



Type X280

A Full Wave rectifier tube for use in all eliminators and power packs calling for tube of this type. Is also used in place of Type 213B. Fil. 7.5 volts, 1.5 amps. AC plate voltage 750 volts. Output 500 volts at 1.5 mils.
2R964—List, \$4.25. Net **\$2.09**

Type X-281, Half Wave Rectifier

The most powerful eliminators require two half-wave tubes to give the required amperage current. Also used in place of Type 216B. For power packs of that nature the type X-281 is used. It has a very long life. Fil. 7.5 volts. Output 8 watts per tube. 500 volts maximum.
2R963—List, \$7.50. Net **\$3.68**

Alternating Current Tubes Type X-226 AC Amplifier

For use in radio or trans. coupled A. F. amplification. Should not be used in detector or last audio. Fil. volts 1.5 AC; Fil. amps. 1.05; Plate voltage 90 to 180 DC.
2R1029—List, \$2.25.
Net, each **\$1.11**

Type Y-227 AC Detector and Amplifier

(Fits new 5 prong socket only.) May be used as detector or audio and R. F. Heater voltage 2.5; heater amperes 1.75; plate voltage 90 to 180 DC.
2R1030—List, \$4.00. Net ... **\$1.96**



Type X-401 AC All Purpose Tube

Acts as a R. F. amplifier, detector, A. F. amplifier and oscillator. Works in all sets requiring Kellogg type AC tubes. Fil. voltage 3; Fil. amps. 1.05; Plate voltage 12 to 135; "C" voltage 3 to 8.
2R1028—List, \$5.00.
Net **\$3.19**

to 135; "C" voltage 3 to 8.
2R1028—List, \$5.00.
Net **\$3.19**



POWER TUBES

Type 171A

Power Amplifier
Used in any storage battery and socket power receiving set with hook-up for power tube in last stage of audio frequency. Fil. volts 5; Fil. amps. .25; Plate volts (min.) 90; Plate volts (max.) 180.
2R909—List, \$2.75. Net, each **\$1.35**

Type 171 AC

A brand new power tube designed for use with the new AC sets as a last stage amplifier only. Longer life, greater volume and clarity. Plate voltage 90-180.
2R949
List, \$4.50. Net **\$2.20**

Type 112A

Power Amplifier
Gives greater volume and distance. Fil. volts 5; Fil. amps. .5; Plate volts 22.5 to 157; "C" Battery voltage 6 to 10.5.
2R913—List, \$2.75. Net, each **\$1.35**

Type 210

Oscillator and Amplifier
Recommended for heavy duty loud speakers, with plate voltages ranging up to 425 volts. Can be used for amateur transmission. As Amplifier: Fil. volts, 6 to 7.5; Fil. amps. 1.25; Plate volts (max.) 425; Neg. "C" battery 4.5 to 35. As Oscillator: Fil. volts 7.5; Fil. amps. .25; Plate amps. .00; Plate volts 350.
2R1002—List \$9.00. Net ... **\$4.41**

Type 250 Super Power Amplifier

A new power tube which is at present the most powerful on the market. Gives greater volume and a correspondingly finer tone. Fil. 7.5 volts, 1.25 amps. Amplifier voltage 250 to 450. C bias 45 to 84 volts. Amplifier plate current, 10 to 18 milliamps.
2R812—List, \$11.00. Net..... **\$6.47**





Vitarox Rectifier

Full Wave—Type 280
LIST \$4.25
\$1.69 Net

No. 2R827

The growing popularity of power packs reveals the economy of power obtained from light sockets over that from batteries. It has created an unusual demand for high grade, dependable rectifying tubes. Vitarox full wave rectifier type 280 meets every requirement of this type tube. Our new absolute rock bottom price is the lowest ever quoted for a tube that will meet every demand made upon it. And they're all first quality, factory tested—every one of them.

VITAROX Spells Profit for You

They fit all power packs which require a type 280. Put them in every power pack you sell. Sell them to your customers at a bargain price and still make a handsome profit yourself.

Will handle a set of seven ¼ amp. tubes and one 171 power tube. Tube is really a combination of 2 tubes in one class—one filament with two different plates to give full wave rectification and a supply in stock to meet the demand which this low price is bound to create.

Interchanges with types 213. Filament voltage, 5 volts; Current, 2 amps.; AC plate voltage (maximum), 500 volts; DC output (max.), 125 Mils.
2R827—List, \$4.50. Net..... \$1.69

Carter Tube Adapters

For 171-A and 112-A. Marked terminals on flexible leads for adapting these tubes to a standard receiver without having to rewire. Shpg. wt., 6 oz.
3R858—List, \$1.00. Net..... \$0.59c



227 Tube Adapter



Has flexible leads for connecting heater element of tube to transformer. DC filament wires of set are left unused. Both connected to cathode of tube. Plate and grid connections left unchanged. Shpg. wt., 6 oz.
3R860—List, \$1.10. Net..... 65c

226 Tube Adapter

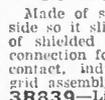
Permits using 4 prong AC tubes in standard sockets without rewiring receiver. Flexible terminal wires on adapter for connection to filament heating transformer. Plate and grid wires remain unchanged. DC wires unused in filament circuit. Need not be removed. Shpg. wt., 6 oz.
3R861—List, 90c. Net..... 53c

Shields for 222 Type Tubes



Shields tube and forms a complete housing from top to subpanel without holes or insets. Fits snugly around surface mounting socket, or subpanel socket. Takes the adapter ring listed below. Connecting wire completely shielded. Screw cap gives access to terminal. One piece of copper, bronze finished. Shpg. wt., 8 oz.
2R806—List, \$1.50. Net..... 88c

Connector Cap



Made of spring brass, slotted on side so it slips firmly over terminal of shielded grid tube. Has screw connection for wire. Makes positive contact, indispensable in a shield grid assembly.
3R839—List, 25c. Net..... 15c



Shielded Connector Wire with Cap

Consists of a wire encased in a shield firmly fastened to a connector cap. Low capacity between wire and shield gives maximum results and high amplification.
3R822—List, 50c. Net..... 29c

Carter Adapter Ring



Required to fit Carter tube shields into assemblies where subpanel sockets are used. Fits snugly around socket; fastens securely to subpanel by screws furnished. Prevents microphonic noises. Made of Bakelite.
3R823
List, 35c Net, 21c

Radio's Greatest Tube Bargain

A Guaranteed First Quality Perfect 201A Tube

2R825

YOUR NET PRICE

Regular Retail Price \$1.50

39c



Vitarox tubes are made in one of the finest and most dependable tube factories in the world. The result of years of electrical and radio engineering research and findings are centered in these tubes. Everything known to radio science for the construction of a real, honest-to-goodness radio tube has been taken advantage of in the making of this wonder-bargain tube.

This unheard of low price for standard merchandise is again made possible by our ability to contract for enormous quantities in the dull part of the season. It's a real pleasure to be able to pass this saving on to our customers.

Good tubes mean good reception. It will be easy to get your customers to replace their old worn out tubes with a set of these fresh, full of life tubes—every one of which is a factory tested "first." And there is a real profit in it for you. Use Vitarox tubes in your own set and let them speak for themselves.

Special Vitarox construction completely eliminates microphonic noises. Patented filament assures long life and splendid service. Requires .25 filament current. Plate voltage of 22 to 90 volts, depending upon the use to which the tube is put. Amplifiers should use 90 volts and detectors 22 to 45 volts.

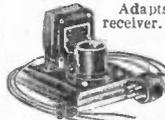
Vitarox Shielded Grid Tubes



These tubes are a radical departure in tube design as well as characteristics. They have filament, grid, and plate, and a second grid placed between the control grid and the plate and also extending around the outside of the plate so as to completely shield the control grid from the plate. The second grid acts as an electrostatic shield between the control grid and the plate, thereby reducing the capacity between these elements to a negligible quantity. This effectively eliminates the principal cause of disturbing oscillations in tuned radio frequency circuits.

This tube fits the standard X type base.
2R900—Type 122 Shielded Grid Tubes. List, \$6.50. Net, Each..... \$2.86

Na-Aid 172 Protectoral



Adapts power tube to ordinary receiver. No change in connections nor other alterations. Simply plug in last audio stage; makes all connections externally on the cables provided. No danger of burning out speaker—output transformer,

part of the unit, keeps all dangerous current from windings. Acts as tone filter, giving excellent quality and a great increase in volume. May be used with either a 171 or 210 tube. The new 250 will work with proper voltages. Protectoral fits nicely inside the cabinet or console, out of sight. No need to change the DC wiring of set. Shpg. wt., 3 lbs.
3R838—List, \$6.50. Net..... \$3.82

Na-Aid Shielded Grid Adapter



Designed for fitting a type 222 tube to a battery operated receiver. While such a rearrangement will not enable the tube to operate at maximum efficiency, still it will greatly improve results. Consists of a shield for the tube, base, connecting wires and a shielded lead. Fits all radio frequency receivers, making them into shielded grid amplifiers of the latest and most popular type. Shpg. wt., 2 lbs.
3R832—List, \$3.00. Net..... \$1.77

Oscillation Control Adapter



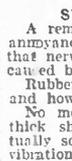
Anyone who has a set that howls and squeals should purchase this adapter. It has a small slot in the base through which a fixed resistance is inserted, in series with the grid lead. This effectively retards all undue oscillations and greatly increases the efficiency. Equipped with 700 ohm resistor.
3R833—List, \$1.25. Net..... 73c

Tube Adapters

It is often desirable to use a small size tube in standard base sockets, and for this purpose this adapter is used.
3R814—For 1A9 tubes. Net..... 28c
3R815—For WD11 tubes. Net..... 42c
3R816—For UX199 to UV201-A. Net..... 17c



McDonald Howl Arrester



STOPS THE HOWLS
A remedy for one of the biggest annoyances of the radio industry—that nerve-racking howling of tubes caused by microphonic vibrations! Rubber jacket slips over a tube and howl stops.

No more ruined reception. The thick shield of live rubber effectually soaks up the trouble-making vibration.

3R842—For 201A size tubes.
3R843—For 199 size tubes.
Retail Price, each, 75c.
Your Net Cost, each..... **44c**

No-Phonic Tube Cap



Have you ever wished that you could cut out that awful ringing and howling sometimes caused by the detector tube? Try a No-Phonic Tube Cap—simply place it over the top of the detector tube and note how the noise stops. The weight and special construction of the No-Phonic is what does the work. Microphonic noises are caused by mechanical vibrations which shake the tube.

The No-Phonic is die cast of heavy alloy metal which gives it the necessary weight to prevent the tube from responding to outside influences. For standard Type Tubes. Shpg. wt., 8 ounces.
3R817—List, each, 25c. Net..... 12c

ABOX SPECIAL

Sensational Low Price

A Real Value

Provides perfectly smooth "A" supply current direct from 110-volt, 60-cycle house circuit. The foremost engineering advance in rectification of AC current for use in the "A" circuit of radio receivers. Not a battery charger combination, but a new principle of rectification through a high capacity condenser.

NO TUBES—NO HUM

The Abox is a complete, self-contained unit. No tubes to burn out or deteriorate. Freedom from hum is a most desirable feature. Perfectly quiet reception is assured.

No Batteries—No Noise

As the Abox contains no batteries, it cannot run down. It is always on the job when the power is turned on. Being a complete unit in itself, no accessories are required for its operation. Battery noises commonly blamed on static from run down batteries are entirely eliminated by the Abox. It offers you perfectly quiet, hum free A current supply. Can be quickly installed by anyone without making any changes whatsoever in the set. Requires absolutely no attention or adjustments in operation. Automatically compensates for line voltage fluctuations.

Greatest

"Abox"

Value!

We are positive no such value has ever been offered in a high grade "A" unit. It gives our dealers the opportunity to undersell any competition on a quality basis and still make an extra wide margin of profit. Current for ten 201A tubes or equivalent. Shipping wt., 20 lbs. **2R5270—List, \$32.50. Your Low Net Cost**

Well Advertised!

Nationally Known!

A Real Profit Maker!

\$15⁷⁵
NET



Dependable— Constant "A" Supply

It can be depended upon for years of constant unflinching service. Output of 2½ amperes at 6 volts is steady, dependable and free from hum. Adaptable to all sets using 201A or similar types of five volt DC tubes. In connection with a B eliminator it completely electrifies your set and assures you constant, uninterrupted reception.

New Type "A" Box Eliminates "A" Batteries

\$20⁵⁸
NET

2R5271 List, \$32.50

6-Volt "ABOX" AC Converter

A new and improved device that converts a set using ordinary tubes into an electric set. Instead of using stepped-down raw alternating current to light the filaments of radio tubes, the "ABOX" removes the ripples and delivers smooth direct current so that the ordinary 201A tube can be operated from the AC.



Not a Battery

The "ABOX" Converter consists of a rectifier and a filter. It converts ordinary house lighting current to a current suitable for lighting your radio tubes, and does it without the slightest hum. The "ABOX" works only when the set is in operation and it does not store up current like a storage battery. For reliability and smooth operation a heavy duty electrolytic rectifier is used, creating a steady, non-fluctuating current. Its long life and low cost make it doubly economical.

No Changes in Tubes or Set Wiring

Requires absolutely no changes in the set. No re-wiring of any kind. The extra heavy transformer is sealed in a high grade compound and completely enclosed in a metal shield which confines the field so that the transformer cannot interfere with the operation of the most sensitive set. Mechanical noises are entirely eliminated. The filter system is of the most perfect type. The entire unit is exceptionally rugged. Transformer breakdowns are almost unheard of. Converts 50-60 cycle AC to 6-volt direct current. "ABOX" and any "B" unit attached to your set will give you the convenience of electric operation and marvelously improved reception.

Always Ready

Requires only a few minutes for connecting up. Once installed, it needs no further attention in any way. A trouble-proof, constant source of "A" power supply that will last as long as the set, and never fail to deliver uniform results. **2R5271—Ship. wt., 22 lbs. List Price, \$35.00. Net... \$20.58**

The New Balkite Line Balkite "B" (Dry) Model T

This eliminator uses the new Balkite filter condensers and a UX 280 tube or its equivalent for rectifying. Has an output of 30 mils. at 157½ volts. Does not use electrolyte, and is positively humless. Can also be used to operate 110-V. Dynamic speakers. Operates from 110-120 Volt, 60 cycles. AC. Size 4½x3¼x8½ inches. Ship. wt., 16 lbs. **3R5029—Without tube, List, \$28.00. Net, \$16.46**



Balkite "B", Model E

This eliminator also utilizes the new Balkite filter condensers, but uses electrolyte as a rectifier instead of a tube. The Balkite electrolytic rectifiers are nationally known for their quality and require no further recommendation. Output 30 mils. at 157½ volts. Size 4½x3¼x8½ inches. Operates from 110-120 volts AC, 60 cycles. Ship. wt., 15 lbs. **3R4997—List Price, \$32.00. Net... \$18.82**

Balkite AB Combination, Model G, (Dry)

Supplies both A and B current from the light socket. Contains no battery in any form. Operates only during reception. Very quiet. No accessories or adjustments needed. Will also operate 110-V. Dynamic speakers. Contains Balkite Dry "A," output 2 amps. at 6-V; 2½ amps. at 5 volts. Dry "B" uses UX 280 rectifying tube or its equal, output 30 mils. at 157½ V. Uses new Balkite filter condenser. 8x16x7 in. For 110-120 AC, 60 cycle. Ship. wt., 28 lbs. **3R4994—List Price, \$69.50. Net... \$40.87**



Balkite Model F (Dry)

Uses new Balkite rectifier unit, requiring no attention. Does not use a tube. Noiseless; can be used in operation. Charges .5 and .8 amps for all requirements. Can be used to supply field voltage for G-V. Dynamic speakers. Operates from 110-120 AC, 60 cycle. **3R4995—List, \$311.00. Net... \$6.47**

Balkite Model N (Electrolytic)

The standard type Balkite trickle charger. Charges .5 and .8 amps., for either heavy or moderate service requirements. Size 4½x7½x8½ inches. Operates from 110-120 AC, 60 cycles. Ship. wt., 8 lbs. **3R4996—List Price, \$9.50. Net... \$5.59**



KUPROX POWER PACKS FOR ALL SETS

No Bulbs • No Liquids • No Noise

AN ALL-ELECTRIC RECEIVER IS YOURS WITHOUT CHANGING A TUBE! A, B and C supply from the light socket. You can now make your battery set completely light socket operated without changing a single tube. Just disconnect the old batteries and attach this simple device.

Tube Rectifier for B and C Supply

All in one unit, with only one cord leading to the light socket. Terminals provide voltages for all requirements. Equipped with rheostats so that voltages may be varied slightly to meet individual characteristics of your particular receiver. Both A and BC units are assembled in a single frame and handled as one.

2R7722—Model 306 ABC for 8-tube receivers up to 8 tubes when power tube no larger than type 112 is used. 6-volt A;—B is 22½ to 45, 67½, 90 and 150 volts. C is 4 and 10 volts. Crackle green finish. Case type 230 tube. No tube furnished. Size 10½x7 inches. Ship. wt., 30 lbs. List. \$65.00. **\$38.22** Net

Direct Current to Filament

The newly perfected Kuprox Dry Rectifier is made to supply six volts of direct current, silent and smooth flowing, the equal of the most expensive battery made. This rectifier is a big saving to you because it requires no replacement of tubes, makes a battery charger obsolete; is free from acid danger, and is always ready to work without fail.

2R7722—Model 306 ABC for 8-tube receivers up to 8 tubes when power tube no larger than type 112 is used. 6-volt A;—B is 22½ to 45, 67½, 90 and 150 volts. C is 4 and 10 volts. Crackle green finish. Case type 230 tube. No tube furnished. Size 10½x7 inches. Ship. wt., 30 lbs. List. \$65.00. **\$38.22** Net

Kuprox 301A and 302A

POWER PACKS

2R7713

List \$35.00

\$20.58 Net



Take the place of a storage battery and supplies the filament with pure direct current, practically as smooth as supplied by storage battery. Absolutely reliable and inexpensive to operate. The heart of this rectifier is the Kuprox unit, a dry rectifier. It is unique in that it employs the physical properties of a metal which allows current to flow through it in one direction only. With the aid of a filter condenser and choke the few remaining pulsations are ironed out of the current. Plugs in light socket. Has extra cord for use with a B-C power pack. Tap switch for regulating the current fed the tubes. Housed in olive drab bakelite panel.

2R7713—For use on all 6 volt sets up to 8 tubes. Size, 7½x12½ inches. Ship. wt., 30 lbs. List. \$35.00. Net **\$20.58**

2R7714—For use on all sets using 10 or less type 110 tubes. Size, 6½x12½ inches. Ship. wt., 20 lbs. List. \$32.50. Net **\$19.11**

Net **\$19.11** Mfg. only.

Kuprox 361-B Supply



Operates all sizes and types of receivers up to 6-tube, including 171 power tube. Only one control to regulate output, the detector voltage rheostat. Once installed, requires no further attention. Supplies constant plate voltages specified; not affected by fluctuations of line voltages. Operating cost much less than in per hour. Case type 230 rectifier tube. Plate voltage taps 45, 90, 180 with controlling rheostat. No C or A voltages supplied. For 50-60 cycle current only. 110 volts. 4x11 7/8 in. No bulb included. Ship. wt., 13 lbs. **2R7712** List. \$26.50. Net **\$15.58**

Kuprox B-C Power Packs

For All Receivers
Model 310-BC
Model 316-BC



Kuprox BC Power Packs for All Receivers. Will supply plate and grid voltages to all receivers now on the market, including the new shielded grid sets. There are two sizes, the 310BC for sets using a maximum of 135 volts and the 316BC for the others that require 180 volts. Both will handle anything that a rectifying tube is used along with the proper filter condensers and chokes. Variable taps for obtaining the correct voltages. Both models in crackle green.

For Sets Using 112 Power Tube

2R7709—Model 310-BC, Plate supply 22 to 45, variable, 67½, 90, 135 volts. C bias 4 and 10 volts. Size, 5½x7x12½ inches. Ship. wt., 26 lbs. No tube included. List. \$33.00. Net **\$20.58**

For Sets Using 171 Power Tube

2R7711—Model 316-BC, Plate supply 22 to 45, variable, 67½, 90 and 150. C bias 4 and 10 volts. Size, 6½x7x12½ inches. Ship. wt., 26 lbs. No tube included. List. \$37.50. Net **\$22.05**

Both these models supplied for use on 50 to 60 cycle current only, 110 volts.

Westinghouse "A" Socket Power



in. high. Shipping weight, 40 pounds.

2R7737
Output, 6 Volts, from 110 Volt, 50-60 Cycle Current. Capacity at one ampere rate, 20. List, \$20.00. Net **\$11.76** EACH

2R7738
Same, except 4 Volt Output. List, \$20.00. Net **\$11.76** EACH

"A" Auto Power

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



2R7739 For 6 Volt Tubes from 110 volt 60 cycle current. List, \$25.00. Net **\$14.70**

2R7740 Deluxe Model with Automatic Relay Switch to control charging and "B" Eliminator current. List, \$35.00. Net **\$20.58** EACH



\$6.76 Net

Kuprox Multirate Rectifier

A dry rectifier. Charges radio batteries, operates dynamic speakers, time clocks, door bells, call systems, lights, telegraph and telephone systems, relays, electro-magnets, electroplating baths, and a thousand other uses calling for a low voltage, low amperage direct current. Supplies a low voltage direct current and may be used in place of storage batteries for practically all purposes except as a direct "A" power supply for radio set. When used for this purpose filter and choke are required in addition, or storage battery floated on line. Has a tapped transformer, giving 3 to 5 v. to 1 amp. **2R7708**—List, \$11.50.

Kuprox Charger Replacement Units for All Chargers

Replaces all other types of rectifying units, and its addition will bring any charger up to date. It is silent, trouble proof and lasts for years. No moving parts, no filament to burn out.

2R7702—Type A110 for use on all acid electrolyte trickle chargers, Baskie Type K, Silito, Nosta, etc. Specially designed electrolytic jar and throw in with case. List, \$5.00. Net **\$2.94**

2R7703—Type A111 for use on all alkali rectifiers, Philco Electrolytic, Gould, Union, Exide, Willard, Eagle, etc. Quickly and easily installed. Only two wires to connect. Gives slightly higher charging rate than the old electrolytic jar. List, \$5.00. Net **\$2.94**

2R7704—Type CR-1, for replacing Tunpar bulbs in all one ampere chargers, including O.E. Rectagon, Philco Socket Power, Willard Socket Power, Exide Socket Power and others. Not only does it replace the short lived Tunpar Bulb but it gives more efficient and economical rectification. Cannot be used for charging batteries of over six volts. List, \$5.00. Net **\$2.94**

2R7707—Type RG to replace all vibrating elements in the Homecharger, Valley, France, Sterling, Apex King Star and all the rest. A great improvement. No more being kept awake all night, no sparking, no burnouts, very economical in current consumed. No change in wiring. Charges at rate of one ampere. Weight all models, 1 pound. List, \$5.00. Net **\$2.94**



All Prices Quoted Are Net—There Are No Further Discounts

Barawik Dry "A" Power Special

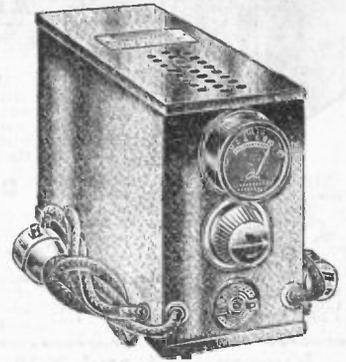
A PROVEN SUCCESS!

- handles up to ten ¼ amp. tubes or equivalent
- meter equipped for exact filament current control
- single switch controls A and B, input power and set operation
- simple—positive, dependable, long-lived, big value

High Capacity Condenser—Dry

The heart of this Dry A Unit is its dry electrostatic condenser made from foil and especially processed paper. This condenser is similar in its action to that used in the most successful A Power Units. Combined with chokes this condenser produces a filter circuit capable of filtering 4 amperes of current which is almost double the 2½ amperes required by eight tubes, including a 171 power tube. Since the filter circuit is never overtaxed, it not only insures a complete smoothing out of the AC but has abundant reserve power and long life.

On sets drawing up to a maximum of 2½ amperes this rectifier has a long record for high performance and stability. Months of continuous service and exhaustive tests have proved its performance in the Dry-A power circuit.



No Hum—Convenient Operation

The functioning of this A Power Unit makes no audible sound in the room, and neither does it make any hum or buzz through the medium of the radio set. It is vibrationless, contains no liquids, is odorless and reliable.

The handy pendant switch on extension cord permits filament switch to be left on permanently—filament, plate and AC input power—all are controlled from this push button switch. The Dri-A operates in any position. Nothing to spill, no filament to sag. It is smaller, lighter and needs no servicing. It fits into practically any console and is attractive for external location. Reliable, convenient, foolproof and lasting. Operates from 115 volt, 60 cycle AC. Size: 4x10½x7. Shipping weight, 20 pounds. 2R5259—List Price, \$39.50. Your Net Cost..... **\$17.85**

Set Builders

Can Make Money on This Proven Product Your Special Price

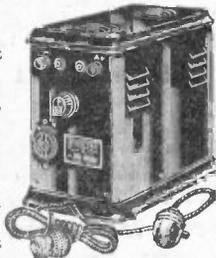
\$17.85

Visible Regulation of Current

A reliable voltmeter and rheostat. Actually measures and controls the filament supply delivered to the set. In localities where AC line voltage falls below normal, thus affecting the filament supply, a glance at the meter will detect the drop instantly, and readjustment of the rheostat immediately restores the meter reading to show that full voltage is being delivered to the filaments of all tubes. Rheostat regulation permits tubes of any voltage to be used.

Webster Bone-Dri A Unit

The Bone-Dri is a compact power supply giving 2½ amps. at 6 volts. Variable resistance for line fluctuations. Plug receptacle for "B" eliminator. Elkon rectifier and condensers are used. The Bone-Dri has entirely solved the demand for efficient Dry "A" power supply. Experience of thousands of users insure owner against service grief. Requires no attention, will last for years. Size 10½x8¾x11½ inches. Shipping weight, 27 pounds. 2R5248—List, \$35.00. Net..... **\$20.58**



Sterling B and B-C Socket Power Supply

Sterling B Power Supply for 3 to 8 Tube Sets

For use on all sets of not over eight tubes that have external connections for a "C" battery. If one is used or for "B" supply only. Uses a BH Raytheon rectifying tube. Both detector and amplifier voltages are variable through a wide range, insuring positive operation under all circumstances. Delivers a maximum of 180 volts, 75 mls. On and off switch in power line. Operates from 110 volt, 60 cycle alternating current only. Size 7½x4½x3½ inches. Ship. wt., 12 lbs.

2R5239
Complete with tube.
List, \$28.50.

\$16.76
Net



Sterling Universal B-C Power Supply

Will handle any set that does not require more than 100 mls. at 180 volts. That is the equivalent of a ten-tube super with a power amplifier. Both detector and radio frequency amplifier voltages are continuously variable by means of rheostats, while the primary current is also variable to compensate for line fluctuations. Uses a Type BH Raytheon tube. Absolutely silent in operation. Small enough to fit in the "B" battery compartment. Does not heat and is very economical in power consumed. A tap of 40 volts is provided as "C" bias for the power amplifier. A switch with on and off positions controls the power line. Size 4½x11½x8 inches. Complete with Type BH Raytheon tube. Shipping weight, 20 pounds.

2R5241
List, \$38.00.

\$22.34
Net



Sterling Dri-A Power 6-Volt "A" Socket Power

2R5249
List \$39.50

\$23.23
Net



Delivers maximum of 2½ amperes (enough for sets using up to 10½ amp. tubes). Suitable for tubes of any voltage filament. The heart of this excellent unit is its dry electrostatic condenser which, combined with chokes, produces a filter circuit capable of filtering 4 amperes of current. Newest type of dry rectifying unit eliminates costly and fragile bulbs and gives months of continuous service. Power controlled by pendant switch; receptacle for "B" supply. Absolutely quiet. Smooth, reliable power. Rheostat controls filament voltage; built-in meter determines current. Lighter than battery or wet A-power; fits into same space as storage battery. Size 4x10½x7 inches. Ship. wt., 23½ lbs. For 110 volt, 60 cycle. 2R5249—List, \$39.50. Net... **\$23.23**

Sterling B Power Supply for 2 to 5 Tube Sets

Suited for any receiver of the Radiola class and all others that do not employ more than one power tube with a maximum of five. Uses a type 280 full wave rectifying tube. Maximum capacity is 25 mls. at 130 volts. Both detector and amplifier voltages are variable and one may obtain exactly the voltage at which his set functions best. Due to the very small size it will fit into the battery compartment of a Radiola type receiver, or inside the cabinet of many others. Does not occupy as much space as is usually allotted to "B" batteries. Size over all 7½x4½x3½ inches. Weighs but 12 pounds. Gives greater output than any other "B" power supply anywhere near its size. Operates from 110 volts, 60 cycles only.

2R5242
Complete with tube.
List, \$27.00.

\$15.59
Net



Barawik Special "B" Supply

For Sets up to 8 Tubes
Uses Raytheon Type BH Tube

Special "B" Power Supply



The big demand for units for converting battery operated sets into sets operated from the light socket has created a broad field for additional sales and profits. These units will prove especially popular, as it is not necessary to re-wire sets or make any other changes.

This special "B" Supply Unit is unquestionably one of the biggest dollar-for-dollar values in the field. Never before have we been able to assure you such trouble-free operation, such satisfactory performance, or such constant, permanent dependability at such a moderate price.

Here is a "B" unit that deserves first place in any dealer's stock; a unit that will never fail to give completely satisfactory service. It requires no attention after it is once installed. Will not get out of order and will serve you continuously without fail.

BIG VALUE!

Here is the big value in the "B" eliminator and Power Supply field. Intended to retail for \$24.00 and worth every dollar of the price. Our extremely low net price will permit you to make an extra long profit. By placing a tremendously large order early in the season we were able to make a deal that makes it possible to quote a price which we believe cannot be duplicated. Every ounce of material is of the finest grade, and the construction is based on the most advanced radio-electric engineering principles. It meets every demand for socket power operation.

2R525B—Price without tube.
List, \$24.00. Net **\$11.95**

2R5260—Including Raytheon
BH tube. List, \$28.50. Net..... **\$14.60**

Variable Voltage Control

This model will work well on practically all sets in which the "C" voltage is supplied from a battery. It will also operate as many as 8 large tubes, drawing up to 60 milliamperes, including a power tube in well-built sets when properly grid biased. Maximum voltage is 180 volts, enough for the 112, 1T1 and 210 power tubes. It uses the BH Raytheon tube, and is equipped with "on" and "off" control switch.

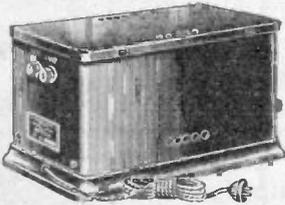
Both amplifier and detector voltages are variable, and an additional primary control regulates all voltages proportionately. Operates from 105 to 115 volt 60 cycle AC. Size, 7 $\frac{1}{2}$ x4 $\frac{1}{2}$ x5 $\frac{1}{2}$. Shipping weight, 15 pounds.

Up to 180 Volts—No Hum

Operates 8 tubes, including one power tube up to 180 volts. Efficient filter circuit prevents hum—very quiet operation. Binding posts plainly marked. Three regulators vary voltage for best operation.

\$11.95
NET
Without Tube

WEBSTER RELIABLE "B"



The Reliable "B" is a quiet, economical "B" battery eliminator. It has two variable controls—detector and amplifier, with an extra power tube tap, supplying 135 to 180 volts, and blading posts for negative "B," detector, amplifier and power.

It can be arranged to deliver current values for detector, 67 $\frac{1}{2}$ volts, through an extra Clarostat, 90 volts and 135 volts, or any other combination up to 180 volts. These are ample "B" voltages for the most powerful receivers. Fully adjustable to meet the requirements of any set. Uses Raytheon tube rectification. Size, 6 $\frac{1}{2}$ x11 $\frac{1}{2}$ x6 inches high. Ship. wt., 16 lbs.

2R5250—List Price, less tube, **\$10.88**
\$18.50. Net Price **\$13.53**
2R5256—Net Price, with tube **\$13.53**

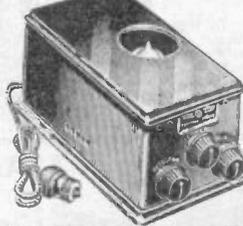
KINGSTON "B" ELIMINATOR

Readily adaptable to any set, providing three variable taps. A NY desired voltage from 5 to 150 can be secured. User can adjust to best reception for his particular set. Once adjusted, no further attention is required. For any set up to ten 201A tubes or equivalent. Absolutely quiet; no hum, distortion or vibration. Raytheon full wave tube used as rectifier. Recessed switch. Size 9x5 $\frac{1}{2}$ x3 $\frac{1}{4}$ inches high. Shipping weight, 50 pounds.

2R5279—Type 2A for 110 to 120 volt with tube, 60 cycle AC. List, **\$24.99**
\$42.50. Net **\$24.99**

2R5280—Type 2C with tube for 110 to 120 volt AC 25 or 30 cycles. List, **\$27.93**
\$47.50. Net **\$27.93**

WEBSTER SUPER "B"



The Webster Super "B," designed for use with Raytheon tube, delivers, under normal load, 75 to 180 volts on the power tube tap. Three variable controls—detector, amplifier and power. Four binding posts, for negative "B," detector, power and amplifier. To meet the requirements of any set drawing up to 60 milliamperes, with five tubes or more, with the power tube in the last audio stage, the Webster "B" stands unequalled. Smooth, positive power, adjustable to the exact needs for best reception. 6x8 $\frac{1}{2}$ x11 $\frac{1}{2}$. Shipping weight, 19 pounds.

2R5261—With Raytheon BH tube. Net..... **\$16.76**

2R5261
List Price,
Less Tube,
\$24.00.

\$14.11
NET

PIONEER SPECIAL A-B COMBINATION

A Complete Battery Eliminator

A reliable efficient instrument that does away entirely with the battery problem. Connects direct to the light socket, delivering smooth, silent power to your radio set.

The "A" Unit, which supplies the filament current to the tubes, requires no attention other than filling with water once each hundred hours of operation. It works on the electrolytic principle, a combined rectifier and condenser immersed in an alkaline solution. There are no moving parts or delicate adjustments, and with proper care it will last a life time. Shipped dry. Simply fill with clear water and it is ready for service. Contains no battery or relay. Functions only when power is turned on from the light socket. Taps to compensate for fluctuations of the line voltage and the difference in drain of large and small sets. 6 volts DC output at 2.5 amperes.

No Rectifying Units; No Relays

The "B" Unit uses a type BH raytheon tube. Variable detector and amplifier voltages, with a primary rheostat for initial adjustment. Steady, silent power, just like a battery, only the supply never drops or polarizes. Designed to withstand a heavy overload. Normal current drain 60 mils. at 180 volts. This is enough for the average 8-tube receiver using one power tube.

The A-B combination requires but a single connection to the power line. No lag or heating period. Responds instantly. No need to change a single wire in your receiver. Works on any set designed for batteries. Simply remove the worn out batteries and connect the eliminator in their place. Nothing could be simpler. Requires very little attention. Adjust once and forget. Add water when needed. That is all. For any set using 3 to 8 tubes. 110 volt 60 cycle current only.



Makes any set a power operated one, without changes, re-wiring, or buying an expensive set of AC tubes. A complete power unit that is both satisfactory and economical. Ship. wt., 40 lbs.

2R5252

Complete with tube

\$29.95
NET
List, \$65.00.

Our Big "B" Special Value

Quality—Priced Right Pioneer "B-C" Super Power—Super Quality —Super Value

We believe it to be the very best B and C Battery Eliminator or B and C Power Supply ever made. Built by one of the leading Power Supply makers. Every part the very best quality. Condensers, transformers, chokes, of finest materials, big, husky oversize, with wide margins of safety, to assure constant, reliable power for years to come.

Hum-Free—Constant

Delivers smooth current supply without a ripple, without hum. Superior reception is always assured. Constant voltage with plenty of amperage whenever you turn on the switch. A perfect device for electrifying sets originally designed for B batteries or as an original B power supply for any type of standard radio Receiver.

Operates Any Set

Will operate any radio set using up to 100 milliamperes—which includes all ordinary sets up to 14 tubes—without hum. Maximum voltage is 130 volts. "C" voltage 40 volts. Independent and variable voltage regulation is provided for both Detector and R. F. A primary voltage control inside the case regulates Audio Frequency and Power voltages and at the same time varies all other voltages proportionately so that the tubes will not be overloaded when the unit is applied to set where moderate "B" and "C" voltages are needed. It is equipped with "on" and "off" switch, and uses type B H Raytheon tube. Perfect voltage control, easily adapting unit to requirements of any set or circuit. Most convenient regulating arrangement. Output is permanent and constant. Shipping weight, 20 pounds. Size 4½x11½x6 inches. Operates from 115 volts, 60 cycle AC.



Note
High and
Low
Voltage
Adjustments

Proper Design— Superior Workmanship

Some of the very best engineers in Radio developed this unit. Built into it all their experience and the experience of thousands of others trying to develop a superior current supply. Practically electrically perfect, with most approved mechanical arrangement and the very best workmanship of skilled workers. Enclosed in formed steel case, nicely finished.

Big Value

In this B Eliminator you get a big, husky, oversize unit, with power enough to supply B and C current for any radio set. Dependable—smooth power, without a ripple. Every part—condensers, transformers, chokes—designed with wide safety margin, assuring you of dependable service for years.

2R5257—Pioneer B-C Super Power Supply without tube. List Price, \$33.50. Net..... **\$15.95**

2R831—Raytheon B H Tube. List Price, \$4.50. Net..... **\$2.65**

\$15⁹⁵
Net

Pioneer "A-B" Socket Power Team

2R5237
List Price \$68.00

\$32⁴⁵
NET

Complete with Raytheon Tube

This is a combination of our super-excellent Pioneer Dry "A" and our Pioneer Special Dry "B." Converts any set designed for battery operation up to 10-1/2 Amp. tubes into an electrically operated set. All operated by one switch. No set rewiring or replacement of tubes necessary.

Our price for this combination is extremely low for smooth constant reception, free from all hum or other rectifier noises. We know this Team will win.

Pioneer A-B-C Power Supply

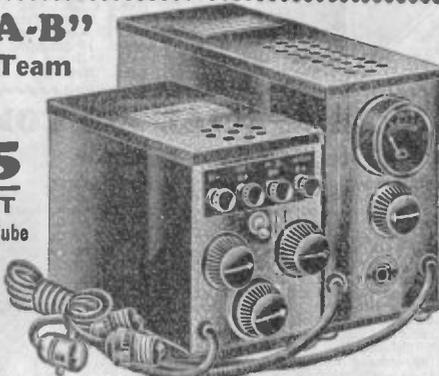
Undoubtedly the finest "A-B-C" power supply to be had at any price—one that will meet the expectations of the most exacting radio fan. Consists of our very fine Pioneer Dry "A" and the famous Pioneer "B-C" super power described on this page. This combination has single power to take care of any DC set using up to 100 milliamperes and requiring up to 180 volts. The whole set operates from one switch—without hum or other rectifying noises. Our special low price includes Raytheon tube—there is nothing else to buy. Get this "A-B-C" super-power combination and get the kind of power that will assure the finest reception to be had from your set.

2R5236
List Price, \$77.50

\$36⁴⁵

NET

Complete with
Raytheon Tube



Acme "B" Power Supply

Voltage control through a rheostat in the primary is a distinctive feature. Fixed resistances used in output circuits, providing simple control so detector and RF voltages can be changed as wanted. Five taps: Detector plus, 35-45 volts; RF 20 volts; A. F. 135 volts; last A. F. 180 volts and B negative. Very attractive case finished in tan lacquer. Uses Raytheon type rectifier tube and will supply up to 180 volts for sets of eight tubes or less. Dimensions: 3½x13¼x7¼ inches. Operates on 110 volts, 60 cycle AC current. Shipping weight, 25 lbs. Raytheon tube included in our price.



2R5294 — With Tube. List, \$29.50

\$17³⁵
Net

The Greene-Brown Hi-Power "B"

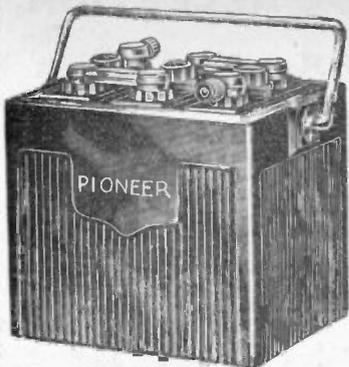
A heavy duty batteryless unit for all sets using up to 10 tubes, including 112 or 171 power tubes. It vastly improves the clarity, volume and tuning selectivity. Has 6 fixed output taps, ranging from 45 to 180 volts. No confusing variable adjustments. No acids; no water; no recharging. Never runs down. Has control for all changes in line voltage. Operates from any 90-135 volt, 60 cycle AC light socket. Any purchaser can construct it. Price includes \$5 milliamper filamentless rectifier tube, with lamp cord and plug. Shpg. wt., 15 lbs.

2R52E1—With Tube. List, \$30.00.

\$17.64



Pioneer Radio "A" Batteries



3 YEARS' SERVICE GUARANTEED

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

Extra Long Life and Uniform Power

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

Heaviest Construction

It has thick, heavy lead plates, separated with selected cedar separators, assuring the maximum of power and performance under the most severe conditions. Contained in a heavy Ebonite case with a strong bail handle. We cannot urge too strongly that you insist upon a heavy plate battery for satisfactory results. Shipping wts., 40 to 60 lbs.

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

Prompt Shipments from a Point Near You

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

2R11050 6 Volt—60 Amp. List, \$15.00.	2R11054 Extra Special 100 Ampere Thinner 11 plate. List, \$15.00.	2R11051 6 Volt—100 Amp. List, \$18.00.	2R11052 6 Volt—120 Amp. List, \$20.00.	2R11053 6 Volt—140 Amp. List, \$22.50.
\$588 EACH, NET	\$655 EACH, NET	\$711 EACH, NET	\$882 EACH, NET	\$1035 EACH, NET

Knapp "A" Power Unit



This "A" Power Unit is unusually trim and compact, all metal covered. It is an "A" eliminator, and completely does away with the "A" battery and trickle charger. Absolutely dry; no tubes; no attention; no re-wiring. A complete AC filament supply without makeshift of any kind. No trouble with moisture, acid, alkali, corrosion, or electrolyte. Patented dry condensers with 1.560 microfarads capacity each. No hum. Solid, dry, full-wave rectifier. Two heavy oversize choke coils. Large, heavy power transformer. Has 10 adjustments for varying conditions of line voltages and number of tubes. "B" eliminator or batteries work equally well. Has "B" eliminator plug. Can't get out of order. Requires no servicing. Absolutely guaranteed. Ship. wt., 31 lbs.

2R5216—List, \$37.50.
Each, Net **\$22.05**

Green-Brown Dry Electric "A"



Full strength, uniform AC light-socket "A" power for all receivers using up to 10-1/2 amp. DC tubes. Completely dry. Tubeless dry-plate rectifier. 2 1/2 amp. at 6 volts. Rheostat adjustable for needs of all sets. Nothing to replace or renew. No hum; no voltage noises. Shipping weight, 26 pounds.

2R216
List Price, \$37.50.
Each, Net **\$22.05**

Kingston "A" Supply Unit

No liquids; absolutely quiet. It is adjustable so it will supply "A" or filament current for any receiving set using from four No. 199 small tubes up to nine 201A and one 371 tubes. Maximum current output, 2 1/2 amps. at six volts. Elkon rectifier unit. A compact, close-coupled unit, over all dimensions 10 1/2 inches long; 6 1/2 inches wide; 7 1/2 inches high. Beautifully finished. Has jacks for use of volt-meter.



2R5217—Without volt-meter. List Price, \$40.00. Net **\$23.52**
2R5218—With volt-meter. List, \$48.00. Net **\$28.22**

ELKON CHARGERS AND RECTIFIER UNITS

Elkon Type E Tapering Chargers



In the past few seasons Elkon devices have become noted for their dependability and serviceability. They have now produced a new, absolutely dry, trickle charger at a new low price for such high quality. It employs the time-tried Elkon dry rectifying system generally conceded the best. No water or acid to spill; no bulbs or moving parts to be replaced. Rectifier definitely guaranteed for 5,000 hours' continuous service. Charges full wave, starting at 1 ampere when charge is low and tapering to .3 amp. as battery reaches full charge. Very compact—6 1/2 x 2 1/2 inches. For 110 volt, 60 cycle AC. Ship. wt., 6 lbs.

2R229
LIST \$10.00
\$588
NET

Elkon 5,000 Hour Dry "B" Rectifier

Used to Replace Tubes

Replaces rectifier tubes in "B" eliminators. Dry, solid, rugged, self-healing. Just replace the fragile 1,000 hour tube with this sturdy 5,000 hour Elkon EBH and the change is made. Not affected by accidental overloads or line surges. Fully self-healing. Power is much smoother, and quieter. There's a big market for them. Requires no changes in wiring, no adjustments of any kind. None of the short-comings of a tube.

2R222—Type EBH. For "B" eliminators using Raytheon BH tube.
2R223—Type ER0. For AC sets and eliminators using 280 type tubes.



LIST \$6.00
\$353
NET

Replacement Rectifier

For "A" eliminators. Put in this new Elkon; it will make eliminators as good as new. Nothing complicated; anyone can make the change. May be used on the following "A" eliminators: Majestic, Mayolian, Elkon, Philco, Webster, Knapp, Gen. Inst., Metro, Pada, Bernard, Sentinel, Elkon and Briggs and Stratton. 3 amp. charger. Shipping weight, 3 1/2 pounds.

2R220—List, \$7.00.
Each, Net **\$4.12**

Elkon Replacement Rectifiers for Trickle Chargers

Nothing to wear out. Replace only after 5,000 hours. Usually requires 3 units to a charger. For use with these trickle chargers: Elkon, National, Acme, Bernard, Cleveland Precision. Shipping weight, 2 pounds.

2R221—List, Each, \$4.00. Net, Each, **\$2.35**

Elkon Dry Replacements for Balkite Chargers

The only authorized Replacement Rectifiers for Balkite Chargers. These units snap into place, are solid, dry, noiseless, need no attention, and perform perfectly for years. Elkon also increases Balkite efficiency. With this rectifier the charging rate is increased to one amp. on Type N; to .8 amp. on Type K, and Type J. 20 per cent higher on all charging rates.

2R218—Type BNK for Model N. List, \$3.00. Net, Each, **\$2.94**
2R219—Type BJ for Model J. List, \$7.50. Net, Each, **\$4.41**
2R238—Type BNK for Model K. List, \$5.00. Net, Each, **\$2.94**

3-AMPERE CHARGER

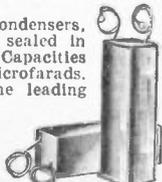


Bone dry, operating without acids or water, without tubes or moving parts, this is one of the most efficient and convenient chargers made. No noise or interference; only by the glow of the indicator bulb can you tell it is on. Indefinite life. Full wave—economical to operate. Size 6 1/2 x 7 1/2 x 4 1/2 inches. Charges 6 volt radio or auto batteries. Made for 103-120 volt, 60 cycle AC. Ship. wt., 12 lbs.

2R228
LIST \$13.50
\$794
NET

Elkon "A" Condensers

High capacity dry condensers, baked 24 hours and sealed in can 2x2x6 3/4 inches. Capacities from 750 to 2,000 microfarads. Used in many of the leading "A" Eliminators and in filter systems where unusually high capacity is needed.



2R224—750 mf. List, \$4.50.
2R225—1250 mf. Each, Net **\$2.65**
2R226—1500 mf.
2R227—2000 mf.

All Prices Quoted Are Net—There Are No Further Discounts

A GOOD CHARGER ASSURES BEST RECEPTION

Pioneer Bone Dry Taper Charger

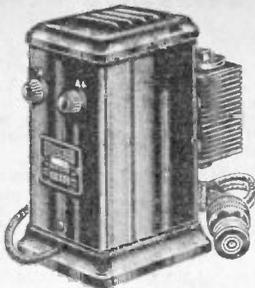
Undoubtedly the most satisfactory, longest life and most dependable tapering charger now made. Charges at the rate of three full amps. Delivers taper charge, starting at full three amps, when battery charge is low and gradually tapering to .3 amps, as battery becomes charged. Equipped with Elkon rectifier unit with a rated life of 5000 hours of service.

Needs No Attention

The Pioneer is bone dry—has no liquids to evaporate or spill. Has no tubes to burn out and needs no further attention after being put into service. Very sturdy construction, with rectifier in open, providing ample ventilation and radiation. Supplied with 6-foot cord and plug for AC line. Size overall, 4x6x7 inches. Shipping weight, 6 pounds.

Built into a sturdy metal container with black finish, this charger is unquestionably an outstanding value in the charger field. It is the type of merchandise that makes better friends of your old customers and is the means of adding new satisfied customers to your list. Ship. wt., 6 lbs.

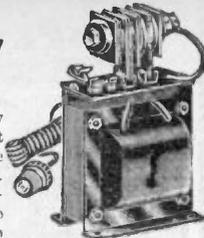
3 Ampere Tapering Charge



2R5046
List, \$12.50 **\$7.35**
Net

2 Rate Dry Charger

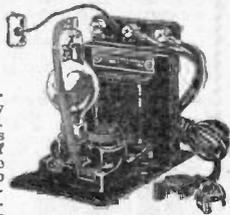
Employs the new Dry rectifier unit noted for long life and quiet operation. Has two positive terminals with negative in between. Fuse connecting either positive terminal to negative allows either full 2 amp charge or .6 amp. trickle charge. Very easy to change from one to the other. Special feature is smallness and compactness, allowing it to fit into very small space. Size, 5 1/2 in. high, 3 1/4 in. wide, 3 in. deep. Well made, absolutely dry, requires no attention and lasts indefinitely. Highly efficient and a most attractive value at our special low price. Ship. wt., 4 lbs.



2R5045
List, \$12.50
\$4.95
Net

Junior Bulb Type Charger

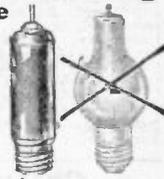
Silent in operation. Gives very satisfactory results. The low price is possible because of simple yet effective design. It has no moving parts. Requires no adjustment. Connects to 110 volt 60 cycle AC. Charges 7 volt auto or radio or B battery up to 90 volts, for a few cents. Fitted with five foot connecting cord and plug and five foot battery leads with clips. Bulbs included. Shipping wt., 10 and 15 lbs.



2R5041—(2) amp. \$ 8.89
2R5042—(5) amp. 12.25

Handy Metallic Rectifier Tube Bone Dry—Noiseless—Long Life

Replaces the old type glass bulb. Can be used with all makes of chargers—2 amp. or trickle—with lower spring or Palmestock clip. Made of solid-metallic discs—strong, durable, lasting. The modern form of rectification free liquids or vibrating parts. Will deliver a truly rectified, steady current of 2 to 2 1/2 amperes to charge 6 and 4 volt batteries. Can also be used to replace .5 and .6 rectifier tubes. Ship. wt. 1 lb.



\$2.35
Net

Genuine Tungar Charger



Practically noiseless in operation. Charge your battery over night at a cost of only a few cents. Lightweight. Easy to handle. Cord for easy connections.enameled metal case. Simply insert plug in 110 volt 60 cycle AC socket. No adjustments. Prices include bulb.

Charges 2, 4, 6 and 12 volt "B" batteries. Shipping wt., 10 and 15 lbs.

2R5031—(2) amp. Net..... \$ 8.92
2R5032—(5) amp. Net..... 15.29

Genuine Tungar Rectifying Tubes

2R834—(1) amp. Net..... \$2.55
2R835—(2) amp. Net..... 2.55
2R836—(5) amp. Net..... 5.10

Tungar Trickle Charger



Made by the General Electric Co. Charges 6 or 4-volt batteries at 1/2 amp. rate.

Silent in operation. Requires no acid or water. Will not overcharge. Low trickle charging rate. Small and compact. Recommended for use with low amperage battery. 30 to 60 amp. It may be used

with 4 or 6 volt storage battery. Has adjustable charging rate. **\$6.37**
Shipping wt., 8 lbs.

2R5030—List Price, \$10.00. Net

Direct Current Battery Charger

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



2R5037—110 Volt DC. List, \$12.00. Net..... **\$7.65**

2R5038—32 Volt DC. List, \$12.00. Net..... **\$7.65**

Valley Battery Charger



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

3R5049—List Price, \$19.50. Net..... \$11.95

2R5043—Special for 110 volt 25 cycle AC current. List, \$21.00. Net..... \$13.95

NEW TOBE "A" UNIT

The newest Tobe item, consisting of a Tobe Transformer and Tobe "A" filter built into one compact unit. The transformer consists of an Elkon dry rectifier and a special Tobe transformer with a "B" outlet. This Tobe "A" unit is absolutely dry and delivers 4 and 6 volts, 3 amps., of good DC. Designed and made by one of the leading pioneers in the construction of battery eliminators. Operates on 110 volt, 60 cycle AC. Near, satin silver finished cabinet to match other Tobe items. Size, 10x5 1/2 in. Ship. wt., 29 lbs.

2R5040—List, \$35.00. Net..... **\$20.58**



Sterling 2 1/2 Amp. "A" Charger



Sterling No. R109—a quiet, efficient, compact and absolutely reliable charger at a low price. Equipped with 2 1/2 ampere Raytheon "A" Rectifier. May be left permanently connected to "A" battery and its operation controlled by turning on and off at light socket. Possesses same efficiency as more expensive chargers, but appeals to those wanting low initial and low operating cost charger. Has replaceable fuse which protects against accidental misconnections. Operates from 110 volt, 60 cycle AC. Size, 3 1/2x4 1/2 inches high. Ship. wt., 3 lbs.

2R5039—List, without Rectifier, \$7.50. Net..... **\$4.41**

2R1078—Raytheon "A" Rectifier. List, \$4.50. Net..... **\$2.65**

See Page 184 for large service station charger

New Models Handy Chargers

Two Rate Trickle and Booster Charger

Instantly changed from continuous, low rate charger to fast rate booster by merely throwing a switch. Charges either 6 or 4 volt radio and auto batteries at the slow rate of 1/2 ampere or at the fast rate of 2 amperes. Built-in ammeter shows rate of charge. Equipped with the Handy metallic rectifier which assures the right charging rate over a long period of time. Contained in neatly finished Brewster green duco, all metal case. Ship. wt., 12 lbs.

2R5033—110 volt, 50 to 60 cycle. List Price, \$14.00. Net.... **\$8.23**

2R5034—110 volt, 25 to 40 cycle. List Price, \$16.00. Net.. **\$9.41**



Single Rate Trickle Charger

Meets the demand for a compact and low priced radio battery charger. Has two positive and one common negative terminals. Two charging rates, 1/2 and 1 ampere. Has built-in ammeter to indicate rate of charge. Handy metallic rectifier is used in place of standard glass bulb, thereby assuring longer life and a good charge over a long period. In metal container with green duco finish. Ship. wt., 8 lbs.

2R5035—110 volt, 60 cycle. List, \$10.00. Net..... **\$5.88**

2R5036—110 volt, 25 to 40 cycle. List, \$12.00. Net..... **\$7.05**



CHARGERS and REGULATORS for CORRECT VOLTAGE

Webster Potentialator

A new appliance, which produces an even flow of AC current necessary to the successful operation of AC receivers or A and B battery eliminators. Regulates line voltage automatically; no tubes; no liquids; no band switch or rheostat. Eliminates necessity of constant changing set rheostats to compensate for line fluctuations. Shipping wt., 10 lbs.
3R5211—List price, \$15.00. Net..... \$8.82



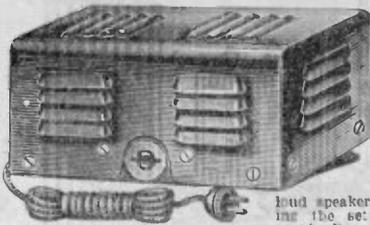
Pioneer Automatic Voltage Control

An amazing new product. Produces that even flow of AC current, necessary to the successful operation of AC Radio Receivers and "A" and "B" battery eliminators. It regulates the local line voltage automatically. There are no tubes, no liquids, nor is there any sort of band switch or rheostat with which to bother.

The Pioneer not only gives you the proper voltage for the normally high or low line, but it automatically regulates the sudden line fluctuations, noticed in any AC line.

It permits one to enjoy steady radio reception, of uniform volume through the loud speaker, without the annoyance of constantly adjusting the set rheostats to accommodate the ever-varying supply line.

An important feature is the protection it provides delicate AC tubes. Longer life to the tube is assured with this practical device. Has come through the most difficult variations of line voltage with sensational smoothness. The Pioneer is compact in size, almost mystical in performance, and the best word in radio appliances, "Simple." Size, 4 in. wide, 7 1/2 in. long, 4 in. high, shipping weight, 10 lbs.



3R5210
 Retail Price **\$8.40**
\$15.00 NET

Acme Voltage Control

Automatically keeps voltage constantly between 100 and 111 volts, for the satisfactory operation of AC sets or "A" and "B" Battery eliminators. Prevents AC tubes from burning out due to excessive voltage caused by line fluctuations. No moving parts, just plug it in. Size 3 1/2 x 7 1/2 x 2 1/2 in. Comes complete, ready to install. Shipping wt., 12 lbs.
3F5215—List price, \$17.50. Net..... \$10.29



De Jur Voltage Regulator

Equipped with meter showing just how much actual current is going into set. May be regulated by Rheostat with control on outside of box to compensate for line fluctuations. Shipping wt., 3 lbs.
3R310—List \$12.50. Net..... \$7.35



Jewell A-B Relay

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

3R5212—For five or more 3-volt tubes. 3R5213—For four or more 5-volt tubes. List, \$5.00. Net..... \$3.67



Sterling Automatic Line Voltage Stabilizer

Now you can sell AC Sets! No more worry about complaints or burnt out tubes on loss of volume. The Sterling positively stabilizes the line current for either AC set or "A" and "B" eliminator. If it runs as low as 80 volts or as high as 135 volts. Very simple to install, plug cord from Stabilizer into light socket, and cord from set into Stabilizer. No liquids, no tubes, nothing to get out of order. Ship. wt., 14 lbs.



3R5214
 List, \$24.00. NET

\$14.11

Handy Automatic Radio Control Switch



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

3R328—List, \$5.50. Net, each..... \$3.23

Improved Automatic Relay Switch

Helps electrify any radio set. When switch on set is turned on, it automatically shuts off the charger and instantly starts the "B" eliminator. When the set switch is turned off it stops the "B" eliminator and instantly starts the charger. Can also be used with either trickle charger or "B" eliminator separately. Shipping wt., 1 1/2 lbs.
3R327—List, \$3.00. Net..... \$1.71



Yaxley Power Control



A power control incorporating the usual high standard of Yaxley construction. Used to switch the "B" Eliminator and charger on and off automatically. Does not allow battery to be overcharged. Primarily designed for high rate chargers but works equally well on trickle charger type; cuts off positively. Operates in continuous service without care or attention. Shipping wt., 4 lbs.
3R313—List Price, \$7.50. Net..... \$4.41

Brach Controlit Switch

An automatic relay for "A" power supply and "B" eliminator. Automatically switches "B" eliminator and "A" power supply on or off as the set is switched on or off entirely automatic. Recommended by "Bakite". Shipping wt., 1 1/2 lbs.
2R311—List, \$4.50. Net..... \$2.65



R. B. M. Voltage Control

A very low priced voltage control. Offers full protection to your set. Ruggedly built of the best material and designed to work with any AC tube set or "A" and "B" battery eliminator to give an even flow of current. Small and compact, fitting nicely in top. Shipping wt., 3 lbs.
3R312—List Price, \$10.00. Net Price complete..... \$5.88



Master Control

Consists of resistance with plug-in taps at variable points to provide proper input voltages. Does not compensate for fluctuations in line over any wide variance but does compensate for ordinary fluctuations. Easy to sell because of price. Simple to install. Requires no attention. Helps to protect tubes. Shipping weight, 8 ounces.
3R314—List, \$2.50. Net..... \$1.47



Wirt AC Line Voltage Regulator



3R351—List, \$2.25. Net

\$1.32

All types of AC operated radio apparatus such as receiving sets, "A" and "B" eliminators, etc., require a regulator of this type to supply correct voltage and protect from overload. The Wirt is a combination plug-in socket with a self-contained voltage control. Indicator attached to socket provides fine adjustment. Set plugs into regulator, which plugs directly into current line. Five points of adjustment. Shipping wt., 12 oz.

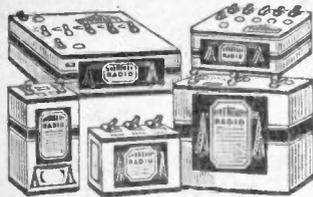
A complete showing of Electric light wire, sockets, plugs, switches, current taps, extensions, receptacles, etc., is on pages 213 to 220 of this catalog.

BEEDE AC LINE CONTROL

A positive device for reducing excessive line voltages to a safe operating point. Overloads reduce life of AC tubes. Device is of Bakelite, attractive in appearance and contains a Beede meter of high resistance, especially designed for continuous duty, and with graduated scale. Rheostat used is of ample capacity and especially designed for this device. Furnished complete with cord and plug. Connects between light socket and set.
3R306—List, \$8.00. Net..... \$4.70



EVEREADY RADIO BATTERIES



**2R105
Large
Layerbilt**

**\$3²⁰
NET**

Fresh New Stock Always Ready For Prompt Shipment

Our stock of this well known, dependable make of batteries is complete. We can give you immediate service, and every battery is live and fresh, fully tested, and capable of long continuous use. For quiet and constant current, they have no superior.

Catalog No.	Factory No.	Volts	Size, Inches	Style	Wt. Lbs.	List	Net
Layerbilt "B" Batteries							
2R105	486	45	8 1/4 x 4 1/2 x 7 1/4	Large	17	\$4.25	\$3.20
2R110	485	45	8 1/4 x 3 1/2 x 7 1/4	Med.	15	2.95	2.22
Standard "B" Batteries							
2R109	770	45	8 1/4 x 4 1/2 x 7 1/4	Vertl.	16	4.00	3.00
2R125	772	45	8 1/4 x 3 1/2 x 7 1/4	Vertl.	12	2.75	2.06
2R104	767	45	8 x 6 1/2 x 3 1/2	Horizl.	12	2.75	2.06
2R107	766	22 1/2	4 1/2 x 6 1/2 x 3 1/2	Horizl.	6	2.00	1.40
2R116	779	22 1/2	4 1/2 x 3 1/2 x 7 1/4	Vertl.	4	2.00	1.40
"C" Batteries							
2R108	768	22 1/2	4 1/2 x 2 1/2 x 2 1/2	Horizl. B.C.	2	1.75	1.22
2R101	771	4 1/2	4 x 1 1/2 x 3	C.	2	.60	.42
"A" Batteries							
2R100	7111	1 1/2	2 1/2 x 6 1/2	A.	3	.50	.40
Portable Batteries							
2R115	762	45	2 1/2 x 4 1/2 x 5 1/2	Port.	12	2.75	1.93
2R103	763	22 1/2	3 1/2 x 2 1/2 x 2 1/2	Port.	2	1.50	1.05

RADIO BATTERY TEST METERS



**Charge Tester
for
Radio "A"
Storage
Battery**

**3R2835—
List price, 68c
\$1.25 Net..**

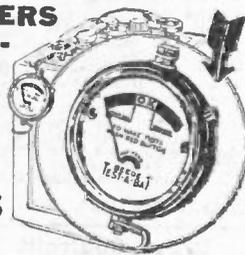
The new clean way to test the "A" storage battery.

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

**Test-A-Bat
Storage
Battery
Tester**

**3R2859
List \$1.75**

**\$1⁰⁵
Net**



A meter designed to attach permanently to any storage battery and by simply pushing a button gives accurate reading of its condition. Non-corrosive lead terminals. Dial in three colors.

Battery Meters



**2R2837—0-50 volts.
List, \$1.00, Net... 55c**

**2R2838—0-100 volts.
List, \$1.50, Net... 72c**

Accurately tells you condition of "B" battery. Convenient. Watch case size. Metal case polished nickel finish with glass crystal.

Tests 22 1/2 and 45 volt batteries.

3R2839—Combination Meter. Reads 0-50 volts; 0-40 amperes. Tests "B" and "A" dry cells. Same style as meter above. List, \$1.50. Net... 75c

Rubber Battery Mat



**3R2812—
List, 75c.
Net... 36c**

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

Jewell Battery Tester



**3R2836—
List, \$2.75.
Net... \$1.68**

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

Hydrometer Floats



No need to throw away the old hydrometer because of a broken float. Just remove the bulb from the top of the glass barrel and insert a new hydrometer float. Scale is graduated so it can be read at a glance.

**3R2829
List 25c**

**17c
Net**

BURGESS Batteries



These nationally known quality batteries have unusually long life and are absolutely dependable. Each battery is individually tested. Our large stock and volume sales insure your getting new fresh stock always. Full voltage; long shelf life; great recuperative power; each cell insulated.

Catalog No.	Factory No.	Volts	Size, Inches	Style	Wt. Lbs.	List	Net
Super "B" Batteries							
2R111	2130S	45	7 3/4 x 8 1/4 x 4 1/2	Uprht.	16	\$4.25	\$3.20
2R112	2230S	45	7 1/4 x 8 x 3 1/2	Uprht.	10 1/2	2.95	2.22
Standard "B" Batteries							
2R144	1030S	45	8 1/4 x 4 1/2 x 7 1/4	Vertl.	14	3.75	2.81
2R143	230S	45	3 1/2 x 8 1/4 x 7	Vertl.	11	2.50	1.88
2R142	230S	45	7 1/2 x 6 1/2 x 3	Horizl.	11	2.50	1.88
2R140	215S	22 1/2	4 1/2 x 3 1/2 x 7	Vertl.	6	1.75	1.31
2R138	215S	22 1/2	6 1/2 x 4 x 3	Horizl.	6	1.75	1.31
2R136	415S	22 1/2	3 3/4 x 2 x 2 1/2	Horizl.	2	1.75	.94
"C" Batteries							
2R148	2370	4 1/2	4 x 1 1/2 x 3	Tapd. C	2	.60	.38
2R147	2540	7 1/2	4 1/2 x 2 1/2	Tapd. C	3 1/2	.75	.56
2R137	415S	22 1/2	4 1/2 x 2 1/2 x 2 1/2	Horizl.	5	1.50	1.13
"A" Batteries							
2R143	No. 5	1 1/2	2 1/2 x 6	Uprht.	3	.60	.40
Portable Batteries							
2R141	230S	45	2 1/2 x 4 1/2 x 5 1/2	Vertl.	11	2.50	1.88
2R145	2360	4 1/2	2 1/2 x 2 1/2 x 2 1/2	Small C	1	.40	.30

Non-Drip Hydrometer

**Retails \$1.00
Your Cost 68c**

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

**3R2815—List, \$1.00.
Net... 68c**



Leader Hydrometers

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

**3R2818—Large size, excellent value. List, 75c.
Net... 39c**

**Service Station Size
3R2819—Extra large size, service station model. List, \$2.50. Net, \$1.45**

S. O. S. Hydrometer

**3R2817—List, 75c.
Net... 49c**

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



"B" Eliminators

THORDARSON

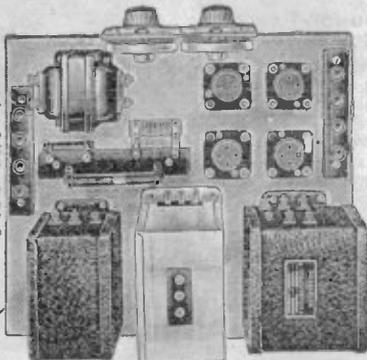
Power Amplifiers

250 Plug-in Amplifier and Plate Supply

One stage power amplifier and B supply with 250 type power amplifying tube, for use as last stage of audio amplification. Complete power to operate the tube at full efficiency and supply plate voltage for any set.

3R5864
List \$85.55

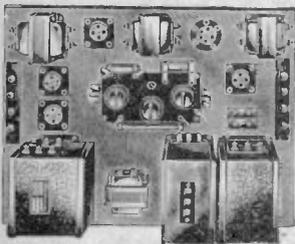
\$47.85
Net



The following parts are included: Thordarson Power Supply transformer, Thordarson double choke unit, Thordarson speaker coupler transformer, Thordarson power input plug, and one condenser block, 210 type, together with all necessary incidental parts.

Built to use 2 UX 281 Rectifying tubes, 1 UX 250 tube, and 1 UX 847 voltage regulator tube. These are not included. Shipping weight for kit, 50 lbs.
3R5864—List Price, \$85.55. Net.....\$47.85

MODEL 250 TWO STAGE POWER AMPLIFIER and PLATE SUPPLY



AMPLIFIER and PLATE SUPPLY

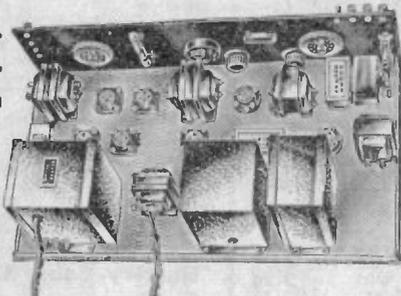
A very complete two stage amplifier suited for use with largest receivers. Designed to drive a dynamic speaker. Will give sufficient volume for dancing, public speaking or demonstration work. Receives all current from AC line, receives input from radio or phonograph, and after amplifying, passes on to speaker. Supplies ABC current for power tubes and "B" current to entire receiver. The kit

comes complete, ready for assembly. Principal parts, made by Thordarson, are the power transformer, choke coils, audio transformers, output filter and resistors. Other parts are the same as were found to perform most efficiently in the laboratory model. Two type 281 rectifying tubes supply a DC potential of 445 volts to the plate of the type 250 second stage amplifier tube. The first stage tube is a type 227 amplifier with an AC filament. A type 874 glow lamp regulates the maximum flow of high voltage, compensating for surges and drops. Three variable resistances allow any voltage required by this set. Kit complete, without tubes. Shipping weight, 50 pounds.

3R5867—Type 250 Kit. List, \$98.00.
Net.....\$56.86

250 Push-Pull Demonstration Amplifier

For the dealer or public speaker who requires volume and undistorted tone quality above the average. Ideal for outdoor work. Far too powerful for use in the home. Three stages amp. for microphones



power for phonograph or radio. The following parts are required: 250A Full Trans. T922 Input Trans. T903 Coupling Trans. 50's Resistor Kit, Potter No. 550 Condenser Block, 3-Potter, 1 mfd. Bypass Cond., Potter 2 mfd. Bypass Cond., 2 Carter 12,000-Ohm Var. Resistor, Carter 25-Ohm Center Tap Res., Central Lab. 200,000-Ohm Mod., and other necessary parts. The following tubes are required to operate this amplifier: 2 Type 250 power amplifiers, 2 Type 227 amplifiers, 2 Type 281 rectifiers, 1 Type 874 voltage regulator. Shipping weight, 60 pounds.

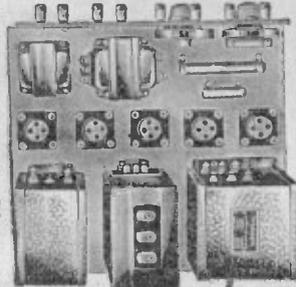
3R5869—List Price, \$152.25. Complete Kit.
without tubes. Net.....\$89.52

A phonograph pickup and microphone complete this amplifier. See page 21 for phonograph pickups, and pages 158-160 for microphones.

210 Push-Pull Single Stage

A single stage operating two UX 210 power tubes at full capacity; gives undistorted output of over 2,000 milliwatts. Has sufficient reserve to operate any speaker at average and to supply "B" current to the highest drain receivers. The amplifier contains a high voltage transformer with a secondary output of approximately 525 volts, and 2-80 milliamperes choke coils. It not only furnishes 450 volts to the plate of the power tubes, but also the necessary filament current and complete "B" and "C" voltage to the entire receiver. All hum is entirely filtered out and the assembly is silent in operation. We supply only the main parts as specified by Thordarson. Built to use 2 UX or CX310 Power Amplifying Tubes, 2 UX281 or CX281 Rectifying Tubes, 1 UX847 or CX847. Shipping weight, 50 pounds.

3R5865—List Price, \$86.50. Complete Kit, without tubes. Net.....\$49.90

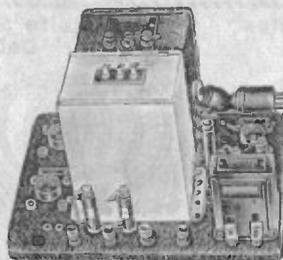


Thordarson 210 Push-Pull Amplifier No. 2

A complete two-stage audio amplifier and plate supply, using a 227 type tube in first stage and two 210 type power tubes in push-pull in the output stage. For either radio or phonograph reproduction. The transformer, Thordarson Double Choke Unit, Thordarson Filament Supply Transformer, Thordarson Audio Transformer, Thordarson Push-Pull Input Transformer, Thordarson Push-Pull Output Choke (for high impedance speaker) or Output Transformer (for dynamic speakers), Thordarson Resistance Kit, Condenser Block Type 210, built to use the following tubes: 2 UX210 or CX310 Power Amplifying, 1 UX227 or CX227 Heater Type AC, 2 UX281 or CX281 Rectifying, 1 UX874 or CX874 Voltage Regulator, which are not included. Shipping weight, 50 pounds.

3R5866—List Price, \$106.00. Net.....\$61.75

210 "B" Eliminator—Power Supply



A high voltage "B" supply unit. The UX210 Power Tube has more than 100 times the output of the ordinary type of audio tubes. No other single development has met with such great public demand and appreciation. Deep bass notes require more electrical energy to bring them out rich and full and, consequently higher voltages are required. Thordarson 210 Power Compact contains in a single unit the high voltage transformer with a secondary output of approximately 525 volts and 2-80 milliamperes choke coil. Supplies not only the 450 volts to 210 tube but also 7½ volts for filament of power tube UX250 rectifier tube, and complete B supply for the entire receiver. Complete parts to build this power unit, including the following: Thordarson 210 Power Compact, 210 B Block, 8,000-ohm resistance, 21,000-ohm resistance, 1-1,000-ohm fixed resistance, metal base-board with socket and binding posts mounted, diagram, etc., without tubes. Shipping weight, 35 pounds.

3R5868—List Price for parts, \$51.90. Net.....\$30.52

R-210 Power Amplifier and "B" Supply contains, in addition to the above, 1 Thordarson R200 transformer, UX socket, Thordarson R 75 output transformer. Uses 1 316-B tube, 1 574 voltage regulator.

3R5988—List, \$36.20. Net.....\$33.55

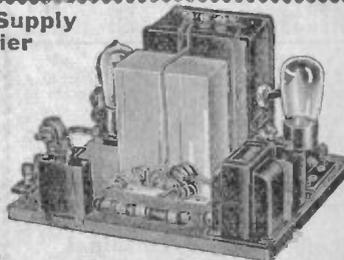
R171 Power Supply and Amplifier

Extra stage of power amplification using the 171 power tube, and also complete "B" current supply. Adds volume and tone quality. Kit consists of 171 compact, filter condenser, tapped resistance, 2 sockets, choke and other incidental parts. Supplies ABC power for 171 tube and "B" power for balance of set. Uses 1 Raytheon BH tube and a 171 power tube. Shipping weight, 20 pounds.

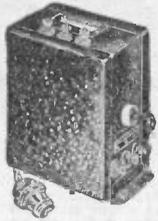
3R6317—List, complete kit, without tubes, \$42.10. Net.....\$24.95

171 "B" Eliminator only, similar to above, except 171 power stage not built into kit. For use when 171 power tube is used in set. Supplies "B" current for entire receiver and ABC current for 171 stage. Shipping weight, 15 pounds.

3R6318—List, \$33.20. Net.....\$21.28



THORDARSON POWER COMPACTS



R250
R210
R171

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

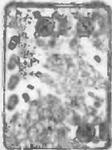
3R1300—R-210 Power Compact. List, \$20.00. Net... **\$11.88**

3R1301—R-171 Power Compact. List, \$15.00. Net... **\$8.82**

3R1310—R-250 Power Compact. List, \$17.00. Net... **\$10.00**

METAL BASEBOARD For R 210 Compact Amplifier

Greatly simplifies assembly of the 210-type power amplifier and B-supply. Equipped with all sockets and binding posts mounted; all screws, nuts, lugs and hook-up wire for complete assembly are supplied. Size, 8 1/4 x 11 1/4 inches. Shipping wt., 6 lbs. **3R1382**—Type R-211 Metal Chassis Complete. List, \$5.00. Net... **\$2.94**



Double Unit, Heavy Duty Chokes

Designed for use in the filter circuit of power supply devices with the power transformers listed on this page. Consists of two 30 henry chokes wound on an iron core and impregnated in wax. Same height and depth of transformers.



Type 2099

Maximum load capacity 130 milliamperes. Suitable for use with all power packs using 112, 171 and a single 210 tube. Shipping weight, 14 pounds. **2R1326**—List, \$14.00. Net... **\$8.23**

Type 3099

160 milliamperes maximum capacity. Suitable for use with 210 push-pull amplifier or a transmitter using a single 210 tube. Shipping weight, 16 pounds. **2R1327**—List, \$16.00. Net... **\$9.41**

Type 3100

200 milliamperes capacity on maximum load. Suitable for use with pair of 250 tubes in push-pull, or 50 watt transmitter. Ship. wt., 18 lbs. **2R1328**—List, \$18.00. Net... **\$10.58**

Sterling Pre-Amplifier Shield Grid Booster



A stage of shield grid radio amplification to be inserted ahead of detector in three tube sets or ahead of first R. F. tube in larger sets. Has ten times the amplifying ability of 201-A. Uses 222 tube. Completely shielded. Flexible leads for connecting. May be mounted on top or at end of cabinet. Single dial control.

Completely assembled, ready to work. Runs from either batteries or eliminator. Size, 7 1/2 x 4 1/2 x 5 1/2 inches. Shipping weight, 5 pounds. Complete with switch and power cable. **3R1339**—List, \$12.50. Net... **\$7.35**

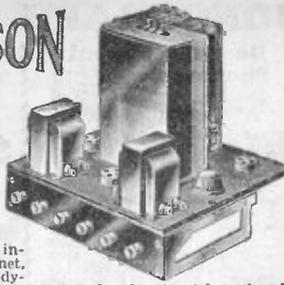
THORDARSON

Phonograph Amplifier

A complete compact, self contained 2 stage amplifier designed for use with a phonograph pickup and a dynamic speaker.

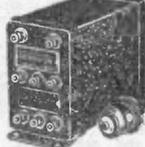
No need to discard your old phonograph; this amplifier makes it an instrument equal to the high priced orthophonic instruments with same cabinet, motor and turn table. The dynamic speaker replaces the old horn and the electric pickup the old reproducer. Amplifier only 10 inches square. Runs directly from the house lighting circuit. Requires no attention. 190 tube in first stage, 210 tube in second. Gives tremendous output, decidedly more than required for the average home. Only speakers designed for use with 90 volt field current may be used. All grid biases, plate voltages, direct current for the 190 and AC for the 281 rectifier and 210 power tube are provided. Complete working instructions, technical data and diagrams are included. Mounted on bakelite panel with bakelite terminal board and aluminum brackets. No tubes included. Shipping weight, 60 pounds.

3R1311—Complete Kit. List, \$61.25. Net... **\$33.50**



Thordarson Filament Heating Transformers

Type T 2445 for R. C. A. and Cunningham AC Tubes



Three taps provide 1 1/2, 2 1/2 and 5 volts filament current for the 228 amplifier, 227 detector, and power audio tubes. Receptacle for B-supply input plus 2 3/4 x 5 1/4 x 4 1/4 inches. Ship. wt., 6 lbs.

3R1330—Type T 2445. List, \$10.00. Net... **\$5.88**

Type 2504 for Kellogg and McCullough AC Tubes

Supplies heater element current for from 1 to 10 of these tubes. Secondary: 3 volts with center tap. Current capacity 30 volts-ampères. Size, 3 1/2 x 3 3/4 inches high.

3R1331—Type T 2504. List, \$7.50. Net... **\$4.41**

Type T 2180

For use with 5-volt power tubes (112 or 171 type). Secondary: 5 volts, center tapped. Capacity, 2 1/2 ampères. Size, 3 3/8 x 2 1/4 x 3 1/4 inches. Ship. wt., 3 lbs.

3R1378—Type T 2180. List, \$5.00. Net... **\$3.00**

Type T 2230

For use with 7 1/2 volt power tubes (210 type). Secondary: 7 1/2 volts, center tapped. Capacity, 4 1/2 ampères. Size, 3 1/2 x 3 3/4 inches high. Shipping weight, 4 pounds.

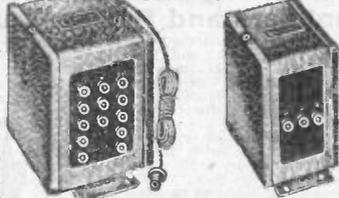
3R1379—Type T 2230. List, \$7.50. Net... **\$4.50**

Type 3081

For use with a power amplifier that uses 226 or 227 tubes in the first and second stage and a 210 in third. This transformer supplies current to 226 or 227 tubes only. Will not handle over three. Weight, 2 1/2 pounds.

3R1332—List, \$6.00. Net... **\$3.53**

Power Transformers and Chokes



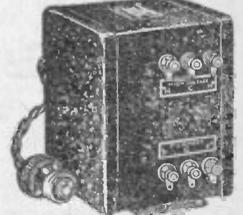
A power transformer suitable for use with a pair of 210 tubes in push-pull, a single 250 or any others of similar characteristics. A high voltage winding of 1,000 volts provided, giving 500 on either side of the center tap. Filament windings of 7 1/2 volts for 210 and 250 tubes. Another of same value for the two 281 rectifying tubes. Low voltage windings for AC tubes. Ship. wt., 7 lbs.

3R1319—List, \$19.00. Net... **\$9.75**

Heavy duty choke for use with a above transformer. Consists of two 30 henry windings on an iron core. Will carry a load of 180 mills. Ship. wt., 6 lbs.

3R1320—List, \$13.00. Net... **\$6.95**

Power Transformers For Supplying Cur- rent to B, BC



ABC eliminators and small transmitting sets. Very conservatively rated. Will deliver far more power, under a greater overload than any other transformer on the market. To be used with 281 tubes.

Type 2098

ABC current to two 210 power tubes and B current to receiver. 110 volt, 60 cycle AC only. 1,100 volt center tapped secondary. Two 1/2 volt filament windings. Size, 4 1/2 x 5 1/4 x 5 1/4 inches. Weight, 14 pounds. **3R1380**—List, \$20.00. Net... **\$11.67**

Type 2900

ABC current to a single 250 tube and B current to receiver. To be used with alternating current only. 60 cycles, 110 volts, 1,220 volt secondary with center tap. Two 7 1/2 volt center tapped filament windings. Size, 4 1/2 x 5 1/4 x 5 1/4 inches. Ship. wt., 16 lbs.

3R1381—List, \$20.00. Net... **\$11.76**

Type 2950

ABC current to two 250 tubes in push-pull, 110 volt, 60 cycle AC only, 1,350 volt secondary, center tap. Two 7 1/2 volt filament windings. Size, 4 1/2 x 5 1/4 x 5 1/4 inches. Shipping weight, 19 pounds.

3R1383—List, \$29.50. Net... **\$17.35**

Power Input Plug R-172

This power input plug is designed for use with all Thordarson power amplifiers to connect the output of the receiver to the input of the amplifier. Eliminates the necessity of any changes in the wiring of the receiver.

3R1333—Type R-172. List, \$1.00. Net... **59c**

Output Resistor Kit for 210 Type Power Amplifiers

This special resistor kit is designed for use in the output of power amplifiers built with the Thordarson Power Compact R-210 or other similar power amplifiers using the voltage regulator tube UX-874. Provides plate voltages of 45, 90, 135, and 400. Also grid bias of 20 volts for the power tube.

3R1337—Type 508-3445. List, \$4.90. Net... **\$2.88**

Output Resistor for 171 Type Power Amplifiers

This special voltage divider resistor is designed for use in the output of the Thordarson R-171 type power amplifier. Consists of a single fixed resistance tapped so as to provide B voltages of 45, 90, 135, and 150, and also grid bias for the power tube of 40 volts.

3R1338—Type 508-1. List, \$2.15. Net... **\$1.29**

Browning Drake Booster Shield Grid R. F. Amplifier

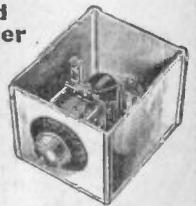
Increases the range of your set; adds a stage of tuned radio frequency amplification ahead of those already there. Uses a shield grid tube and amplifies all signals many times more than a 201-A. Consists of a tuned grid coil, condenser and necessary small parts, mounted in an aluminum plate cabinet completely shielded. Already assembled. Simply connect to antenna and run aerial connection of set to a binding post on the back. May be used with any battery or eliminator power receiver. Shipping weight, 8 pounds.

3R1343—List, \$25.00. Net... **\$14.70**

Unassembled Kit of Parts. Shipping weight, 7 pounds.

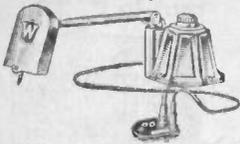
3R1344—List, \$17.00. Net... **\$10.00**

Both use a 222 shield grid tube.



RADIO-PHONOGRAPH ELECTRIC PICKUPS

Webster Electric Pickup



Special adapter fits on base of detector tube. Connected by means of cord tip jacks. Need not be removed when receiving radio. Instant changeover to electric phonograph. Light weight unit, correct needle pressure, avoids undue record wear. Complete with supporting arm. Shpg. wt., 3 lbs.
3R2326—List, \$17.50. Net..... **\$10.29**

De Luxe Pacent Phonovox



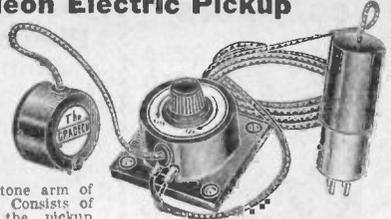
Counterbalanced tone arm. Correct needle pressure at all times. Three separate units, pickup, volume control and set adapter. Tons quality equals most expensive of homophonic phonograph.
3R2327—Model 124, complete with adapters for AC and DC sets and connecting cord. Weight, 3 pounds. List, \$13.50. Net.... **\$7.94**
3R2328—Without counterbalance. List, \$10.50. Net..... **\$6.17**

Gradeon Electric Pickup

3R2650
List, \$17.50
Net

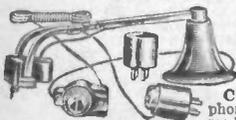
\$3.95

A high-grade instrument that connects to the tone arm of the phonograph. Consists of three elements, the pickup unit, volume control and plug in adapter. Length of cord enables volume control to be held in hand for critical adjustment of the reproduced sound. It is thus possible to give a true orchestral interpretation to a phonograph selection, impressing swells and retards according to your emotions. Adds enjoyment to the selection played. Control may also be screwed fast to table, radio or phonograph and used for incidental adjustment, regulating the volume according to the dictates of circumstances. Shipping weight, 3 pounds.



Na-Aid Pickup

Attaches to gooseneck in place of the reproducer. Easy to install. In conjunction with a power amplifier it will make even a portable phonograph deliver volume and clarity equal to the most expensive instrument on the market. Complete with cord and adapter. Shipping weight, 3 pounds.
3R2329—List, \$5.00. Net..... **\$2.94**



Amplion Revelaphone \$8.82

Converts any phonograph into a modern electric reproducer. Light weight. Pivoted arm with heavy base. 20-ft. cord. Shpg. wt., 3 lbs.
3R2330—List, \$15.00. Net..... **\$8.82**



Gordon Pickup

The old-fashioned phonograph has been given a new lease on life and is returning to the front, more popular than ever. Hear your selections over the radio and preserve them for future entertainment on the phonograph. The Gordon Pickup is always ready to play, that old favorite for you, giving it all the realistic touches of the original creators. No canned music when the Gordons and overtones. You may have an instrument equal to those sold for several hundred dollars by simply doubling up on your radio and buying this Gordon Pickup Unit. Shipping weight, 3 lbs.
3R2331—With arm and volume control. List, \$13.50. Net..... **\$5.75**
3R2332—Pickup only. No arm, no volume control. List, \$3.38. Net..... **\$3.38**

United Pickup



Assures lifelike reproduction of all phonograph records through the amplifier of the radio receiver. Especially for use with the dynamic style of speaker. For both A1 and DC sets. Control unit regulates volume. May be held in the hand or set on the table. Weighted base in pickup arm. Shpg. wt., 3 lbs.
3R2333—List, \$16.50. Net..... **\$9.45**

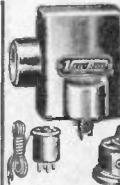
Lots of Fun! Surprise the Folks

Be Your Own Announcer on the B-M-S Home Broadcaster



Be your own announcer. Let your friends hear programs from any place in the world. There is no limit to the possibilities of radio reception—apparently. Simply plug the adapter in the detector socket and replace tube. Run the cord to some concealed spot. Then in the middle of a program step out and let your friends hear an announcement from Timbuctoo, Hong Kong or Peoria. Adds life to any party. Address your friends by name. Send them messages. Sing for them. Always ready for instant use. Will not interfere with radio reception. Press the button and radio is automatically cut off. Talk, and when you are finished radio starts in again. Will fool experts. Shpg. wt., 2 lbs.
3R2334—For 4 Prong Detector. List, \$7.50.
3R2339—For 5 Prong AC Detector.

\$4.41
Net



BMS ViaRad Electric Pickup

Consists of an electrical pickup unit which slips on the end of the gooseneck in place of the reproducer, a volume control which is capable of regulating the emitted sound from a mere whisper to a deafening roar, and an adapter which plugs into the detector socket of the receiver. Picks up all sounds recorded on the disc. Far more sensitive to slight impulses than reproducing unit. An ideal installation for home use. Ship. wt., 3 lbs.
3R2335—List, \$12.00. Net..... **\$7.06**

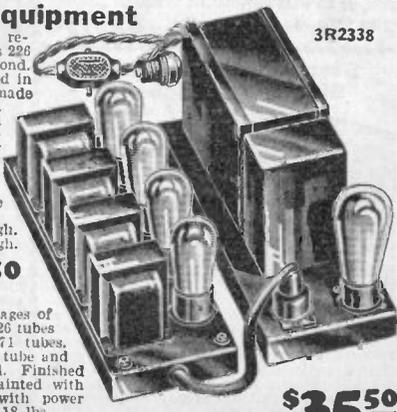
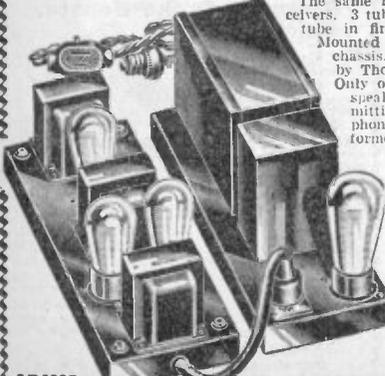
National Scratch Filter

Removes all hiss and scratching, which results when worn or old records are played. Makes the sound pure and clear with bell-like definition of all notes and frequencies. Connects across pickup unit. Ship. wt., 2 lbs.
3R2336—List, \$5.50. Net..... **\$3.23**

Monroe Amplifiers and Power Equipment

The same high-grade instruments used in our own receivers. 3 tube Power Amplifier and Power Pack. Uses 226 tube in first stage, two 171s in push-pull for second. Mounted on pressed steel base. All wiring concealed in chassis. Latest design, large audio transformers made by Thordarson. Plug directly into Power Pack. Only other connections are to receiver and speaker. Made in two separate sections, permitting easy installation in any console or phonograph. Power pack consists of transformer, condenser block, chokes and resistances all mounted in metal cases and socket for 280 rectifying tube. Receptacle for cable plug. Concealed wiring.
 Size of power pack, 12 1/2 x 4 1/2 x 3 1/2 in. high. Size of amplifier, 12 1/2 x 4 1/2 x 4 1/2 in. high.
3R2337—Complete, with tubes. List, \$53.00. Net.... **\$31.50**

4 Tube Power Amplifier, using two stages of impedance coupled amplification with 226 tubes and a stage of push-pull using two 171 tubes. Same superior construction as the three tube and same size chassis. All wiring concealed. Finished in black Japan. All soldered joints painted with wax to prevent corrosion. Complete with power supply unit, ready to operate. Weight, 18 lbs.
3R2338—List, \$63.00. Net..... **\$35.50**



3R2337

\$35.50
NET

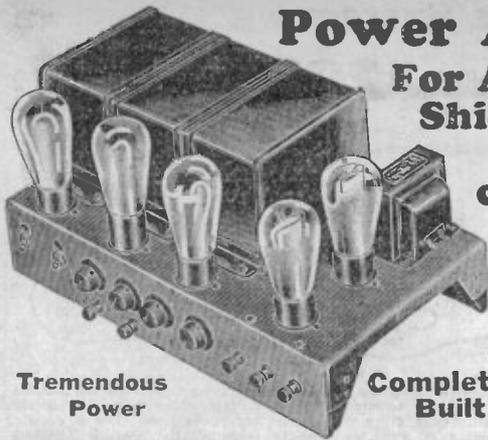
THE BARAWIK CO., CHICAGO, ILL.

Power Amplifiers

For AC, DC and
Shield Grid

Re-
ceivers

All
Sizes



Tremendous
Power

Completely
Built

210 Push-Pull Power Amplifier

A practical power amplifier for use with the average home-made or factory-built receiver. Gives far more power than is possible to obtain with the amplifier furnished in the receiver. Simply tap off after the first stage or, for less volume, after the detector. Enough volume to fill a large hall. Splendid for dancing and popular entertainment.

Uses two 210 Power Tubes, a 374 voltage regulator, and a pair of 281 rectifying tubes. Supplies a very high voltage for the plates of the 210's and lesser voltages for the operating of the receiver. No need to use any batteries for B supply. Either a storage battery or an A Eliminator may be used for filament supply in the receiver. The filaments of the power and rectifying tubes are heated by AC. Shipping weight, 80 pounds.

3R227—Complete, ready to work. List, \$110. Net

\$49⁸⁵



Ready to
Plug in

For Dynamic
Speaker

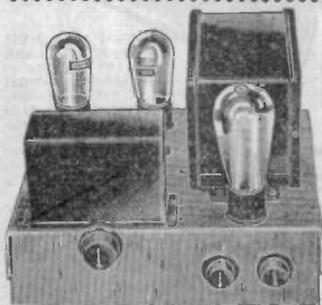
250 Power Amplifier

Uses the new 25-watt 250 tube. Adaptable for the last audio stage of any receiver. Delivers sufficient power to operate the 250, the receiver and a dynamic cone as well. Delivers enough volume to drive six average loud speakers. May be used for public speaking, outdoor entertainment or demonstration work. Too powerful for use in a small room. Will work on any receiver. Makes a five-tube set deliver more volume than the average ten-tube set without power amplifier.

Uses 374 voltage regulator, 250 and 281 half wave rectifying tubes. Delivers enough power to operate a small transmitter. Size, 18 in. wide, 7 1/2 in. high, 9 1/2 in. deep. Contains all power equipment, last stage audio transformer and an output transformer. Completely built, ready to plug into the power receptacle. Uses no more power than a large light bulb. Ship. wt. 50 lbs.

3R228—250 Power Amplifier. List, \$95.00. Net

\$48²⁵



171
Push-Pull
Power
Amplifier
Completely
Built

A practical power amplifier using two 171 tubes in push-pull. For last stage amplification with practically any receiver. Also adaptable for additional amplifier following the usual final stage. Furnishes its own ABC supply and will also supply sufficient plate supply for the operation of practically any receiver.

Compact in size, ruggedly constructed on steel chassis. Fully assembled and wired. Comes to you complete, ready to connect to radio set and plug into light socket.

For Magnetic Speakers. It is recommended that a magnetic cone or air column speaker be used with this power amplifier. Size, 10 1/2 x 9 x 7 1/2 in. Shipping weight, 30 pounds.

3R229—171 Power Amplifier. List, \$75.00. Net

\$21⁰⁰



210 Push-Pull
Power
Amplifier
Kit

Exceedingly easy to assemble. Provides super power amplification for the output of any radio receiver. Complete kit of parts, with wiring diagram, screws, wire, hardware.

receiver, AC or DC. Used either to replace the last stage audio in any set or as an additional push-pull stage. For use with a good magnetic or dynamic speaker. Plate supply for all sets provided. Has winding for filaments of AC tubes. Shipping weight, 25 pounds.

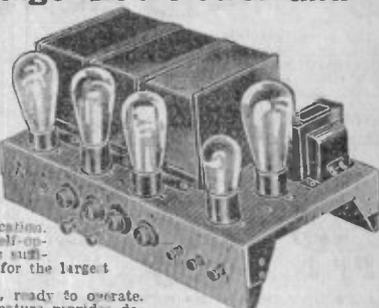
LIST OF PARTS

- 1—Power supply transformer.
- 1—Heavy duty double choke.
- 1—Push-pull input transformer.
- 1—Push-pull output transformer.
- 1—Anonymous 210 condenser block.
- 4—UX sockets.
- 1—2000 ohm resistance.
- 1—10,000 ohm resistance.
- 2—3000 ohm resistance.
- 1—.005 fixed condenser.
- 1—10x19 baseboard.
- 2—Binding post strips.
- 10—Binding posts.
- 1—Wiring diagram, screws, wire, hardware.

\$36⁹⁵

Tubes required: two CX 381 rectifiers, two CX 310 amplifiers.
3R231—Complete kit of parts. List, \$78.00. Net

Two Stage 250 Power and
Phono-
graph
Amplifier



A complete audio unit to replace the audio amplifiers of any receiver or may be used with magnetic pickup for phonograph amplification. Is completely self-contained and supplies sufficient plate current for the largest radio receiver.

Completely Built, ready to operate.

The plate supply feature provides direct, intermediate and 50-watt terminals. A 374 voltage regulator is used to keep the receiver plate voltages constant regardless of line fluctuations. Requires one 227 AC tube, one 250 amplifier, two 281 rectifiers and a voltage regulator. Produces sufficient volume for any home or auditorium use. Power output will handle a dynamic cone. Too powerful for use with magnetic speakers.

Size, 16 1/2 x 7 1/2 inches. For 110 volts, 60 cycles AC only. Ship. wt. 50 lbs.

3R233—Complete, ready to work. List, \$125.00. Net

\$58⁷⁵

250 Power Amplifier Kit

Complete parts for the construction of a power pack using a 250 tube as last stage audio amplifier. Uses a pair of 281 tubes for rectifiers. Build it yourself in one evening. Ship. wt., 22 lbs.

LIST OF PARTS

- 1—Power supply transformer.
- 1—Heavy duty double choke.
- 1—Audio transformer.
- 1—Heavy duty output choke.
- 1—250 condenser block.
- 3—UX sockets.
- 1—2000 ohm resistance.
- 1—10,000 ohm resistance.
- 2—3000 ohm resistance.
- 1—12,000 ohm resistance.
- 3—1. mfd. by-pass condensers.
- 1—Binding post strip.
- 10—Binding posts.
- 1—10x19 baseboard.
- 1—Wiring diagram, screws, wire.

3R232—Complete kit of parts, without tubes. List, \$85.00. Net

\$36⁸⁵

All Prices Quoted Are Net—There Are No Further Discounts

Public Address System

All Present Will Hear Every Sound

whether it be a lecture, concert or theatrical performance, when this professional high powered speech amplifier is used. Absolutely lifelike and realistic in enunciation. The speaker's voice is clear and tense, no muzz or roar. Volume is tremendous. The single giant horn will fill an entire auditorium, while the trumpets, listed below, may be used for outdoor performance on a large scale. Any number of speakers up to 20 may be employed. Power is obtained direct from the 110 volt light socket.

A new and extremely profitable use for the power amplifier and speaker horn is the reproduction of the Movietone and Vitaphone programs. The purchase of this installation and the necessary light wave rectifier will result in an outfit that will enable the smaller theater to compete with the larger houses in the presentation of the talking movie program. This amplifier is in every way suited for this work, for it gives lifelike reproduction and sufficient volume for even the largest of theatres. The microphone may be used in giving spoken announcements from the stage as well. This house will be pleased to render any service possible to a theatre or other institution desiring to install either a public address system, Vitaphone reproducer or large scale entertainment project. Our staff of competent engineers is at your disposal.

Kellogg Microphone of the same pattern used by the NBC and other professional systems is furnished. It is absolutely the most sensitive and reliable microphone available for public use at a reasonable price. Picks up sounds many feet distant. No need for the speaker to tire himself by shouting. A whisper will be amplified to a mighty roar.

Kellogg Microphone

without mounting case. Not shown. Unit only, for spring suspension. Consists of recording unit protected by heavy metal shell, open at both ends. Three ring bolts for hanging in frame. Shipping weight, 20 lbs. May be shipped by express only.
3R6547—Unit Only. Net. \$100.00

Mounting Case for table use. As illustrated. Unit easily installed. Shpg. wt., 10 lbs.
3R6548—Mounting Case Only. Net. \$25.00



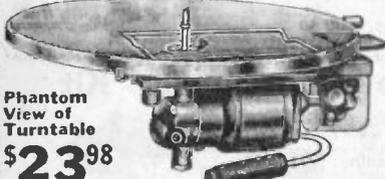
Tone Arm Style Pickup

For permanent installation. Screws fast to baseboard. May be used in converting old style phonograph, or building new. Works with either a radio, or its own power amplifier. Bronze finish. Tilt back, counterbalanced arm. Correct pressure. Weight, 8 lbs.
3R6540—List. \$20.00.
Net. \$8.85



Carter Phono-Radio Switch

Plugs into detector socket. Tube fits in a adapter. Switch changes from radio to phonograph instantly. Pickup connects to terminals on cord. Shipping weight, 2 lbs.
3R6541—For DC sets.
3R6542—For AC sets.
List. \$2.75. Net. \$1.62



Phantom View of Turntable
\$23.98

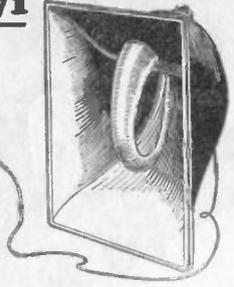
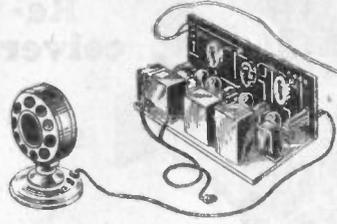
Bodine Electric Drive

This Bodine type RC 10 is expertly designed and constructed to give lifelong service in any phonograph. It is thoroughly reliable and can be depended upon to give care-free service.

Completely Equipped with Turntable

Large enough to play any record. The shaded pole induction motor, used in this turntable has no brushes nor any commutator. It cannot spark or cause interference. It is noiseless in operation. An accurate governor maintains a constant speed irrespective of voltage fluctuations while permitting speed control to suit the individual taste. Suspended on spring mounting. For 105-120 volt 60 cycle AC. Ship. wt., 30 lbs.
3R6585—List. \$37.50. Net. \$23.98

3R6591
Complete Public Address System with Microphone Amplifier and Giant Horn. \$298.71
Less Tubes



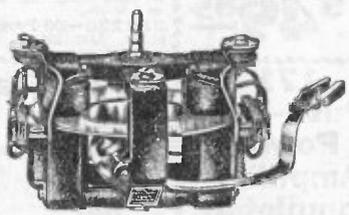
Thordarson Amplifier and Racon Giant horn complete the installation. Amplifier is wired, ready to operate. Microphone and speaker plug in. Only other connections are power line. For a detailed description of amplifier turn to page 96, the Dealers Amplifier. Tubes are not included at price quoted.

Racon Giant Speaker

12 1/2 foot exponential air column. Speaker is correctly designed for single installation and may be used for all indoor performances including Vitaphone and Movietone projections. Bell, 30x45 inches. Shipping weight, 40 lbs.
3R6549—List. \$200.00. Net. \$85.00

For multiple outdoor installations we recommend the trumpets listed below.

The Tubes required for operation are two 227s for 1st and second stage, two 250s in push pull for the third, two 281 half wave rectifiers and an 874 regulator tube. We sincerely recommend Silver King tubes, listed on Pages 82 and 83, for we have found that they perform remarkably well in this amplifier.



G. E. Induction Motor

for Electric Phonograph drive. Has no brushes or commutator. Absolutely silent in operation. Used by many manufacturers of orthophonic phonographs. Governor and speed control switch. No cord included. Weight, 25 pounds.
3R6543—List. \$50.00. \$22.75
Net.

MOUNTING PLATE

Hanger for suspending motor from under side of baseboard. Weight, 5 lbs.
3R6544—List. \$7.50. Net. \$3.48

Public Address Trumpet



Used in parallel for speaking and popular entertainment. An exponential throat of correct design, the most satisfactory type to use where mounting space is available. Will throw the human voice a mile or more. Uses any power unit. Trumpet only. Hanging hook included. 22 inch Bell, 42 inches long. Net weight, 3 1/2 pounds. Shipping weight, 25 lbs.
3R6545—List. \$20.00. \$9.95
Net.

Turn Table

For use with the driving motor or at the left. 12 inches in diameter. Covered with felt. Cast in one piece. Machined to perfect balance. Runs absolutely true. Ship. wt., 5 lbs.
3R6546—List. \$2.50. Net. \$1.20



PICK UP ARMS

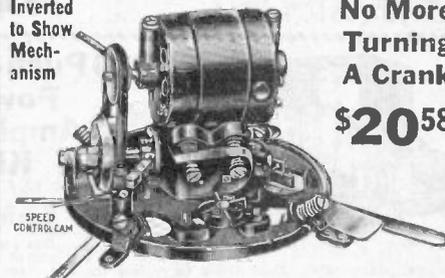


Arm only, to mount in place of one on phonograph. Unit fastens to end by friction sleeve and set screw. Bronze finish. Wt., 2 lbs.
3R6586—List. \$3.50. Net. \$1.95



Arm only. Gooseneck carriage, counterbalanced. To accommodate units that mount vertically, also to play Edison and Pathe records. When ordering either of these arms be sure to state the make of pickup and size and manner of detaching disc so correct adapter will be furnished. Include rough sketch with dimensions if possible.
3R6587—List. \$3.50. Net. \$1.95

Inverted to Show Mechanism

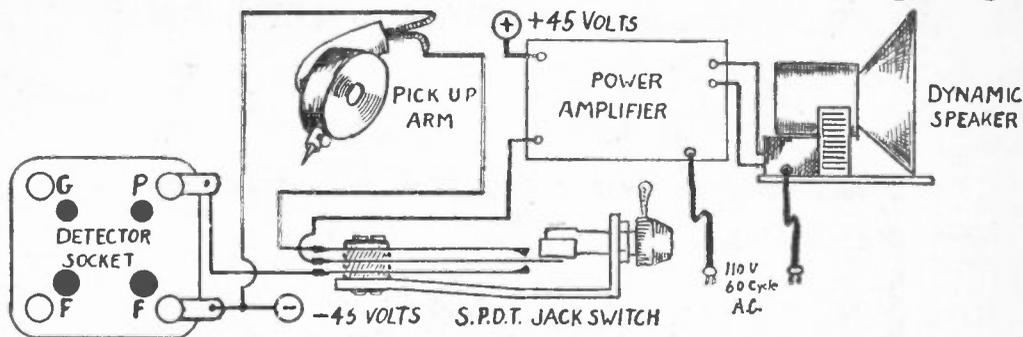


No More Turning A Crank
\$20.58

Johnson Gordon Electric Phonograph Drive

Whether building new, or remodeling an old phonograph the Johnson Gordon Electric drive will provide you with smooth silent power, year in and year out, with no attention on your part save an infrequent oiling.
 Entire unit is mounted on the underside of the baseboard, with only the drive shaft and speed control coming through. On and off switch is controlled electrically and may be mounted wherever you see fit. Will fit either a phono-radio console or any phonograph. Ship. wt., 35 lbs. For 110 volt 60 cycle current only.
3R6588—List. \$35.00. Net. \$20.58

Make Your Present Receiver Into An Up-to-Date Radio-Phonograph



Your radio receiver can be used as the foundation for an orthophonic type phonograph, equal in tone quality to most expensive now on the market.

A POWER AMPLIFIER IS ADVISABLE

The Amplifier furnished in a regular receiver does not produce sufficient volume for satisfactory phonograph reproduction. The exception to this, is some of the newer receivers which makes use of high plate voltages and power tubes. A power amplifier, complete with all rectifying equipment, may be purchased as a unit, or you may build it yourself.

GREATER CAPACITY, TRUE TO LIFE TONE

The demand today is for absolute true to life tone reproduction. All the instruments incorporated in an orthophonic phonograph are designed with that end in view.

THE ORTHOPHONE type is one of the most revolutionary instruments on the market today. Its introduction boosted the phonograph industry till now it competes with radio for the entertainment of the nation.

EXTREMELY SIMPLE. So simple in fact, it is a wonder the idea was not conceived much earlier. It operates on the same principle as a radio, only using the pickup arm as the rectifying medium between the record and the amplifier, where the detector tube performs the same function in the radio, transferring electrical impulses into audible sounds.

EASY TO INSTALL. There is no complicated procedure involved in converting an old style phonograph to an orthophonic type. There is no need to bore a single hole. Remove the old tone arm, substitute the pickup. The spring drive may be used, or if you desire, an electric motor may be installed in its place. The advantages of an electric motor are that it never needs winding, runs silently and maintains the desired speed at all times.

INSTALL IN RADIO CONSOLE

A number of consoles with compartments for both radio and phonograph are available. One of these is recommended if you are not the owner of a phonograph.

DYNAMIC SPEAKER

2R5048

\$17⁹⁵



Pickups on Pages 98-102
Power Amplifiers on
Pages 96-99
Speakers on Pages 65-76
Jack Switches on
Page 137
Electric Drives on
Page 100
Tools, Etc. on Pages 150-151

Electric Pickup



THE DYNAMIC SPEAKER is largely responsible for the success of the orthophone. While an ordinary magnetic speaker will work and produce excellent results, they in no way compare to those delivered by the dynamic cone. The cone of the speaker is:

FREE TO VIBRATE with each impressed pulsation. This means that sounds which would not actuate the spring of a magnetic speaker are clearly reproduced. No matter how loud the volume or how deep the note the dynamic faithfully reproduces it without distortion, blasting, or other discordant sounds.

FIELD CURRENT NEEDED for operation means that a source of electricity must be available. If you are supplied with 110 volt AC a model is available which plugs directly into the light socket. There are two other models, one which runs on 90 volts direct current, the other from a six volt storage battery. Choose the one which best meets your particular requirements; all are equally economical and satisfactory in operation.

THE PICKUP requires 45 volts of direct current. This is provided by the battery or eliminator which also supplies the detector tube. The current drain is very slight.



THE SINGLE POLE DOUBLE THROW SWITCH may be mounted either on the panel or wherever most convenient. Do not make the leads any longer than necessary. The actual connections to the receiver require a certain amount of skill and should not be attempted unless one is familiar with the circuit and understands the handling of a soldering iron.

INSTALLING THE SWITCH. First bore a hole in the panel, or wherever the switch is to be placed, and mount. Now study the wiring of the receiver. Locate the wire that runs from the plate of the detector tube to the P terminal of the first audio transformer. Cut it. Connect the end that goes to the plate to the upper spring of the jack switch. If you are using a separate power amplifier, the center spring of the jack switch goes to one of the input terminals, if not, it connects to the P terminal of the first audio transformer. The remaining spring of the jack switch goes to the pickup arm.

The connections to the receiver itself are now complete. It is advisable that rubber covered flexible wire be used for these connections, and be sure that all joints are well soldered.

The other lead from the pickup goes to the negative detector B supply, while the positive B lead connects to the other input terminal of the power amplifier, or, in the receiver to the primary of the first audio transformer.

Operation. When used for playing the radio, the switch is turned so that the detector is connected in the circuit. If a power amplifier is used it will be connected in the circuit instead of the regular amplifier.

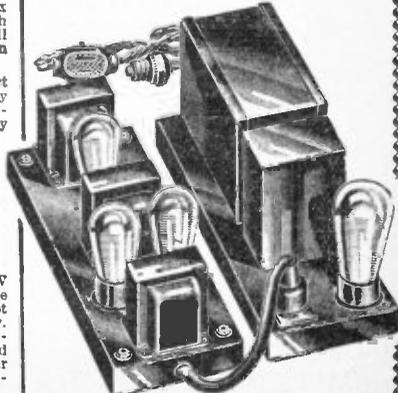
For playing the phonograph, throw the switch the other way and turn off the tubes of the receiver, for they are not needed.

RESULTS. You will be very pleased with your new source of entertainment, as all of the hundreds of other owners are. One has but to hear an orthophone to be overwhelmed with the deep, rich melodies and delicate accentuation of the music. The power amplifier completely rejuvenates your receiver, while the phonograph provides excellent entertainment for evenings when radio is bad. Then, bring out your old favorites and enjoy them to your heart's content.

POWER AMPLIFIER

3R2337

\$27⁵⁰



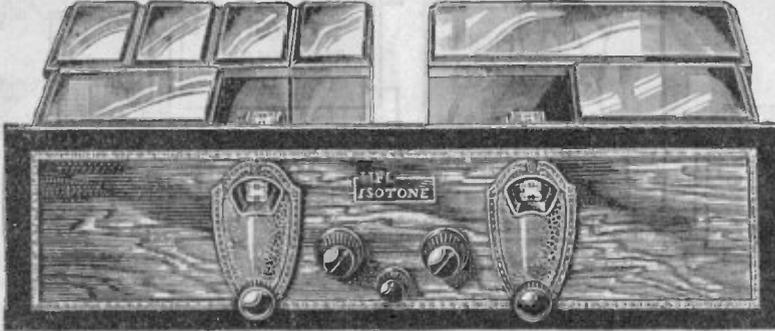
HIF ISOTONE

SCREENED GRID SUPER AND PHONOGRAPH AMPLIFIER

**Absolute
One Spot
Opera-
tion**

**8 K. C.
Tuning**

**450 K. C.
Range**



**Complete
Assembly
in Only
One Hour**

**Operates
Dynamic
Speakers**

Unlimited Range

This excellent instrument employs many new engineering features for radio receivers. The range is governed only by the limitations of the user. By hand tuning the three-stage screen grid amplifier, the set may be adjusted so accurately it will drive right through locals and pick up any station capable of transmitting signals that far through the existing weather conditions. Stations all over the continent have been received with loud speaker volume. Absolutely one spot tuning.

Hairline Selectivity

Tests actually prove a wave band of only 8 kilocycles may be selected. The sharpest selectivity known at this date. Cuts through the side bands of a near at hand station and picks up DX without interference.

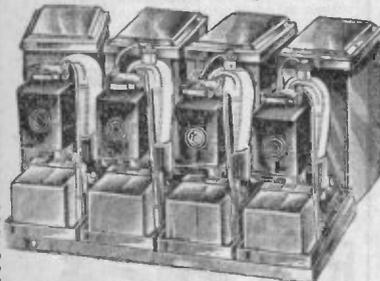
Quality of Tone Is Exquisite

Five power tubes are largely responsible for the unsurpassed tonal quality. An automatic tube ballasting system eliminates all voltage surges.

Note These Features!

Three-stage screened grid amplifier. New signal static balance control. Manually tuned R.F. amplifier glass. Three-stage push-pull audio amplifier. Special audio frequency filter. Automatic tube ballasting control. Measured gain of 65 per stage. Dual phono-radio volume control. Perfect phonograph reproduction. Laboratory assembled and matched units. Built-in microphone transformer. Absolute stability, cannot squeal or howl. Completely shielded, invisible wiring. New type loud speaker inductance. Spring suspended tube sockets. Specially designed tank condensers. New mixing balancing padder, and many more modern improvements.

Screen Grid Amplifier



Operating frequency 450 kilocycles, allowing absolute one-spot operation. Extremely sensitive, having a measured gain of 65 per stage under actual operating conditions. Transformer coupled with variable secondary tuning. All wiring and units perfectly shielded. Absolutely stable, cannot squeal or howl. Arranged for subpanel mounting and sold completely assembled and wired. Fully guaranteed against mechanical and electrical defects. A perfect unit for use in any receiver of the super type. Overall size 11 1/2 x 5 1/4 x 6 1/2 inches. Requires three types 222 tubes and one 112A.

Packed in sealed carton. Shipping weight, 20 lbs.

2R1848—List, \$60.00.

\$35.28
Net

Easy to Assemble

The Isotone Kit is composed of three factory assembled units, the tuner and oscillator assembly, the radio frequency amplifier, the audio amplifier, the subpanel and the aluminum housings for the above. All these are unconditionally guaranteed to be mechanically and electrically perfect and can be assembled into one unit in an hour. They are packed in a factory sealed carton and reach you unopened. The set builder who handles the Isotone will find a set that has a minimum of service worries and a consequent greater order factor. It is an excellent business proposition, a great money maker.

ABC Power Supply

Designed especially for the Isotone. Absolutely no AC hum, voltage surges and motor boating. Oversize condenser sections have unusually high breakdown rating, allowing perfect low note reproduction. Supplies direct current of 6 volts, 2 1/2 amperes, for heating the filaments. Plate voltages of 45, 90 and 135, with 180 for the power amplifier. A fixed 0-bias of 40 volts and variable 0-15 for first stage audio. Mounted on a satin finished cadmium plated steel base with steel covering case to match. Guaranteed against breakdowns. Operates perfectly with Isotone receivers. Size 11x10x3 1/2 inches. Uses one type 288 tube.

Ship. wt. 30 lbs.
2R1847—Complete with tube. **\$55.86**
List, \$95.00. Net

Audio Transformers

Designed to match the impedance of all modern tubes. High frequency cut-off, excellent low note reproduction, shockback and c.l.a.m.p.e.d. laminations. Subpanel mounting. Size 3 1/2 x 2 1/4 x 2 1/2 inches.
2R1827—1st stage 3-1. List, \$8.00. Net \$4.70
2R1834—2nd stage 1-1. List, \$8.00. Net \$4.70
2R1835—Output transformer to match and c.l.a.m.p.e.d. laminations. Net, \$4.70
2R1836—Push-pull input, 1-1, balanced secondary. List, \$9.00. Net, \$5.29
2R1845—Push-pull output with balanced primary, ratio 1-1. List, \$9.00. Net \$5.29
2R1846—Microphone transformer for magnetic phonograph pickup. Ratio 2-1. List, \$8.00. Net \$4.70
Shipping weight, each 2 1/2 pounds.

Phonograph Records Can Be Played

Through the three-stage push-pull amplifier by simply throwing the control knob on the front of the panel. Operates perfectly with standard 180-volt B power supply, batteries or the specially designed HFL ABC power supply.

Effortless Control

The line drive drums work smoothly and silently. No backlash, no lost motion. Enables hair-breadth tuning without a slip. As sure and silent as the footfalls of a cat.

Completely Shielded

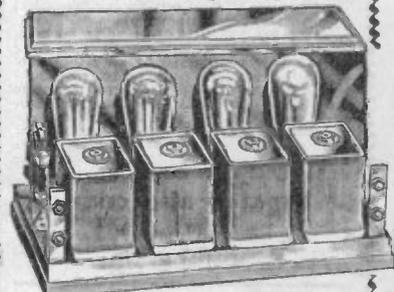
Each unit is encased in a shell of 24-gauge aluminum, isolating it from all others, eliminating all tendency to transfer energy. Either a loop or an aerial will give excellent results. The set absorbs radiation through the channel provided only. Automatic filament control decreases regulation to a minimum and considerably simplifies operation.

All the tools needed for building are a screwdriver, pliers and soldering iron. Battery or power pack connections are made from a seven-wire cable. Cord tip jacks for antenna or loop. Uses 3-222, 3-112, 2-171 and 2-301A tubes. Shipping wt., 75 pounds.

2R1808—List, Complete Kit, Without Tubes, \$195.00.
Your Price

\$114.66
Net

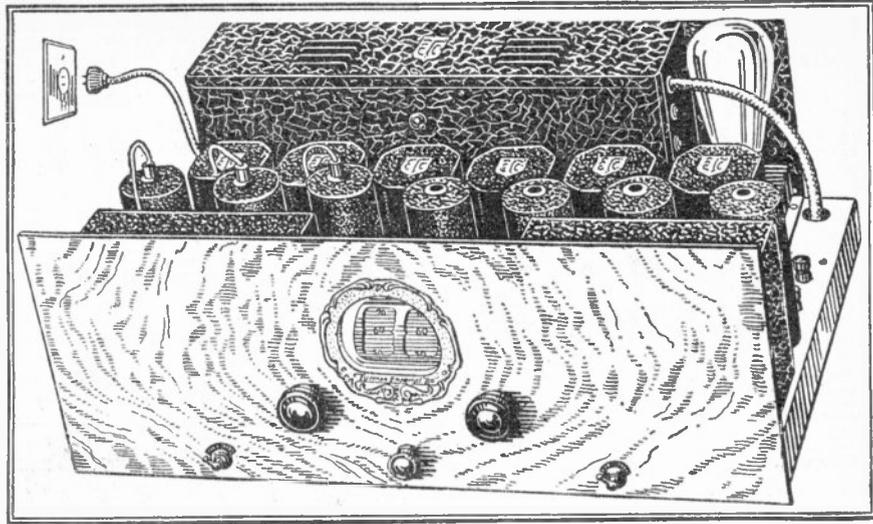
Audio Amplifier



Three-stage push-pull with built-in microphone transformer and audio filter. Operates all dynamic speakers and allows perfect radio and phonograph reproduction. The secondary coils wound in two sections and matched for inductance, capacity, resistance and impedance balance. Primary coil is then inserted between the two halves of the secondary, allowing a perfectly balanced transformer. All instruments and wiring perfectly shielded. Arranged for subpanel mounting and sold separately, completely assembled and wired. Overall dimensions, 11 1/2 x 5 1/4 x 6 1/2 inches. Uses two type 112A and two type 171A tubes. Shipping weight, 20 pounds.

2R1811—Complete. List, \$55.00.

\$32.34
Net



Tyrman Imperial "80"

Custom-Bilt Shielded Grid

A Complete AC Receiver with Built-in Power Amplifier

This circuit uses AC Shielded Grid Tubes functioning at a high point of efficiency while still retaining great selectivity and sensitivity. Operates directly from light socket and is equipped with assembled power supply requiring no adjustments.

Duo System of R F Amplification

The R F circuit combines the use of impedance and transformer amplification, retaining the good qualities of both and providing remarkable stability of operation. Better selectivity with pure tones is also provided.

Audio Amplifier of Supreme Tone Quality

The Audio System has been carefully worked out for use with the shielded grid tube, balancing the characteristics of this tube to produce greatest volume with wide range of pure, undistorted tones.

For Use With Dynamic Speakers

The Audio System is designed to provide output of proper characteristics for Dynamic cone or other heavy duty speakers. Extra large size core and windings of proper proportions insuring maximum amplification at all times.

10 Kilocycle Performance

10 Kilocycle separation of stations over the entire wave band, with maximum selectivity and sensitivity at all points. Breaks through high powered local stations in spite of heavy interference.

Simplified Control

Two selector tuning knobs make tuning easy, yet insure getting distant stations not possible with single control tuners. Control for regulating volume. Great flexibility of tuning and volume always obtainable. Changeover switch for phonograph and on-off switch on front panel.

Beautiful Appearance

New process front panel, size 8 by 21 inches, with genuine Burl walnut veneer impressed on steel foundation. Will not warp or break. Very attractive, beautiful finish. Matches the most expensive furniture. Easily cleaned with furniture polish.

Easy to Assemble

All parts carefully selected and tested at factory. Everything fits together and the finished job equals in engineering features and appearance the finest factory assembled sets. In fact, it far surpasses all but the highest price sets on the market. Sub-panel wired as far as possible. All connections short and direct. Pliers, knife, soldering iron and screw driver are all the tools needed. Takes about five hours to do a careful job of wiring. No preliminary balancing or experimenting required. Follow directions and you will have a set to be proud of.

TUBES REQUIRED

3-222 AC Shield Grid; 4-227 AC Amplifiers; 1-250 Power Tube, and 2-281 Rectifier Tubes. See pages 94 to 100.

Factory Packed Kits

All genuine Tyrman quality, packed and sealed at the factory. Absolutely nothing else to buy. Complete instructions included. Illuminated drum, worm gear drive. Sub-panel 13 1/4 x 20 1/2 inches, makes a most compact and attractive receiver.

COMPLETE TYRMAN 80 COMPLETE KIT, includes all necessary parts for building. Complete with powerpack. Shipping weight, 65 pounds.
2R5508—List, \$199.50. Net.....

\$117³⁰

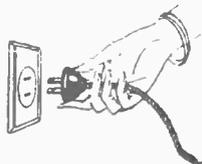


Made for Use with the New AC Filament Shield Grid Tubes.

This is one of the first sets to make use of the newly released alternating current filament shielded grid tube. These new tubes are revolutionary in themselves in that they throw wide open the possibilities of radio frequency amplification that up to recently were merely engineers' dreams. Progress in radio is forging ahead by leaps and bounds. The set of tomorrow use shield grid tubes, as exemplified in the Imperial 80.

Factory Assembled Power Pack.

Factory assembled powerpack for Tyrman 80 receiver. Ship. wt., 35 lbs.
2R5507 \$38²²
 List, \$66.50.
 Net



Plugs In Light Socket—No Batteries.

Just four connections: antenna, ground, speaker and the light socket. Entirely electric. No C battery or dry cells. Uses AC tubes, no storage battery.

BUILT-IN POWER AMPLIFIER.

A built in power amplifier, rectifier and B supply, all on one sub-panel. Set a n d powerpack go in the space occupied by the average receiver. Uses a type 250 power tube for second audio stage, insuring volume and a pure tone quality that will please the most critical.

Adaptable to Short Waves.

Short Wave Plug-in Coils may be purchased by those who wish to take advantage of the lower waves, insuring reception of many fine programs beyond ordinary reach. World wide reception every night.

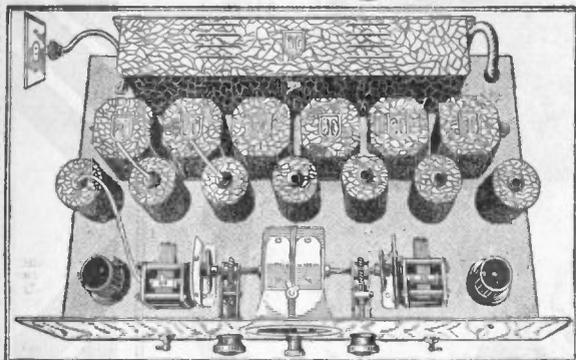
Kit of Parts for Receiver Only.

Kit of parts for building Tyrman 80 Receiving Set only. Ship. wt., 35 lbs.
2R5508 \$79⁰⁸
 List, \$134.50.
 Net

All Prices Quoted Are Net—There Are No Further Discounts

Tyrman "72"

Custom-Bilt Shielded Grid



Incorporates All Engineering Features Used in the Imperial 80

Can be supplied for either battery or AC operation. DC kit is arranged to produce maximum results when used in connection with battery. AC kit is provided with power pack and can be directly connected to power line. No batteries required. DC kit is so arranged that if desired at a later date, outfit can be changed over for light socket operation by making a few slight changes in set and adding power pack, as listed below.

Single Spot Selection

Any given station will be found at only one spot on the dial. When once logged you can depend on finding your station at point previously located.

10 Kilocycle Separation

Two tuning controls provide sharp separation between all stations without interference from others in the background. No whistles nor howls from stations on different wave lengths. It is usually possible to cut through high powered locals and pick up distant stations.

Just That One Station

Will be all you hear at that time—no others. This is a most desirable feature, for it will provide most satisfactory entertainment. Tone quality and volume are the best that modern engineering has devised.

Beauty and Simplicity

Fine figured, genuine burled walnut impressed on steel foundation. Panel size 8x21 inches. Volume control. Phonograph change over and on-off switches on front panel.



Designed Especially for New Shielded Grid Tubes

Volume and sensitivity are characteristics of shielded grid tubes. Tyrman Model 72 and 80 use these features to fullest advantage, in a way that is amazing to even the expert radio man.



Factory Sealed Kits

All parts are genuine factory selected and tested, carefully packed and sealed one kit to a carton. Nothing extra to buy except tubes. Tubes required for Tyrman Model 72 are: 3, 222 AC Shield Grid; 4, 227 Amplifier; 1, 250 Power Tube; 1, 280 Rectifier Tube. Not included in price.

2R5504—Parts for 72 with ABC Pack, complete. List, \$183.50. Net, \$90.26. Shipping weight, 60 lbs.

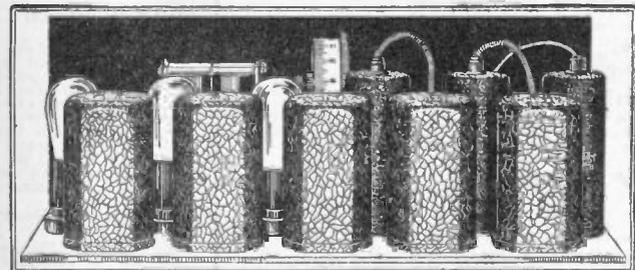
2R5502—ABC Power pack, assembled complete. List, \$55.00. Net, \$32.34. Shipping weight, 35 lbs.

2R5503—Parts for Battery Operated Kit. List, \$98.50. Net, \$57.92. Shipping weight, 35 lbs.

2R5501—Complete Set of 4 short wave coils. List, \$10.00. Net, \$5.88. Shipping weight, 1 1/2 lbs.

Tyrman "60"

Custom-Bilt Shielded Grid



The Screen Grid Super

An Improvement on Model 70, Last Year's Sensation

This set will operate equally well on either batteries or powerpack, although we recommend a powerpack for reliable and constant current supply.

Uses Shield Grid Tubes

Tubes required are type 222 with DC filament, 201-A for detector and amplifier, and power tube for last stage. The size of the power tube is limited only by the available voltage. The larger the tube, the better the tone quality and the greater the volume. Antenna and ground are used. Size of antenna is not important if well insulated, and ground makes positive contact.

Very Compact

The front panel is remarkably small for a super, for it is only 7x18 inches. That it is possible to contain an entire super in a space this size is a genuine Tyrman triumph in compactness without the usual loss of efficiency. This is because everything is shielded, and works in harmony without the usual intercoupling of component parts.

Factory Sealed Kit

The complete set is compiled of genuine Tyrman parts, machine made and absolutely accurate and uniform in size and performance. The kit is packed and sealed in a carton at the factory and is not opened until it reaches your hands. All parts are exactly what they are claimed to be, genuine Tyrman.

The Model 60 can be assembled in a single evening at your home. All the tools you need are a soldering iron, pliers, screwdriver and scraping knife. All the skill required is an ability to read blue prints and solder good connections.

2R5905—Complete Kit without tubes. List, \$69.50. Net, \$40.86. Shipping weight, 32 pounds

Combined Detector and Oscillator

In the intermediate frequency amplifier a 201-A tube is used for the first detector and oscillator. This gives the results of two separate tubes without impairing efficiency in the least.

Performs Remarkably Well

This combination of two functions for a single tube is made possible by combining the proper values in 3 special coils. To simplify control, a gang condenser is used, which is easily tuned with Tyrman single Vernier Drum Dial.

Only six tubes are used. 3 type 222, 2 type 201-A and 1 power tube.



Using
Famous
Aero
Coils

AERO KITS

Distance
Selectivity
Volume
Clarity

MAKE
DISTANCE GETTING
BROADCAST RECEIVERS

These kits are in very complete form, with all holes drilled in the subpanel and some of the smaller instruments already mounted. The most complicated of them can be assembled in one evening, or less.

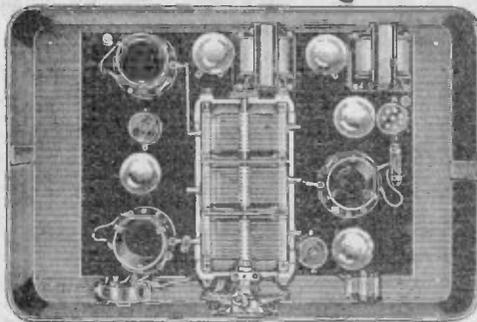
Not only are they simple in construction and highly efficient in operation, but special pains have been expended to make them objects of beauty. They are mounted in beautiful two-tone metal cabinets,

highlighted with silver, and set off with an escutcheon plate of oxidized silver.

The single control is attractively incorporated in this escutcheon, the dial readings being observed through a taper-sided peephole, the operating control having a walnut finished knob below it. Two auxiliary controls, one volume control—the other the antenna trimmer.

Aero Chronophase Shield Grid—A. C.—D. C.

FIVE TUBE KIT



A newly developed five-tube receiver using "Chronophase" radio frequency amplifier. There are three models—Shield Grid model, using two 222, two 201A, one 171 tubes—AC model, using four 227 and one 171 tubes—DC model, using four 201A and one 171 tubes. Very convenient tuning with single knob, two additional controls for volume and trimming.

The Chronophase Principle

The phase angle relation between the voltages in the primary and secondary windings of a radio frequency transformer has been developed in the Chronophase. This development makes possible the regulation of the amount of energy and increases the amount of transferred energy, giving greater amplification, greater selectivity and longer range. Great possibilities with the shield grid tube. All kits are factory packed, complete with every part necessary. Cabinets supplied are of handsome proportions with special Aero escutcheon plate and illuminated dial.

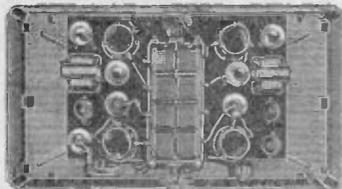
PRICE LIST

Prices With Cabinet	Prices Without Cabinet But With 7x18 Panel
3R1277—For Shield Grid.	3R1280—For Shield Grid.
3R1278—For AC Tubes.	3R1281—For AC Tubes.
3R1279—For DC Tubes.	3R1282—For DC Tubes.
Complete with 9x18x12 metal cabinet. List Price, \$74.50.	List Price, \$68.55.
Net \$43.81	\$40.31
Shipping weight, 16 lb.	

\$43.81
NET WITH CABINET

Aero 7-29—Shield Grid—AC-DC

Seven Tube Kit



Employs a single stage of semi-aperiodic coupled, and three stages of condenser tuned radio frequency. Cuts through high-powered locals and picks up distant stations with surprising ease. Volume and tone quality

are assured by the use of special new audio transformers. The three radio frequency condensers are ganged onto a single shaft controlled by an illuminated drum dial. This is the only tuning knob, two auxiliary controls—antenna compensator, and the volume control.

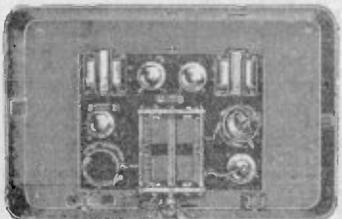
These models: Shield grid using four type 222, one 201A and one 171; AC using six 227 and one 171; DC using six 201A tubes and one 171.

Kits are factory sealed, all parts included. Nothing extra to buy. May be assembled in one evening. Full instructions supplied.

PRICE LIST

With Cabinet	Without Cabinet But With 7x18 Panel Bakelite
3R1283—For Shield Grid.	3R1286—For Shield Grid.
3R1284—For AC Tubes.	3R1287—For AC Tubes.
3R1285—For DC Tubes.	3R1288—For DC Tubes.
List Price, Each, \$97.85.	List, \$97.85.
Net \$57.54	\$51.36
Shipping weight, each, 20 lb.	

Aero Metropolitan Shield Grid—AC-DC—Four Tube Kit



Especially designed to obtain the maximum gain of a regenerative receiver. Uses a single stage of tuned radio frequency, a regenerative detector and two stages of audio. Selective, good volume, fine tone quality. Equal most ordinary six-tube sets. Inter-electrode capacity of tubes neutralized. Kit complete, ready to wire.

PRICE LIST

With Cabinet	Without Cabinet But With 7x18 Panel
3R1289—For Shield Grid.	3R1292—For Shield Grid.
3R1290—For AC Tubes.	3R1293—For AC Tubes.
3R1291—For DC Tubes.	3R1294—For DC Tubes.
List, \$58.00.	List, \$53.00.
Net \$34.10	\$31.16
Shipping weight, 14 pounds.	

Aero Trio—AC or DC

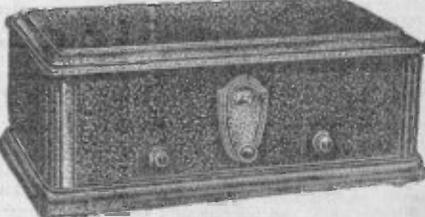
Three Tube Kit

The old reliable three circuit tuner, that has been in use since before the war. A fine set for the radio fan who likes a hundred miles or more from the nearest broadcaster. A wonderful distance getter but not very selective. No radio frequency stages are used. Made in two models only. Kit is complete with drum dial and all parts needed, down to the smallest screw. Can be assembled in an hour. The model 30 uses two 227 AC tubes and a 171 power amplifier. The model 31 is for use with batteries. It employs two 201A DC tubes and a 171. Set may be had in either an attractive two-tone metal cabinet, or with bakelite panel for mounting in your own console.

PRICE LIST

With Cabinet	Without Cabinet But With Bakelite Panel
3R1295—For AC Tubes.	3R1297—For AC Tubes.
3R1296—For DC Tubes.	3R1298—For DC Tubes.
List, \$42.00.	List, \$38.00.
Net \$24.70	\$22.37
Shipping weight, 12 lbs.	

Aero Kit Cabinets



The larger size furnished for the Aero 7-29 Kit. Dimensions 9x25x14 inches overall.

Following the latest approved practice, all metal cabinets are supplied with these receivers when so desired. These cabinets are made of pressed metal, are very durable, electrically efficient, a perfect shield, and finished in a very attractive two-tone finish with a flash of silver, lending an air of individuality to the receiver and harmonizing with the most expensive furnishings in the home.

May be washed with soap and water with no injury. The lids of the cabinets are detachable to permit inspection of interior and replacement of tubes. Rubber feet prevent injury or marring of the table top. Obtainable in two sizes.

Smaller size cabinet furnished for the Chronophase, Metropolitan and Trio Kits. Dimension 9x18x12 inches overall.



We Pay Freight As Per Offer Given on Page 900

**Coils
Coil Kits**

AERO PRODUCTS

INCORPORATED

**Tuners
Chokes**

Aero Coils are Electrically Perfect

When you buy aero-coils you are assured of getting inductances that are twice tested for electrical strength and wavelength range. All Aero Coils may be used over the full wavelength as specified by the maker, and each one of them will perform in a manner suited to its particular requirements. There is an aero coil for every circuit. By using the one recommended you will obtain results that are truly enviable.

Years of careful designing and painstaking research have been incorporated in these coils. We could not offer you better quality at twice the price, for there is none. No matter what circuit you are contemplating, it will work better with Aero-coil inductances. Tuning range from 200 to 550 meters.



Kits U-233 and U-230

Consists of 4 Universal auto-former coils for use in the Chronophase system of radio frequency amplification. Used with a three gang condenser. The antenna coil is aperiodic. All coils matched to same wavelength range at both ends of the scale. For use with all tubes. Shipping weight, 4 pounds.
3R1205—Kit U-233. For .00035 cond.
3R1206—Kit U-230. For .0005 cond.

List, \$15.00.
Net. **\$8.82**

Kits U-163 and U-16

Consists of one antenna coupler with variable primary and three Universal Radio Frequency Transformers. Suitable for use in the Aerodyne 6. For use with three gang condensers. Ship. wt., 4 lbs.
3R1207—Kit U-163. For .00035 cond.
3R1208—Kit U-16. For .0005 cond.

List, \$15.00.
Net. **\$8.82**

Kit RB-8

For adaptation of the Betts circuit. Consists of special antenna coupler with centrally located primary and a center tapped secondary. The radio frequency coil has a tap for use as part of the secondary winding of coupler and tickler. For use with .00035 condensers. Ship. wt., 2 lbs.

3R1225—List, \$8.00.
Net. **\$4.70**

Kits U-953 and U-95

Similar in most respects to U-273, except that somewhat lower energy transfer is accomplished and greater selectivity can be obtained. Recommended for use with the Chicago Daily News circuit, or others of that type. Consists of two coils, an antenna coupler and a R. F. Transformer. The transformer has four coils, primary, secondary and tickler with energy coupling coil for amplifier tube. Ship. wt., 4 lbs.

3R1200—Kit U-953. For .00035 cond.
3R1201—Kit U-95. For .0005 cond.
List, \$8.00.
Net. **\$4.70**

Aero Universal 3 Circuit Tuner

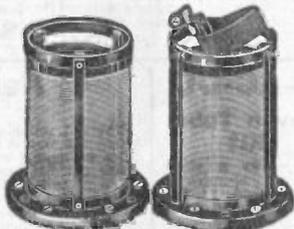
Fixed tickler using .00025 variable condenser for regeneration. Variable primary for governing selectivity. Used with 201A, 199, 112 or new AC tube. Range 200-550 meters. Ship. wt., 8 oz.
3R1046—No. U-55 for .0005 Condenser.
3R1047—No. U-553 for .00035 Condenser.
List Each, \$4.00.
Net. **\$2.35**

Aero Universal Antenna Coupler

Same construction as 3 Circuit Tuner. A highly efficient low-loss antenna coupler. Incorporates the famous Aero-Coil Universal Coil principle. Used with 201A, 199, 112, 240 or new AC tubes. Range 200-550 meters. Shipping weight, 8 ounces.
3R1048—No. U-98 for .0005 Condenser.
3R1049—No. U-963 for .00035 Condenser.
List Each, \$4.00.
Net. **\$2.35**

Amateurs—Notice!

A very complete line of Aero Coils and Kits for Short Wave Transmission and Reception are listed on Page 154.



Kit U-95

Consists of two coils, radio frequency transformer and three circuit tuner. For use in all circuits employing a stage of radio frequency and a regenerative detector, such as the Aero Four and the Chicago Daily News Receiver. R. F. coil consists of two windings, the secondary which is the larger, and a primary coil inside at the filament end.

The tuner has three windings, two similar to the R. F. coil, and in addition an antenna coil which is variable. All windings are self supporting, having no dielectric but air in their fields. Bakelite strips add mechanical strength without materially increasing the losses. A .00025 mfd. variable condenser is used to control regeneration of the fixed tickler coil. Uses any of the numerous tubes now available.

3R1230—For .0005 mfd. condenser.
3R1231—For .00035 mfd. condenser.
List, per kit, \$8.00.
Net. **\$4.70**

Aero Products Improve the Best Receiver

AERO CHOKE COIL



Designed for uniform choking over a wide range of wave lengths, including Broadcast and Amateur bands. Eliminates appearance of so-called "holes" in the tuning range. Shipping weight, 6 oz.
3R1062—No. C-60.
List Each, \$1.50.
Net. **88c**



Kits U-203 and U-200

This kit includes three special twice matched autotuner inductance units suitable for either interstage couplers or antenna couplers when the Chronophase system is used for the Chronophase, Shield Grid model and other receivers utilizing of tuned radio frequency. Suitable for use with all types of tubes, both AC and DC. This kit properly employed, will result in the most sensitive and selective tuned radio frequency amplifier which can be built with three tuned circuits. Shpg. wt., per kit, 3 lbs.
3R1202—Kit U-203. For .00035 cond.
3R1203—U-200. For .0005 cond.

List, \$12.00.
Net. **\$7.06**

Kits U-123 and U-12

Includes three twice matched Universal coils of the U-4 type, suitable for either antenna couplers or interstage, R. F. transformers using U199, 201A, 112 or 240 tubes, as well as all models of AC tubes, but not for shield grid tubes of any variety. This coil kit is designed to give maximum results in standard tuned radio frequency circuits. Shipping weight, per kit, 3 lbs.

3R1203—Kit U-123. For .00035 cond.
3R1204—Kit U-12. For .0005 cond.
List, \$12.00.
Net. **\$7.06**

Kits U-1203 and U-120

Consists of three inductances, an antenna coupler with a variable primary and two radio frequency transformers. Designed for use in a neutrodyne or other circuit calling for coils of these particular specifications. The open construction of the coils makes it possible to take off taps at any point desired without materially weakening the structure. No taps provided by manufacturers. For use with either single or gang condensers. Shipping weight, 3 pounds.

Intended for use with .00035 or .0005 mfd. condensers, either single or in a gang. A neutrodyne is easier to adjust with triple control, but the more advanced builder will find it easy to employ gang condensers.

3R1138—Kit U-1203. For .00035 cond.
3R1139—Kit U-120. For .0005 cond.
List, \$12.00.
Net. **\$7.06**

Aero Universal Wave Trap Unit

Makes very efficient wave trap or may be used to make crystal set more efficient. Low distributed capacity and resistance. Eliminates interference. Used in Radio News wave trap. Range 200-550 meters. Shpg. wt., 8 oz.
3R1050—No. U-4 for .0005 Condenser.

3R1051—No. U-43 for .00035 Condenser.
List, \$4.00.
Net. **\$2.35**



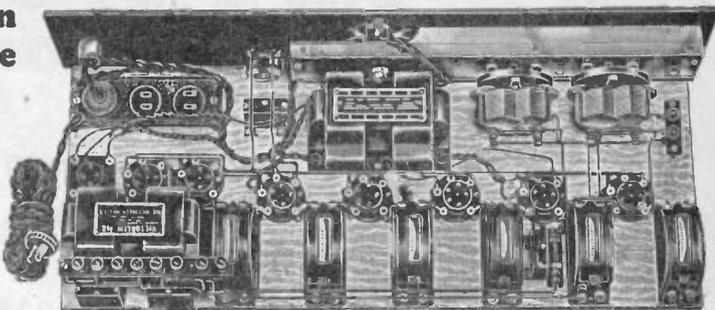
Subpanel Brackets

Made of heavy gauge stamped aluminum. Very substantial and very rugged. Gives your set rigidity and mechanical strength. Will support the largest receiver, or a small 11 transmitter. Shipping wt., 1 lb.
3R1199—List per pair, 70c. Net. **41c**

1929 VICTOREEN A. C. SUPER 8

All Electric Operation Superior Performance

The introduction of the 227 tube has made possible a tremendous advancement in the radio art, a super-heterodyne that runs directly from the light socket. With the usual promptness, Victoreen came to the front and here we offer you the very latest model, bigger and better than ever. A number of new improvements are introduced, among them being single dial control, Remler condensers, super power amplification, improved detection system, non repeat oscillator, fixed oscillator adjustment, smooth and even control throughout entire dial range, easier assembly, redesigned RF coils, no hum, and therefore no hum controls.



Victoreen DC Circuit

In this receiver all tedious and expensive matching and oscillation suppressing methods have been eliminated, due to the exact design of the transformers. Air core transformers are used, being sharply peaked at 85 kilocycles or 3400 meters. This wave offers the least trouble from harmonics. Each transformer has exactly the same amplification constant and is matched for wave length to within 1/3 of 1 per cent. Thus interstage coupling with attendant oscillations which destroys sensitivity and quality of reproduction is eliminated.

Circuit contains: Oscillator, first and second detectors, 3 intermediate frequency amplifiers and two stage audio. The audio stages use the new improved Victoreen 112 transformer unit which is the highest grade available. Gives perfect reproduction of all frequencies. Arranged for power tube in last stage. Switch provided for use of either a tapped loop or outside antenna. Very easy to construct. Complete instructions furnished. Shipping wt., 40 lbs.

- 3R373—Complete set of parts for 201A tubes. List, \$105.00. Net.....
- 3R374—Complete set of parts for 199 type tubes. List, \$105.00. Net.....

\$61⁰⁵

Mounted on Lignole Panel and wooden baseboard. Use 8 tubes. 7 of these are 227, used for oscillator, 1st and 2nd detector, intermediates and first stage audio and a 250 power tube for last stage audio.

In addition to the usual instruments the circuit contains the new and improved Victoreen Audio Unit, more powerful than ever and a connector block where all AC lines are plugged in, making necessary only a single cord running to light socket.

B Power supply uses 2-281 rectifier, 2-874 regulators and a 250 power tube.

C supply uses a 112A tube for rectifier.

Complete parts for the construction of this receiver along with full instructions for wiring and assembling. Ship. wt., 35 pounds.

- 3R585—List, \$164.84. Net..... **\$96.92**
- Victoreen B Power Supply Kit. Ship. wt., 20 pounds.
- 3R586—List, \$83.75. Net..... **\$49.25**
- Victoreen C Supply Kit. Ship. wt., 7 pounds.
- 3R587—List, \$29.60. Net..... **\$17.40**

Victoreen Audio Units

Answers the need for a transformer unit that will give wider tonal limits with exceptional freedom from distortion.

- 3R4733—No. 112. List, \$12.94. Net, \$22.00.
- 3R4734—No. 225 Filament transformer. List, \$22.00. Net, \$12.94

Victoreen Transformers

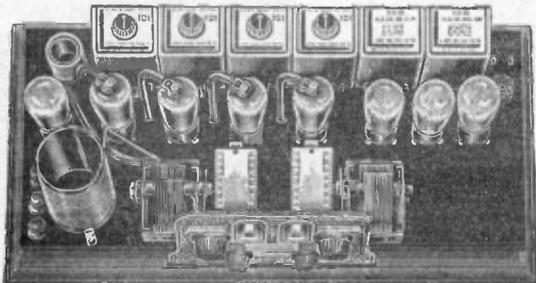
Very sharp resonance point—means great selectivity.

- 3R4718—No. 170 R. F. Transformer for 201A tubes. List, \$7.00. Net, \$4.12
- 3R4710—No. 171 R. F. Transformer for dry coil tubes. List, \$7.00. Net, \$4.12

Victoreen Couplers

3R4720—No. 160 Antenna Coupler. List, \$3.50. Net, \$2.06

- Either type of tube. To use antenna and ground, as well as loop, this unit is necessary.
- 3R4721—No. 150 Coupling Unit. List, \$5.50. Net, \$3.23
- Fixed type, requires no adjustment. Works with any tube.



LINCOLN 8-80

ONE SPOT SUPER Adjust While in Operation

The intermediate frequency transformers are designed especially for shielded grid tubes, and are variable through a frequency range of 350-550 kilocycles. The set may be peaked at any frequency desired.

Clear Signals—One Spot Tuning

Due to the employment of shield grid tubes and the new Clough system of audio amplification, signals from great distances, inaudible on average sets, are impressed and amplified to loud speaker volume, clear and sweet, with no mechanical noises and a minimum background.

Two tuning controls, each mounted on eliminator dials, easy to see, easy to read. Station separation is 10 KC; brings in one station at a time regardless of number on the air.

Simple to Construct

One does not have to be an expert mechanic to assemble this set in one evening or less. Only tools needed are a knife, pliers, screw-driver and soldering iron. Tubes used are four 222 shield grid, three 201-A and one 171. Everything that is needed, all the genuine specified parts, complete wiring diagrams and instructions are included.

For use with antenna only. Packed and sealed in box at factory, unopened till it reaches you. All parts the best. Shipping weight, 40 pounds.

- 3R5758—List, \$92.65. Net..... **\$45.66**
- 3R5759—Two tone metal cabinet for above. List, \$9.25. Net..... **\$5.44**

A New Principle

Stations in all parts of the United States are brought in loud and clear on a 16-foot indoor antenna. This unusual performance is made possible through a new departure, the tunable intermediate frequency transformers, found in practically no other receiver.

Condenser Tuned Transformers

Each intermediate transformer is housed in a copper shell and tuned by a small variable condenser mounted inside with the coil.

Mounted on Bakelite Sub-Panel

The entire assembly is mounted on a single subpanel, all drilled and with some of the smaller instruments mounted. You mount the remaining instruments in place and wire, and your set is finished. Nothing extra to buy, all complete in a sealed kit. You can assemble it yourself in one evening.

Lincoln Intermediate Frequency Trans- former

May be used in any super in conjunction with Lincoln oscillator coupler and antenna coil. Tuned by tiny variable condenser with knob protruding through top of case. Completely shielded, not affected by tube or body capacity. Shipping weight, each, 4 pounds.

- 3R4200—List, \$7.00. Net, **\$4.12**

Lincoln Oscillator Coupler

May be used in any superheterodyne receiver. Has three coils mounted on bakelite tubing. The split secondary on the outer, the pickup coil on the inside. Complete with mountings.

- 3R4201—List, \$3.00. Net, **\$1.78**

Antenna Coupler

A space wound coil on a bakelite tube. Wire is of heavy size and enamel covered, lowest electrical losses and elimination of eddy currents.

- 3R4202—List, \$3.00. Net, **\$1.78**

Lincoln Audio Transformers

Gain for first stage is 4.4, for second stage is 3.7. Reproduces signals at far greater volume while main construction of transformer retains all the quality of tone. Range from 40 cycles to 5,000. When used with a high class speaker this amplifier will perform up to highest expectations. Shipping weight, 4 pounds.

- 3R4203—No. 105 First Stage Audio. List, each, \$7.00.
- 3R4204—No. 106 Second Stage Audio. Net, each..... **\$4.12**

We Pay Freight As Per Offer Given on Page 260

SM

The 1929 Screen Grid Laboratory Model Super

\$55.98 Net

List Price \$95.20

Greater Distance 10 K.C. Selectivity

Uses 6 High Gain Shield Grid Tubes

Designed for Great Power

The appearance of the set with its attractive brass control panel escutcheon, and when housed in S-M 700 cabinet, is rich and distinguished in the extreme, while the whole set is but 21 1/2 inches long, 10 inches deep, and 7 1/2 inches high. It has the compactness and efficiency of the thoroughly engineered precision radio receiver that it is. The set has but one stage of audio, and is intended for the discriminating radio buyer who, content with only the best, will use it with a 210 or a 250 power pack. The S-M type 681-210 or 250 Unipac for one 210 or one 250 tube, or the ultra fine 681-210 push-pull Unipac for two 210 or two 250 tubes, is the ideal power output stage and B supply for the laboratory receiver, combined in one unit. The receiver will operate a loud speaker without the power amplifier, but this is not conducive to the fine full tone, distance, and power it will give with the power pack.

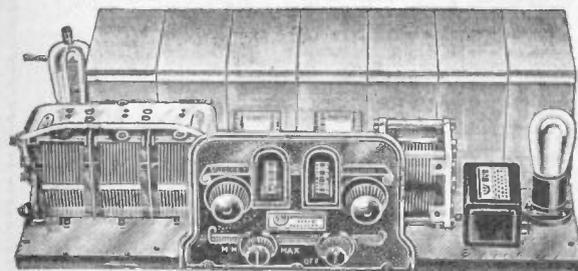
All parts for receiver are of reputable manufacture, and their high quality is one of the best recommendations for the set itself—a set so fine, however, as to require no other recommendation than a single evening's tuning of it! The complete parts, listed at left, can be supplied singly or in combination, whichever you desire.

List of Accessories

Accessories required are six 222 tubes, two 201A tubes, and one 112A tube. Any 6-volt A power unit and a S-M 670B—or 675 ABC power unit if no power amplifier is used. The S-M 681-250 or the 681-210 push-pull Unipacs are especially recommended.

Marathon Tubes

For good, clear reception we strongly urge that you use Marathon radio tubes. See page 80.



The 1929 Screen Grid Nine Tube Laboratory Receiver is a Super-heterodyne having only two tuning controls for a total of five stages of R. F. Amplification! It is an ultra selective receiver giving positive 10 Kilocycle separation between stations, and capable of 2000 to 3000 mile regular reception range with marvelous tone quality.

The Circuit

The circuit employs one untuned stage of short wave R.F. amplification, followed by two stages of tuned R.F. amplification, all three tuned by a super accurate three-gang condenser controlled by one vernier drum dial. This amplifier is followed by a screen grid first detector tube, an oscillator tuned by the second vernier drum dial condenser, two stages of sharply tuned 65 K.C. intermediate amplification, a second detector and one audio stage using the new Clough audio system. The tuned R.F. oscillator, both detectors and I.F. amplifiers are shielded in individual copper cans which are assembled upon the S-M 701 Universal steel chassis, the whole set being doubly shielded by the S-M 700 shielding cabinet.

Real 10 K.C. Selectivity

The sensitivity and selectivity of the three short wave screen grid R.F. amplifiers alone is great enough to provide better results than are had with the average T.R.F. receivers, yet they only precede a special screen grid super to boost its sensitivity, insure positive 10 K.C. selectivity, and cut out harmonics! As a result, this receiver is the most sensitive and selective superheterodyne that can be built, yet it costs but \$95.20.

Parts List

1	S-M 701 Universal Chassis	3.00
1	S-M 806L Control Escutcheon	2.75
1	S-M 806R Drum Dial	2.50
1	S-M 320R .00035 mfd. Condenser	4.00
1	S-M 323 .00035 three-gang Condenser	13.50
7	S-M 638 Stage Shields at \$1.50	10.50
3	S-M 132B R.F. transformer at \$1.25	3.75
1	S-M 132C Oscillator	1.25
1	S-M 255 A.F. Transformer	8.00
3	S-M 210 Long Wave Transformers	18.00
4	S-M 512 Sockets at \$0.60	2.40
8	S-M 511 Sockets at \$0.50	4.00
1	S-M 275 Choke	.90
1	S-M 708 Connecting cable	1.75
2	S-M 818 hook-up wire at \$0.50	1.00
2	Yaxley 53000-3000 Ohm Potentiometer	2.50
1	Yaxley 500 Switch	.40
2	Yaxley 420 tip-jacks at 12 1/2c	.25
6	Carter RU 10-10 ohm resistances at 25c	1.50
1	Carter A3-3 ohm resistance	.50
1	Carter H1 1/2 ohm resistance	.25
1	Durham 150000 ohm res. with leads	.50
3	Potter 104-1 mfd. Cond. at \$1.00	3.00
7	Sprague 1/2 midget condensers at \$0.75	5.25
1	Polymet .00015 grid cond. with clips	.50
1	Polymet .002 condenser	.40
1	Polymet 2 megohm grid leak	.50
1	Na-sald 481 X3 socket	.65
2	Molded binding posts at 10c	.20
1	set Hardware	1.00

List Price \$95.20

3R5870—Net Price,
Wholesale

\$55.98

The Laboratory Super for 201 A Tubes

This is the famous Laboratory Super that has enjoyed continued popularity throughout the 1927-28 season, and it will continue to be a leader for some time to come. It consists of a regenerative first detector, oscillator, 3 stages of sharply tuned intermediate R.F. (112 K.C.), a super sensitive detector, and two stages of S-M audio using the famous S-M 220 transformers. Complete shielding for all stages including the intermediate amplifiers provides remarkable selectivity. The complete instructions accompanying each kit of parts make it an easy matter to assemble and wire this set in an evening's time. Supplied with or without detector and oscillator shields, depending upon whether or not you live in congested broadcasting areas. For those who prefer a standard tube set we heartily recommend this set, for it provides 10 K.C. separation between stations and is without a doubt the most efficient set of its kind ever designed. Uses seven 201A type tubes and one 112A power tube.

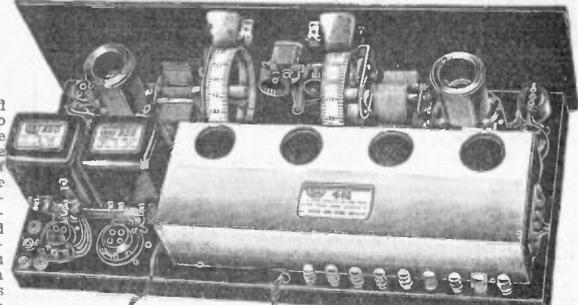
Price of Complete Kit

Complete kit with oscillator and first detector stage shields.

Complete kit, but without oscillator and first detector stage shields.

List Price, \$93.45. **\$54.95**
3R5903—Net.....

List Price, \$89.45. **\$52.60**
3R5902—Net.....



List of Parts

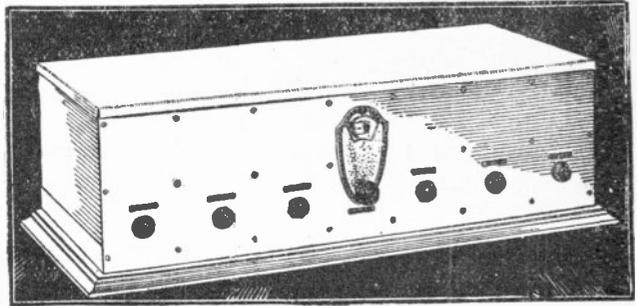
1 Van Doorn Panel and Chassis Unit plated with hdwe., \$8.50; 1 Carter .00015 cond. with clips, 50c; 1 Carter M200 Potentiometer, 75c; 2 Tube 1/2 mf. cond. at 75c, \$1.50; 1 Carter 3 ohm Rheostat, 50c; 4 Carter No. 10 tip jacks @ 10c, 40c; 1 Carter Battery Switch, No. 2 Imp., 50c; 1 Tube 2 meg. Grid Leak, 50c; 4 S-M No. 511 tube sockets @ 50c, \$2.00; 2 S-M 220 Audio trans. @ \$3.00, \$6.00; 2 S-M 305 Vernier Drum Dials @ \$3.00, \$6.00; 1 S-M 410 time signal amplifier, \$35.00; 2 S-M 515 coil sockets @ \$1.00, \$2.00; 2 S-M 111A coils @ \$2.50, \$5.00; 9 X-L Binding Posts @ 15c, \$1.35; 2 S-M 320 .00035 mf. Cond. @ \$3.25, \$6.50.

710 Sargent-Rayment Seven

SM

Using
**4 Screen Grid
Tubes**
For Battery or Eliminator Operation
Greater Amplification

\$76.44
Net



A Station Every 10 Kilocycles and with Greater Amplification!

A station tuned in for every ten kilocycles—an average of one hundred stations an evening! That is the performance record of the Sargent-Rayment Seven, tested in the heart of Chicago on a warm summer evening. To the ultra skeptical veteran listener we heartily recommend this peer of all receivers. In performance as in unique appearance, it is a precision laboratory type of instrument in-

tended for the man who desires the very extreme of radio reception in all respects, irrespective of cost or other limitations. The results it gives places this receiver as a leader even among "stunt sets," but one hearing its fine tone will remove it entirely from the limitations of any such classification—it is, truly, the set of sets.

Designed by Noted Radio Engineers

It is unnecessary to introduce Messrs. Sargent and Rayment, whose invention of the Infradyne system has made them well known to every Radio Fan. Their new receiver, developed in conjunction with the Silver-Marshall engineering laboratories, carries its own recommendation. Needless to say, it has the 100 percent endorsement of Silver-Marshall, Inc.

A Precision Receiver

Electrically the Sargent-Rayment Seven consists of five sharply tuned circuits in a four-stage screen grid R.F. amplifier, all tuned by a single illuminated drum, and provided with individual verniers. One knob turns the set off and on and adjusts the battery voltage, a second controls volume, and a third regulates antenna selectivity. The two-stage audio amplifier using the famous S-M 220 transformers, provide unequaled tone quality and volume. A 111 power tube may be used, or with S-M 675 ABC power supply, a 210 or a 250 tube may be used. Light socket operation is had with standard A and B power units, if desired. Each circuit is individually shielded, bypassed and isolated from all others. The set goes together simply and is a joy to build for it is so perfect in its design and layout.

For the Exacting Buyer

To the fan who really appreciates and values fine performance in a truly precision receiver of great individuality and distinction, we unhesitatingly recommend the Sargent-Rayment Seven. It is a set for the exacting radio buyer, for every dollar in it is Radio Value, not expensive wood cabinet work contributing not a single particle to actual results.

In the design of this remarkable set, Messrs. Sargent and Rayment have exercised the most exacting care in the selection and placement of parts. This accounts for the fact that this set is so far unequalled both in actual performance and in assembling and wiring.

Beautiful Cabinet

The satin finished aluminum cabinet trimmed with black nameplates engraved in white is a most fitting and beautiful cabinet for the Sargent-Rayment Seven. It will make a welcome addition to the home of the most fastidious.

Operating Requirements

The Sargent-Rayment Seven requires for operation 4 UX 222 (CX 322) screen grid radio frequency amplifiers, 2 UX 112A (CX 512 A) detector and first stage audio tubes, and one UX 171 (CX 371 A) power tube. If desired, a UX 210 (CX 310) or a UX 250 (CX 350) super power tube may be used in the last audio stage if the proper B power is supplied. For power, either batteries, or any good A and B battery eliminators may be used, the S-M 670 B being especially recommended for B power.

The S-M 710 Kit for this receiver is approved by the designers and is exclusively manufactured by Silver-Marshall, Inc. Ship. wt., complete with all parts and metal cabinet, 33 pounds.

3R5831—List Price, \$130.00.
Net **\$76.44**

705 Knock Down Aluminum Shielding Cabinet

This exceptionally strong and well made knock-down shielding cabinet is furnished with the 710 Sargent-Rayment Kit above, but is sold separately for those that desire it. Size 12 by 8 1/2 by 2 7/8 inches. Ship. wt., 12 pounds.

3R5832—List Price, \$27.00.
Net **\$15.88**

Custom-Built Sargent-Rayment Seven

For those who do not want to build the Sargent-Rayment Seven, but who want the amazing results which it is capable of giving, the receiver is available in completely assembled, wired and tested form, ready to connect to batteries or eliminators for most efficient operation. It is specially custom built to insure permanent and lasting satisfaction. Shipping weight, complete as noted above, 33 pounds.

3R5833—List Price,
\$175.00. Net..... **\$102.90**

"A" and "B" Batteries and Eliminators

See pages 86 to 95 of this catalogue for a complete listing of the best eliminators and batteries suitable for operating the Sargent-Rayment 7.

Marathon Tubes

We highly recommend the use of a real high grade tube, such as MARATHON, to give the very best results with this very fine set. See page 80 for Prices.

New S-M 140 Universal Coil Use in Above Receiver



The new S-M Universal coil is readily applicable as an antenna coupler, R.F. coil, or regenerative tuner. The R.F. resistance of this coil is almost 50% less than any other similar coil on the market! One of these coils with a good condenser will provide as much selectivity as three ordinary coils and condensers. Windings are 80 turns of No. 25 enamel wire one 20 and one 35 turn inner windings. Range with .00035 mfd. condenser—150-250 meters. Size, 2 1/4 by 3/4 inches. Ship. wt., 8 oz.

3R5835—List Price,
\$3.00. Net..... **\$1.76**

SM

720 Screen Grid Six

\$42⁶³ Net

3R5825—List Price \$72.50

The Greatest Value in Radio History

Screen Grid Tubes Successful

Never before in the history of Radio has there been a receiver design so completely fulfilling the requirements of the custom set builder as does the new S-M Screen Grid Six.

Essentially the new 720 Screen Grid Six is a refined and greatly improved model of the earlier type

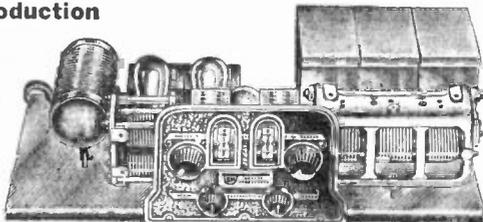
630 SG which was placed on the market in the early part of 1928 with the amazing guarantee of better performance than any other set or the purchase price would be refunded. Certainly an improved model of such a kit would be an ideal receiver and that's just what the 720 is!

Astonishing Performance

So selective is the 720 Screen Grid Six that, operated in the heart of Chicago within only one to three miles of local powerful stations, it brings in out of town stations only one dial division (10 K.C.) away from locals! On a short antenna it has brought in consistently both East and West coast stations on warm summer evenings. Think of it! KFI was heard in Chicago thru WCFL (a very powerful local, one mile away) on a hot summer night; WJZ regularly thru WQJ two miles away! And the best part of it is that it will do the same in your home, regardless of where you live.

Marvelous Reproduction

The tone quality of this receiver with the famous S-M 255 and 256 audio transformers is truly remarkable. With their flat characteristic from 100 to 8000 cycles and their rise in amplification below 100 cycles, every note of the musical scale is brought out with full volume and fidelity of tone with all hysteric distortion found in ordinary transformers eliminated—a radically new improvement achieved only by S-M.



Easy to Build

Attention to detail in the layout and design of the 720 has made it very easy to build. All parts are readily assembled on the pierced metal chassis in short time, and the wiring is simple and direct. The ganging, heretofore the hardest part of a single control receiver, is already done, making only a small adjustment of the compensators necessary to perfectly line up the receiver. The custom set builder specializing on this set will have the benefit of national advertising together with results that will out-demonstrate competitors' factory-built sets costing two and three times as much.

What's in the 720?

The 720 consists of three stages of shielded screen grid radio frequency amplification followed by a super sensitive detector and two stages of Clough high gain audio frequency amplification. Power output tube 112, 171, 210, or 250 optional. The RF stages are controlled by two vernier drum dials operating one single condenser and one three-gang die cast bowl-type condenser of unusual accuracy and rigidity. The new S-M 140 Universal Coil is used in the antenna stage which, together with a small condenser, provides variable selectivity from a minimum to a maximum, smoothly and positively.

Attractive Appearance

With its beautiful antique brass control escutcheon, walnut knobs, and the beautiful new S-M 700 metal cabinet, finished in two-tone moire brown, the 720 is a joy to the eye as well as to the ear. Its appearance, when custom built, is far beyond the standards of ready made sets and will harmonize with any surroundings. The metal cabinet provides 100 per cent shielding, thereby providing greater selectivity!

700 Shielding Cabinet

Finished in two-tone Moire with decorative high-lighted panels. Fully slotted and provided with ventilating louvers. Size, 21 1/2 in. long, 10 in. wide, and 7 3/4 in. deep. Complete with walnut base moulding. Ship. wt., 17 lbs.

3R5827—List Price, \$9.25. Net, \$5.44

720 AC Screen Grid Six Kit

Silver Marshall are now working on an alternating current model of the 720 AC Screen Grid Kit. As soon as Silver Marshall put this kit on the market we will stock it for our customers. Just write us when you see it announced. When this set is ready we recommend the use of Marathon 222 AC shield grid tubes.

Custom Built 720 Screen Grid Six

For the Custom set builder who is too busy to wire the 720 SG Six a fully assembled and wired model has been brought out. It comes to you fully tested, bearing the factory seal of approval and is complete with cabinet. Ship. wt., 25 pounds.

3R5826—List Price, \$102.00. Net \$59.98

701 Universal Chassis

For new S-M circuits. Formed, pierced and enameled. Size, 21 1/8 in. wide and 5 1/2 in. thick. This chassis is included with number 720 kit, but may be purchased separately, if desired. Ship. wt., 3 lbs. 9 oz.

3R5828—List Price, \$3.00. Net, \$1.76

720 Screen Grid Six Kit

Complete kit including all necessary parts for the construction of the 720 SG Six carefully packed to insure safe delivery to you. Detailed instructions accompany each kit which fully explains the easy manner in which it is put together. Ship. wt., 18 pounds.

3R5825—List Price, \$72.50. Net \$42.63

708 Ten Lead Battery Cable

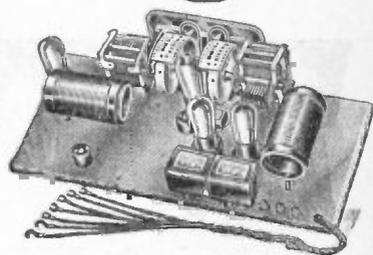
A 10 lead coded battery cable fabric covered and with tinned ends. Length, 5 feet overall. Furnished with all S-M 720 Screen Grid Six kits, but sold separately, if desired. Ship. wt., 3 ounces.

3R5830—List Price, \$1.75. Net, \$1.03

AND NOW! 4 Tubes Bring 6 Tube Results

The New 740 COAST TO COAST SCREEN GRID FOUR

Complete **\$29⁹⁹**
Parts **Net**



An outstanding value and achievement. The "Coast to Coast Four" offers to the custom set builder for the first time consistent long distant reception with plenty of volume and exceptional tone quality for less than \$30.00. Undoubtedly, it's the biggest bargain ever offered!

A Remarkable Circuit

You all know the tremendous advantages of the familiar regenerative detector and two stages of audio amplification. This is exactly the circuit used, but S-M did not stop here—they added a screen grid R.F. high gain amplifier which efficiently boosts the signal strength to heretofore undreamed values. The combination of this new and exceptional circuit with immeasurably finer coils, and the new Clough audio system with S-M 255 and 256 transformers will give you results such as you never expected.

Its Name Tells the Story

Its story is told in its name—The Coast to Coast Four. In summer-time tests, through

Chicago's heat and static, it plays New York, Florida, Texas and California stations on the loudspeaker, cutting through interference to distant programs only 10 and 15 or 20 K.C. away from locals. It does this with great decisiveness and ease. A 112A, 171A, 210, or a 250 power tube may be used in the last audio stage if desired. The "eye value" of the 740 is on a par with the best ready made sets when it is housed in the new S-M type 700 metal shielding cabinet finished in beautiful two-tone crystalline brown. Battery or light socket operation is optional.

Extremely Low Cost

Despite the fact that this remarkable four-tube screen grid receiver has consistently brought in more stations with better volume, finer tone, and greater selectivity than all other sets in its price class against which we have tested it, the complete kit of approved parts cost but \$51.00 retail. We go emphatically on record that no matter what set you build or buy, the 740 Coast to Coast Four is the best dollar for dollar value you can find

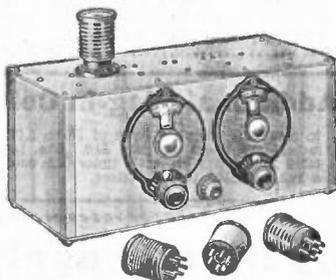
for its price. It goes together easily and simply and provides for the professional set builder a low priced set that will out demonstrate all popular 6-tube one-dial ready made sets up to twice its price. In short it provides real 100% quality and performance that will appeal to the most critical.

Your Choice—DC or AC Kits

If you prefer AC operation the AC kit listed below when used with Marathon AC screen grid or other AC tubes will give satisfactory operation. For DC operation, tubes required are as follows: One 222 type, two 201A types, and one 112A type. If a 210 or 250 is used the S-M 675 ABC power pack is recommended. Tubes not included.

3R5950—740 Coast to Coast Four complete less cabinet. Ship. wt., 15 lbs. **\$29.99**
List Price, \$51.00. Net.....

3R5951—Same as above but for AC operation. List Price, \$53.00. **\$31.16**
Net



730 Round the World 4 Short-Wave Screen Grid Receiver

Brings in Foreign Stations with Ease

Complete Kit with Cabinet **\$29⁹⁹**
Net

and two stages of audio amplification. It tunes from 17.4 to 204 meters with four type 131 plug-in coils.

Prices of Various Models

3R5952—Round the World Four—complete, factory packed with cabinet. Shipping weight, 11 pounds. List Price, **\$29.99**
\$51.00. Net

3R5953—Round the World Four Adapter. Consists of complete set of parts as noted above, minus the two audio stages, but equipped with special adapter to plug-in detector socket of your regular broadcast set, thereby converting it into a short wave receiver. Complete factory packed kit, including cabinet. Ship. wt., 8 lbs. **\$21.17**
List Price, \$36.00. Net.....

3R5954—732 Round the World Essential Kit. Contains the new tuning and tickler condensers, four plug-in coils covering 17.4 to 204 meters, coil socket, and three R.F. chokes, with full instructions for building a one, two, three, or four-tube short wave set. Complete factory packed kit. Ship. wt., 3 lbs. List Price, \$16.50. **\$9.70**
Net

Marathon Tubes

We heartily recommend Marathon tubes for use in any receiver. Complete listing on page 80.



S-M Midget Plug-In Coils

New and highly efficient moulded bakelite coil forms which plug-in any 6-prong tube socket—economical, efficient, compact, and above all, uniform. Winding space 1 1/2 in. long, 1 1/2 in. diam., with 1/8 in. slot at bottom. Shipping weight, each, 8 ounces.

	List	Net
3R5955—130-P Smooth	\$0.65	\$0.38
3R5956—130-T 98 1/2 threads....	0.65	0.38
Coil Forms with Windings List Net		
3R5957—131-T 17.4-32.1 meters...	\$1.25	\$0.74
3R5958—131-U 31-58 meters....	1.25	.74
3R5959—131-V 57-110 meters....	1.25	.74
3R5961—131-W 104-204 meters...	1.25	.74
3R5962—132-A 190-550 meters...	1.25	.74
3R5963—132-B Coil-RF trans.		
for 1929 Lab. Receiver	1.25	.74
3R5964—132-C Coil - oscillator		
for 1929 Lab. Receiver	1.25	.74

Note: The wavelengths given for coils T, U, V, and W hold true only when tuned with .00014 mfd. condenser, and for coil A when tuned with .00035 mfd. condenser.

Have you ever had a taste of the "Thrill Band"—the band of wavelengths from 17 to 200 meters? Down on these low waves are the foreign broadcasters—English 5 AW with special programs, Dutch, French, German and other rebroadcast programs. Down there you'll also find KDKA, WGY, WLW, and others with true low wave rebroadcast that you can hear when static blankets out their regular waves. And television—it's on the low waves that you hear the musical sing song of sputtering dots that means transmission of living pictures! In the "thrill band" you can hear amateurs in every continent—in almost every country, all in one evening—if you have a S-M "Round the World" short wave receiver.

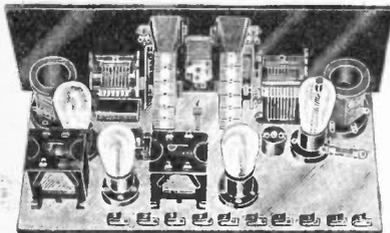
The S-M "Round the World" short wave receiver builds into such neat, trim, snappy short wave sets that you can't help getting the thrill of your life as you tune one.

Why This Set Is Better

The exciting long distance reception to be had with this receiver is due to the fact that such advantages as screen grid R.F. amplification, one-dial tuning, new Clough system of audio amplification and complete shielding have been incorporated, thereby making it the finest receiver of its kind available. This receiver, which has one stage of screen grid R.F., a regenerative, non-radiating detector

SM

Universal All Wave Tuners. 640 Series 30-3000 Meters



THE famous S-M Universal All Wave Tuners are now more popular than ever. They provide a low price yet ultra efficient tuner for every purpose. The well known four tube circuit so widely popularized—one R.F. stage and regenerative detector followed by two audio stages is used with S-M correctly engineered parts to give truly amazing results. The selectivity is ample for any congested broadcast district, and the reproduction is superb.

Drum dials, beautifully decorated steel panel, plug-in coils (30-3000 meters) and high grade audio transformers make these kits up to the last minute in every respect. There are a number of kits as listed below for two and four tubes in AC and DC models—and one screen grid model. Panel size of all 7 by 18 inches, with depth to fit 12-inch cabinets, allowing room for S-M 643, or 649 or S-M 675 ABC power units to be included in the cabinet.

640 Universal Tuner Essential Kit

Contains all essential parts for RF circuits—two tuning condensers, two coils, two sockets, one midgeet condenser, and one RF choke. Intended for use with any power amplifier or plain audio amplifier. Ship. wt., 4 pounds. **3R5824**—List Price, \$16.00. **\$9.41** Net

642-Two Tube Tuner Kit

A two-tube kit for use with either 1½, 3, or 5-volt battery operated tubes. Designed to precede a two-stage power amplifier such as the S-M Unipac. Simple to construct—instructions included. Complete factory packed kit. Ship. wt., 12 pounds. **3R5836**—List Price, \$29.50. **\$17.35** Net

642 AC Two Tube Kit

This is the same kit as described above, but is designed for use with AC tubes. The 227 heater type tubes being necessary. Complete instructions included. Ship. wt., 12 lbs. **3R5837**—List Price, \$33.25. **\$19.55** Net

SILVER KING TUBES

The receivers listed here will give excellent results when Silver King Tubes are used. See page 60.

644-Four Tube Tuner Kit

This complete tuner kit is correctly designed for 1½, 3, or 5 volt battery operated tubes. Makes a truly remarkable radio when constructed properly. Very easy to construct with the simple and complete instructions which are included with every kit. Ship. wt., 16½ pounds. **3R5838**—List Price, \$42.75. **\$25.14** Net

644 AC Four Tube Kit

A complete four-tube kit, similar in all respects except that it is properly designed for use with AC tubes. Uses two 227, one 226 and one 171A, or 210 tube with S-M powerpac. Complete instructions included with this exceptional factory packed kit. Ship. wt., 20 pounds. **3R5848**—List Price, \$54.00. **\$31.75** Net

644 SG Four Tube Screen Grid Kit

A high grade four-tube kit of quality and design as only Silver Marshall can produce. Uses one screen grid B.F. stage, regenerative detector, and two audio stages. An exceptional receiver when made according to the complete instructions included. For a battery or eliminator operation only. Ship. wt., 15½ pounds. **3R5839**—List Price, \$47.50. **\$27.93** Net

648 ABC Power Unit Kit

Contains all necessary parts to build a power unit for supplying 45, 90, and 220 volts of B current, and 1½, 2½, and 5 volts AC for supplying tube filaments of any AC type Universal tuner. Uses 1 Raytheon or QRS full wave rectifying tube. Factory packed kit complete with detailed instructions. Ship. wt., 15 pounds. **3R5840**—List Price, \$32.50. **\$19.11** Net

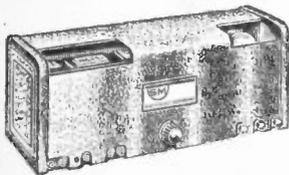
649 ABC Power Unit Kit

A complete kit containing all necessary parts to build a power unit (capable of supplying 45, 90, and 450 volts of B current, and 1½, 2½, and 7½ volts AC for supplying tube filaments of any Universal Tuner using 210 or 250 tube in last stage. Uses one 281 rectifying tube. Complete factory packed kit with instructions. Shipping weight, 20½ pounds. **3R5841**—List Price, \$42.75. **\$25.14** Net

Additional Plug-in Coils

to cover the complete band of 30 to 3,000 meters are listed on page 113. The two coils included with each tuner kit cover a range of 190 to 550 meters.

678 Phonograph Amplifier



Gives Tremendous Volume

Brings Old Machines Up-to-Date

For a small cost you can easily bring any old phonograph up-to-date so that its tone quality and volume will rival the most expensive machines now on the market. S-M have made this possible for you by bringing out the new S-M 678P Unipac amplifier. This amplifier is for use with a magnetic pick-up only, and when so used it will provide the finest reproduction of records obtainable. This amplifier, being a superior type of instrument fresh from the S-M engineering laboratories is in a class by itself, for it will provide greater volume than any other two stage standard type now on the market.

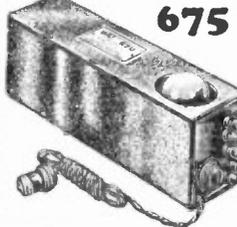
The complete unit consists of a special two-stage power amplifier with self contained power supply, using one 226 and one 210 or 250 tube power tube in conjunction with the new S-M 255 and 256 audio transformers. A 281 type tube is used for rectification.

When equipped with the proper tubes, and with the addition of a good electrical pick-up and speaker it will develop sufficient volume for small theaters and dance halls. May be had for either standard or dynamic type speakers. Shipping weight, 36 pounds.

3R5842—678P Unipac phonograph amplifier for standard speakers. Factory built. List, \$78.00. **\$45.86** Net

3R5843—678P-D Unipac phonograph amplifier for dynamic speakers having own field excitation. Factory built. List, \$73.00. Net, **\$42.95**

675 Hivolt Supply For 210 or 250 Tubes



This power supply allows the use of a 210 or a 250 power tube in the last stage of any receiver, adding greatly to its tone and power. It may also be used as an ABC power unit for any AC tube receiver. The 675 Hivolt uses one 281 rectifier and supplies 22, variable 45 to 90, 135, and 425 volts of B, and 1½, 2½, and 7½ volts AC for tube filaments.

Thirty-five volts of C for the 210, or 84 volts for the 250 is automatically supplied. Attractive metal case 17 inches long, 5¼ inches high, and 3½ inches wide. Shipping weight, 23 pounds. **3R5844**—Complete kit of parts ready to wire. List Price, \$54.00. Net, **\$31.75**

3R5845—Same as above but completely wired. List Price, \$58.00. Net, **\$34.10**

676 Dynamic Speaker Amplifier

A single stage power amplifier designed especially for use as a third stage amplifier following any standard receiver. It boosts the tone and volume and aids greatly in obtaining the best results from dynamic speakers. A 250 super power tube is used to insure large power handling capacity and to bring out all notes with their true tone quality. When added to any receiver with a dynamic speaker of the 90-volt type it will provide a marvelous improvement in tone and volume. The amplifier contains its own power supply, using 1-281 type rectifier tube, but does not supply any outside supply. It is used with any standard 90-110 volt D.C. dynamic speaker, which acts as a filter choke for the power supply and obtains its energizing current at the same time. The whole unit is contained in an attractive metal case, same as the 675 power supply, described above. Shipping weight, 28 pounds.

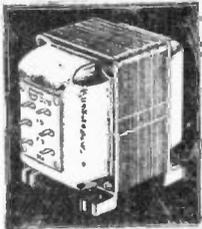
3R5846—676 Kit of complete parts. List Price, \$49.00. Net, **\$28.81**

3R5847—676 Completely wired. List, \$55.00. Net, **\$32.34**

SM Transformers

220 Audio Transformer

An all-stage transformer providing substantially straight line amplification from 30 to 5,000 cycles. Ratio 3 to 1. Sharp cut-off above 5,000 cycles. The largest selling high grade transformer ever made! Shipping weight, 4 lbs. 6 oz. **3R5970—List Price, \$8.00. Net \$4.71**



S-M Power Transformers

The S-M line of power transformers comprises a transformer for every need. They have long been the standard in power supply units, because of their generous design coupled with costs lower than competitive types.

327 Power Transformer

A heavy duty transformer for 281 half-wave or 280 full-wave rectifiers. Has two 250 volt; two 7½ volt, 2 amp.; one 1½ volt, 1 amp.; and one 2½ volt, 3.5 amp. secondaries. For 110 volts, 60 cycles AC only. Ship. wt., 8½ lbs. **3R5987—List Price, \$15.00. Net \$8.82**

328 Power Transformer

A heavy duty transformer for full-wave 281 rectifiers. Has two 250 volt, 125 M.A.; two 7½ volt, two ½ amp. secondaries. Furnishes ample ABC current for 210 or 250 tubes and receiver besides. For 110 volt 60 cycle AC only. Ship. wt., 7½ lbs. **3R5975—List Price, \$20.00. Net \$11.86**

329 Power Transformer

For gaseous or filament type rectifiers. Has two 200 volt and one 5 volt, 2 amp. secondaries. For 110 volt, 60 cycle AC only. Equipped with cord and plug. Ship. wt., 4 lbs. 14 oz. **3R5976—List Price, \$9.00. Net \$5.29**



329A Power Transformer

For gaseous or filament type rectifiers. Has two 275 volt, 125 M.A.; one 5 volt, 1 amp.; one 1½ volt, 6 amp.; and one 2½ volt, 6 amp. secondaries. Complete with cord and plug. Ship. wt., 5 lbs. **3R5977—List Price, \$11.00. Net \$6.47**

330 Power Transformer

Has one 330 volt and one 7½ volt, 4 amp. secondaries. Complete with cord and plug. Ship. wt., 6 lbs. **3R5978—List Price, \$9.00. Net \$5.29**

331 Unichoke

A two winding high inductance double filter choke of combined brute force type. Inductance, primary 2 henries, secondary 30 henries. Rating 125 M. A. continuous duty. Ship. wt., 5 lbs. **3R5979—List Price, \$8.00. Net \$4.71**

242 Microphone Trans

For use either single or double button microphone or as a line input transformer to power amplifiers. Two primaries and one secondary. Ship. wt., 2 lbs. 4 oz. **3R5986—List Price, \$7.00. Net \$4.12**



New S-M Audios

Just Two Years in Advance

No matter what kind of set you have or are going to build, these audio transformers will give you greater amplification, and tone quality you've never heard before, and with greater "punch" and volume. They are the first audio transformers to give freedom from hystero distortion found in all other types. They are also the first to give the real-m-m of re-creation that will make you gasp and wonder how you could ever have been content with the tones you've had.

S-M transformers have been acknowledged leaders for two years—now these new types place S-M performance just two years ahead of the best—yet you can have this finer performance in every set you build, install it in your present set, at less than average transformer costs.

223 Hi-Mu Audio

For use between UX222 first stage screen grid tube, space charge connection, and any standard power tube. Absolutely flat curve from 32 to 5,000 cycles with average voltage gain of 42 per stage. **3R5965—List Price, \$9.00. Net \$5.29**

225 First Stage Audio

For use between any standard detector and first audio stage, providing a flat curve up to 5,000 cycles with greater amplification at 32 cycles than at 1,000 cycles. Effective voltage gain 4.3 to 1. Unquestionably the finest A.F. transformer ever manufactured. **3R5982—List Price, \$9.00. Net \$5.29**

226 Second Stage Audio

For use with 225, above, between first and second stages, with same characteristics except that it gives a rise in amplification between 32 and 100 cycles and has a voltage gain of 3.5 to 1. Sharp cut-off between 5,000 and 8,000 cycles. **3R5966—List Price, \$9.00. Net \$5.29**

251 Output Transformer

A combination output unit adjustable to match any standard power tube and giving a new standard of performance to any amplifier with 112 or 171 type tubes. **3R5967—List Price, \$6.00. Net \$3.53**

255 First Stage Audio

Used between detector and first audio stage it provides a rise in amplification between 65 and 300 cycles and is then a perfectly flat characteristic to 8,000 cycles. Guaranteed superior to any other transformer except S-M 225. Effective ratio 4.2 to 1. **3R5968—List Price, \$8.00. Net \$3.53**

256 Second Stage Audio

A companion to 255 for use in second stage to provide a similar curve. Effective ratio 3.5 to 1. One 255 and one 256 will give finer reproduction than any other known audio system excepting only the S-M 255 and 256. **3R5969—List Price, \$6.00. Net \$3.53**

221 Output Transformer

For use between speaker and power tube in any radio receiver to prevent blasting, and damage to speaker and to improve reproduction. Ratio 1 to 1.89. Ship. wt., 4 lbs. 4 oz. **3R5971—List Price, \$8.00. Net \$4.71**

222 Output Transformer

Same as No. 221 except equipped with four tip jacks and 5 ft. cord. Shipping weight, 4 lbs. 5 oz. **3R5972—List Price, \$8.00. Net \$4.71**

230 Push-Pull Input

For use in a high grade push-pull amplifier or as a variable radio audio transformer, with ratio of 3 to 1 or 6 to 1. Frequency characteristics same at 220. Ship. wt., 4 lbs. 6 oz. **3R5973—List Price, \$10.00. Net \$5.88**

231 Push-Pull Output

For use with No. 230 in push-pull circuit or as a variable ratio output transformer to match either 112 or 210, or 171 and 250 tubes. Ship. wt., 4 lbs. 6 oz. **3R5974—List Price, \$10.00. Net \$5.88**

247 Filament Transformer

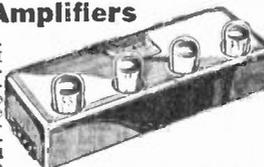
For use in heating AC tube filaments. Supplies 1.5 volts at 5 amp.; 2½ volts at 3½ amp.; and 5 volts at 1 amp. Ideal for use with AC harnesses. Ship. wt., 3½ lbs. **3R5981—List Price, \$5.00. Net \$2.94**

325 Filament Transformer

A heavy duty filament lighting transformer supplying 1½ volts at 12 amp.; 2½ volts at 12 amp.; and 5 or 7½ volts at 3 amp. **3R5980—List Price, \$12.50. Net \$7.35**

Jeweler's Time Signal Amplifiers

The famous S-M Time Signal Amplifiers are three stage and detector, sharply tuned long-wave amplifiers for use with any DC R.F. tubes (No. 400 for 210A's and No. 440SG for screen-grid tubes.) They consist of three stages of R.F. amplification individually copper shielded and laboratory tuned and calibrated to 112 K.C.—plus a super sensitive detector. They are ideal for use in intermediate frequency amplifiers, and are a part of the famous Shielded Laboratory Super.



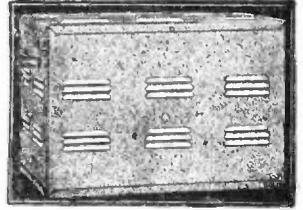
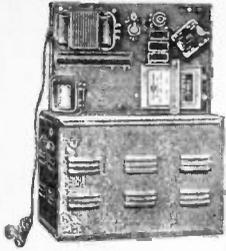
440 Time Signal Amplifier
For standard 201A tubes. Ship. wt., 5 lbs. **3R5983—List Price, \$35.00. Net \$20.58**

440SG Time Signal Amplifier
For screen grid tubes. Ship. wt., 7 lbs. **3R5984—List Price, \$40.00. Net \$23.52**

SM

680 Series Unipac Power Amplifiers

Perfect Power Amplification With 210 or 250 Type Tubes



Public Address

Unipac 685 Recommended For Churches, Conventions, and Where Large Bodies of People Are to be Addressed

This high grade super power amplifier has been especially designed to meet the demand for a portable light socket operated amplifier capable of covering a group of 1000 to 10,000 people with undistorted speech or music. It may be used indoors or outdoors with equal results, and it is the only amplifier of its kind now available.

The 685 consist of three stages of S-M audio amplification using one 227, one 226, and one 250 type power tubes with self-contained power supply using two 281 rectifier tubes. The input transformer is so arranged that either radio, standard magnetic phonograph pick-up, or a single or double button microphone may be used. A volume control is provided which regulates the volume from a whisper to a penetrating roar.

Operates 6 to 12 Loud Speakers

This special amplifier will develop enough power to successfully operate up to six loud speakers of any standard type, or with a special output transformer (S-M 221 D) it will operate up to 12 speakers. It is the ideal self-contained portable or permanent amplifier, for conventions, churches, theaters or wherever addressing large bodies of people is necessary. Housed in an attractively finished steel case 15 1/4 inches long, 10 1/2 inches high, and 9 1/2 inches wide. Ship. wt., 74 lbs.

3R5882—Unipac Kit 685 (not wired), factory packed, less tubes. List \$125.00. Net. **\$73.50**

3R5883—Unipac 685 completely wired. Factory packed, less tubes. List \$160.00. Net. **\$94.08**

No matter what kind of a set you have or are going to build, you'll need power and audio amplification for it. And in the Silver-Marshall light socket power amplifiers and Unipac power units you'll find the answer to your needs for medium and high voltage B supplies; for ABC units to operate 171, 210, or 250 power tubes right in your present set; a power amplifier for dynamic speakers; one and two stage Unipac amplifiers for 210 and 250 tubes, singly or in push-pull; and a powerful public address Unipac Amplifier for outdoor or auditorium use. No matter what your set may be, it must have power, and S-M Unipacs and Reservoir power units give it to you cheaply, dependably, and of the finest quality, barring none. And for the

man who really wants fine reproduction, who wants to hear an orchestra over the radio just as loudly and clearly as though he were in its presence, the Unipacs (combined power amplifiers and power supply) are a vital necessity, for their undistorted power outputs ranging from 1500 to over 13,000 milliwatts, insure the deep, full tone range that they alone can give — tone that adds a new zest and enjoyment to radio with its beauty, brilliance, and realism of bass and treble notes—all alike. Unipacs may be used with dynamic, air-chrome, air column, cone, or other standard speakers. All S-M power units and Unipacs operate from 105-120 volt 50 to 60 cycle alternating current only.

Two Stage Unipacs

Two complete two-stage super Unipac Amplifiers for amplification of radio set detector output or phonograph record pick-up, are the finest of their types. Type 682-210 uses one 226, two 210 or two 250 power tubes, two 281 rectifier tubes, and one UX 874 regulator tube. It supplies two stages of power amplification and 45, 90, and 135 volts of B power for any receiver. Type 682-250 is the same Unipac except that it uses only one 210 or 250 tube in the last stage. Size of attractive metal cabinet: 17 1/4 in. long, 10 1/2 in. high, and 9 1/2 in. deep. Ship. wt., ea., 69 lbs.

682-210 Kit Not Wired

3R5874 — Unipac No. 682-210 Kit. Push-pull type. Not wired. Factory packed, less tubes. List \$102.00. Net. **\$59.98**

682-210 Wired

3R5875 — Unipac No. 682-210 completely wired. Push-pull type. Factory packed, less tubes. List \$117.00. Net. **\$68.80**

682-250 Kit Not Wired

3R5876 — Unipac No. 682-250 Kit. Uses one 210 or 250 in last stage. Not wired. Factory packed, less tubes. List \$96.50. Net. **\$56.75**

682-250 Wired

3R5877 — Unipac No. 682-250 completely wired. Uses one 210 or 250 tube in last stage. Factory packed, less tubes. List \$111.50. Net. **\$63.36**

Single Stage Unipacs

The S-M single stage power amplifiers and B supplies are available to replace "B" batteries on any receiver and to add a stage of super power amplification. Type 681-210 is a truly push-pull amplifier using 2-210 or 2-250 tubes, 2-281 rectifiers, and a UX 874 regulator tube. In addition to supplying a stage of power amplification, it furnishes 45, 90, and 135 volts of B for the radio receiver. A lower priced unit is the 681-250, exactly the same as the 681-210, but having only one 210 or 250 power amplifying tube, though the same as the 681-210 in all other respects. Size of attractive finish metal case: 17 1/4 in. long, 10 1/2 in. high, and 9 1/2 in. deep. Ship. wt., any type, 63 pounds.

681-210 Kit Not Wired

3R5871 — Unipac No. 681-210 Kit. Push-pull type. Unwired. Factory packed less tubes. List \$87.00. Net. **\$51.16**

681-210 Wired

3R5872 — Unipac No. 681-210. Push-pull type completely wired. Factory packed less tubes. List \$102.00. Net. **\$59.98**

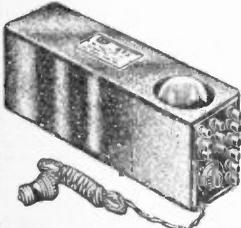
681-250 Kit Not Wired

3R5948 — Unipac No. 681-250 Kit. Unwired. For 1-210 or 2-250 tube. Factory packed less tubes. List \$81.56. Net. **\$47.92**

681-250 Wired

3R5873 — Unipac No. 681-250. Completely wired. For 1-210 or 1-250 tube. Factory packed less tubes. List \$96.50. Net. **\$56.75**

Reservoir B and ABC Power Supplies



The new S-M B and ABC Power Supply Units are unquestionably the highest grade B and ABC power units in the field. Replacing the older model S-M Reservoir B units, they uphold their reputation in every respect and perform faithfully and noiselessly.

The new type 280 rectifier tube (full wave) is used thereby, giving better filtering and providing a surplus of current at all times. The quietness of these units is had through the famous S-M "brute force" filter. This insures reception free from hum and noise, a common fault of many other eliminators. There are two types, the 670 B and the 670 ABC. The 670 B

supplies fixed voltages of 22, 90, 135, and 180 volts, and a variable voltage of 22 to 90 calibrated at 22, 45, 67, and 90 volts. A total of 60 milliamperes may be drawn at these voltages. The 670 ABC unit supplies the same B voltages as the 670 B. In addition to this it also supplies 1 1/2 volts at 4 amperes, 2 1/2 volts at 3 1/2 amperes, and 5 volts at 1/2 ampere—ample enough for five 226, two 227, and two 112A or 171A tubes. Both models are supplied in either kit or wired form. Crackle brown steel case 13 in. long, 5 1/4 in. high, and 3 1/4 in. wide. Ship. wt., 14 lbs.

Note Special
Shape Which
Is Made to Fit
the Back of Any
Radio Cabinet

670 B Kit

3R5878—670 B Kit. Factory packed, less tubes. Not wired, but comes complete ready for wiring. List \$40.50. Net. **\$23.82**

670 B Wired

3R5879—670 B Wired Power Supply. Complete ready to use. Factory packed, less tubes. List \$43.50. Net. **\$25.58**

670 ABC Kit

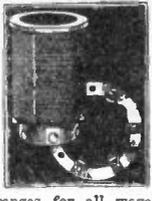
3R5880—670 ABC Kit. Factory packed, less tubes. Not wired, but comes complete ready for wiring. List \$43.00. Net. **\$25.29**

670 ABC Wired

3R5881—670 ABC Wired Power Supply. Complete ready to use. Factory packed, less tubes. List \$46.00. Net. **\$27.05**

S-M Plug-In Coils

S-M Plug-In Coils have held for three years their justly deserved position of leadership. There are no finer coils on the market. Ribbed molded bakelite forms, spaced windings and low losses make them the most efficient coils known today. They are made in five ranges for all wave bands from 39 to 3,000 meters and are for use with a .000135 mf. condenser, except 117 types for a .00014 mf. condenser.



- 3R615**—110A. Two 4 1/4 turns Secondary; 32 turns rotor; range, 190 to 550 meters. List, \$2.50. Net... **\$1.47**
- 3R616**—110B. Two 1 1/2 turns sec.; 10 turns rotor; 70 to 200 meters. List, \$2.50. Net... **\$1.47**
- 3R617**—110C. Two 5 1/2 turns sec.; 6 turns rotor; 30 to 75 meters. List, \$2.50. Net... **\$1.47**
- 3R618**—110D. 7 piles; 20 turns each, top sec.; 6 piles, 20 turns each, lower sec.; 60 turns rotor; 500 to 1500 meters. List, \$5.00. Net... **\$2.94**
- 3R619**—110E. 5 piles, 44 turns, top sec.; 4 piles, 44 turns lower sec.; 60 turns rotor; 1100 to 3000 meters. List, \$5.00. Net... **\$2.94**
- 3R620**—111A. 8 1/2 turns sec.; 4 1/2 turns slotted pri.; 32 turns rotor; 190 to 550 mts. List, \$2.50. Net... **\$1.47**
- 3R621**—111B. 23 1/2 turns sec.; 24 1/2 turns slot, pri.; 10 turns rotor; 70 to 200 meters. List, \$2.50. Net... **\$1.47**
- 3R622**—111C. 11 1/2 turns sec.; 24 1/2 turns slot, pri.; 6 turns rotor; 30 to 75 meters. List, \$2.50. Net... **\$1.47**
- 3R623**—111D. 13 piles, 20 turns, sec.; 99 1/2 turns slot, pri.; 60 turns rotor; 500 to 1500 meters. List, \$5.00. Net... **\$2.94**
- 3R624**—111E. 9 piles, 44 turns each, sec.; 99 1/2 turns slotted pri.; 60 turns rotor; 1100 to 3000 meters. List, \$5.00. Net... **\$2.94**
- 3R625**—111A. 8 1/2 turns sec.; 40 turns slot, pri.; 8 turns rotor; 190 to 550 mts. List, \$2.50. Net... **\$1.47**
- 3R626**—114B. 23 1/2 turns sec.; no slotted primary; 23 1/2 turns pri.; on stator form; 70 to 200 meters. List, \$2.50. Net... **\$1.47**
- 3R627**—114C. 11 1/2 turns sec.; no slot, pri.; 13 1/2 turns pri. on stator form; 30 to 75 meters. List, \$2.50. Net... **\$1.47**
- 3R628**—114D. 13 piles, 20 turns secondary; 99 1/2 turns slot, pri.; 49 1/2 turns inner pri.; 500 to 1500 meters. List, \$2.50. Net... **\$1.47**
- 3R629**—114E. 9 piles, 44 turns sec.; 99 1/2 turns slot, pri.; 150 1/2 turns inner pri.; 1100 to 3000 meters. List, \$2.50. Net... **\$1.47**
- 3R630**—114HG. 89 1/2 turns sec.; 4 1/2 turns slot, pri.; 50 turns inner pri.; 190 to 550 meters. List, \$2.50. Net... **\$1.47**
- 3R631**—115A. 90 1/2 turns sec.; 9 1/2 turns slot, pri.; 3 1/2 turns inner pri.; 190 to 550 meters. List, \$2.50. Net... **\$1.47**
- 3R632**—115D. 13 piles, 20 turns each sec.; 1/2 turn slot, pri.; 49 1/2 turns inner pri.; 500 to 1500 meters. List, \$5.00. Net... **\$2.94**
- 3R633**—115E. 9 piles, 44 turns sec.; 1/2 turn slot, pri.; 150 1/2 turns inner pri.; 1100 to 3000 meters. List, \$5.00. Net... **\$2.94**
- 3R634**—116A. 89 1/2 turns sec.; 2 1/2 turns slot, pri.; inner pri. 15 1/2 turns top, 19 1/2 turns lower; 190 to 550 meters. List, \$2.50. Net... **\$1.47**
- 3R635**—116D. 13 piles, 20 turns sec.; 1/2 turn slot, pri.; inner pri. 25 1/2 turns top, 24 1/2 turns lower; 500 to 1500 meters. List, \$5.00. Net... **\$2.94**
- 3R636**—116E. 9 piles, 44 turns sec.; 1/2 turn slot, pri.; inner pri. 75 1/2 turns top, 74 1/2 turns lower; 1100 to 3000 meters. List, \$5.00. Net... **\$2.94**
- 3R637**—117M. 16 1/2 turns top sec.; 26 1/2 turns lower sec.; 85 to 150 meters. List, \$2.50. Net... **\$1.47**
- 3R638**—117N. 10 1/2 turns top sec.; 13 1/2 turns lower sec.; 51 to 90 meters. List, \$2.50. Net... **\$1.47**
- 3R639**—117O. 7 1/2 turns sec.; 30 to 53 meters. List, \$2.50. Net... **\$1.47**
- 3R640**—117P. 4 1/2 turns top sec.; 3 1/2 turns lower sec.; 18 to 32 meters. List, \$2.50. Net... **\$1.47**
- 3R641**—118A. 90 1/2 turns sec.; 4 1/2 turns slot, pri.; 25 1/2 turns inner pri.; 190 to 550 meters. List, \$2.50. Net... **\$1.47**
- 3R642**—119A. 90 1/2 turns sec.; 64 turns inner pri. tapped at 35, 51 and 64 turns; 190 to 550 meters. List, \$2.50. Net... **\$1.47**

3R645
S-M 113 Coil form only. List Price, Net... **\$1.03**

3R646
S-M 515 Coil socket. List Price, Net... **59c**

320-R Variable Condenser

A single .00035 mfd. variable condenser, truly Universal, with full floating removable shaft. Mounts on either side, bottom or either end for left or right hand drive. Double spaced modified SLP-SLW plates. Size 2 1/2 x 4 1/4 x 4 in. Shipping weight, 1 pound. **3R5906**—List Price, \$4.00. **\$2.35** Net

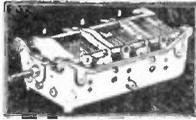


321 Variable Condenser

Same as 320R except capacity is .00014 mfd. **3R5985**—List Price, \$4.00. **\$2.35** Net

323 Three Gang Condenser

A three-gang condenser, the most accurate ever made, in rugged die cast metal frame for either side, end or bottom mounting. Each unit is equipped with an individual condenser and shielded from other units. Capacity each unit .00035 mfd., all units guaranteed matched to within 1% over upper half of scale or to 1 mfd. over lower half of scale. Shipping weight, 3 pounds. **3R5906**—List Price, \$13.50. **\$7.94** Net



340 Midget Condenser

340 Midget Condensers, capacity .000003 to .00025 mf. Lacquered brass plates mounted on a bakelite end plate. For panel or base mounting. Complete with bakelite knob. Shipping weight, 6 ounces. **3R5907**—List Price, \$1.50. **89c** Net



342 Midget Condenser

Same as 340 except capacity is .000004 to .000075 mf. Shipping weight, 6 ounces. **3R5947**—List Price, \$1.75. **\$1.03** Net

342-B Midget Condenser

Same as 342 except short shaft and closer plate spacing, higher capacity. **3R5908**—List Price, \$1.75. **\$1.03** Net

638 Stage Shield

A small, compact copper shield 4 1/2 in. long by 5 1/2 in. high, and 2 1/2 in. wide, with pierced bottom and removable sides and top. Accommodates any kind of tube with a plus S-M plug-in coils, any resistors and by-pass condensers. An ideal shield for All R.F. Stages. Shipping weight, 7 ounces. **3R5909**—List Price, \$1.50. **88c** Net



631-A Stage Shield

A slotted and pierced aluminum box shield with removable top 5 1/2 in. long, 7 1/2 in. wide. Bottom pierced for coil, socket, condenser, chokes, and leads. An ideal R.F. stage shield. Shipping weight, 11 ounces. **3R5896**—List Price, \$2.00. **\$1.18** Net



Long Wave Transformers

Enclosed in black bakelite case with knurled binding posts. Used with UX199, UX201A, or UX222, screen grid tubes. Ship. wt., 6 oz.

210 Long Wave Transformer

Iron core type supplied at any peak frequency between 50-60 K.C. (or between 60-70 K.C. for 100 tubes). **3R5898**—List Price, \$6.00. **\$3.53** Net



211 Long Wave Transf'm'rs

Sharply tuned air-core type. Supplied in any peak frequency from 50-70 K.C. **3R5899**—List Price, \$6.00. **\$3.53** Net

SM

806-L Vernier Drum Dial

A left-hand drive dial with beautiful gold etched scale. Positive in action. No back-lash. Wal-



nut knob. Complete without panel window. Ship. wt., 1/2 lb. **3R5884**—List Price, \$2.50. **\$1.47** Net

806-R Vernier Drum Dial

Same as 806L, except for right-hand drive. **3R5885**—List Price, \$2.50. **\$1.47** Net

807 Drum Dial Window

A single drum dial window for above dials. Antique brass finish, very attractive. Shipping weight, 2 ounces. **3R5886**—List Price, \$0.50. **29c** Net

808 Single Escutcheon

An antique brass control panel for one dial, combined volume control, and on-off switch, and sensitivity control. Size 6 1/2 inches high by 8 inches long. Ship. wt., 1/2 lb. **3R5887**—List Price, \$2.25. **\$1.32** Net

809 Dual Escutcheon

An antique brass control panel for two dials, and two auxiliary controls. Used on S-M 720 and 740 receivers. Size 6 1/2 inches high by 8 1/2 inches long. Ship. wt., 9 oz. **3R5888**—List Price, \$2.75. **\$1.62** Net

703 Walnut Finish Panel

7 in. by 24 in. steel panel to adapt S-M escutcheons to standard cabinets. **3R5889**—List Price, \$4.00. **\$2.35** Net

511 Tube Socket

A four-prong genuine moulded bakelite socket for all standard UX tubes. Positive contact spring. Ship. wt., 2 oz. **3R5890**—List Price, \$0.50. Net... **29c**



512 Tube Socket

Same as 511 except 6-prong for AC heater type tubes or for S-M 130 Series plug-in coils. Shipping weight, 2 ounces. **3R5891**—List Price, \$0.60. **35c** Net

275 R.F. Choke

To keep R.F. currents from going astray. Polished moulded bakelite case. Impregnated winding. Inductance 2 1/2 Mh. For use up to 600 meters. Shipping weight, 2 ounces. **3R5892**—List Price, \$0.00. **53c** Net



276 R.F. Choke

Same as 275 except for use above 600 meters. Inductance 10 Mh. Ship. wt., 2 oz. **3R5893**—List Price, \$1.00. **59c** Net

277 R.F. Choke

Specially designed for use below 200 meters. Low distributed capacity and better short wave qualities than any competitive choke. Used in S-M "Round the World Four" kit. Shipping weight, 2 ounces. **3R5894**—List Price, \$1.50. **88c** Net

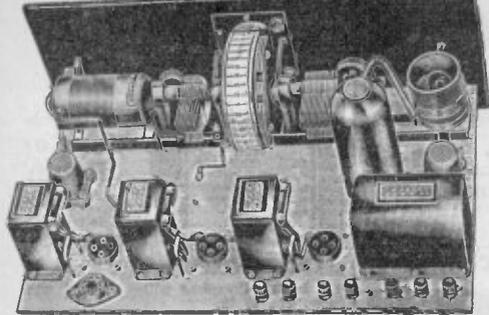
818 Hook-up Wire

The popular No. 20 tinned copper, fabric covered hook-up wire. Put up in 25-foot coils. Shipping weight, 3 ounces. **3R5895**—List Price, \$0.50. **29c** Net

540 Sub-Panel Brackets

Cadmium plated steel sub-panel brackets, 6 in. long, 1 1/2 in. high, and 3/4 in. wide, with screws and nuts. Shipping weight, 4 ounces. **3R5897**—List Price, \$0.70. **41c** per pair. Net...

National Shield Grid Five



The very latest development of the most popular five tube circuit ever designed—the Browning-Drake five tube receiver. Absolute one dial tuning obtained with the new National B.D.-222 illuminated, single dial tuning unit and positive drive cable operated drum dial; employs the new, small size Browning-Drake highly efficient coils as R. F. transformers. The famous National impedance resistance couplers in the R. F. amplifier produce a tone quality superior to most of the more expensive factory-built sets.

Oscillation in the R. F. amplifier is completely overcome by use of the new 222 type shield grid tube. Tone quality is greatly improved and all tendency to re-radiate is removed.

The National shield grid five is so sensitive that very fine performance is obtained with a 3 or 4 foot wire connected directly to the cap of the 222 tube for an antenna for extreme selectivity. The National tone filter protects the speaker coil windings from the high DC and has a tendency to improve reception and prolongs the life of the speaker.

LIST OF PARTS

National tuning unit; 3 impedancers; tone filter; 4 molded mica condensers; 2 by-pass condensers; 5 sockets; 2 R. F. chokes; 1 switch; 1 20 ohm rheostat; 1 2-meg. grid leak; 2 Luch filament equalizers; 7x18 bakelite panel; 10x17 sub-panel; set of instructions; wire, solder, screws, etc. Ship. wt., 20 lbs.
3R2225—Complete kit National Shield Grid \$40.90
 Five. List Price, \$69.55. Net.....

The 1929 Browning-Drake AC Shield Grid Kit

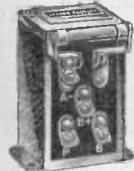
This wonderful circuit is now obtainable using the new Browning-Drake single control tuning unit and designed for the very latest tube discovery—the 222 type AC shield grid. Makes the most compact kit of its kind ever designed; overall length is only 14 1/2 inches; in standard cabinets 13 inches deep a power unit may be installed on the rear of the base panel.

Contains the more important characteristics of the National kit listed above.

LIST OF PARTS

B.-D. 1929 kit; B.-D. foundation unit; 2 R. F. chokes; 3 B.-D. center tapped resistors; 3 B.-D. spec. 1 mfd. coupling cond.; 2 DY sockets; 5 molded fixed cond.; 1 by-pass cond.; 14 resistors; 1 vol. control and 110 v. switch; 4 binding posts; 1 .5 mfd. molded cond.; 2 1000 ohm resistors. Total list price, \$59.45.
3R2226—Net Price \$34.96

Impedancers



For all circuits where high gain, distortionless amplification is desired.

Type A consists of a 100 henry choke coil in a metal case. No grid lead or condenser. First stage unit includes an R. F. choke coil. Ship. wt., 1 lb.

3R4171—1st stage, with R. F. choke.

3R4172—2nd and 3d stage. No choke. List, \$4.70. Net.....

\$2.35

Type B employs a 100 henry choke coil, a 1 mfd. condenser and a grid leak in a single unit. Facilitates the assembly of the amplifier and saves space. The first stage unit contains an R. F. Choke coil for detector plate circuit. Ship. wt., 1 1/2 lbs.

3R4169—1st stage with choke. List, \$5.50. Net.....

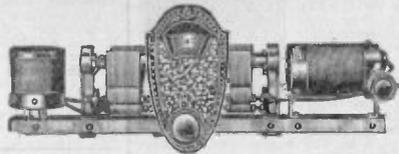
\$3.24

National Audio Transformers

Incorporating the latest approved designs for audio amplification. New nickel-steel, high permeability core and special split secondary windings. A transformer of small size with unusually fine frequency characteristics. Ratio 4 to 1. Soldering lug connections. Terminals plainly marked. Base mounting, enclosed in metal shell. May be used for both first and second stages. Shipping weight, 2 pounds.

3R4134—List, \$9.50. Net..... \$5.59

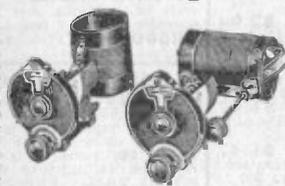
National Quality Parts Single Dial Tuning Unit



The Tuning Unit used in the new National Browning-Drake Tuner illustrated to the left. A great improvement on devices which have gone before. Actuated by a single dial control. Consists of two National Tuning condensers and coils. Antenna trimmer on left hand one, tickler regeneration control on right. Both regulated by knobs which are on face of panel. Entire unit mounted on a single base. Installed as a unit. Only four holes to drill in panel. Shipping weight, 12 pounds.

- 3R440**—Type G for AC and DC Sets. List, \$24.50. Net..... **\$14.41**
- 3R4141**—Type 222 for use with shield grid tubes. List, \$24.50. Net..... **\$14.41**
- 3R4130**—Type F without antenna trimmer. List, \$23.00. Net..... **\$13.53**
- 3R1504**—Type 23 Illuminator. List, 50c. Net..... **29c**

2 Dial Tuning Unit



Kit consists of: one Antenna System Unit; one Browning-Drake Space-wound Antenna Coil mounted on a .0005 mfd. Variable Condenser with a National Velvet Vernier illuminated dial; one Regenformer System; one Browning-Drake Transformer with slot wound primary, space wound secondary, mounted on a .00025 mfd. Variable Condenser with Velvet Vernier illuminated dial. Specified for the Official Browning-Drake Circuit. Ship. wt., 6 lbs.

3R4174—Two Units. List, set, \$25.00. Net..... **\$14.70**

3R4131—BD-1E. Consists of .0005 cond., vernier type C dial and B.-D. inductance coil. List, \$10.75. Net..... **\$6.32**

3R4132—BD-2E. Consists of .00025 cond., vernier type C dial and B.-D. transformer. List, \$14.25. Net..... **\$8.38**

National Tone Filter Complete



\$4 12
Net

Designed for use with power tubes to prevent the high plate voltage from damaging the loud speaker. Contains an impedance of the correct value and a Tobe Filter Condenser. No DC can reach the speaker. Chattering, distortion and burn-outs are therefore prevented. Attractive metal case with tip jack connections. Ship. wt., 2 1/2 lbs.

With Speaker Cord
3R2535—Type 100 for use with all power tubes up to 210. List, \$7.00. Net..... **\$4.12**

3R2536—Type 250 for use with 250 power tube. 700 volt max. List, \$8.50. Net..... **\$5.00**

Without Speaker Cord
3R2530—Type 100. List, \$6.50. Net..... **\$3.83**
3R2531—Type 250. List, \$8.00. Net..... **\$4.70**

New B. D. Tuning Unit



New Small Coils Illuminated Drum Dial

A new tuning unit developed for use with the shield grid tubes, but equally applicable for controlling the standard Browning-Drake receiver. Consists of the same essential units as above, the difference being in the tuning drum and the mounting base. May be mounted on either base-board or subpanel. Shipping weight, 10 pounds.

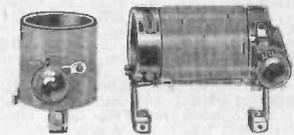
3R4159—Complete Tuning Unit. List, \$26.00. Net..... **\$15.28**

Radio Frequency Chokes

3R4096—Designed to plug in a standard grid leak mounting. Is very compact and may be used over wide range of frequencies. Due to special slot winding it is suitable for short wave work. Inductance of 90 millihenries and a DC resistance of 350 ohms. List, \$1.25. Net..... **73c**

3R4097—Same as the above but with an inductance of 250 millihenries. For use at the lower frequencies, such as are encountered in long wave work. Especially suited for retard choke circuit of a shield grid tube and as the choke in the plate lead of a regenerative receiver. Shipping weight, each, 8 oz. List, \$1.60. Net..... **94c**

Browning Drake Coils



Small size, only 2 inches in diameter. Embody the slot wound primary for extremely high efficiency. Wound on bakelite tubes with trimmers and tickler coils mounted inside. Control shafts protrude through the walls of the tubes and may be regulated from the front of the panel. Convenient knobs provided for this purpose. Complete with mounting feet and soldering lugs on all connections.

3R4092—Antenna coil with trimmer. List, \$3.00. Net..... **\$1.76**

3R4093—Antenna coil, no trimmer. List, \$1.50. Net..... **88c**

3R4094—R. F. Coil. List, \$5.50. Net..... **\$3.23**

3R4095—R. F. Coil for shield grid tubes. List, \$5.50. Net..... **\$3.23**

Shipping weight, each 2 pounds.

Push-Pull Transformers

For use with last stage audio when maximum volume and unusual tone quality is desired. Used with all power tubes up to 250. Straight line horizontal frequency curve from 30 to 5000 cycles. Small size, the result of using nickel steel core and special winding. Metal shell, soldering lug terminals, base mounting. Shipping weight, 3 pounds.

3R4133—List, \$9.50. Net..... **\$5.59**

Robertson-Davis Automatic Super 6



10 Kilocycle Selectivity

The Robertson Davis Automatic Super Six fits together quickly and exactly. All instruments fitted and housed in subpanel except trimmers, condensers and volume control, which are mounted directly on the panel. Subpanel completely wired and sealed in aluminum case. Tubes and transformers plug right into subpanel provided with double row of sockets, one row for the six tubes, the other for the six transformers. Transformers are Robertson Davis Melocouplers of the new shielded, plug in type, and intermediates are peaked at a frequency of 465 Kilocycles, the most favorable for one spot reception, extreme distance and loud speaker volume of finest quality on either local or DX stations.



Robertson-Davis Automatic Electric Tuner

Press a button and a pre-selected station is automatically tuned in. Tuner plugs directly into the Automatic Super 6. Any six stations can be selected for automatic playing. The desired station is tuned in on the drum dial, and is then transferred to the Automatic Tuner by two simple adjustments. One button controls each of the stations, the other button releases the set for drum dial control. Ideal for use in hotels, restaurants, or other places where constant reception is desired and time cannot be spent in tuning. As soon as one program is finished, switch to another in one second.

3R2138—Automatic Electric Tuner..... \$27.93
List, \$47.50. Net Shipping weight, 20 pounds

6 TUBE AC SHIELD GRID SUPERHETERODYNE

Set is entirely AC operated, using three Arcturus AC shield grid tubes and three Arcturus 28 AC tubes. These tubes are heated by a Thordarson Filament Transformer No. T2610.

Nine Flexible Leads with lugs connect subpanel to controls. No soldering necessary—a screwdriver and 18 minutes are all you need to put this receiver together, ready to use. Tuning is greatly simplified, no potentiometer being used. Only tuning controls are single illuminated drum dial, trimmer condenser used when searching for extreme distance, and volume control. No aerial required. Antenna or loop may be used, however, if desired, but only a few feet of wire are necessary. Audio all contained in separate unit. None in receiver proper.

Panel, 7 by 21 inches, fits any cabinet 7x21x12 inches, inside dimensions.

Completely Shielded R. F. Units prevent howling, squealing or oscillation. Not affected by street cars, motors or other sources of local disturbance.

18 mils. of "B" current required. Illuminated dial makes tuning simple. All instruments are factory packed in a single carton, sealed, and will reach you in that condition. Quality and workmanship are the best obtainable. As this was designed for use with a power amplifier, no audio equipment is included. Any one of the power amplifiers we list may be used. We especially recommend the Monroe 250 push-pull, on page 89, as being the last word in audio equipment and entirely suited for a receiver of this kind. Ship. wt., 25 lbs. **\$55.86**

3R2136—Complete Kit. List, \$95.00. Net, \$55.86

3R2137—Set of Arcturus Tubes. Ship. wt., 21.17
6 lbs. List, \$36.00. Net, \$21.17

Automatic Super Six for Use on Direct Current

Where no AC is available or an eliminator is already on hand, the Super 6 may be obtained for use with DC filament tubes and "B" battery or an AB eliminator. Same as the AC model, except filament circuit is wired for 5 volt tubes, with proper resistances to supply 3 volts to the shield grid tubes. Three 222 shield grid tubes are needed and three 201-A's, or others of similar characteristics. No audio equipment included. Ship. wt., 25 lbs. **\$55.86**

3R2139—DC Super 6. List, \$95.00. Net \$55.86

Short Wave Coils

A mere change of antenna and oscillator coils makes it possible to cover a waveband from 20 to 550 meters. This covers the short wave phones, airplanes, amateurs and transoceanic commercial phones and the new television band. Ship. wt., per set, 2 lbs.

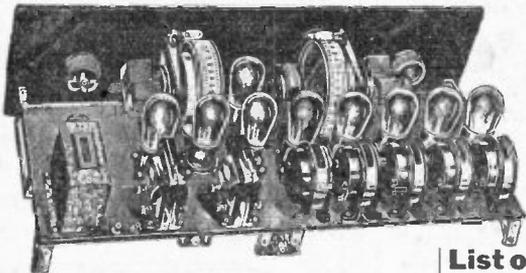
3R2140—Short wave coils for television band.

3R2141—Short wave coils for 40 meter band.

3R2142—Short wave coils for 20 meter band.

Two coils to a set. List Price, per set, \$12.00. Net, \$7.06

A New Radio Thrill



List of Parts for AC Operation

- | | |
|--|---|
| 1—7x26 front panel... \$ 6.50 | 1—Aerovox .0001 condenser..... \$ 0.40 |
| 1—9x25 sub panel... 6.50 | 2—Aerovox 1. by-pass condensers..... 1.80 |
| 5—Magnaformer intermediate transformers..... 42.50 | 2—Durham 2 m.e.g. grid leaks..... 1.00 |
| 1—Uncoupler..... 6.50 | 1—Yaxley No. 663 cable connector... 3.00 |
| 2—Remler universal drum dials..... 9.00 | 1—No. 6 jack switch... 1.25 |
| 2—Remler .0005 condensers..... 10.00 | 1—Frost 200,000 ohm variable resistor... 1.75 |
| 8—Benjamin No. 9037 sockets..... 7.20 | 1—Frost 500,000 ohm variable resistor... 1.75 |
| 1—Benjamin No. 9044 socket..... .50 | 2—Frost PT64 tapped resistors..... 2.00 |
| 1—Pair Benjamin sub-panel brackets..... .70 | 4—Tip jacks..... .60 |
| 2—Ferranti AF4 transformers..... 17.00 | |
| 1—National tone filter..... 7.00 | |
| 1—Samson No. 125 K. F. choke..... 2.25 | |
| 2—Aerovox .00025 grid condensers... .80 | |

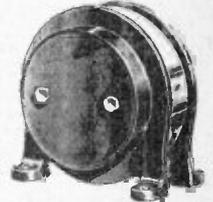
3R2144 — Complete set of parts for AC. List, \$130.00. Net, \$76.44

Magnaformer 9-8 Magnaformer Long Wave Transformer

Commander-in-chief of the Air

The new Magnaformer Circuit incorporates the most advanced design in radio quality and performance. Uses new Magnaformer Intermediate transformers with self-enclosed, factory sealed condensers. Distinctly modern; new in design; simple to control. So few controls that anyone can tune it.

Uses famous Remler Drum Dials. Ferranti equal amplification audio transformers. Output tone filter prevents speaker blasting; retains constant realistic tone quality.



List of Parts for DC Operation

- | | |
|---|--|
| 1—Formica 7x26x3/16 in. Dr. and Eng. Panel..... \$ 6.50 | 2—2 megohm Grid Leaks @ 50c... \$ 1.00 |
| 1—Formica 9x25x3/16 in. Drilled Sub-panel..... 6.50 | 1—Frost DeLuxe 400 ohm Potentiometer..... 1.25 |
| 5—Magnaformer Intermediate Trans. @ \$10.00..... 42.50 | 1—Frost DeLuxe 10 ohm Rheostat with Switch..... 1.35 |
| 1—Uncoupler, UC No. 71..... 6.50 | 1—Frost DeLuxe 30 ohm Rheostat..... 1.00 |
| 1—Remler No. 110R Dial..... 4.50 | 1—Frost DeLuxe 10 ohm Rheostat..... 1.00 |
| 1—Remler Universal Drum Dials No. 110..... 4.50 | 2—Pair Frost Tip Jacks @ 30c... .60 |
| 2—Remler .0005 mfd. Variable Cond... 10.00 | 2—Amperites No. 112 @ \$1.10..... 2.20 |
| 9—Benjamin UX Sockets @ 50c... 4.50 | 1—Yaxley Cable Con. No. 660..... 3.00 |
| 2—Benjamin Brackets @ \$1.00..... .70 | 1—Yaxley Jack Switch No. 60... 1.25 |
| 2—Ferranti Audio Frequency Trans. @ \$8.50..... 17.00 | 2—Coils, Acme Celat-site Wire @ 80c... 1.60 |
| 1—National Tone Filter..... 8.00 | 1—Packard Kester Radio Solder..... .25 |
| 1—Samson Radio Frequency Choke No. 25..... 2.00 | Miscellaneous Lugs, Screws, Nuts, etc..... .65 |
| 2—Samson .00025 mfd. Grid Cond. with Mtgs..... 1.00 | 1—Set Blueprints..... 1.50 |
| 1—Tobe mfd. By-pass Cond..... .90 | |

3R2145 — Complete set of parts for DC Kit. List, \$131.75. Net, \$77.47

A different and unusual transformer. Permanently tuned in the laboratory to exactly the same wave length. Always passes full signal with all harmonic carrying side bands. Incoming signal receives double the usual amount of amplification in each R. F. stage. Very powerful output—every sound clear and distinct. Peak at 72 K. C.

Scientifically shielded. Will not oscillate. No fusing, no squeals or squeaks. Coils and condenser are fixed, sealed and shielded separately. Cannot vary. Shipping weight, 1/2 pound.

3R1236—No. R. F. 61 Magnaformer. Size, 3 1/2 x 3 1/2 x 1 1/2. List, \$8.50. Net, each..... \$4.99

3R1237—No. CU71 Uncoupler. Size, 3 1/2 x 3 1/2 x 1 1/2. Weight, 1/2 lb. List, \$6.50. Net, each..... \$3.82

We Pay Freight As Per Offer Given on Page 260

REMLER 29 Shield Grid Super

One Stage of Shield Grid R. F.

The 712 Unit contains one stage of shield grid tuned radio frequency, a regenerative first detector, three stages of shield grid amplification at 115 KC and an oscillator and second detector.

Completely Wired and Inspected

before leaving factory and balanced on the air before shipment. All that is necessary to build the receiver is to mount the tuning and volume controls on the escutcheon plate furnished, fasten the 712 Unit to the sub-base and solder a few wires to the cable socket, tuning controls and first audio transformer.

Battery Operated

and especially designed for most satisfactory use even in Metropolitan areas where extreme selectivity and volume on distant stations is important. Its performance is all that could be asked for or expected from a receiver of this type.

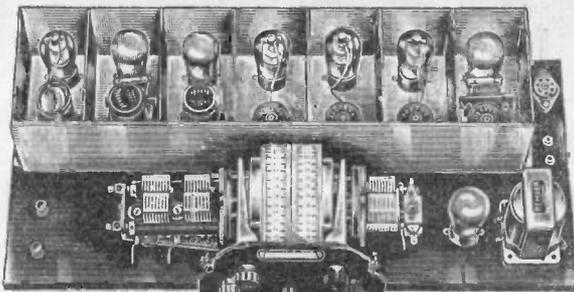
Excellent Tone Quality

is assured by the use of the new Remler audio transformers and by the use of the type 250 power tube in the 950 power amplifier, which is recommended for use with this receiver.

Easy to Build

May be built by anyone. All screws, sockets, washers, cord tip jacks, and other small parts are included. A screw driver and soldering iron are all the tools needed. All parts included are made by Remler and associated companies and are of the highest quality, assuring complete satisfaction.

The following principal parts are required to build this receiver. 712 selector and amplifier unit, 752 foundation kit in-



cluding panel, subpanel and incidental parts; two 110 Universal drum dials; 632 2 in. line condensers, 639 twin rotor condenser, Frost 500,000 ohm volume control, Frost 200,000 ohm sensitivity control, Frost 10 ohm gen. short at and switch, Frost cable plug, cable plug socket and Remler 920 audio transformer. Shipping weight, 18 lbs.
3R2154—List price, complete kit, tubes not included, \$131.25.

\$77¹⁷
NET

REMLER Plug-In Inductances

- Fit in a standard socket.
- 3R2164**—No. 650 Antenna Coupler in R. F. Circuits. 200-550 meters. For use with compensator and gang condenser. List, \$3.00. Net, \$1.77
 - 3R2165**—No. 551 Antenna Coupler for use with single condenser. List, \$3. Net, \$1.77
 - 3R2166**—No. 560 Shield Grid R. F. Transformer. 200-550 meters. Non-regenerative detector. List, \$3.00. Net, \$1.77
 - 3R2167**—No. 561 R. F. Transformer for use with regenerative detector. 201-A or 227 tube. List, \$3.00. Net, \$1.77
 - 3R2168**—No. 562 R. F. Transformer for use in all but last stages of regenerative shield grid set. Smaller primary winding, greater selectivity. List, \$3.00. Net, \$1.77
 - 3R2171**—No. 564 R. F. Transformer for use in last stage shield grid set. Has third coil for feed-back of regenerative detector. List, \$4.00. Net, \$2.35
 - 3R2109**—No. 570 Oscillator Inductance. List, \$4.50. Net, \$2.35
 - 3R2169**—No. 612 Intermediate. List, \$4.00. Net, \$2.35
 - 3R2170**—No. 614 Tuned Impedance. List, \$4.00. Net, \$2.35

Ballast Shields

Consists of a heavy die cast ring into which the bakelite base of the tube fits and a pressed copper shell which fits over the tube. Prevents howling, shields tube. Removable cap for 222 tubes.

- 3R2155**—Complete Ballast Shield. List, \$2.00. Net, \$1.18
- 3R2156**—Shell only. List, \$1.00. Net, 59c

Shielding Cases

- Rigid copper. Place over S. G. or R. F. Unit. Size, 3x5½x3½ inches. Removable top and bottom. Angle brackets included. Drilled for Remler socket. Ship. 2 lbs. List, \$3.00.
- 2R2157**—Net, each \$1.76

New Remler No. 950 Power Amplifier

The New Remler No. 950 Power Amplifier was designed for use with the new Remler "29" Receiver. It incorporates a stage of power amplification using a single CX350 in conjunction with the new Remler 921 second stage high gain audio transformer and the No. 923 Output Impedance Compensating transformer. The extra large size transformer and choke provide an unflinching source of pure DC for the operation of the power tube and to supply necessary B voltages for the operation of the receiver. The entire amplifier is built on a pressed steel sub-base and is easily constructed. May also be used with any other receiver to supply B voltage and a stage of power amplification. Ship. wt., 50 lbs.

LIST OF PARTS REQUIRED

Remler No. 950 Power Transformer and choke. Remler No. 952 Foundation Kit incorporating necessary sockets, resistances, wire, blue prints and instruction. Remler No. 920 Audio Transformer. Remler No. 925 Output Impedance Compensating T r a s. Frost No. 300 Resistance Kit. 3 Frost No. 1405 2 Mfd. Heavy Duty Filter Condensers. 2 Frost No. 1105. 2 Mfd. By-pass Condensers.

\$67⁰³
Net

Remler Socket

For use with X type standard base tubes. Positive contact, high tension springs. Easy to insert or remove tube. Socket is molded bakelite. Ship. wt., 3 oz.



- 3R2163**—List price, 30c
- 50c. Net, 30c

Condensers and Dials

See Page 134 for Remler Condensers. See Page 137 for Remler Dials.

All metal construction. All parts are completely shielded, assembled in convenient units so it is only necessary to mount the parts on the sub-panel and wire. Harness system of wiring. May be either a five tube R. F. receiver, single control, or a ten tube DX set with two controls. Housed in a metal shell. Coated with crystalline enamel in a tone sepia and seal brown finish. Uses either batteries or an eliminator. Outside aerial. Seven 201-A tubes and three 199s.

REMLER Audio Transformers

Designed according to the latest approved standards of radio engineering.



- 3R2158**—Type 900, 3½ to 1 ratio for use as 1st stage amplifier when a 201-A or 112 tube is used. List, \$8.00. Net, \$4.70
- 3R2159**—Type 901, 3½ to 1 ratio for use as 2nd stage with 171 tube. List, \$8.00. Net, \$4.70
- 3R2160**—Type 920, 4½ to 1, with frequency curve rising slightly at lower end. For use with the 3R2161 listed below, giving a flat overall characteristic for use with 201A or 112 tubes. List, \$12.00. Net, \$7.06
- 3R2161**—Type 921, 6½ to 1, with a frequency curve falling slightly below 100 cycles. This drop is compensated by the rise of the 3R2160 resulting in constant gain and a straight line tuning curve, meaning all notes are amplified equally. For use with a 210 or 250 tube. List, \$12.00. Net, \$7.06
- 3R2162**—Type 922 Output Transformer. List, \$10.00. Net, \$5.88

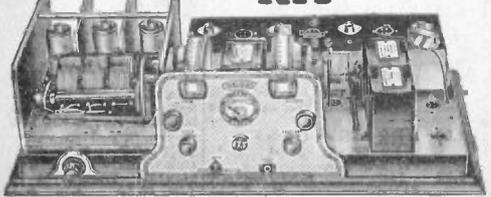
REMLER Choke Coil

This choke coil is of distinct utility in limiting radio frequency currents to certain paths. The case is of molded bakelite. Size, 1 in. diameter by 1 in. deep. Inductances 1½ millihenrys. Ship. wt., 6 oz.

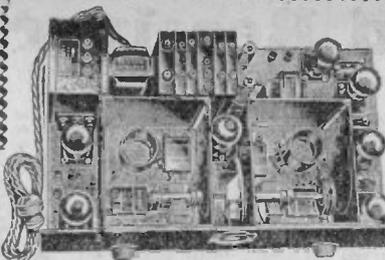
- 3R4165**—No. 35 Choke Coil. List, 90c. Net, 53c



REMLER INFRADYNE KIT



- | | List | Net |
|---|-----------------------|---------------------|
| 3R5778 —1 Remler Infradyne Foundation Kit includes panels, rheostats, dials, diagrams, jacks, switches, steel chassis, chokes, special coil, resistances, cables, nuts, screws, etc. | \$52.00 | \$30.58 |
| 3R5774 —1 Remler R. F. Amplifier, shielded with Antenna Compensator | 55.00 | 32.64 |
| 3R5779 —1 Remler Infradyne Cabinet and base | 15.00 | 8.82 |
| 3R5725 —1 Jewell 0-5 volt meter No. 135 | 7.00 | 4.46 |
| 3R5795 —1 Remler Infradyne Amplifier | 27.50 | 16.17 |
| 3R2158 —Type 900 1st Stage Transf. | 8.00 | 4.70 |
| 3R2159 —Type 901 2nd Stage Trans. | 8.00 | 4.70 |
| 3R2162 —Type 922 Output Trans. | 10.00 | 5.88 |
| | List | |
| 3R355 —Complete | \$182.50 | \$107 ³⁰ |
| | Shipping wt., 40 lbs. | Net |



Hammarlund ROBERTS Hi-Q NEW 1929 AC and DC

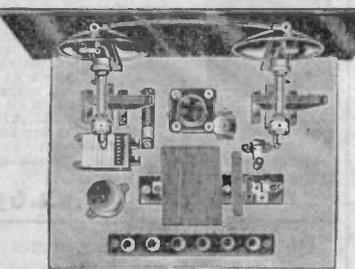
**Hammarlund Roberts
HI-Q29**

- JUNIOR MODEL List of Parts**
- 2 Hammarlund .00035 Condensers.
 - 2 Hammarlund Shield-Grid R.F. Transformers.
 - 1 Hammarlund Radio Frequency Choke.
 - 1 Hammarlund Drum Dial (Walnut).
 - 6 Benjamin Sockets.
 - 1 Sanyamo .001 mfd. Fixed Mica Condenser.
 - 1 Carter Volume Control, 5,000 ohms.
 - 1 Carter Battery Switch.
 - 4 Parvolt 5 mfd. By-Pass Condensers.
 - 2 Durham Metallized Resistors, 1/4 megohm.
 - 1 Durham Metallized Resistor, 1/10 megohm.
 - 2 Durham Powerohms, 1 watt, 100,000 ohms.
 - 1 Durham Powerohm, 1 watt, 50,000 ohms.
 - 1 Yaxley Cable Connector and Cable.
 - 1 pr. Yaxley Insulated Phone Tip Jacks.
 - 2 Eby Engraved Binding Posts.
 - 1 "Hi-Q-29 Junior" Foundation Unit.
- Shipping weight, 25 pounds.
- 3R2271—List, \$54.35. Net. \$31.96**

- Extra Parts Needed for Junior AC Model**
- 1 Benjamin Socket; 2 Parvolt 5 mfd. By-Pass Condensers; 6 Parvolt Filter Condensers;
 - 1 Thordarson No. R-111 Power Compact; 1 Thordarson Choke Coil; 1 Thordarson Filament Transformer; 1 Eletrad "Truval" HI-Q-29 Resistor. Shipping weight, 50 pounds.
- 3R2272—List, complete set parts for AC model, including above, \$103.95. Net \$61.12**

- HI-Q29 Coils**
- Set of three, two radio frequency transformers and an antenna coupler. For use with .00035 mfd. condensers. Loose coupling and very sharp tuning. Rugged and hard to injure. Ship. wt. 1 lb. each.
- 3R2181—Antenna Coupler. \$1.76**
List, \$3.00. Net
- 3R2182—R.F. Coil (2 needed). \$1.47**
List, \$2.50. Net

- Foundation Kits**
- Consist of a drilled and engraved Westinghouse mica panel, aluminum shields, drilled Van Doorn steel chassis shafts, binder post strips, Fahnestock clips, fixed resistance units, resistor mounts, brackets, clips, wire, screws, nuts, washers and other minor parts.
- 3R2183—Master Model (AC and DC). HI-Q-29. \$9.40**
List, \$16.50. Net
- 3R2184—Junior Model (AC and DC). HI-Q-29. \$8.22**
List, \$14.00. Net
- 3R2185—HI-Q-6 (1927 and 1928). List, \$15.50. Net. \$9.11**
- 3R2186—HI-Q-5 (1926 and 1927). List, \$10.50. Net. \$6.17**
- Shipping weight, each, 15 pounds



- List of Parts**
- 1 Hammarlund Short Wave Coil Set; 2 Hammarlund .00014 mfd. Variable Condensers; 1 Hammarlund Radio Frequency Choke; 1 Hammarlund Equalizer; 1 Benjamin Socket; 1 Durham Grid Leak and Mount; 1 Amperite; 1 7x4 1/2-inch Micaara Panel; 1 Socket Plug Adapter; 2 National Velvet Vernier Dials; 1 Parvolt .5 mfd. Condenser; 6 Eby Binding Posts; 1 Binding Post Strip; 1 6x10 inch Baseboard; 1 Wiring Diagram; 1 Instruction Sheet.

A remarkable distance getter. Very selective, with more than enough volume on distant stations. Priced very low, easy to build.

The Circuit employs two shield grid tubes working at maximum efficiency, followed by a detector and two stage transformer coupled amplifiers in Senior Model and three stage resistance coupled amplifiers in Junior. Tuned grid, tuned plate circuit used in the radio frequency amplifier. The effect of this circuit is to magnify the natural high amplifying properties of the tubes and to obtain a remarkably high degree of selectivity.

Each stage is shielded by aluminum plates locked together into a single unit. All parts are mounted on a specially dieled cadmium steel chassis. The tuning controls consist of two illuminated drum dials, one used to control the antenna circuit, the other the R.F. amplifier and detector circuits in the senior model, which handles all circuits by means of a gang condenser.

Senior AC Model has separate power pack. Junior AC Model has built-in power pack. Tubes needed for correct operation:

Senior DC—Two 222, two 201A and 171.
Senior AC—Two 222AC, two 226, and 171. BH Raytheon.

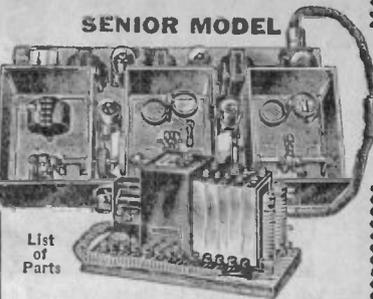
Junior DC—Two 222, three 201A and 171.
Junior AC—Two 222AC, three 227 tubes and 171. BH Raytheon.

- Shields**
- Master Shield designed for the HI-Q-29 but useful in many other circuits. Sheet aluminum sides are clamped together by aluminum corner pieces which slide into place and make positive contact, reducing eddy current losses to a minimum. An efficient, strong, easily assembled shield, allowing ample room for coil, condenser, socket and tube. Size, 6x3x 5/8 in. Supplied knocked down.
- 3R2187—List, \$2.25 each. \$1.33**
Net

- Junior Shield.** Same as above but smaller size. Used in the HI-Q-29 Junior Model. Also very desirable for use in wave meters, oscillators and vacuum tube voltmeters because of the high degree of shielding resulting from the perfect fitting aluminum case. Perfect contact between sections. No eddy currents. Size, 6x7x6 inches.
- 3R2188—List, \$2.00. Net \$1.18**

- HI-Q-6 Shield.** Divided into two compartments. Held together by screws. Heavy aluminum plates.
- 3R2189—Single compartment. \$1.47**
List, \$2.50. Net
- 3R2190—Double compartment. \$2.35**
List, \$4.00. Net
- Shipping weight, 3 lbs. each.

- Hammarlund Short Wave Receiver**
- An increasingly large number of broadcast stations are adding short wave transmitters to their equipment for simultaneous transmission of their programs. A number of European and Australian stations use short waves exclusively. Also airplanes, army, navy, code transmission, amateurs and television are to be heard on the channels below 100 meters. This receiver will pick up all of them. It is not at all uncommon to hear Europe and even Africa in good weather.
- Intended for use with a regular broadcast receiver. Plug into the detector socket and use the audio stages. If a complete short wave installation only is desired, then one or two stages of transformer coupled audio amplification may be incorporated directly into the short wave kit.
- Batteries must be used for the detector, because eliminators and power packs fail to function on waves below 100 meters. The unit is so heavy it drops out the signals.
- All parts for the kit are included along with wiring diagrams and full instructions for assembly. Shipping weight, 15 pounds.
- 3R2275—List, \$35.00. Net \$20.50**



- SENIOR MODEL**
- List of Parts
- 5 Hammarlund No. .00035 Condensers; 1 Hammarlund Coil Set; 2 Hammarlund Drum Dials (Walnut); 3 Hammarlund Chokes; 5 Benjamin Sockets; 1 Sanyamo .00025 mfd. Fixed Mica Condenser; 1 Sanyamo .001 mfd. Fixed Mica Condenser; 1 Carter Potentiometer; 2 Thordarson Audio Transformers; 4 Parvolt .5 mfd. By-Pass Condensers; 1 Durham Metallized Resistor, 1/4 megohm; 1 Durham Metallized Resistor, 1/10 megohm; 1 Pr. Yaxley Cable Connector and Cable; 1 Pr. Yaxley Insulated Phone Tip Jacks; 2 Amperites No. 1-A; 1 Amperite No. 112; 2 Eby Engraved Binding Posts; 1 "Hi-Q-29" Master Foundation Unit. Shipping weight, 30 pounds.
- 3R2273—Complete set parts for Senior DC Model. List, \$99.50. Net \$58.70**

- Additional Parts in Senior AC Model**
- 1 Benjamin Socket.
 - 1 Thordarson Choke Coil.
 - 1 Thordarson Power Compact.
 - 1 Thordarson Filament Block.
 - 6 Parvolt Filter and By-Pass Con.
 - 1 Yaxley No. 612 Cable Connector and Cable.
 - 1 Eletrad "Truval" Resistor.
- Shipping weight, 65 pounds.
- 3R2274—List, complete set parts for AC Model, including above, \$151.80. Net \$89.26**

- Shield Grid Coils**
- Space wound inductances, self-supporting, 2-inch diameter. Primary has three taps for balancing selectivity against maximum usable amplification. Coils are wound with green silk covered wire and are mounted on a transparent celluloid tube. Very low resistance.
- 3R2194—For .0005 mfd. Condenser. \$1.95**
3R2195—For .00035 mfd. Condenser. \$1.96
3R2196—Long Wave Transformer. \$1.97
3R2197—Antenna Coupler, .0005 mfd. Con. \$1.98
3R2198—Ant. Coupler, .00035 mfd. Con. List Price, each, \$2.50. Net \$1.47

- Coupler**
- Three circuit tuner for use in all HI-Q circuit and others using regeneration with R.F. amplification. Rotating tickler.
- 3R2199—List, \$5.00. Net \$2.94**

- R.F. Choke Coil**
- Helically wound, impregnated. Has no self-resonant period within the broadcast band.
- 3R2147—List, \$2.25. Net \$1.33**

- Short Wave Plug-In Coils**
- These coils are the result of years of experiment and are as efficient as it is possible to make them. Minimum dielectric in fields. Wound on very thin celluloid tubes. Wires encased in plastic, cannot pull loose. Mounted on bakelite strips with terminals spaced for lowest capacity coupling. Mounting strip with plug-in jacks and permanent primary coil which may be varied for coupling. Complete set of three coils and mounting, covering all waves between 20 and 90 meters. Shipping weight, 5 pounds.
- 3R2276—List, \$10.00. Net \$5.88**
- Short wave inductance set for use with radio frequency tube, ordinary or shield grid. No primary coil needed. Complete kit of three coils and mounting covering waves between 20 and 90 meters. Shipping weight, 4 pounds.
- 3R2277—List, \$5.00. Net \$3.53**

All Prices Quoted Are Net—There Are No Further Discounts

KARAS Screen Grid Receiver

More Signals—Less Tubes

The introduction of the screen grid tube has done a wonderful thing. It has made it possible for a five tube set to outdistance some eight tube sets. This means more and louder signals for a less expenditure of money.

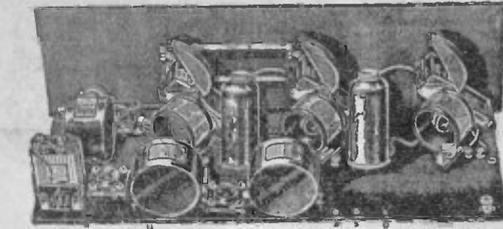
No Neutralizing is required when screen grid tubes are used as radio frequency amplifiers, because the amplification constant is so great and the internal capacity so low it needs no correcting or balancing. This means that all neutralizing equipment may be omitted.

Higher Efficiency is obtained because there are fewer parts in the circuit to absorb the valuable energy. In the Karas but five tubes are used, with a list of parts that is shorter than many three tube sets. Because fewer parts are used the quality of the individual instrument is higher. All parts going into the Karas are triple checked before leaving the factory. Also the entire kit is packed in a single carton and sealed. It is not opened till it reaches your hands. Everything needed is included. All holes are drilled. The panel is beautifully engraved. The set may be assembled by yourself with a screw driver and soldering iron. It is so simple, so accessible and so clear you cannot go wrong.

Two 222 Tubes, a 200-A, 112 and 171 are the ones recommended for maximum efficiency. They may be operated by either batteries or an ABC eliminator with equal success. For exceptional distance work it is advisable to use a variable B battery on the detector tube.

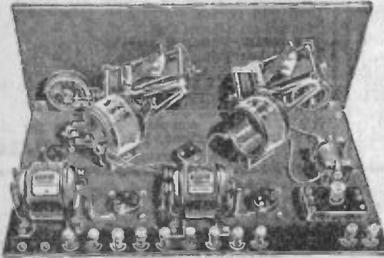
In brief, here is a set stripped for action, and with proper handling it will run circles around many larger ones. Shpg. wt. 25 lbs. **3R490—Complete Kit without tubes.**

\$48¹²
NET



Volume is ample for the operation of a loud speaker on distant stations, and selectivity is sufficient to cut through the high powered locals and bring in distant ones with only a few degrees separation on the dials. World wide reception is not only possible, but an actual fact, proved and checked. This set will actually pick up needed either. The main requisites needed for Long Distance Reception are a good aerial and ground. Good does not mean pretentious, simply free from trees and buildings, and properly insulated. A well insulated wire fifty feet long, not coming closer than three feet to any wall or tree is good. The ground is more important. A cold water pipe if close to earth, well connected, or a counterpoise if in the upper part of the building. A counterpoise is a second aerial, lower and shorter than the main one. It may be a wire laid under a rug.

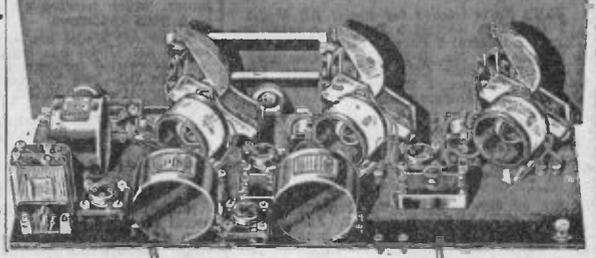
Patience brings in more distant stations than expensive equipment. Patience and the Karas bring in the most stations.



Knickerbocker

4
3R391
List \$53.50

\$30⁴⁸
NET



Karas Two Dial Equimatic

To the remarkable performance of the Equimatic has been added in this new receiver a complete neutralization that makes tuning more snappy, easier, and gives more punch to the signals.

A Clear and rich tone is obtained by this perfection. Two of the condensers are controlled by a single dial. Two tuning dials to handle. No backlash or slipping. The inductances are maintained just under the oscillating point at all times by rotating the primaries in unison with the condensers. This insures a maximum transfer of energy and eliminates all dead spots on the tuning range. All parts needed for the construction of the Equimatic are packed in a single factory sealed kit. The panel and baseboard are drilled. Assembly is a simple matter. A few hours and the set is ready for operation. There are two models, one for use with batteries or eliminators, the other to be connected directly to the light socket. Shipping weight, each 25 pounds.

3R336—For DC operation. List, \$88.00. \$51.75
Net.....
3R389—For AC operation. List, \$99.50. \$58.50
Net.....

The Circuit used is new, and different, also better than that in other four tube receivers. Instead of adjusting the regeneration by a separate control it is accomplished automatically when the tuning condenser is rotated. Absolute hair line adjustment. Operation is very simple, tuning is quick and accurate.

Distance Getting Ability is paramount. In actual test this set will outperform many six tube receivers with ease. Perfect resonance of all the circuits all the time is the solution. This is accomplished only by tuning them all at once. More results with fewer parts make this set a worthwhile investment. While primarily a long distance set it will bring in locals with sufficient volume for dancing or popular entertainment. Tone quality is top notch at all times. Clear and precise, the emitted signals have all the harmonics and over tones of the original instruments. The parts are all packed in a factory sealed carton, which reaches you unopened. Nothing extra to buy in the way of screws, jacks, etc. Shpg. wt., 20 lbs.

3R391—List, \$53.50. Net..... \$30.48



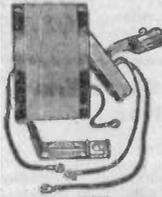
Karas Audio Transformers

Undistorted amplification of the low notes as well as the high with perfect reproduction throughout the entire scale. Tremendous volume is possible with a minimum of impressed energy.

Completely shielded and hermetically sealed against climatic conditions. Dampness, salt air, heat nor sold will affect the delicate windings or cause electrolysis in the core. Compound guaranteed never to leak out. Terminals are brought out to soldering lugs for either surface or subpanel mounting. Finished in black duco. Shpg. wt., 1 lb.
3R1840—List, \$8.00. \$4.75
Net.....

Output Filter. Consists of a 100 henry choke and a large capacity paper condenser. Duco finish. Terminals extra long. Shipping weight, 1 lb. 12 oz.
3R1841—List, \$8.00. \$4.75
Net.....

Karas Retard Coils
are for use in the grid circuit to permit the tubes to operate higher on their characteristic curve without going into oscillation. Fitted with soldering lugs for connecting direct to socket of RF amplifier. Two required in Equimatic. Shpg. wt., 8 oz.
3R500—List, \$1.00. 59c
Net.....



Karas R. F. Transformer

Constant coupling at all wavelengths. The primary is variable in the degree of coupling to the secondary at maximum. Secondary coils are fixed to a single mount. Very flexible. Shpg. wt., 1 lb.
3R1832—List, \$12.00. \$7.06
Net.....



Karas Micrometric Dial

Provides finest tuning with no backlash. Ratio 63 to 1, permitting movement of 1/1000 of an inch. Turns easily and smoothly. No holes to drill. Moulded bakelite. Diameter

4 1/2 inches. Fits 1/4-inch shaft. Shipping weight, 10 ounces.
3R1828—180 degree counterclockwise. List, \$3.50.
3R1843—180 degree clockwise. List, \$3.50.
3R1829—360 degree clockwise only. List, \$3.50.
\$2.06
Net.....
For Karas Harmonik Transformers. See page 138



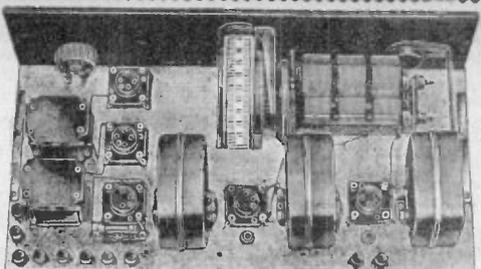
Karas Transformers and Filters

Newly designed Units that respond to all frequencies between 32 and 5000 cycles. Windings are thoroughly impregnated and sealed in a metal shell. Absolute protection against weather conditions, heat, cold and moisture. Size overall 3 1/2 x 2 1/2 x 2 3/4 inches. Duco Finish. Both soldering lug and binding post terminals. All terminals are plainly marked. Shipping weight, 1 1/2 pounds.
3R1813—2 to 1 Ratio. List, each, \$4.50. Net..... \$2.65
3R1814—1 to 1 Ratio. List, each, \$4.50. Net..... \$2.65

Push Pull Transformers

For use where a pair of tubes are called upon to handle the last stage audio. Both halves of the cycle are amplified. Shpg. wt., 2 1/2 lbs. ea.
3R1817—Input Transformer. List, each, \$5.00. Net..... \$2.94
3R1818—Output Transformer. List, each, \$5.00. Net..... \$2.94

See Pages 130 and 133 for Other Karas Parts

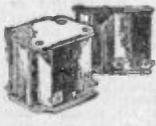


Quadraformer Coils

Very efficient radio frequency inductances. Each coil is entirely enclosed in a metal shell. When case is grounded it is impossible for coil to absorb energy or couple with other coils. No undesired transfer of energy. All coils matched. Easily mounted. Three required. Shipping weight, each, 3 pounds.
3R1312—List, Set of 3, \$17.50.
Net \$10.29

Amertran Audio

New Deluxe models which cover all audible frequencies with true to life tone quality. Mounted in enameled metal cases with terminals brought out to soldering lugs. Easily mounted. Ship. wt., 2 1/2 lbs.
3R1220—1st stage Audio.
3R1221—2nd stage Audio.
 List, \$10.00 each. **Net \$5.88**



The Quadrphase Five

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

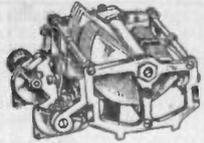
These remarkable units completely neutralize internal capacity of the tubes, resulting in an extremely sensitive receiver that will not break into oscillation.
 Quadraformer coils are shielded; prevent intercoupling or pickup in R. F. circuit. Encased in metal shells, each coil a unit. Very selective. Coils matched perfectly at factory and only those so matched are in a kit.
 Single Control Tuning by Remler three-gang condenser. Low ratio drum dial allows millimeter adjustment. Trimmers adjusted by wooden wedge which is included. Paper strip on drum enables one to log stations direct. All instruments are nationally advertised and of highest quality. This receiver, at our money saving price, is a very inexpensive investment for the amount of pleasure it gives. Type 201-A tubes may be used throughout or power tube may be used in last stage of audio. Shipping weight, 19 pounds.

Parts Supplied

1 Set Quadraformer coils with switch equip., \$17.50; 5 Benjamin Cushion Sockets @ 75c, \$3.75; 1 American De Luxe Transformer (First Stage) \$10.00; 1 American Deluxe Transformer (Second Stage) \$10.00; 1 Remler No. 635 capacity unit, \$15.00; 1 Remler No. 110, Drum Dial, \$1.00; 1 Frost No. 700 —10 ohm Rheo., 75c; 1 Frost No. 233 Pantala Jack, 65c; 1 Yaxley Filament Switch, 50c; 1 Silver-Marshall No. 340 Midfoot cond., \$1.30; 1 Pair Benjamin Brackets, 70c; 1 Electrad Phasatrol, \$2.75; 1 XL G-5 audio series cond., \$1.50; 1 Tube .00025 mf. fix. cond., 35c; 1 Tube .001 mf. fix. cond., 40c; 2 Tube 1 mf. bypass cond., \$1.80; 2 No. 1 112 Amperites @ \$1.10, \$2.20; 1 No. 112 Amperite, \$1.10; 1 Ameco Grid Leak Mounting, 25c; 1 Tube 5 Meg. grid leak, 50c; 11 Clay Binding Posts, \$1.65; 1 Bakelite Panel, 7x 2 1/2 x 3 1/2 inches, \$5.19; 1 Bakelite Subpanel, 10x20 x 3/8 inches, \$6.41.
3R348—Complete set of parts.
 List Price, \$85.25. **Net \$52.80**
 Shipping weight, 19 pounds.

Well Known Bremer Tully Parts

B-T Lifetime Condenser



A double unit for two-circuit simultaneous tuning. Compensating trimmers an exclusive feature. Second trimmer is adjusted but once. Vernier tuning with first trimmer. Capacity each unit is .00035 mfd. Trimmer does not interfere when micrometer dial is used. Ship. wt., 1 1/2 lbs.
3R4242—List, \$9.50.
Net \$5.59

B-T Radio Frequency Choke

Prevents R.F. from entering audio circuits. Bank wound. In bakelite case with binding post terminals. Single screw mounting. Shipping weight, 4 ounces.
3R4308—List, 90c. **Net 50c**



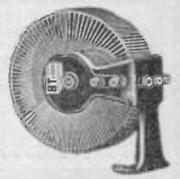
B-T Variable Condensers



Low loss style. Superior mechanical strength in aluminum frame with plates. Straight line wave length change over entire scale. Low minimum capacity. Panel or base mounting. Small amount of insulation placed well outside of electrostatic field. Pigtail rotor connection. Grounded frame. No dial included. Shipping weight, 1 pound.

3R4243	— .00125 mfd.	4.25	2.50
3R4244	— .00025 mfd.	4.50	2.65
3R4245	— .00035 mfd.	4.75	2.80
3R4246	— .0005 mfd.	5.00	2.94

B-T Torostyle Coil



Reduced electrical field eliminates critical angles, lessens interstage coupling and pickup by the coils and wiring. Makes a very sensitive and selective R.F. amplifier. Frame of molded bakelite, 7 binding posts arranged for simplified wiring. For use with .00025 mfd. condensers. Shipping weight, 12 ounces.
3R4232—Antenna Coupler.
3R4233—Intermediate Transformer.
3R4234—4-tube set coil. List, \$4.00 each. **Net Price, \$2.35**
 Each

B-T Audio Transformers



Produces remarkable amplification and tone, being one of the first constructional audio improvements. May be mounted in any position to provide for the shortest wiring. Ship. wt., 1 1/2 lbs.
3R4235—2.2 to 1 ratio. List, \$5.00. **Net \$2.94**
3R4236—4.7 to 1 ratio. List, \$5.75. **Net 3.38**

B-T Micro Mike

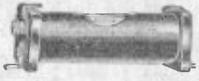


Straight line capacity gives accurate and permanent adjustment from 1 to 30 mfd. Indicator shows relative setting. Ship. wt., 4 oz.
3R4238—List, \$1.00. **Net 59c**

SAMSON POWER EQUIPMENT

TRANSFORMERS—CHOKES—NEUTRALIZERS

Samson R.F. Chokes



Helically wound; combine high frequency oscillations to proper circuit. Used between detector plate and audio transformer. Ship. wt., 3 oz.
3R4359—1 1/2 henry. List, \$2.75. **Net \$1.62**
3R4360—250 millihenry. List, \$2.25. **Net 1.33**
3R4331—85 millihenry. List, \$2.00. **Net 1.18**

Symphonic Transformers



Windings are helical, beginning at the core and coming outward in a flat spiral. Hundreds of these flat coils in a single secure ordinary winding. Efficient in operation. Amplify applied impulses without distortion without omitting any frequencies. Terminals brought out near base. Soldering lug connections. Enclosed and used by leading engineers as standards to measure other transformers.
3R4323—Symphonic Transformer for both 1st and 2nd stages. List, \$10.00. **Net \$5.88**
3R4325—Combination of 1 push-pull input and 1 push-pull output impedance. Per pair. List, \$19.50. **Net \$11.37**
3R4340—Symphonic Interstage push-pull transformer. List, \$14.00. **Net \$8.24**
3R4343—Symphonic output transformer for use with 210s. List, \$10.00. **Net \$5.88**
3R4344—Symphonic output transformer for 1 210, 2 171s, or 2 250s. List, \$10.00. **Net \$5.88**

Samson Audio Frequency Chokes



Prevent alternating current from entering DC circuit. Useful in B battery leads, and in resistance and impedance coupled amplifiers under high voltage. More effective with higher frequencies.
3R4361—3 1/4 henry. List, \$3.25. **Net \$1.91**
3R4362—30-henry. List, \$5.00. **Net 2.94**
3R4221—30-h., 80 ma. List, \$11.00. **Net \$6.47**
3R4222—30-h., 120 ma. List, \$12.00. **Net 7.06**
 Shipping weight, each, 4 pounds.

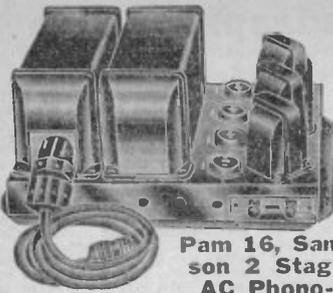
Samson Neutralizing Condenser

For compensating tube capacity in R.F. amplifiers. Minimum capacity .00002 mfd. Bakelite case, 3 1/2 x 1 1/2 inches. Shipping weight, 6 oz.
3R4332—List, \$2.00. **Net \$1.18**



High calibre instruments for use in power pack or B eliminator. Power transformers are sturdy construction with very high breakdown point. Power Condensers are well withstand twice their rated voltage without arcing or puncturing. For 110 volt, 60 cycle AC.
3R4212—B Eliminator Transformer. Output 200 volts. List, \$18.00. **Net \$10.59**
3R4213—B Eliminator Transformer for two 291 tubes. Supplies 210 or 250 volts. Output 500 volts. List, \$24.00. **Net \$14.12**
3R4214—ABC Eliminator Transformer for 112 or 171 tubes, 200 volt. List, \$19.50. **Net \$11.47**
3R4215—ABC Eliminator Transformer for 210 and 250 power tube sets, 500 volt. List, \$33.00. **Net \$19.41**
3R4216—Power Condenser block for loads of 130 volts, 50 ma. List, \$25.00. **Net \$14.70**
3R4217—Power Condenser block for loads of 200 volts, 80 ma. List, \$33.00. **Net \$19.41**
3R4218—Power Condenser block for loads of 500 volts, 80 ma. List, \$39.00. **Net \$22.94**
3R4219—Filament Transformer, 5 and 7 1/2 volt secondaries. List, \$14.50. **Net \$8.53**
3R4220—Filament Transformer, 1.5, 3.5 and 7.5 volt secondaries. List, \$18.00. **Net \$10.59**

Samson PAM Amplifiers



Pam 16, Samson 2 Stage AC Phonograph and Radio Amplifier

Designed for use with magnetic type speakers. Will operate from 12 to 18 cones or drums, or 500 to 700 headphones. Arranged so that if only one pair of headphones is connected the volume will be no greater than if several hundred are in circuit. This allows for a plug in system with a jack for each speaker or headset. Mounted on steel base with all wiring on under side. Power transformer and condenser with all filter chokes, resistances and other parts are mounted in two steel cases, entirely enclosed. No danger of being burned or shocked. Uses one 251 rectifying tube. Power tubes are one 227 and two 210s. Samson helical wound amplifying transformers. Second stage in push-pull. Output transformer is included. Size, 15x11 1/2 x 7 1/4 in. Weight, 32 lbs.

3R335—List, \$125.00. Net.....\$79.63

Entertainment on a large scale is not only possible but extremely practical with the PAM Superpower amplifiers designed especially for hotel, hospital, dance hall and general entertainment purposes. Deliver enough power to energize hundreds of headphones or dozens of loud speakers. For hotels, a speaker in every room. For hospitals, a pair of headphones for each cot. Single radio set or phonograph with master control is all that is needed. Requires no attention. No moving parts.

Magnetic speakers only may be used in tandem. A single dynamic cone of large size will throw sound a mile in the city and often twenty miles in the country. Use this for picnics, fairs and athletic meets. Hand microphone for personal announcements.

110 volts 60 cycles AC is needed to run the PAM. Wherever current is available, these amplifiers may be used. Absolutely reliable, not subject to breakdown. Require a minimum of current for operation. Self-contained.



PAC-2 Samson 2 Stage AC Power Amplifier and ABC Eliminator

with 874 voltage regulator tube and 281 half wave rectifier. Its two stages use a 227 tube in the first and two 210s in push-pull in the second. No output device is required between amplifier and speaker. Buses externally 45, 90 and 135 volts B current, 4.5 volts C and raw AC filament current for two 227 and five 228 tubes making it suitable for conversion of DC operated sets and the adding of a power amplifier. The amplifier when used in conjunction with a tuner is suitable for providing radio programs for schools, hospitals, etc. Overall dimensions, 19 1/2 x 14 1/2 x 7 1/2 inches. Weight, 48 pounds. Cord and plug included.

3R337—List, \$175.00. Net....\$110.47

PAM 17

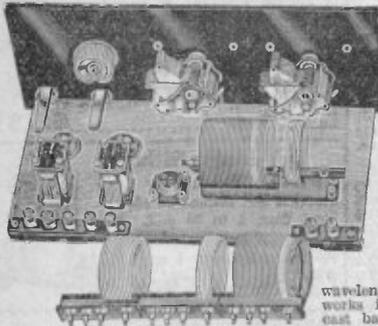
A two stage amplifier similar to PAM 16, but provided with a source of field current suitable for use with a dynamic cone. Only one cone may be used at a time with any degree of success. The transformer contained in the dynamic type speakers, AC model speaker may be used when field is directly connected to light circuit or 6-volt type when a storage battery is available. Same size and general appearance of PAM 16. Weight, 32 lbs.

3R336—List, \$125.00. Net.....\$79.63

PAM 19 Samson Three Stage AC Phonograph and Radio Amplifier

For use with larger installations requiring the operation of 50 to 50 magnetic speakers. No danger of burning up windings or ruining the transformers. Voltage compensation for line fluctuations. Requires two 227, two 210 and two 251 tubes. Two stages of single tube amplification and a single stage of push-pull power amplification. Output transformer included. Mounted on steel base with all wires concealed. Entirely self-contained. Size, 19 1/2 x 14 1/2 x 7 1/2 inches. Weight, 45 pounds.

3R338—List, \$175.00. Net.....\$110.47



Shon Wave Receiver

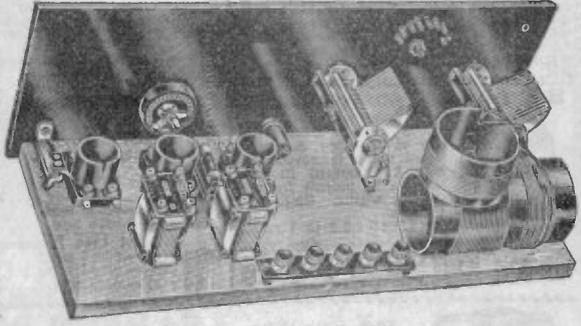
Plug-in Coils 15 to 550 Meters

The popular style of three circuit tuner which works so well on the lower wavelengths. Also works in the broadcast band. Supplied

with an additional coil which covers all the waves between 200 and 550 meters. Regular set consists of three plug-in coils ranging from 15 to 200 meters. Two stage audio amplifier. Complete with all parts and assembling instructions. World-wide range. Wire it yourself in one evening and tune in the short wave broadcast stations in this country and Europe. Run from B batteries only. Eliminator cannot be used. Requires a 112 tube for detector, 201A and 171 for amplifiers.

One 7x18 drilled bakelite panel, 1 9x17 baseboard, 1 .00014 variable condenser, 1 .00035 variable condenser, 1 UX cushion socket, 2 bakelite UX cushion sockets, 1 set short wave plug-in coils 20 to 250 meters, 1 plug-in coil 20 to 550 meters, 2 3 to 1 audio transformers, 1 single open circuit jack, 1 double circuit jack, 1 20-ohm rheostat, 1 binding post strip with five posts, 1 binding post strip with two posts, 2 Kurz-Kasch aristocrat vernier dials, 1 grid leak 2 meg., 1 by-pass condenser .001, screws, wire, miscellaneous hardware, 1 wiring diagram. Wt., 15 lbs.

3R339—List, \$40.00. Net.....\$16.65



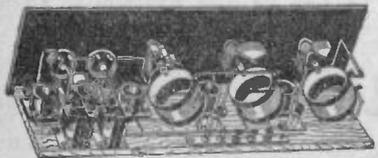
Three Tube Cockaday

The ideal set for the rural community where local interference is not had and reception is long range. Full loud speaker volume on stations 100 hundred miles or more away. Head-set may be used for greater distance. Will pick up stations coast to coast on cold winter nights. Very easy to tune. Nothing complicated. Wire it yourself. Follow instructions and solder tight joints and your set is finished. No electrical knowledge needed. Uses either standard or dry cell tubes. Batteries or an eliminator. Three 100 tubes for dry cells or three 201B for batteries. 90 volts B battery needed.

LIST OF PARTS

One 1x21-in. drilled bakelite panel, 1 20x8-in. baseboard, 2 dials, 1 30-ohm rheostat with knob, 1 single circuit jack, 1 switch lever, 7 switch points, 2 switch scopes, 1 binding post strip, 2 .0005 S. L. F. condensers, 1 filament switch, 1 Cockaday coil, 3 universal sockets, 1 Amperite, 1 6-1 transformer, 1 3-1 transformer, 1 .00025 fixed condenser, 1 2-meg. grid leak, 1 grid leak mounting, screws, lugs and bus-bar, 1 wiring diagram and layout. Ship. wt., 12 lbs.

3R345—List, \$35.00. Net.....\$12.45



Hazeltine Neutrodyne

All the parts needed to build this circuit, which has been the leader of all circuits. Tunes sharply through atmospheres. Brings in distant stations on loud speaker in clear, pure tones with wonderful volume. Stations are very easy to find and may be logged permanently. Essential parts licensed under Hazeltine Patents. You can easily build a high grade receiver at low cost. Quality considered, no other set of neutrodyne parts equals the value offered here.

Circuit Jack, 1 Carter Open Circuit Jack, 2 brackets, 1 binding post on panel strip, one 0.5, M. P. by-pass condenser, 1 battery switch, one 30-ohm rheostat, one 6-ohm rheostat, and 5 De Jur spring sockets. Ship. wt., 14 lbs.

3R332—complete Set of Parts. List, \$39.60. Net.....\$18.95

List of Parts

1 panel 7x21 1/2 in. drilled and engraved, 1 Neutrodyne kit, 1 A. F. 3 to 1 transformer, 1 A. F. P. to 1 transformer, 1 box screw assortment, 10 round bus bars, 1-3 meg. grid leak, three 4-in. dials, one .00025 grid condenser with clips, one .001 meg. condenser, one 1/4 x 3/32 baseboard, 1 Carter Closed



Neutrodyne Kit

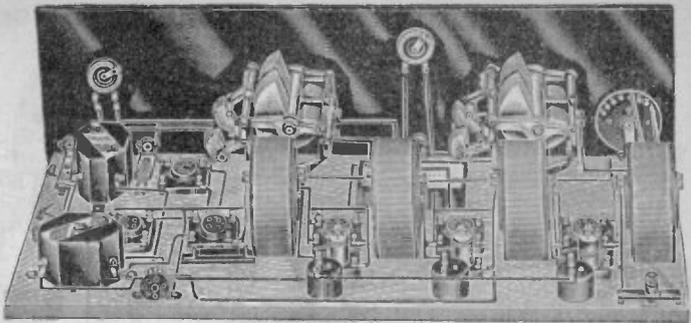
Contains 3 licensed Neutrodyne transformers, a panel layout template and a book of instructions for building the neutrodyne. By the addition of

other parts in this catalog a neutrodyne can be built at low cost. This widely known circuit has proven to be one of the most satisfactory on the market. Ship. wt., 5 lbs.

3R4175—List, \$17.50. Net.....\$6.95

Latest B. T. AC. and DC. Power Six Kits

The most recent development of the famous counterphase receiver which was so popular last year. Better than ever and more selective. Three stages of radio frequency amplification, making possible sharper tuning and adding hundreds of miles to the effective range. Only two controls. Power tube used in last stage audio. New features included are balancing condensers, Jones Multiplug and wiring harness. This receiver is very easy to build and a source of constant pleasure in operation. Complete instructions for assembling and wiring are included along with color code for the cable plug.



- 1—B-T Power Six Kit.
- 1—7x24 panel.
- 1—Baseboard.
- 1—B-T 3-31 Audio Coupler.
- 1—B-T 2-22 Audio Coupler.
- 1—B-T Tuning Controls.
- 1—.001 mfd. fixed condenser.
- 1—.00025 mfd. fixed condenser.
- 3—.006 mfd. fixed condensers.
- 2—1 mfd. fixed condensers.
- 1—2 meg. grid leak.
- 6—B-T UX sockets.

LIST OF GENUINE PARTS:

- 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.
- Ship. wt., 18 lbs.

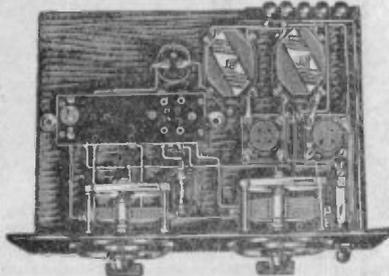
No. 3R5853. List Value, \$77.75. NET.....

\$45⁷¹

B-T Power Six Essential Kit

- 1—T. A. Thyrolyte Transformer.
- 3—T. C. Thyrolyte Transformers.
- 2—L. D. 17 Condensers.
- 1—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. Wt., 10 lbs.

No. 3R5854. List \$24⁴² Price, \$41.50. NET.....



B. T. Latest Short Wave Kit

Makes Possible World Wide Reception

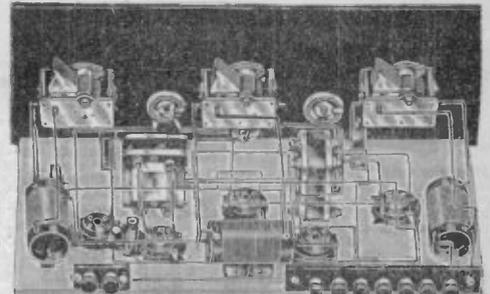
Tune in on the long distance short wave stations that are operating in the channels below 100 meters. The air is full of them, and there is not a minute, day or night, that at least one cannot be pulled in. Plug-in coils cover all waves from 15 to 200 meters. Nonmicrophonic detector socket. All parts of highest quality, especially designed for short wave work. This receiver is especially recommended for amateur work, for it responds to code with unusual readiness. Complete kit, ready to assemble. Wt., 15 lbs.

LIST OF PARTS

- 1—B-T Shortwave outfit. \$11.00
- 1—B-T .000175 type L7 condenser 4.25
- 1—B-T .00025 type L13 condenser 4.50
- 1—B-T R.F. choke90
- 1—B-T 2-22 audio coupler 6.00
- 1—B-T 3-31 audio coupler 6.00
- 1—4 ohm fixed resistance. .15
- 1—2 ohm fixed resistance. .15
- 1—Filament control jack. 1.00
- 1—Filament switch60
- 1—.00025 fixed condenser. .35
- 1—5 megohm leak50
- 5—Binding posts (A—, A+, B—, 40v., +. 45v., +).... \$ 0.75
- 1—Set blue prints and instructions50
- 1—7x18 panel 4.50
- 1—9x17 base50

No. 3R5852
Total List \$41.65 **\$24⁵⁰**
YOUR PRICE

5 TUBE T R F SET



A Wonderful Receiver Built in a Few Hours

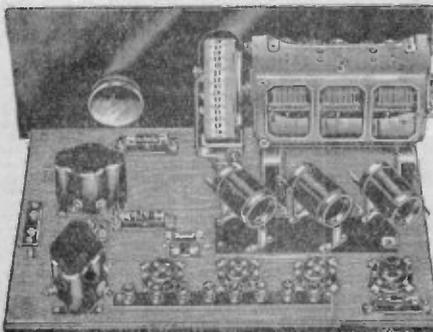
Many who build their own sets will welcome this inexpensive 5 tube receiver. All parts are of good quality and they will combine to make a very high grade receiver. The condensers have an unusually wide tuning range so that selectivity is assured. The high grade transformers assure excellent reproduction. Can be built by anyone in a few hours' time. Full instructions included with kit.

LIST OF PARTS

- 1 7x18 1/2 inch metal panel, dr. and dec., \$3.00; 1 9x17 1/4 inch wooden baseboard, 65c; 1 1 1/4x1 1/2 inch terminal strip (2 hole), 25c; 1 Terminal strip with posts, 50c; 2 Binding Posts, 10c; 1 set selenium R. F. transformers, \$4.00; 3 .00005 M. P. var. cond. @ \$2.00, \$6.00; 2 3/4 to 1 audio trans., \$6.00; 1 Polymet 2 meg. grid leak, 25c; 5 DeLaur UX sockets, \$1.25; 1 Carter Midnet 25 ohm rheo., 50c; 1 Carter Midnet 16 ohm rheo., \$1.00; 1 Battery Switch, 40c; 2 Yaxley 4 ohm fixed res., 50c; 1 Polymet .002 mf. Fix. Cond., 50c; 1 Polymet .00025 mf. Fix. Cond. with Clips, 25c; 3 Bakelite Knobs @ 45c, \$1.35; 20 feet No. 14 tinned copper wire, 55c; miscellaneous screws, lugs, etc., 50c.

3R332—Complete set of parts. List, \$27.25. Net **\$13¹⁰**
Shipping weight, 15 pounds

6 Tube Single Control Kit



A selective receiver using three stages of radio frequency amplification, detector and two stages of transformer coupled audio amplification. Single control three gang condenser. Tunes very easy and is selective enough to cut through our local barrage of twenty-five kilocycle separation. Uses 201-A tubes throughout. Automatic filament control on the amplifier tubes. A rheostat to regulate the current consumption on detector and radio frequency. Mounted on a wooden baseboard. Very easy to assemble. Build it yourself in one evening. Wiring diagram and full instructions furnished. Tone quality is above the average and volume is sufficient for dancing or public entertainment. Uses either batteries or power pack.

LIST OF PARTS

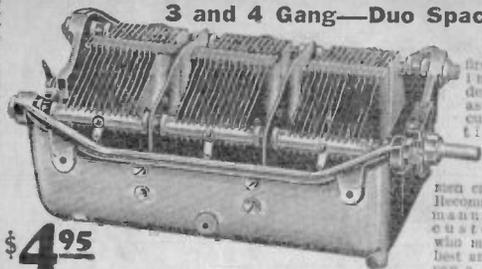
- Parts included are Bakelite Panel, wood baseboard, rheostat, volume control, our special bath-tub type three gang variable condenser, with our special illuminated positive action drum dial, three R. F. transformers, antenna ballast, grid leak and condenser, 6 sockets, two tube ballasts, automatic rheostats, two audio transformers, 8-post terminal strip and tip jacks.

3R488— **\$24⁴⁵**
Net.....
Shipping weight, 15 pounds

All Prices Quoted Are Net—There Are No Further Discounts

Die Cast Condenser—A Real Precision Unit

3 and 4 Gang—Duo Spaced Plates



Quality is the first consideration in these condensers. They are as absolutely accurate as machine production with precision machinery by skilled workmen can make them. Recommended for the manufacturer and user in set builders who must have the best and is willing to pay a little more for all

4.95

real quality. Absolutely synchronized, line perfectly, and lost motion or lag. Highest grade materials throughout. The accurate double spacing of these condensers insures a higher flash-over voltage, more constant capacity, uniform and stable operation in any receiver. Individual compensator for each unit, for phasing of circuits. Mounted in a one piece bathtub type casting. Fully guaranteed to hold calibration no matter how mounted. Units have .0035 capacity. Perfect bearings. Heavy shaft. Shipping weight, 1 1/2 pounds.

- 3R3480—3 Gang. List, \$12.50. Net, **4.95**
- 3R3490—4 Gang. List, \$18.00. Net, **7.65**



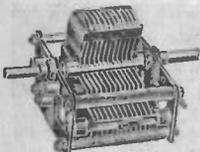
Illuminated Drum Dial Single Control-Tuning Unit

Combining our special triple gang condenser and our higher grade Illuminated Drum Dial complete with beautiful eucutcheon plates absolutely makes this the greatest quality offer at the very lowest possible price. The dial gives smooth vernier adjustment and positive drive—no back lash. Illuminated scales easy to read. Capacity .0035 Mid. Shipping weight, 5 pounds.

3R3494—3 gang bathtub type condenser complete with illuminated drum dial and eucutcheon. List, \$18.00. Net, **\$6.93**



Amsco Double Spaced Condenser Single and Double Gang

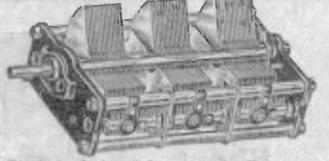


Spacing between plates is .002 of an inch greater than standard types. This wide spacing permits very accurate capacities and closely matched units. Will not vary appreciably under any normal conditions.

Meet the most exacting requirements and insure perfect operation of set for years. Single and double units have sturdy brass frame nickel plated with removable metal shaft, permitting use of Resulating shaft.

Single Units			
Capacity	List	Net	
3R3396 .00014	\$4.00	\$2.35	
3R3397 .00025	4.25	2.50	
3R3398 .00035	4.50	2.65	
3R3399 .0005	5.50	3.24	
Double Units			
3R3403 .0025	9.00	5.29	
3R3405 .005	11.00	6.47	

Amsco Improved Condensers Modified Straight Line Tuning.



Correctly designed for greatest efficiency and constant capacity. Rigid construction. Perfect smooth operation. Each gang individually compensated, providing quick easy adjustment. Mechanically one of the best condensers made. Correct in every electrical detail.

Single Units		
Capacity	List	Net
3R3483 .00025	\$3.00	\$1.76
3R3484 .0035	3.25	1.91
3R3485 .005	3.75	2.20
Double Units		
3R3450 .0025	\$5.50	\$3.81
3R3451 .005	7.50	4.41
3R3478 .0025	\$ 9.75	\$5.73
3R3453 .005	11.25	6.61

Amsco Allocating Cond'n's'rs (Straight-line Frequency)

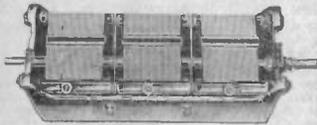


Grounded rotor, aluminum over frame, stop studs at zero and full scale positions, flexible pigtail connections and rotor shaft of chromium nickel steel make this a highly efficient and desirable instrument. Polished nickel frame.

Single Unit. Shipping weight, 1 pound.

3R3508—No. SLF1213—13 plates, cap. .0035 mfd. List, \$2.75. Net, \$1.62	
3R3509—No. SLF1217—17 plates, cap. .0035 mfd. List, \$3.00. Net, \$1.76	
3R3510—No. SLF1223—23 plates, cap. .0035 mfd. List, \$3.50. Net, \$2.06	
Double Units	
3R3511—No. SLF1226—13 plates, cap. .0035 mfd. List, \$5.50. Net, \$3.38	
3R3512—No. SLF1234—17 plates, cap. .0035 mfd. List, \$6.00. Net, \$3.53	
3R3540—No. SLF1246—23 plates, cap. .0035 mfd. List, \$7.00. Net, \$4.26	
Shipping weight, 1 1/2 pounds.	
3R3433—Special Short Wave Condenser. 10014 mfd. List, \$3.50. Net, \$2.06	

New Bathtub Type



Triple and quadruple gangs are assembled in an aluminum casting that preserves the laboratory alignment—the first capacitors truly solving major problems of tandem tuning.

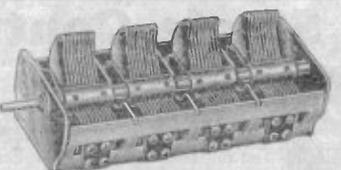
Triple Units		Quadruple Units	
3R3406 .00035	\$13.50	\$7.94	
3R3407 .0005	\$18.00	\$10.58	

Amsco Tom Thumb Condensers

Small condenser to be used as a trimmer or a neutralizer, or any place where a high grade condenser of low capacity is needed; for short wave receivers or antenna series condensers. Quality construction and workmanship. Shipping weight, 8 ounces.

3R3795—0001 mfd. 3 plate. List, 30c. Net, \$0.53	
3R3786—00025 mfd. 7 plate. List, \$1.00. Net, .59	
3R3787—0005 mfd. 13 plate. List, \$1.25. Net, .73	
3R3788—001 mfd. 23 plate. List, \$1.50. Net, .88	
3R3789—0014 mfd. 33 plate. List, \$2.00. Net, 1.18	
Shipping weight, 8 ounces each.	

PIONEER TRUSPACE CONDENSERS



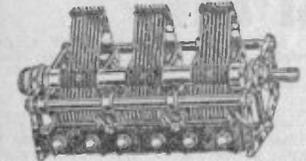
Sturdily Built, for Permanent Use Pioneer Truspace Condensers are built on a new principle of mechanical rigidity, and will retain their perfect alignment and true calibration for many years. Made with wider spaced plates, of a highly conductive metal of superior quality, thoroughly proofed against short-circuiting. The simplified design insures super-efficiency at a low price.

Guaranteed High Quality

These condensers are highest quality, thereby insuring perfect results when incorporated in any type receiver. Finished in clean, workmanlike manner, in keeping with their superior performance. The different models are designed to operate accurately in all makes and styles of sets. You will find here just the type for your requirements. Our special low prices are made possible by quantity production which gives you a better margin of profit on a piece of equipment that you can back to the hilt.

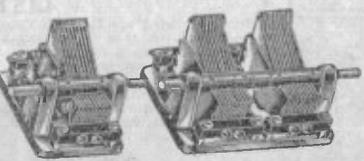
Single and double gangs are die cast frames. Three and four gang are cadmium plated steel frame. Shipping wt., 1 1/2 lbs. per unit.

Camfield Equaltune



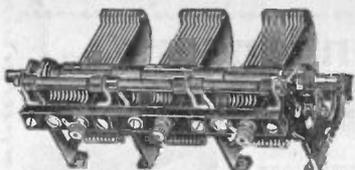
Very flexible and easy to adjust. No need of trimmers. Equalized by moving stator plates with wrench provided. Shaft may be removed without disturbing minor adjustment. Mounts from either end. Variable spring tension. Ball bearings. Panel or base mounting. Brass and nickel plate finish.

3R4067—Single, .00035 mfd. List, \$5.75. Net, \$3.38	
3R4068—Double, .00035 mfd. List, \$10.50. Net, 6.18	
3R4069—Triple, .00035 mfd. List, \$15.00. Net, 8.82	
3R4070—Single, .0005 mfd. List, \$6.00. Net, 3.53	
Shipping weight 1 lb. per unit.	



3R3743—00035 mfd. Single gang. List, \$2.50. Net, \$1.33
3R3749—00025 mfd. Double gang. List, \$5.00. Net, 2.65

Pilot Variable Condensers—Real Quality



Adapted to universal mounting, have removable shaft which may be driven from either end or replaced with a 1/4-inch bakelite rod when desired. The mounting is for either panel or sub-panel, single, straightway or drum dial. Small compensators for balancing are part of the assembly.

Modified straight line frequency rotors, phosphor bronze plaital, single hole mounting when used with a flush dial. Easy to mount and when once balanced retain its calibration throughout entire tuning range. A minimum of insulating material is used. .00035 mfd. Shipping weight, 1 1/4 pounds per gang.

3R3750 —3-gang. List, \$6.00. Net \$3.53
3R3751 —2-gang. List, \$4.00. Net 2.35
3R3752 —Single. List, \$2.15. Net 1.26

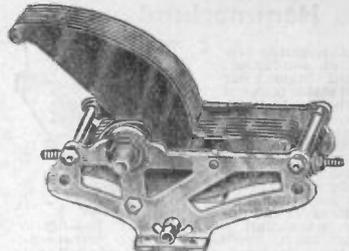
1500 and 1600 Series Special Features

Shaft removable without disturbing rotor plates of condensers or alignment, single hole mounting. Dial may be fastened to either end of shaft. Feet for sub-panel mounting. Positive contact phosphor bronze piston from rotor to end plates of each section. Permanent calibration, non-corroding plates coated with metallic lacquer. Polished aluminum end plates. Separate condensers may be ganged by using Pilot flexible coupling No. 12 or an extra long 1/4-inch shaft of either steel or bakelite.

1500 Series, Straight Line Frequency Rotors

Number	Capacity	List	Net
3R3753	.00016 mfd.	\$1.90	\$1.12
3R3754	.00025 mfd.	2.00	1.18
3R3755	.00035 mfd.	2.15	1.26
3R3756	.0005 mfd.	2.25	1.32

Shipping weight, each, 1 1/2 pounds



1600 Series, Modified Straight Line Rotors

Number	Capacity	List	Net
3R3759	.00016 mfd.	\$1.90	\$1.12
3R3760	.00025 mfd.	2.00	1.18
3R3761	.00035 mfd.	2.15	1.26
3R3762	.0005 mfd.	2.25	1.32

Shipping weight, each, 1 1/2 pounds

PILOT MICROGRAD New Neutralizing Condenser



Low capacity—adjustable—suitable for neutralizing, adjustable by-pass, a n t e n n a series, grid or bridge balancing condenser. Genuine bakelite. Accurately adjustable by hand or screwdriver. Also for phasing or matching multiple condensers.

Number	Capacity, Mfd.	List	Net
3R3765	.00010 to .00050	\$0.90	53c
3R3766	.0001 to .000500	1.00	69c
3R3767	.00025 to .001	1.25	73c

Pilot Adjustograd



A variable resistance from 0 to 1,000 ohms, for use in grid and R. F. circuits. Bakelite case, screw adjustment.

3R3768
List, 50c.
29c
Net

PILOT NEUTROGRAD Midget Condenser

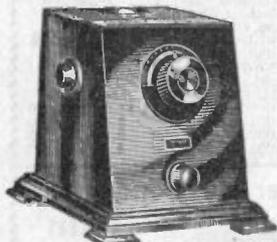
Efficient neutralizing or balancing condenser. Adaptable as trimmer for phasing, multiple condensers or as super-regenerative control.



Number	Capacity	List	Net
3R3769	.00015	\$0.90	53c
3R3770	.00025	.95	53c
3R3771	.00050	.90	56c
3R3772	.0001	1.40	82c

Special Appliances for Eliminating Interference

Walbert Penetrola Is Good!



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

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

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

3R1525—Penetrola in Black Crystallite Cabinet, for Instant Attachment. List, \$35.00.

\$20.58
Net

3R1526—Penetrola Kit with Complete, Simple Instructions, without Cabinet. List, \$15.00.

\$8.82
Net

The Station Trap



You are not getting full service from your set as long as you can receive two stations on one dial setting. The Stationtrap makes an old set new and a new one better. Once attached, needs no attention. Produces greater volume, eliminates interfering stations, clears the tone, reduces the operating cost; discovers stations you never got before. Brings out full tone quality. Traps each station completely. Switch throws it in or out. Just one dial to operate. New principle, hook-up, and type of circuit. Works equally well on any set, regardless of number of tubes. Handsome wood case, well finished. Shipping weight, 4 pounds.

Use on any set operating with an aerial. Attractive black case. List, \$10.00.

\$5.88
Net

Dubilier Condenser Type 700



Within 5% of rated capacity. Aluminum case makes it impervious to moisture. Made for either machine screw or solder connection. Flash tested at 1,500 volts DC. Shpg. wt., 2 oz.

No.	Cap.	List	Net
R412	.00025	\$0.40	\$0.24
R414	.0005	.40	.27
R415	.001	.45	.30
R416	.002	.45	.32
R417	.0025	.45	.37
R418	.005	.65	.39
R419	.006	.80	.48
R420	.0075	.90	.53
R421	.01	1.00	.59
R422	.015	1.10	.65
R423	.02	1.20	.71



Centralab Tone Amplifier

Adds a power stage of amplification to any radio receiving set. Uses new 10 or 112 power tube for improved tone quality and increased volume. Does not include a "B" eliminator. Can be used with any set, a dry battery or with dry batteries. Tone filter protects the speaker.

3R1527
List Price, \$16.00. without tube **\$9.40**
Net



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

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

3R1528
List Price, \$1.00. **59c**
Net

Steinite Interference Eliminator

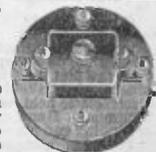
A scientifically constructed coil for use in the antenna circuit to eliminate interference and increase selectivity. Sharpens tuning and makes set work to perfection. Used on any set operating with an aerial. Attractive black case.



Use on any set operating with an aerial. Attractive black case. List, \$1.00. **59c**
Net

Muter Interference and Stationic Eliminator

Black moulded Bakelite case, size 3 1/2 inches in diameter. Can be easily and quickly attached to receiving set without the use of tools. A real device that is capable of tuning out nearby powerful stations.

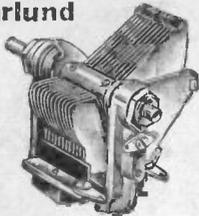


3R2712—List, \$2.50. **\$1.47**
Net

Best Condensers—Priced Right!

Hammarlund

A scientific precision condenser. Hard brass rotor and stator plates of high conductivity placed in slotted brass posts and soldered to give electrical effects of a solid piece. Specially shaped plates for easy tuning on both lower and upper wavelengths.



Adjustable ball-bearing rotor shaft, grounded through metal end-plates. Soldered clock-spring pig-tail with automatic stop. Losses too small to be measurable. Rugged, compact, can't warp. Full floating rotor shaft which supports no weight and is instantly adjustable for length. Any number of gangs separated on tandem shaft can be built up from the single units. Template, hand-capacity shield and anchoring screw included. All units accurately matched to capacity. Tested on 1,000 volts AC Ideal for drum dial. Shpg. wt., 1 1/2 lbs.

Cap. Plates	List	Net
3R3321—0005	23	\$5.50
3R3322—00035	17	5.25
3R3329—000275	13	5.10
3R3332—00025	11	5.00
3R3331—0001	5	4.75
3R3325—00015	7	5.00

TWO GANG

For use with standard single midline condensers. Not to be used with battleship model. Shpg. wt., 1 1/2 lbs.

Plates	M. Cap.	List	Net
3R3340—11	00025	17.75	\$4.56
3R3341—13	000275	8.26	4.85
3R3342—17	00035	8.75	5.05
3R3343—23	0005	9.25	5.44

MULTIPLE MIDLINE CONDENSERS

New Battleship Model. Die-cast frame gives neatness, strength, permanent plate alignment, free moving rotor, and absolutely precision made. Closest matching obtainable. 3/8 inch shaft turned down to 1/4 inch in dial end. Shpg. wts.: 2 gang, 2 1/2 lbs.; 3 gang, 4 lbs.; 4 gang, 5 lbs.

	List	Net
3R2172—Double 00035	\$ 9.50	\$ 5.59
3R2173—Double 0005	10.00	5.88
3R2174—Triple 00035	13.25	7.79
3R2175—Triple 0005	14.00	8.25
3R2176—4 Gang 00035	17.00	10.00
3R2177—4 Gang 0005	18.00	10.69

New Hammarlund Equalizer

A small neutralizing or balancing condenser, having an exceptionally wide capacity range. For equalizing the units of a multiple-tuning condenser. Its small size permits use in limited space. Bakelite base mount, mica dielectric and a heavy phosphor-bronze spring plate. Maximum capacity, 35 mfd's. Minimum capacity, 2 mfd's. 3R3307—Each..... 31c

Condenser Shafts

1/4-Inch Diameter

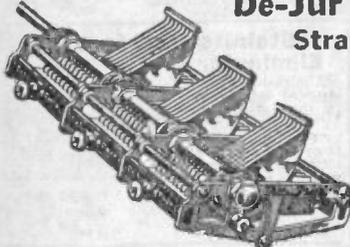
BRASS		Leth.	BAKELITE	
Number	Price		Number	Price
3R3309	14c	8 in.	3R3312	34c
3R3310	19c	12 in.	3R3313	51c
3R3311	25c	16 in.	3R3348	48c

Shpg. wt., brass 8 ozs., bakelite 4 ozs.

De-Jur Condensers

Straight Line

Low Loss



Compact, light in weight and rigid in construction. Equally efficient on high and low wavelengths and being of "straight line frequency" type will spread the stations evenly over the dial. All insulation used is of genuine molded bakelite and is placed outside of electrostatic field reducing dielectric loss to a minimum. Hand capacity is eliminated by grounding end plates to rotor.

Precision operation is assured by end tie-back on rotor plates which keeps these members in perfect alignment. This feature eliminates possibility of warping plates and resulting change in capacity curve. End-plates of brass, finished in highly polished nickel. Con-

Quaker Condensers

A line of very sturdy condensers, high in quality, very low in price. Designed to rigid electrical standards. Straight line frequency with stations spaced at intervals on the dial instead of being far apart at the high end and running all in a bunch at the low end.

Rubber Insulation is one of the best known. Hard rubber blocks insulate the stator plates from the aluminum frame, while rubber washers prevent the supporting screws from causing a short circuit.

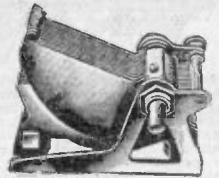
Aluminum frame is die cut in a single piece and pressed to shape. One-eighth inch thickness. Very rigid, highly polished.

Brass Plates in both rotor and stator sections. Plates are coated with lacquer to prevent them being corroded by smoke and fumes. Stator plates press punched into supporting bars of heavy brass copper. No soldering, cannot work loose or pull out. Positive contact.

Conical Bearings on rotor insure positive tension at all times. May be taken up as fast as wear and hard usage loosens them. Require to oil or lubricant. Brass against aluminum. Sufficient friction without binding.

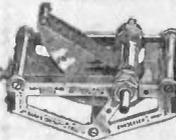
Single Hole Mounting makes mounting simple and rapid. Soldering lugs on terminals. Steel shaft fits all dials.

3R3458—00025 mfd capacity. } List \$1.50 Each
 3R3459—00035 mfd capacity. }
 3R3460—0005 mfd capacity. }
 Shipping weight 2 pounds each.



85c

Karas Orthometric Condensers



Separates all adjoining wavelengths by equal distances on dial. Proper inductance will make each point on dial 10 kilocycles apart. Makes tuning easy. Plates and frame die stamped brass, solidly braced, giving permanent alignment. Plates soldered at every point of contact. Rotor and Frame grounded. Dielectric—hard rubber—placed outside electro static field. Resistance nil—losses none. Shipping weight 1 1/2 lbs.

	List	Net
3R1823—00014 mf.	\$6.25	\$3.67
3R1824—00025 mf.	6.50	3.82
3R1825—00037 mf.	6.75	3.98
3R1826—0005 mf.	7.00	4.12
3R1842—00037, with extended shaft.		
List, \$6.75. Net,.....		\$3.98

Has same general advantages as Orthometric. Removable shaft so they can be ganged easily. Mounting for sub-panel, base-board or single hole panel from either side. Shaft diameter 1/4 inch. Shpg. wt., 1 lb.

	List	Net
3R1837—00025 mf.....	\$5.00	\$2.94
3R1838—00037 mf.....	5.25	3.09
3R1839—0005 mf.....	5.50	3.23

Compensator



Provides an easy method of rapidly balancing two circuits as capacity is taken from one while being added to the other. 3R2932—List, \$1.75. Net,..... \$1.13

Hammarlund, Jr.



Soldered brass plates, cone bearings. Has new locking device for fixing rotor plates in any position. Bakelite knob, 1/4 in. diameter shaft. Single hole panel mount. Shpg. wt., 5 oz.

	M. Cap.	List	Net
3R3335—000016		\$1.50	\$0.88
3R3336—000032		1.50	.88
3R3337—000050		1.75	1.03
3R3338—000085		2.00	1.18
3R3339—00001		2.25	1.33
3R3319—Table Mounting bracket for above. Each.....			15c

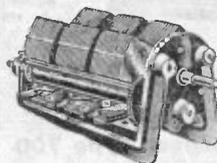
Duplex Low Loss Condenser

A low priced condenser of fine mechanical construction and perfect design. Losses reduced to a minimum. Heavy aluminum plates. Vernier type has single vernier plate controlled by lever 1/4 in. shaft. 3 in. dial required on vernier type. No dial included. Shipping weight, 1 lb.



No.	M. Cap.	Type	List	Net
3R3479—00025	Plain		\$2.00	\$0.79
3R3409—001	Plain		3.50	1.99
3R3465—00025	Vernier		3.50	1.59
3R3464—001	Vernier		4.50	1.59

Remler 360° Condenser



Twin Rotor — Low Loss

Dial rotates through full 360 degrees, giving greater separation of stations. Special adjustment permits variations of capacity at zero dial setting, allowing compensation for differences in coil construction, matching tuned circuits very accurately. Both sets of plates rotate. Driven by Bakelite gears; no body capacity. Double and triple gang, 0.0035 mf. only. Shipping weight, 2 to 5 lbs.

No.	Description	List	Net
3R4153—SLF 00035			
3R4154—SLF 0005			
3R4155—SLF 0001			
3R4156—SLW 00035			
3R4157—SLW 0005			

List \$5.00
Net \$2.94

2 Gang S L W
 3R4158—List, \$12.00. Net, \$7.06
 2 Gang S L W
 3R4162—List, \$12.00. Net, \$7.06
 3 Gang S L W
 3R4164—List, \$15.00. Net, \$8.82



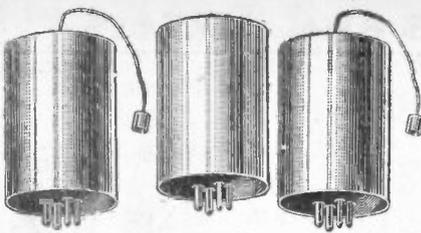
nection between rotor and frame is made electrically perfect through a spring phosphor bronze, pig-tail connector. Shpg. wts.: single, 1 lb., double, 1 1/2 lbs., triple, 2 1/2 lbs.

SINGLE UNIT

	List	Net
3R3480—00014 mfd Single	\$3.00	\$1.76
3R3481—00025 mfd Single	3.00	1.76
3R3470—00035 mfd Single	3.25	1.91
3R3471—0005 mfd Single	3.50	2.06

MULTIPLE GANG

	List	Net
3R3472—00035 mfd Dble.	\$6.50	\$3.82
3R3473—0005 mfd Dble.	7.00	4.12
3R3474—00035 mfd Triple	9.75	5.73
3R3475—0005 mfd Triple	10.50	6.18



New Coils for Shield Grid Tubes For AC or DC Sets

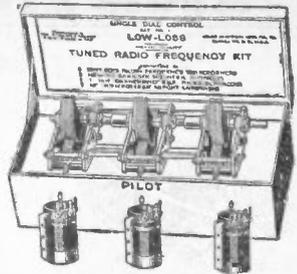
Circuits made popular by the new shield grid tubes demand a superior coil to match up the delicate features of the tube. This kit of coils is of the highest quality and efficiency, made in a factory devoted to making all types of coils and with a reputation for turning out only the best. Their engineering staff is constantly on the alert for new ideas which will help improve radio reception. This

Kit will meet the demands of the most exacting set builders, both in workmanship and performance. Units are plug-in type—you merely wire up socket and the coil plugs in same as tube. Owing to the sensitiveness required of coils to operate with shield grid tubes, each coil is completely shielded in an aluminum container—this reduces to a minimum outside interference and liability of damage to the coil.
Kit consists of one antenna coupling unit and one second stage unit, each with flexible control grid wire terminating in a metal cap to attach to top of shield grid tube one detector stage unit and one fixed regeneration coil. These units work equally well in either AC or battery operated receivers. All finished in dull, black lacquer. Size of each unit, 3/4 inches high, 2 1/2 inches diameter. Shipping weight, per kit, 3 pounds.

3R3013
List, \$12.00.

\$7.05
NET

Pilot Tuned R. F. Kits



Three coils are provided, accurately matched. New Midget type, 1 1/4 inches in diameter, space-wound with enameled wire on threaded tubing

One Dial Kit

Comprises a triple-gang condenser, a .00022 mfd. Isograd and two 7-plate Midget variable condensers. Ship. wt., 4 lbs.
3R3778—List, \$12.00.

Net **\$7.05**

Two Dial Kit

Made up of one single and one double Centraline condenser. A .00022 mfd. Isograd put across one section of double condenser and a 7-plate Midget condenser for balancing.
3R3779—List, \$10.50.

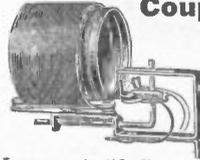
Net **\$6.17**

Three Dial Kit

Has three separate .00035 condensers and three Midget coils. Since the circuits are tuned separately, no compensating condensers are required.
3R3780—List, \$8.50.

Net **\$5.00**

Hammarlund "Auto-Couple" R. F. Coils



Provides a automatic, graduated coupling of primary coil throughout the range of condenser settings.

Insures scientifically correct coupling and maximum energy transfer at all wave lengths. No oscillations at lower wave lengths. For use with .00035 condenser having back extension shaft. Cam attaches to condenser shaft and moves primary coil. Shipping weight, 1 pound.
3R3525—List, \$3.50. Net... **\$2.06**

Drum dial type auto-couple coil. Arranged for operation with new Hammarlund Drum Dial. For .0005 condensers.
3R3534—List, \$3.00.

Net **\$1.76**

Aluminum Shields

The famous Al-co shields so popular with set builders. Specified in many kits. Highest grade aluminum.

3R3697—Wing Shields 4x6 inches. Sets of 4. Ship. wt., 1 1/2 lbs. List, \$1.75. Net... **\$1.14**

3R3781—Box Shields 5x9x6 inches. Shipping weight, 3 1/2 pounds. List, each, \$3.50. Net... **\$2.28**

3R3782—Junior Box Shields. 4 1/2 x 4 x 5 inches. Sets of 4. Shipping weight, 6 pounds. List, \$8.00. Net... **\$5.20**

3R3783—Junior Box Shields in single lots. Shipping weight, 2 lbs. List, \$2.00. Net... **\$1.40**

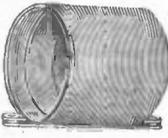
Our Special Aluminum Shields

A high grade wing type shield. This type is used in many well known circuits. Size 3 1/2 x 3 1/2 inches. Shipping weight, 1 pound.
3R3784—List, per pair, 30c.

Net **18c**
For zinc, copper and aluminum shielding metal, see page 146.

Self-Supporting Space Wound Radio Transformer

Perhaps the most efficient type of coil made. Very high amplification with minimum losses. Sharp tuning, pure tonal quality. Firm and strong. Easily mounted. Tunes 200 to 550 meters with .00035 condensers. Shipping weight, 2 pounds.



3R3015—Per set of three. List, \$4.50. Net... **\$2.25**

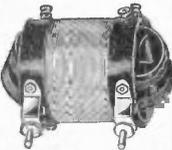
R. F. Choke

An air and moisture proof choke, entirely encased and sturdily constructed. Base or panel mounting. Binding posts simplify wiring. Shipping weight, 6 ounces.
3R3437—List, 75c. Net... **44c**



Universal Three Winding Coil

A new double rotor coil that makes an excellent tuner, wave trap or radio frequency transformer. Furnished knocked down with complete instructions for assembling. May be used as a three circuit tuner or one rotor and the stator make a fine variometer. Remarkable selectivity may be obtained when used as a wave trap. Shipping weight, 1 1/2 pounds.
3R3000—List, \$5.00. Net... **\$2.35**



De Jur Coupler and R. F. Trans.

Many of the radio sets now in use employ tuned radio frequency. These all require a coupler or 3 circuit tuner and R. F. transformers. The coupler is ideal for it has a rotating primary, or it may be used for a three circuit tuner by itself. The R. F. coil has 60 turn secondary and 13 turn primary on a moulded bakelite tube. May be either mounted on panel or baseboard. Genuine quality at a remarkably low price.
3R3001—Coupler. List, \$2.00. Net... **\$1.77**
3R3002—Transformer. List, \$2.00. Net... **\$1.18**

3R3003—Transformer. List, \$2.00. Net... **\$1.18**

Short Wave Plug-In Coils

Coils accurately wound and spaced on moulded Bakelite frames. Loop at top makes handling convenient with no chance of injury. A new idea in Plug-In Coils that is approved by leading short wave reception authorities. Use only small space for installation—no more than ordinary tube. A regular UX-227 type socket serves as a receptacle and to make all contacts in circuit. Makes a neat job. Change from one wave range to another made in an instant. One each of following coils included: 17 to 30 meters; 30 to 52 meters; 48 to 105 meters; 73 to 202 meters; 200 to 500 meters.



3R3698—Per set. List, \$8.50. Net... **\$4.85**

Ellis "D" Coils

Two inches high and two inches in diameter. Space winding reduces distributed capacity and radio frequency resistance.

Kit of three coils with blueprint for 5 tube set. Kit of four coils with blueprint for 6 tube set.

Wound for .00035 Condensers

3R3626—Single coil. List, \$2.50. Net... **\$1.47**

3R3668—Kit of 3. List, \$7.50. Net... **\$4.41**

3R3666—Kit of 4. List, \$10.00. Net... **\$5.88**

Wound for .0005 Condensers

3R3627—Single coil. List, \$2.50. Net... **\$1.47**

3R3667—Kit of 3. List, \$7.50. Net... **\$4.41**

3R3665—Kit of 4. List, \$10.00. Net... **\$5.88**

The Ellis "D" Coil Oscillator Coupler. May be used in practically all types of super circuits.

3R3628—List, \$3.00. Net... **\$1.76**

The Ellis "D" Coil Antenna Coupler allows use of indoor or outside antenna in place of loop on present supers.

3R3648—List, \$3.00. Net... **\$1.76**

180° Variometer and Variocoupler

Green silk windings. Firm contacts. 1/4-inch shaft. Primary is tapped for fine tuning. Use with .0005 condenser. Ship. wt., 15 oz.
3R3776—Variometer. List, \$2.00.

3R3777—Variocoupler. Net... **89c**

Variometer

Just the thing for experimental purposes. Very accurate wood forms thoroughly seasoned. Correct inductive ratios. Large sized wire insures highest efficiency.

3R3605—Variometer. List, \$3.50. Net... **98c**

Special reduction

Antenna Inductance

Stage of untuned R. F. for 6 tube sets. Has three binding posts as shown. Ship. wt., 6 oz.
3R3434—List Price, 75c. Net... **44c**

Radio Frequency Coils and Tuners

Superior Low-Loss Tuners

\$1.03



3-Circuit for Distance Volume and Selectivity

These are the best style tuners for regenerative circuits. The three circuit feature enables you to easily build a set that will step out and get the distant station and yet cause little interference to surrounding sets as most regenerative circuits do. Consists of an aperiodic aerial inductance and secondary, wound on stator tube within which is a tickler coil. Windings are of red, white and green silk wire on low loss cut-out forms. With these units first class sets can be built at low cost as with them three tubes will equal five tubes used in most other circuits. Distant stations can be consistently tuned in with exceptional volume and quality of tone. Shipping weight, 12 ounces.

3R3615—Large size, 3 inches diameter; 3 1/4 inches high. Covers 190 to 570 meters with .0005 condensers. Each..... **\$1.03**

3R3616—Small size, 2 3/4 inches diameter; 2 3/4 inches high. Covers 190 to 570 meters with .0005 condensers. Each..... **\$1.03**

3R3617—Small size. Low wave type. Covers 37 to 150 meters with .0005 condensers. Each..... **\$1.03**

Small sizes are especially suited to portable sets.

Superior Low-Loss Antenna Coil

Used with above tuners in circuits such as Browning, Drake, etc. Wound with silk covered Litz wire on low-loss genuine bakelite frame. For .0005 condenser only. Shipping weight, 8 ounces.

3R3618—Large size. 3 inches diameter; 3 1/4 inches high. Each..... **73c**
3R3619—Small size. 2 3/4 inches diameter; 2 3/4 inches high. Each..... **73c**



Basket Weave Coils



3R3711— **94c**

Box of 3 coils.....
 Real value for the set builder. At our prices a fine set can be built at a very low cost, using these coils. Results prove them one of the best types of transformer coils in tuned radio frequency circuits for volume, distance and tone quality. Fine silk insulation. Primary wound in center for greater efficiency. Bracket permits mounting to practically any condenser. Used with .00035 condenser. Shipping weight, 1 pound.

Improved Low-Loss Coils



3R3709—Set of three. List, **\$1.18**
 \$2.00. Net.....

An improved type of basket weave inductance. Standard for all sets which require compact designs. Diameter 2 inches. Height 2 inches. Special fiber mounting disc enables easy mounting on condenser panel base-board. Each set of coils is very carefully selected and balanced for use with two or three gang condensers having units of .00035 to .00038 capacity. Air Core. Covers 200 to 550 meters with .00035 condenser. Shipping weight, 14 ounces.

Coil Mounting Plugs

3R3803—Plug for mounting "Honeycomb" coil. Shipping weight, 4 ounces. List, 50c. Net..... **25c**
3R3804—Plug to fasten mounted coil stationary to panel. Each..... **29c**
3R3805—Fiber strip to hold coils for mounting. Two-foot piece. Each..... **8c**

Spider Web Coils

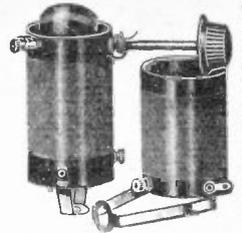
3R3705—Set of three with mounting pins..... **\$1.15**
 Primary and secondary wound together in spider-web form, making a highly efficient transformer for tuned radio frequency circuits. For use with .00035 condensers. Fine silk insulation. Can be mounted any place. Shipping weight, 3 ounces.

Honeycomb Coils

Very firm. Range given is in meters when used with .001 variable condenser. Mounted coils have standard plug mountings. Ship. wt., 4 to 16 oz.

Turns	Range	Air No.	Net Mtd.	Art. Price No. Mtd.
25	120-250	3R3712	\$0.26	3R3727 \$0.68
35	175-450	3R3713	.29	3R3728 .70
50	250-720	3R3714	.31	3R3729 .72
75	390-910	3R3715	.35	3R3730 .75
100	500-1450	3R3716	.40	3R3731 .79
150	600-2000	3R3717	.43	3R3732 .81
200	900-2500	3R3718	.50	3R3733 1.15
300	1500-4500	3R3719	.59	3R3734 1.25
400	2000-5000	3R3720	.63	3R3734 1.35
500	2800-6100	3R3721	.70	3R3734 1.40
600	4000-10000	3R3722	.90	3R3735 1.55
750	5000-12000	3R3723	.75	3R3735 1.65
1000	7900-15000	3R3724	.80	3R3736 1.75
1500	14500-26500	3R3726	1.55	3R3737 1.90

New Browning Drake Small Space Wound Coils



3R3701
 List, \$5.50.

\$3.23
 NET

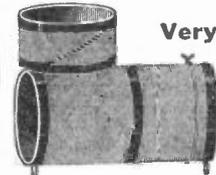
Improved 2-inch space wound coils. Has slot-wound primary. Secondary tuned with .00035 Mfd. Condenser. Antenna coil tuned with .0005 Condenser. Enameled wire makes for durability and dependable operation regardless of atmosphere. Weight, 9 ounces. **3R3701**—List, \$5.50. Net..... **\$3.23**

Browning Drake Coils

Standard size Browning Drake Transformer and Antenna Coil. Enameled wire wound. Tuned with .00035 and .0005 condensers. Range, 200-550 meters. Weight, 9 ounces.

3R3812—List, \$6.00. Net... **\$2.20**

Cockaday 4-Circuit Tuner



3R3702
\$1.95
 NET

A tuner designed especially for use with all Cockaday circuits. It has proven tremendously popular with builders of this well known and efficient hook-up. Made with selected cotton-covered wire wound on fibre tubing. Shipping weight, 1 pound.

Mounts for Honeycomb Coils

List \$5.00 Net \$1.95
3R3800—3-Coil. 3.50
3R3801—2-Coil. 3.50

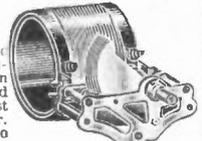
Made of polished black bakelite. Mounts on front of panel. Fitted with flexible connectors with lugs.



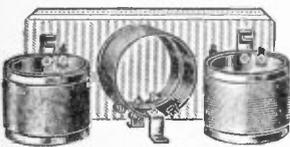
3R3802—Back of panel, 3 coil mounting. List, \$4.00. Net..... **\$1.40**

Tuned Radio Frequency Unit

Consist of radio frequency transformer wound on bakelite frame and mounted on finest grade condenser. Enables you to build a set that will get maximum volume on long distance with pure tone quality. Shipping wt., 4 1/2 lbs.



3R3613
 Each **\$2.85**
 Three matched units **\$7.65**



3R3614
 Set of three, List, \$5.00.

\$2.94
 NET

Radio Frequency Coils

Solenoid form transformer coils for use in tuned radio frequency circuits. Primary is wound on separate tube at one end of secondary. Provided with neutralizing taps. Green silk wire wound on genuine bakelite tubing. 3 inches diameter. For use with .00035 condenser. Shipping weight, 1 pound.

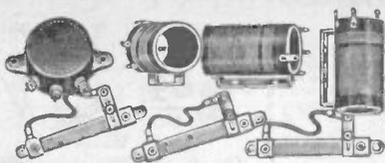
3-Circuit Tuner

Wound in accordance with latest methods. 180 degree three-circuit tuner has a stator unit 3 inches in diameter, and 2-inch self supporting rotor. Green silk-covered wire. Designed to make the highest electrical efficiency available at a price within the reach of every experimenter. Covers 200 to 550 meters with a .00035 Mfd. variable tuning condenser. Self supporting on panel mounting. Shipping weight, 8 ounces.



3R3703 **98c**
 List Price, \$1.90. Net

R. F. Coil Kit for 6 Tube Set



eled wire with the correct turns ratio. The four terminals are brought out from one end and soldering lugs. Dipped in solder to speed up assembly and wiring. Mounting bracket is detachable. Grid resistance units are wound with fine resistance wire and are rated at 1000 ohms each. These are inserted in the grid leads of the three radio frequency tubes and are used to control oscillation and prevent interstage coupling. They are variable by means of a slider. When the set is placed in operation they are tuned to the correct value and left. Complete with hookup and full directions for assembling. Shipping weight, 4 pounds.

Complete set of 3 tuned radio frequency transformers, 3 variable grid resistances and antenna coupler for building a six tube set using three stages of radio frequency amplification. The antenna inductance is aperiodically coupled, requiring no tuning. It is mounted in a bakelite shell with two terminals which are connected to A and G. The three RF coils are spaced around on perfectly threaded one-inch bakelite tubes. Enam-

2R1329
List, \$5.00
\$2.94
Net

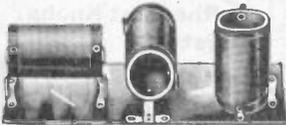
Bodine Twin R. F. Transformer



Set of Three
\$3.53
Net

A new type of closed field coil extensively used for improving all R. F. circuits. Combines very limited field with tremendously high amplification, more so than is generally possible with limited field coils. Oscillation easily controlled, possibility of interstage pickup greatly reduced. Tune with .00035 condensers. Shipping wt., 1 lb.
3R3600—Set of 3 matched transformers. List, \$6.00. Net, \$3.53
3R3623—Type T-135. For use with Phasatrols. List, each, \$2.00. Net, \$1.18
3R3624—Type T-35. Antenna type to match. List, each, \$2.00. Net, \$1.18

Solenoid T. R. F. Transformer Coils



Proven to be the most efficient type of coils. Wound with green silk wire on genuine bakelite, 1 inch diameter, 3 inches long. Each coil designed to match stage in which used. Solder lug connections. Tuned with .00035 condensers. Shipping wt., 12 oz.
List Price, set of 3, \$4.00.

3R3612
Set of Three
\$1.20
Net

Shielded T. R. F. Transformers

Highly efficient for tuned R. F. circuit. Coil enclosed in heavy copper can, beautiful crystal lacquer finish. Illustration shows part of can cut away. Case 2 1/4 in. outside diam., 1 1/2 in. deep. Especially desirable for compact sets. No interstage coupling. Tunes 200 to 550 meters with .00035 condenser. Shipping weight, 2 pounds.
3R3014—Per set of three.
List, \$6.50. Net, \$3.25



\$3.25

Space Wound Plug-in Coils

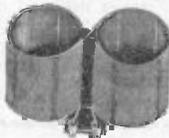


Space-wound on threaded bakelite tubing with bakelite base with prongs that fit in any UX tube socket. Enables anyone to construct efficient, compact, neat appearing set to manufacturers' standard. The wiring is made to any UX socket terminals—only necessary to plug in the coils. Tunes with .00035 condenser. Furnished in matched sets of three.

3R5773—Set of 3.
List, \$3.00. Net, \$1.18

Benjamin "Lekless" T. R. F. Transformers

\$4.41
NET
PER SET



Give clear cut selectivity, clearer tone, increased tone volume. Designed for all types of T. R. F. circuits. Also used successfully in multi-stage circuits, as an intermediate frequency transformer, as an antenna coupler and as a wave trap. Loose basket weave type construction, space wound by a special process which places each turn with mechanical accuracy. Low distributed capacity, low resistance and high inductance. Low power loss because of minimum amount of supporting insulation. For use with any tubes, including the new AC. Can be mounted in any desired position. Closed field prevents leakage and feed back. Two antenna taps provide greater amplification—the top tap for antenna under 75 feet long and the bottom tap for antenna over 75 feet long. Coils are double green silk covered. Size, 2 1/4 x 3 1/2 inches on panel, 2 1/2 inches high. Shipping weight, 1 pound.

3R4115—Set of 3 matched coils. List, \$7.50. Net, \$4.41

Bruno No. 99 3-Circuit Tuner



Primary and secondary wound on quartzite glass rod. Ticker coil permits regeneration without squeaks. Single hole mounting. Pictalled rotor leads. 2 1/2 in. high; 2 1/2 in. diam. Shpg. wt., 8 oz.
3R3621—200 to 575 meters for .00025 condensers. List, \$5.50. Net, \$3.22

3R3622—20 to 110 meters for .0001 condenser. List, \$5.50. Net, \$3.22

3R3007—R.F. Transformer. Same construction as tuner. Primary in center of secondary. Very low loss and efficient. Size, 2 1/4 x 2 1/2 in. List, \$3.00. Net, \$1.76



Erla Reflex Transformers



Genuine Erla R. F. Transformer for use in reflex and standard frequency circuits. Type 1 is for 1 tube sets and for first stage of two and three tube sets. Type 2 is for use on second stage of two and three tube sets. Shipping weight, 8 ounces.

3R1312—Reflex No. 1. Each \$1.20
3R1313—Reflex No. 2. Each \$1.20

Dubilier R. F. Transformer

A highly efficient iron core radio frequency transformer which has achieved a prominent place among radio frequency transformers. Wave length range, 225 to 650 meters. Mounted in a bakelite case with plainly marked binding posts. Shipping weight, 8 ounces.



3R1315—List price, \$4.00. Net, Each, \$2.35

Tricoil R. F. Transformer



This transformer will produce wonderful results in any type of regular or reflex radio frequency circuit. Its efficiency is due to a compensating coil which broadens the range without reducing selectivity. Perfect for one, two or three stages. Range, 175 to 600 meters. Shipping weight, 8 ounces.

3R1316—For 199 or 11 or 12 type tubes. List, \$2.00.
3R1317—For 201A or 301A tubes. List, \$2.00.
Special Net, \$1.17

Sickles Coils for Roberts Reflex



For any Roberts circuit. Range 200 to 570 meters. Used in two, three, or four tube circuits. The R. F. regenerative reflex circuit will produce the greatest volume with a given signal strength. 2 tube set will operate loud speaker on distant stations. Use with two .0005 mf. condensers. Shpg. wt., 8 oz.
3R5767—List, \$8.00. Net, \$4.70

Sickles Coils for Browning Drake

Antenna coil and R. F. unit with tickler. Diamond weave winding. R. F. unit one hole panel mounting. Use with one .0005 and one .00035 condensers. Instructions included. Shpg. wt., 8 oz.
3R5768—List, \$7.50. Net, \$4.45

Acme R. F. Transformer

Iron core type mounted in genuine bakelite case with different windings for each separate stage of amplification. For use in any type R. F. circuit and especially suited to reflex circuits. Shipping weight, 12 ounces.
3R4347—R-3 2d stage. List, \$3.00.
3R4348—R-3 3d stage.
3R4349—R-4 3d stage. Net \$1.76



Space Wound Solenoid Coils

The new midget type. An inexpensive method of obtaining the new R. F. circuit results. Special feature is exceptionally small electro-magnetic field about coils allowing mounting with parallel axis as close as 4 inches, center to center. Space wound with enamel wire for low capacity. Diam., 1 1/4 inches; 88 turns per inch on bakelite tubing. Covers 200 to 550 meters with .00035 condenser. Set contains 3 matched coils. Shipping wt., 1 lb.
3R5775—Set of 3. List, \$1.50. Net, \$0.99

59c
Net



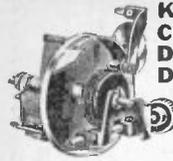
Shielded R. F. Transformer

PLUG-IN COILS
3R3601—Set of three. Retail, \$6.00. Net, \$3.52

Consist of solenoid wound coils mounted inside of copper "can" thoroughly shielded and perfectly matched. Full electrostatic and electromagnetic shielding without eddy current losses. Units may be mounted in any position desired. Also prevent coil "pick-up" eliminates interstage coupling and add increased sensitivity and selectivity to any tuned radio frequency circuit. Simply wire up a 4 prong tube socket and plug coils into place. Height, 3 1/4 inches. Diameter, 2 1/2 inches. Shpg. wt., 2 lbs. 4 oz.



HAMMARLUND NEW



KNOB-CONTROL DRUM DIAL

List \$4.00
2.35
Net



3R1444 — Black knob
3R1505 — Walnut knob

Controlled by a knurled knob placed to be placed in any position on a panel. Wave length scale is translucent celluloid illuminated from rear and driven by silk and linen cord gripping a small drum—no backlash or lost motion. Embossed oxidized bronze escutcheon. Complete with template, electric bulb, screws. Ship. wt., 2 lbs.

translucent celluloid illuminated from rear and driven by silk and linen cord gripping a small drum—no backlash or lost motion. Embossed oxidized bronze escutcheon. Complete with template, electric bulb, screws. Ship. wt., 2 lbs.

Karas Micrometric Dial
List \$3.50
2.06
Net

Gives at will either direct action or 63/2 vernier action, permitting a movement of 1/1000 of an inch. Turns easily and smoothly, without backlash. Made of beautiful molded Bakelite. Diameter, 4 1/2 inches. Fits 3/8-inch shaft. Shipping weight, 10 oz.
3R1830—180 Degrees Clockwise
3R1829—260 Degrees Clockwise.

B. M. S. DIAMOND VERNIER DIALS

Combines ease of tuning with decorative design. Metal vernier dial. Smooth friction drive. Beautiful antique finish. Easy to install. Ship. wt., 10 oz.

3R1424—Clockwise
3R1425—Counterclockwise.
List, \$1.80. Net **59c**

Genuine Bakelite Dials

3R1435—4 in. Each **22c**
3R1436—3 in. Each **19c**
3R1437—2 in. Each **15c**
One of the finest dials on the market. Molded of genuine bakelite in polished black finish. Scale in contrasting white. Large, deep fluted knob allows positive action. Fits 3/4-inch shaft. Ship. wt., 10 ounces.

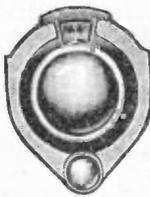
KURZ-KASCH ARISTOCRAT VERNIER DIALS



Most artistic and attractive vernier dial on the market. Made of bakelite, highly polished. Easy to install. Requires only one hole for condenser shaft and two small holes to secure dial to panel. No gears to strip. No backlash. Ratio of vernier 14 to 1. 4 inches wide, 4 7/8 inches high. Ship. wt., 3/4 lb.

3R1400 — Black 0-100-0
3R1401 — Walnut 0-100-0
3R1407 — Black 0-200
List, \$2.00.
\$1.18
Net

NEW MIDGET MODEL



This Midget Model is identical with the Aristocrat model shown above, except for size, which is 3 by 3 inches. A very attractive vernier dial of polished Bakelite. Only one hole needed for condenser shaft, and two holes to secure shaft to dial. Scaled 0-100-0. Ship. wt., 8 oz.
3R1420—Black
3R1421—Walnut
List, \$1.25.
73c Net

K. K. Aristocrat Dials

Genuine bakelite dials finished in either black or walnut. Special patented feature fastens dial firmly to shaft without set screw with no chance of slipping. Use them together in the different sizes required; they give that attractive manufactured appearance to any set.

Black Finish	List	Net
3R1412 —4 in. 100-0.....	85c	43c
3R1411 —4 in. 0-100.....	85c	43c
3R1410 —3 in. 100-0.....	60c	32c
3R1409 —3 in. 0-100.....	60c	32c
3R1408 —2 in. rheostat dial.....	40c	21c
Walnut Finish	List	Net
3R1417 —4 in. 100-0.....	85c	45c
3R1416 —4 in. 0-100.....	85c	45c
3R1415 —3 in. 100-0.....	60c	34c
3R1414 —3 in. 0-100.....	60c	34c
3R1413 —2 in. rheostat dial.....	40c	23c

K. K. Aristocrat Knobs

Rheostat Knobs
List 30c
15c
Net



Pointer Tuning Knobs
15c
Net



A well-designed small pointer knob, built like the larger pointer knobs, but on a smaller scale, for use on rheostats and potentiometers. Harmonizes with the fine larger pointer dials on this page to complete the panel. Very attractive. Ship. wt., 10 ounces.
3R1418—Black. Each **15c**
3R1419—Walnut. Each **17c**

A neat, clean-cut, well-designed plain tuning knob, of genuine folded Bakelite, finished in beautiful two-tone light and dark walnut effect to resemble high grade wooden knobs. Will harmonize well with wooden panels. 3/4-inch shaft. Ship. wt., 10 oz.
3R1422—Diam. 1 1/4 inches. Each **10c**
3R1431—Diam. 1 1/2 inches. Net **15c**

REMLER DRUM DIAL



3R4166
List \$4.50
\$2.65
Net

One of the smoothest running dials on the market. Quiet drive gear. Tunes to a hair's breadth without backlash. 15-in. dial space divided into 200 divisions. Embossed dial indicator. Calibration strips for logging. 6-volt lamp and socket for illumination. Easily mounted. Will drive any standard condenser, single or double. Template furnished. Shipping weight, 2 lbs.

Genuine Bakelite Tuning Knobs

List 45c



15c
Net

A beautiful model of the popular pointer knob. Used in connection with etched dial plate. Strong Bakelite construction, with pointer attached. Pointer also made of Bakelite. Ivory enamel marking. Ship. wt., 1 lb.
3R1402—Black. Each **15c**
3R1403—Walnut. Each **17c**
3R1404—Brass plate with etched graduations for use with above knobs. Net, Each.... **29c**

Rheostat Knobs

List 20c



12c
Net

Well-made, small Bakelite knobs with arrow pointer. Fine polished finish. Improves panel appearance. Diameter 1 1/4 inches. Ship. wt., 4 ounces. Each
3R1405—Black
3R1406—Walnut } **12c**

Dial Marker

3R1542—3 for..... **14c**
Dozen, 48c. Postage, 2c extra.
Drill a hole in the panel and mount the marker above the dial. Nickel plated and polished.

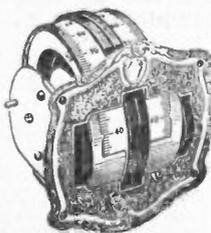
Vernier Dial Adjuster

Installed at edge of dial. A slight turn gives closest adjustment. Postage, 2c extra.
3R1438—Each, **13c**

NEWEST DESIGNS IN PILOT ESCUTCHEON DIALS

DRUM TYPE

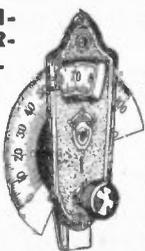
Beautifully etched, two-tone escutcheon plates, vernier drum type dial. Quick, direct tuning, or vernier adjustment. Friction drive, very smooth. No gears or backlash. Single dial with right or left hand scale can be mounted with vernier wheel on either left or right side. For condensers on both sides.



3R1426—Single drum type, right hand scale. List, \$4.00. Net **\$2.35**
3R1427—Single drum type, left hand scale. List, \$4.00. Net **\$2.35**
3R1428—Double drum type. List, \$7.50. Net **\$4.10**

ILLUMINATED VERNIER DIAL

Front plate embossed in relief, like hand engraving. Illuminated scale makes gradations stand out clear and sharp. Only two holes to drill. Positive smooth action. Control knob without Bakelite. Ship. wt., 1 lb.
3R1441—0-100 scale. List, \$2.15. Net **\$1.25**
3R1442—100-0 scale. List, \$2.15. Net **\$1.25**



DRUM DIAL Pilot's Finest

Wheel type drum dial. Quick adjustment and extreme accuracy. Smooth action. Single dials can be mounted on left or right of large wheel. Carries condensers on both sides when required.
3R1450—Single Drum Dial with 6-v. bulb. List, \$3.25. Net **\$1.90**
3R1451—Without bulb. List, \$3.00. Net **\$1.76**
3R1453—Double Dial with 6-v. bulb. List, \$5.75. Net **\$3.35**
3R1452—Without bulb. List, \$5.50. Net **\$3.21**



The Newest 1929 Dial Designs

New Marco Drum Illuminated



A beautiful new vernier dial made of tarnish-proof etched brass. Smooth, positive action and very efficient. Mounts on sub-panel. Large diameter, deep knurled knob makes tuning grip positive and effortless. Strap drive. Two take up drums on drive shaft. Straps anchored to hull on 180 degree rotation, scale 0-100. Tension spring insures tight straps at all times. Dial is ivory celluloid, lighted. Shipping weight, 2 pounds.

3R3739—Complete. List, \$3.50. Net **\$2.06**

Marco Vernier Shield Dial



A beautiful design, built so that backlash is impossible. The double tuning scale tells at a glance exactly where the dial is set. Upper scale is marked every 10 divisions while lower scale reads each division. Uses the celebrated Marco Friction drive which banishes lost motion and makes tuning

easier. Shipping weight, 1 1/4 pounds.

3R3696—Marco Dial. List, \$2.50. Net **\$1.47**

3R3799—Illuminated type. List, \$3.00. Net **\$1.76**

Marco Illuminated Control



A back panel control with illuminated dial. Bakelite bezel with glass front. No backlash. Accurate reading. Bulb included. Shipping weight, 1 1/4 pounds.

3R1434—0-100

3R1443—100-0

3R1447—360 degrees.

List Price, \$3.00. Net **\$1.76**

Marco Rheostat Dials



Designed for use with all Marco vernier dials and the special dial shown below. Diameter 2 1/4 inches.

3R1429—List Price, 75c. Net **44c**

Vernier Dial



Special Net Price

58c

Especially recommended for use on sets where space is at a premium and the larger drum dials cannot be employed. Mounts entirely on the front of panel. Etched in place, only 1/4 inch thick. The dial setting is read through a celluloid window at the top, while at either side are additional windows without celluloid, for the purpose of making it possible to write call letters on the white paper dial. Scale reading is 0-100 and 100-0 through 180 degrees. Diameter 4 inches.

Smooth action and positive calibration is guaranteed by the patented friction drive with razor edge contact. There is no backlash or lost motion. Shipping weight, 1 pound.

3R1423—0-100.

3R1424—100-0.

List, \$1.00.

Pioneer Positive Drive Drum Dial



Brass Escutcheon Plate decorated with embossed designs in attractive patterns. Adds an air of refinement to your receiver. Taper sided peep hole for dial reading.



Furnished complete with bakelite tuning knob, beautiful escutcheon plate and illuminating lamp.

The mechanical action of the dial employs the well-known drum and cable principle. Insures positive, smooth running action without backlash or wobble.

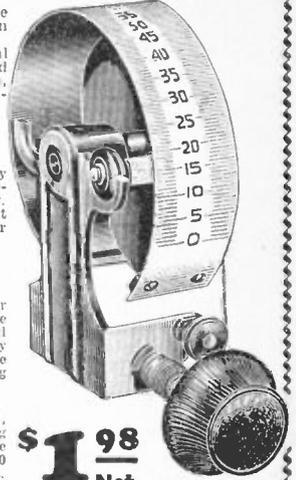
Smooth Action

The controlling mechanism is very sturdy and trouble-proof. Ball bearing provides life-long reliability. Positive tension at all times. Die cast frame, precision made. Phosphor bronze driving cable.

Biggest Value Offered

Drum may be mounted on either right or left hand. Anchors to the panel by a bushing and is supported by the shaft of the condenser. Only two holes required—the one for the shaft and the peep hole for reading the dial.

Calibrated strip is ivory celluloid, lighted by lamp which makes tuning easy in any place at any time. The scale reading is 0-100 through 180 degrees. Shipping weight, 3 pounds. **3R3798**—List, \$6.00.



\$1.98
Net

The New Silver-Marshall Drum Dial

A precision dial that provides easy tuning. Standard S.M. quality. Artistic Gold Etched scale, complete with walnut knob, but without panel window. Weight, 3 lbs.

3R3850—Left Hand Drive.

3R3851—Right Hand Drive. Retail, \$2.50. Your Price **\$1.47**



Drum Dial Window

3R3852—Window for above dial. Attractive Antique Brass finish. Weight, 3 oz. Retail, 50c. Your Price **29c**

Single Control Escutcheon

3R3853—Control panel for one dial. Combines volume control, on-off switch, and sensitivity control. Size, 6 1/4 x 8 inches. Weight, 9 oz. Retail, \$2.50. Your Price **\$1.32**

Dual Control Escutcheon

3R3854—Control panel for two dials and two auxiliary controls. Measures 6 1/4 x 8 1/2 inches. Antique Brass finish. Weight, 9 oz. Retail, \$2.75. Your Price **\$1.62**

National Velvet Vernier With Variable Ratio

1.47
Net



Employs a modified action of the famous velvet vernier. No slipping or backlash, no wobble or jerking. Has a gear shift to enable the operator to change the vernier ratio from 6-1 up to 20-1. This feature enables the rapid tuning of local stations or the more careful selection of DX stations. Excellent for short wave work where a half line adjustment is an essential factor. Mounts on front of panel. Single peephole with celluloid shield. Fits all standard shaft condensers. Shipping weight, 1 lb.

3R4146—Clockwise List, \$2.50.

3R4147—Counterclockwise Net, \$1.47

Same as above but with illuminated dial, complete with lamp.

3R4177—Clockwise List, \$3.00.

3R4178—Counterclockwise Net, \$1.76

PILOT Art Dials

The most beautiful dial we have seen. Velvet vernier. White and black figures in combination give clockwise or anti-clockwise control. Strong and substantial, easily carries "gang" condensers without slippage or backlash. Made of genuine black bakelite.

3R1440—Black. List, 95c. Net **56c**

Replacement Bulbs

3R1443—Small Tubular Bulb for all types illuminated dials.

6 Volt. Each **15c**



National's Latest Dial New Vernier Type Drum

Smooth, easy running mechanism gives true vernier action. Has automatic spring take-up. Insures positive drive at all times. Easily attached to any condenser shaft 1/4 inch in diameter. Constructed so that it will operate condensers of either clockwise or counterclockwise rotation.

This new vernier drum dial on any set will greatly improve its appearance. The beautiful etched brass escutcheon is very artistic and up-to-date. If desired the illuminator listed below may be easily attached so that no other light is needed when tuning. Light also acts as a reminder in turning set off when not in use. Reads 0-200. Will rotate 360 degrees if desired. Shipping weight, 1 lb.

3R1507—Drum Dial, complete. List, \$4.00. Net **\$2.35**

3R1504—Illuminator to fit above. List, 50c. Net **29c**



All Prices Quoted Are Net—There Are No Further Discounts

Dependable THORDARSON Transformers

Autoformer



An all frequency amplifier. Amplifies lowest notes as perfectly as high ones. Gives great clarity on all signals and better volume control. Improves reception of weak programs. Built on same principle as line amplifier at newest high powered broadcasting stations.

3R1217—Thordarson Autoformer. Each..... **\$2.94**

Push-Pull Interstage



A special audio transformer to couple two stages of push-pull amplification. Especially applicable in power amplifiers, to prevent tube distortion in first stages of audio. Ideal for use with UX 250 type power tube in the output stage.

\$7.06 NET
3R1218 T2973. List. \$12.00.

Push-Pull Input



This transformer is designed to couple a stage of straight audio amplification to a stage of power push pull using any type of power amplifying tubes. The excellent design produces clear amplifications with a minimum of distortion.

3R1266—Type T-2408. Ratio 1 to 1. List, \$8.00. **\$4.70** NET
3R1267—Type T-2922. Ratio 3 to 1. List, \$12.00. **\$7.06** NET

See Pages 96 and 132 for Thordarson Power Equipment.

Service Men's Specials

A. F. Transformers



Economy

Standard equipment in more than any other make. It is a very efficient, clear toned transformer and gives excellent volume.

3R1209—2 to 1. List, \$5.00. Net, **\$2.94**
3R1210—3½ to 1. List, \$4.00. Net, **\$2.35**
3R1211—6 to 1. List, \$4.50. Net, **\$2.65**
3R1212—Push-Pull Transformers, one input and output. List, \$13.00. Net, **\$7.65**

Sub-Panel



Furnished with leads coming out the base for sets mounted in sub-panel. Provides neater assembly, shorter leads and greater efficiency.

3R1213—6 to 1 ratio. List, \$4.50. Net, **\$2.35**
3R1214—3½ to 1 ratio. List, \$4.00. Net, **\$2.65**
3R1215—2 to 1 ratio. List, \$5.00. Net, **\$2.94**

"Z" Coupler



3R1274 List price, \$12.00.

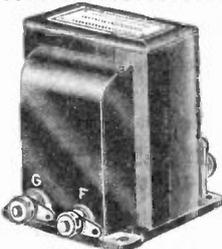
\$7.06 NET

Screen grid tubes can be applied to audio amplification with as great a success as it has hitherto been applied to R. F. amplification.

The "Z" coupler is a high impedance unit designed as an audio coupler for the screen grid tube. With this coupler and screen grid tube it is possible to obtain an amplification of 40 times the input voltage in a single stage. Shipping wt., 3¼ lbs. 3¼x3¼x3¼ overall.

Type R-300

Audio Transformer



A quality transformer with unusually faithful reproductive powers and a very wide amplification range. The super-sized core combined with the high inductance primary result in the evenness of amplification so characteristic of this transformer. Designed for 2-stage amplification. Ideally adapted for use with cone type speakers.

3R1216 List, \$8.00. **\$4.70** NET

Output Chokes

3R1255 Type R-196. List, \$5.00.



\$2.94 NET

Type R-196

This Choke together with a 2 or 4 mfd. high voltage condenser is designed as output for power audio amplifier to protect speaker windings. Inductance 30 henries DC resistance 360 ohms. Current carrying capacity 85 milliamperes. Size, 2½x2½x3 inches high. Shipping weight, 3 pounds.

Type T-2420

A center-tapped choke with 30 henries inductance either side of center-tap. Sufficient capacity for the output of two 210 type power tubes. No output condensers are required. Size, 2½x2½x3 inches high. Shipping weight, 3 pounds.

3R1257—Type T2420. List, \$8.00. Net, **\$4.70**

Speaker Coupling Transformers

Output transformers designed to protect speaker windings against high direct current voltages where power tubes are used.

3R1254—Type R-76—Output transformer to couple one 171 tube to standard speaker. Wt., 3 lbs. List, \$6.00. Net, **\$3.53**
3R1276—T2976—Output transformer to couple one 210 tube to standard speaker. Weight, 3 lbs. List, \$6.00. Net, **\$3.53**
3R1275—T-2901—Push pull output transformer to couple two 250 or two 171 tubes to standard speaker. Ship. wt., 4 lbs. List, \$12.00. Net, **\$7.06**
3R1271—T2902—Output transformer to couple one 250 tube to moving coil of dynamic speaker. List, \$12.00. Net, **\$7.06**
3R1272—T-2903—Push pull output transformer to couple two 250 tubes to moving coil of dynamic speaker. Ship. wt., 4 lbs. List, \$12.00. Net, **\$7.06**
3R1273—T-2629—Push pull output transformer to couple two 210 tubes to moving coil of dynamic speaker. Ship. wt., 3½ lbs. List, \$10.00. Net, **\$5.88**



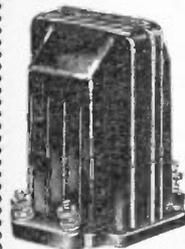
Hedgehog A. F. Transformer



Smallest audio frequency transformers in size. Suitable for portable and other sets where space is limited. Very efficient. High amplification. Shipping weight, 1 pound.

3R1302—6 to 1. \$3.50. Net, **\$1.98**
3R1303—5 to 1. 3.50. Net, **\$1.98**
3R1304—10 to 1. List, \$4.50. Net, **\$2.59**

Pilot Audio Transformers and Output Filter

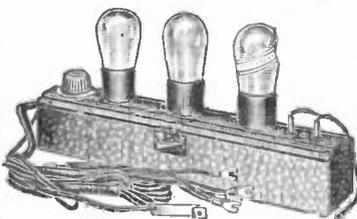


The new Pilot Audio Transformers were designed to meet the demand for the highest quality reproduction in modern radio sets. This transformer can be used in any set where high grade parts are specified. The laminations and windings are of the highest grade materials and we do not hesitate to class this transformer with any that are on the market, regardless of price.

Beautifully designed case of genuine black Bakelite and thoroughly waterproofed.

3R1268—No. 390—2 to 1 ratio audio. List, \$2.75. Net, **\$1.62**
3R1269—No. 391—3½ to 1 ratio audio. List, \$2.75. Net, **\$1.62**
3R1270—No. 392—output filter. List, \$3.25. Net, **\$1.91**
3R1203—No. 394—Output Transformer. List, \$2.50. Net, **\$1.47**
3R1204—No. 390—Push-Pull. List, \$3.00. Net, **\$1.77**
3R1205—No. 401—Push-Pull Output Impedance. List, \$3.00. Net, **\$1.77**
3R1206—No. 308—Output or B Eliminator Choke. List, \$2.75. Net, **\$1.62**

Na-Aid Truphonic Power Amplifier



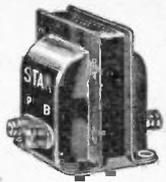
3R5784—List, \$25.00.

\$14.70 NET

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

Used in conjunction with electric pickup, without other part of radio set except batteries, it provides reproduction even surpassing the most expensive advertised electric phonographs. This unit, an electric pickup and a spring motor provide the essential units for an electric phonograph that you can make yourself. 12½ inches long, 2½ inches wide, 2¼ inches high. Ship. wt., 6½ lbs.

Jefferson Star Audio Transformer



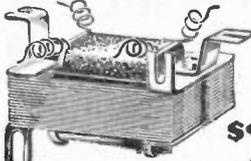
Those Audio Transformers are sealed in black enameled cases to prevent moisture from getting into coils. Built of the highest grade materials to the strictest specifications. Special laminated core insures even distribution to flux through entire circuit. Nickelled binding posts mounted on Bakelite insulation. 2 3/4 inches high by 2 1/4 inches wide and 2 5/8 inches deep. Ship. wt., 1 lb.
3R1308—3 to 1 ratio. List, \$2.75.
3R1309—6 to 1 ratio. List, \$2.75.
Net \$1.62

Jefferson Concertone Audio Transformer



Delivers real tone quality and fidelity of reproduction. Amplifies low and high notes equally. Extra heavy wire in primary winding and heavy insulation gives greater resistance between primary and core. Sealed in a metal case, so as to be impervious to climatic moisture. Ship. wt., 4 lbs.
3R1307—List, \$6.00.
Net \$3.53

Jefferson Replacement Audio Transformers



Small and compact, size 2 3/8 x 2 1/4 x 1 1/4 inches, including brackets. Can be mounted vertically or horizontally, above or below sub-panel. Windings are machine wound for accuracy; high-grade silicon steel core gives full amplification without distortion. A low priced, high quality audio transformer. Ship. wt., 1 lb.
3R1354—List, \$2.25.
Net \$1.32

Karas Harmonik

The wonderful 2:1 ratio audio transformer noted for its style and quality. Reproduces and amplifies high and low frequencies without distortion. Fully shielded. Plainly marked terminals, conveniently located, make wiring easy. Ship. wt., 1 1/2 lbs.
3R1322—List, \$5.00.
Net \$2.94



Karas Improved Audio

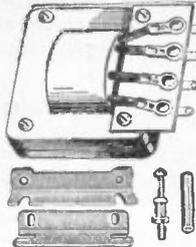


New A. F. transformers completely shielded and hermetically sealed against climatic conditions. Undistorted amplification—high and low notes.
3R1350—3 to 1 Ratio.
3R1351—2 to 1 Ratio.
 List, each \$4.00. **Net \$2.35**

Karas Universal Audio

New, highly efficient audio frequency transformers. Low priced, but equal in quality to many higher priced audio transformers. Designed especially for replacement purposes.
3R1352—Shielded. List, \$3.00. **Net \$1.76**
3R1353—Unshielded. List, \$2.25. **Net \$1.32**

Marvello Audio Transformers

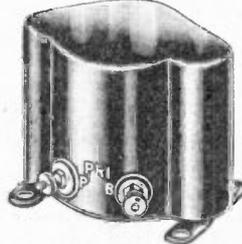


A superior transformer offering mechanical advantages to the set builders and service men. Being very compact, it is suitable for panel or sub-base mounting; brackets and screws furnished permit mounting in any position. Terminals mounted in a flat plane make wiring easier and quicker, also makes shorter plate and grid leads, therefore more efficient wiring. Correct ratio of turns on primary and secondary coils. Has current capacity of 10 milliamperes, sufficient for any reasonable overload. Ship. wt., including mounting brackets and screws, 1 1/2 lbs.

3R1323—2 to 1 ratio. List, \$4.00. **Net \$1.45**
3R1324—3 1/2 to 1 ratio. List, \$3.00. **Net 1.25**

Our Special SHIELDED Audio Transformer

All Ratios List \$4.00
89c Net

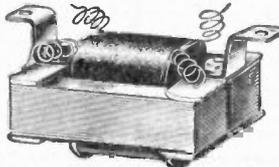


A large factory devoted to the manufacture of quality transformers has built the "Special Shielded" according to their own standards but in such quantities that the price is surprisingly low. Built to our exacting specifications, their tone and quality is unsurpassed.

SILICON STEEL CORE

Made of highest grade silicon steel with coils of thoroughly insulated, enameled wire, vacuum impregnated, insuring long life and freedom from shorts. Attractive, black enameled case with nickel plated trimmings its space 2 1/2 in. square.
 Can be used in any circuit requiring a good audio transformer. Ship. wt., 1 1/2 lbs.
3R1334—2 to 1 Ratio.
3R1335—3 to 1 Ratio.
3R1336—6 to 1 Ratio.
89c Net

REPLACEMENT Audio Transformers



A small, compact, all-purpose audio transformer, well made and highly efficient. Designed for the service man to use as a replacement unit. Also an excellent transformer to use in building new circuits. Accurately spaced machine windings are carefully balanced with high grade Silicon Steel Core for full amplification without distortion.

VERY CONVENIENT

Equipped with special feet for mounting in almost any position. Small size, 2 3/8 x 1 1/4 inches, permits mounting in any receiving set, either above or below the sub-panel at any desired location, making wiring easier and short leads possible. Has ample capacity to carry any reasonable load.
 Ship. wt., 1 1/2 lbs.
3R1325—List, \$3.00.
Net 85c

Silver-Marshall Transformers

S. M. transformers are famous for their high efficiency, splendid quality of materials, workmanship and engineering precision. A very complete listing of S. M. transformers will be found in this book on page 119.

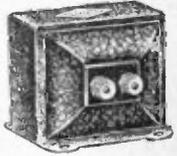
National Audio Transformers

Tone quality is a requirement of vital importance in audio frequency transformers. National has pronounced characteristics of the successful amplification of bass toned human voices and of low pitched musical instruments. Unusual ability to operate equally well in the third stage as in the first two stages of amplification. Completely shielded. Attractive nickelled case.
3R1305—3 1/2 to 1 Ratio. List, \$3.00. **Net .98c**
3R1306—6 to 1 Ratio. List, \$3.00. **Net .98c**



B Eliminator Supplies

The type RR Step Up Transformer for AC tubes has a primary voltage of 110 and has a secondary voltage of 550 with a tap at the center giving 275 volts on each side. Will deliver 50 mls. without heating.
3R1223—List, \$5.00. **Net \$2.70**



The 30 Henry filter choke has an inductance of 30 henries at approximately 40 mls. This drops somewhat below 30 henries on a 20 mil. load. The DC resistance is 375 ohms. Most efficient with the current from 0 to 60 mls; will not overheat with a load of 85 mls. Used in a filter circuit for B Eliminators, also across output terminals of set in conjunction with a 2 Mfd. condenser to keep high DC current from loud speaker. Completely shielded.
3R1224—List, \$3.00.
Net \$1.80

Choke Coil

Our 85 millhenry radio frequency choke has full rated inductance and because of our special type of coil has a minimum distributed capacity. It will give uniform results on the entire band of broadcast range of frequency. The resistance is 215 ohms.
3R1226—List, \$2.00.
Net 95c

Output Filter Transformer

Designed for protecting loud speaker where high plate voltage is used. Wound on 1 to 1 ratio and has sufficiently high impedance to take care of high voltage and current when power tubes are used. The average loud speaker coil will not stand the high voltage and current delivered by the larger sets where power tubes are used. The output transformer enables the operator to take advantage of the maximum voltage of the set without in any way injuring the coil of the loud speaker. Equipped with cord and tips so that they can be readily attached between set and loud speaker.
3R1228—List, \$5.00. **Net \$2.25**

Acme Audio Amplifier

Has high primary impedance and more amplification without distortion. Nearly uniform amplification over entire scale. Up to high Acme standards. 5 to 1 ratio. Ship. wt., 2 lbs.
3R1340—MA-2 A. F. Trans. 5-1 ratio. List, \$6.00. **Net \$3.53**
3R1341—A-2 A. F. Trans. List, \$3.00. **Net \$1.77**



Rheostats and Voltage Controls

Frost Gem Rheostats



Very small and compact. Diameter $1\frac{1}{2}$ in. depth $1\frac{1}{2}$ in. Metal frame construction, rugged and lasting. With or without switch.

Depth, with switch, $\frac{1}{2}$ in. Shipping weight, each, 6 ounces.

Series 1900 (Plain)

List, 75c.	Net, Each... 44c
3R4380—3	3R4383—15
3R4381—6	3R4384—20
3R4382—10	3R4385—25
3R4386—30	

Series 1900 (With Switch)

List, \$1.00.	Net, Each..... 59c
3R4389—3	3R4393—20
3R4390—6	3R4394—25
3R4391—10	3R4395—30
3R4392—15	

Potentiometers

3R4387—200	3R4388—400
List, \$1.00.	Net, Each..... 59c

AMPERITE The Self Adjusting Rheostat

The automatic filament control which eliminates all forms of hand rheostats from every type of radio receiving circuit and by perfect self-adjustment permits the uniformly efficient operation of vacuum tube filaments.



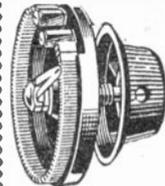
Permits the use of any type of tubes or any combination of tubes.

GUARANTEE—Every Amperite is guaranteed to function perfectly and against any defect in construction. If found defective in any respect replacement will be made without charge.

List price, \$1.10. Net price, complete with mounting..... **64c**

- 3R3207—No. 1-A— $\frac{3}{4}$ ampere type—for the UV-201-A; C-301-A; UX-201-A; CX-301-A; UX-200-A; DV-2 or any $\frac{3}{4}$ ampere, 5 volt tube on the 6-volt "A" battery.
- 3R3208—No. 4V-139—For the UV-199; C-299; UX-199; CX-299; DV-3 or 4 $\frac{1}{2}$ volts (3 dry cells) or on 4 volt storage battery.
- 3R3209—No. 6V-199—For the UV-199; C-299; UX-199; CX-299 and similar tubes on the 6-volt "A" battery.
- 3R3210—No. 112— $\frac{1}{2}$ ampere type—for the UX-112; CX-212; UX-171; CX-371 and similar tubes or 2 $\frac{1}{2}$ amp. 201-A tubes on the 6-volt battery.
- 3R3211—No. 120—For the UX-120 and the CX-220 on $\frac{1}{2}$ volts (3 dry cells) or on the 4-volt storage battery.
- 3R3212—No. 3A— $\frac{3}{4}$ ampere to control three $\frac{1}{4}$ amp. (201-A) tube on 6 volts.
- 3R3213—No. 4-A—For all 1 ampere 5-volt tubes or $\frac{3}{4}$ amp. (201-A) on 6 volts.
- 3R3111—To control one 226 type tube 1.05 ampere, 1.5 volts.
- 3R3112—To control one 227 type tube 1.75 ampere, 2.5 volts.
- 3R3114—To control one 227 type tube .13 ampere, 3.5 volts.
- 3R3299—Double Amperite Mounting. Ship. wt., 4 oz. List, 70c. Net..... **41c**

BUFFALO RHEOSTATS



2 to 50 Ohm

45c EA.

Fine looking rheostat of the highest quality. Carefully made of best materials. Large size attractive polished black knob. Only one hole required for secure mounting. Smooth, quiet regulation of current. Potentiometers match rheostats and are of the same high grade design and construction.

3R4604—2 ohms.	3R4605—6 ohms.
3R4607—10 ohms.	3R4607—20 ohms.
3R4608—30 ohms.	3R4609—50 ohms.
List, \$1.00.	Net..... 45c

Potentiometer

3R4614—200 ohms.	3R4628—400 ohms.
List, \$1.25.	Net..... 65c

Frost Air Cooled De Luxe Bakelite Rheostats



Frost De Luxe Air Cooled Bakelite Rheostat. Genuine molded bakelite frame designed to give complete circulation of air around resistance windings and between winding and panel. Can be had either with or without positive, completely insulated battery switch for DC sets.

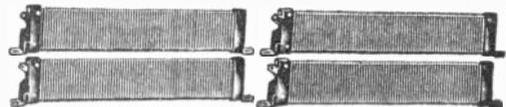
WITHOUT SWITCH		WITH SWITCH	
Cat. No.	Ohms	Cat. No.	Ohms
3R3960	2	3R3969	2
3R3961	3	3R3970	3
3R3962	6	3R3971	6
3R3963	10	3R3972	10
3R3964	15	3R3973	15
3R3965	20	3R3974	20
3R3966	30	3R3975	30
3R3967	50	3R3976	50
3R3968	75	3R3977	75
List, \$1.00.		List, \$1.35.	
Net..... 59c		Net..... 79c	

Potentiometers

No.	Ohms	List	Net
3R3979	200	\$1.25	73c
3R3980	400	1.25	73c
3R3981	600	1.25	73c
3R3982	1000	1.25	73c
3R3983	20AC	1.25	73c

No.	Ohms	List	Net
3R3984	3000	\$1.50	\$0.83
3R3985	3000	2.00	1.18
3R3986	5000	2.25	1.32
3R3987	6000	2.50	1.47

FROST UNIVERSAL RESISTANCE KITS



A very high grade kit for use with B eliminators and power amplifiers. Consists of 3 fixed resistors of 2000 ohms each, wound on flexible bakelite strips 1 inch wide and 5 inches long; four 2000-ohm heavy duty wire wound potentiometers and one 1500-ohm fixed resistor. Makes a comparatively low resistance voltage control kit with more than ample wattage dissipation. Supplies voltage 0 to 50, 50-50, 50-70, and 90 volts and 135-180 volts, both of which are variable by means of sliders provided on fixed resistors. Kit can be used on all present types of power amplifiers in connection with a single 210 or two 210's in push-pull, a single 250 or two 250's in push-pull. Must be used with a type 374 regulator tube, which holds the 90-volt terminal at 90 volts. Total dissipation of 72 watts. Ship. wt., 2 lbs.

3R3117—List, \$9.00. Net..... **\$5.29**

Frost AC Hum Balancer



The "Hum Balancer" was designed to fulfill the need for a unit to smooth out the AC ripple in alternating current receivers. It does eliminate this objectionable hum, one of the biggest objections to AC operated sets.

The 6 ohm unit is designed for use across the filaments of the CX326, UX226 tubes to provide an absolute center point for the grid return of the tubes. The 20 ohm unit is used to provide for an absolute grid center for CX327, UX227 detector tube.

Both units are wound on the regular Gem potentiometer frame, but are made with a short shaft, slotted for screwdriver adjustment. Usually mounted on sub-base with shaft extending above sub-base. After receiver is completed the hum balancer is adjusted so that no hum is present.

3R3116—6 ohm.	3R3116—20 ohm.
List, \$1.00	Net..... 59c

Our Special Metal Frame Rheostat

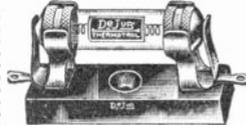
Manufactured for us by one of the best known manufacturers in the field. Made of the best materials and is a real buy at the price we offer it. Made either with or without switch.

- 3R4400—2 $\frac{1}{2}$ ohms.
- 3R4401—4 ohms.
- 3R4402—6 ohms.
- 3R4403—10 ohms.
- 3R4404—25 ohms.
- 3R4405—30 ohms.
- 3R4406—50 ohms.
- 3R4407—75 ohms.

List Price, 75c. Net..... **34c**



With Switch
3R3291—3 ohms.
3R3292—10 ohms.
3R3293—25 ohms.
List Price, \$1.10. Net..... **48c**



DEJUR Thermotrol Automatic Rheostats

Thermotrols are automatic rheostats. They may be connected in any filament circuit to control the current supply to the filament of the tubes.

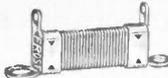
List Price Without Mounting 60c Net 35c

No.	Amp.	Bat.	Tubes
3R2667	.25	6 V.	1—201A
3R2668	.5	6 V.	1—UX 171
3R2669	.08	4 V.	1—UX 199
3R2670	.125	4 V.	1—UX 120
3R2671	.25	1 $\frac{1}{2}$ V.	1—WD 12
3R2672	1.	6 V.	4—UX 201A
3R2673	.75	6 V.	3—UX 201A
3R2674	1.25	6 V.	5—UX 201A
3R2675	1.5	6 V.	6—UX 201A
3R2676	.125	6 V.	1—UX 201B
3R2677	.132	3.3 V.	1—UX 227
3R2678	1.75	2 $\frac{1}{2}$ AC	1—UX 227
3R2679	1.05	1 $\frac{1}{2}$ AC	1—UX 226
3R2681	1.25	7 $\frac{1}{2}$ V.	1—UX 210

3R2680—Mounting to hold any style Thermotrol. List, 25c. Net, Each..... **15c**

Resistances and Balancing Devices

FROST Fixed Resistances



List, 15c. Net,			
Each			
3R2958—4 ohm	3R2967—5 ohm		
3R2959—.5 ohm	3R2968—.6 ohm		
3R2960—.6 ohm	3R2969—.8 ohm		
3R2961—.7 ohm	3R2970—10 ohm		
3R2962—.8 ohm	3R2971—20 ohm		
3R2963—1.0 ohm	3R2972—25 ohm		
3R2964—1.3 ohm	3R2973—30 ohm		
3R2965—2 ohm	3R2974—40 ohm		
3R2966—4 ohm	3R2975—50 ohm		

For high resistances as listed below.

List, 25c. Net,			
Each			
3R2979—100 ohm	3R2982—600 ohm		
3R2980—200 ohm	3R2983—1000 ohm		
3R2981—400 ohm			

Center Tapped

3R2987—6 ohm	3R2989—20 ohm
3R2988—10 ohm	3R2984—34 ohm

List Price, 50c. Net **29c**

Frost Variable High Resistance



The Perfect Oscillation and Volume Control

Unexcelled for smoothness of operation, both mechanically and electrically. Longest wearing, most constant and accurate resistance on the market. Not affected by temperature changes. Roller contact eliminates friction, producing a smooth adjustment. Units entirely non-inductive. Case of highly polished genuine bakelite.

Without Switch

Our No.	Resistance Ohms	List	Net
3R3841	2,000	\$2.25	\$1.32
3R3842	5,000	2.25	1.32
3R3843	10,000	2.25	1.32
3R3844	25,000	2.00	1.18
3R3845	50,000	2.00	1.18
3R3846	100,000	2.00	1.18
3R3847	200,000	2.00	1.18
3R3848	500,000	2.00	1.18

With DC Switch

Our No.	Ohms	List	Net
3R3860	50,000	\$2.35	\$1.38
3R3861	200,000	2.35	1.38
3R3862	500,000	2.35	1.38

With AC Snap Switch

Our No.	Ohms	List	Net
3R3855	5,000	\$3.00	\$1.77
3R3856	10,000	3.00	1.77
3R3857	25,000	2.75	1.62
3R3858	200,000	2.75	1.62
3R3859	500,000	2.75	1.62

Frost Gem Variable High Resistance Volume Controls



Made of same quality as other Frost products, but smaller in size. One hole mounting, size 1% by 1%. Same velvet smooth operation as the larger Frost variable. Made in three terminal type, and can be connected as a high resistance potentiometer or as a straight variable resistance.

FOR DC SETS

3R3863—25,000 ohm	List \$2.25
3R3864—50,000 ohm	\$1.32 NET
3R3865—100,000 ohm	
3R3866—200,000 ohm	
3R3867—500,000 ohm	List \$2.50

FOR AC SETS

3R3868—2,000 ohm	\$1.47 NET
3R3869—5,000 ohm	
3R3870—10,000 ohm	

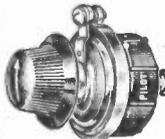
STANDARD CLAROSTAT



A variable high resistance that provides a positive, gradual, durable, reliable and fool proof adjustment over a range of from practically zero to five megohms or five million ohms. Will carry a capacity of 20 watts and is absolutely noiseless. It is being used in most factory built "B" Battery eliminators for regulating the plate voltage. Requires one 7/16-inch hole for mounting.

3R4442—List, \$2.25. Net..... **\$1.32**

\$1.32 NET



Pilot Resistograd

A non-inductive, non-microphonic, noiseless variable resistor with many distinct radio uses. Allows perfect graduation, having range from practically zero to 30,000,000 ohms (30 megohms). Used as a variable grid leak, as an oscillation control in T. R. F. circuits, as volume control, as regulator of voltage output in "B" eliminators, etc. One 3/8-inch hole mount.

List \$1.00

59c NET 3R4445—List, \$1.00. Net..... **59c**

CLAROSTAT Volume Control



A compact variable resistance incorporating the same design as the larger Clarostats. Permanently sealed, fool proof. One hole mounting with crimped face to prevent turning of body. Can be mounted on base board by means of a bracket. Nickel plated bakelite knob. Resistance range 10-500,000 ohms, 8 watts carrying capacity. Shipping weight, 4 ounces.

3R4427
List \$1.50
88c NET

Power Clarostat



Same principle as in the Standard Clarostat, except that it has double the carrying power, or 10 watts. Used for all power applications. High capacity permits use in many circuits. Wide resistance range.

List, \$3.50.
Net
\$2.06

3R4465—Filament Control 1/4-10 ohms.
3R4466—Low ranges 25-500 ohms.
3R4467—Universal range 200, 100,000 ohms.

Duplex Clarostat



A unique variable resistance comprising two units, each with set screw adjustment instead of knob. Provides two separate and independently adjustable voltage taps in addition to maximum tap. May be employed as potentiometer with variable total resistance mid tap. Panel or base board mounting 100, -5,000,000 ohm.

3R4428
List \$2.25
\$1.32 NET

Centralab Standard Radiohm

A smooth operating, non-inductive variable resistance, long lived and noiseless in adjustment. No sliding contacts to wear or become noisy. Base and knob of bakelite. Single hole mounting.

3R3871—0-2000 ohms
3R3872—0-50,000 ohms
3R3873—0-100,000 ohms
3R3875—0-200,000 ohms
3R3878—0-500,000 ohms

List Price, \$2.00. Net..... **\$1.18**
For volume control AC tube circuits.
3R3874—0-100,000 ohms 3R3879—0-25,000 ohms
List Price, \$2.00. Net..... **\$1.18**

Centralab Potentiometer

The original non-inductive potentiometer with a graphite strip resistance. Contact made by pressure shoe and tilting discs.

3R3883—200 ohms
3R3884—400 ohms
3R3885—2,000 ohms
List Price, \$2.00. Net..... **\$1.18**

Centralab Modulators

These have a special taper of resistance to provide smooth, noiseless volume control. Used in circuit of audio amplifier. Single hole mounting.

3R3889—250,000 ohms List.
3R3890—500,000 ohms \$2.00. Net..... **\$1.18 NET**

Electrad Truvolt



is wire wound of nichrome wire exposed directly to the air for more radiation of heat. Permits potentiometer control and gives a metallic contact at all times with 30 exact readings of resistance. Shipping weight, 8 ounces.

Our No.	Current Ohms (MA)	List	Net
3R3008	500	2.24	1.30
3R3009	1000	1.58	1.00
3R3010	2000	1.12	0.72
3R3011	5000	1.12	0.72
List, each, \$3.50.			
Net			\$2.06



Phasatrol

A true balancing device for radio frequency amplifiers. Connects between tube plate and plate circuit of radio frequency coil or transformer. Very simple in installation and adjustment. Absolutely eliminates any tendency to r. f. oscillation or distortion. Adaptable to home made or factory built sets. Simplifies tuning and enables tubes to work at maximum efficiency. Constant over entire range.

3R4440—List, \$2.75. Net, each. **\$1.62**

"Electrad" Variable High Resistance

Ideal for volume control. Wire wound on genuine bakelite base. Resistance remains constant at every point, permitting full range in one turn. Non-inductive, non-hydroscopic. No parts to break or wear. Practically indestructible. Unusually high current-carrying capacity.

List Price, \$1.50. Net..... **88c**

3R3232—Type A Variable grid leak—1-10 of 2 megohms.	
3R3233—Type B—0 to 100,000 ohms.	
3R3234—Type C—0 to 50,000 ohms.	
3R3235—Type D—0 to 700,000 ohms (detector control for B eliminator).	
3R3282—Type F—0 to 2,000 ohms.	
3R3283—Type K—0 to 5,000 ohms.	
3R3284—Type G—0 to 10,000 ohms.	
3R3285—Type H—0 to 25,000 ohms.	
3R3286—Type L—0 to 200,000 ohms.	
3R3287—Type L—0 to 500,000 ohms.	

3R3236—Type E—Compensator, 500,000 ohms potentiometer for perfect tone and volume control. List Price, \$2.00. Net Price..... **\$1.18**

3R3288—Tonatrol—Standard Volume Control. List Price, \$1.50. Net..... **88c**

3R3289—Tonatrol—Type W. S. List, \$2.00. Net..... **\$1.18**

All Prices Quoted Are Net—There Are No Further Discounts

Carter Rheostats—Potentiometers—Resistances



TAPER VOLUME CONTROL

Developed to place between aerial and ground in new AC circuits. Resistance strip is tapered; wire wound on Bakelite frames.

Carter T. R. Series Taper Volume Control

No.	Ohms	List	Net	No.	Ohms	List	Net
3R4772	400	\$1.25	\$0.73	3R4776	5000	\$1.75	\$1.03
3R4773	750	1.25	.73	3R4777	6000	1.75	1.03
3R4774	1000	1.50	.88	3R4778	10000	2.25	1.32
3R4775	3000	1.50	.88				

No.	Ohms	List	Net	No.	Ohms	List	Net
3R4779	400	\$1.50	\$0.88	3R4783	5000	\$2.00	\$1.18
3R4780	750	1.50	.88	3R4784	6000	2.00	1.18
3R4781	1000	1.50	.88	3R4785	10000	2.50	1.47
3R4782	3000	1.75	1.03				

"IMP" TYPES

The Imp all-metal frame Rheostats and potentiometers are 1 1/2 in. in diameter. Single hole mounting. Composition control Knob.

TYPE IR RHEOSTATS

No.	Ohms	List	Net	No.	Ohms	List	Net
3R4533	1	3R4516	6				
3R4534	2	3R4517	10				
3R4515	3	3R4518	20				
List \$1.00. Net.....				59c			

Same as above with switch type IRS

No.	Ohms	List	Net
3R4522	1	3R4535	6
3R4523	2	3R4536	10
3R4524	3		
List Price \$1.50. Net.....			
IMP Potentiometers Type IR.....			
3R4520—200 ohms. List \$1.25. Net.....			
3R4521—400 ohms. List \$1.25. Net.....			



HI-OHM TYPE Volume Control

Mounts in single 3/4 inch hole and 1/4 inch panel.

No.	Carter No.	Ohms
3R4574	5	500,000
3R4575	3	300,000
3R4576	2	200,000
3R4577	1	100,000
3R4578	L	50,000
3R4579	X	10,000

List Price \$2.00. Net..... \$1.18



HI-WATT TYPE RHEOSTATS

No.	Ohms	List	Net	No.	Ohms	List	Net
3R4786	1/2	\$1.60	\$0.88	3R4796	200	\$1.50	\$0.88
3R4787	1	1.50	.88	3R4797	300	1.50	.88
3R4788	2	1.50	.88	3R4798	400	1.50	.88
3R4789	6	1.50	.88	3R4799	800	1.75	1.03
3R4790	10	1.50	.88	3R4792	1,000	1.75	1.03
3R4791	20	1.50	.88	3R4793	2,000	1.75	1.03
3R4794	40	1.50	.88	3R4799	3,000	2.00	1.18
3R4795	60	1.50	.88	3R4705	5,000	2.00	1.18
3R4796	100	1.50	.88	3R4707	10,000	2.25	1.33

VOLUME CONTROL WITH SWITCH

No.	Carter No.	Ohms
3R4577	58	500,000
3R4578	38	300,000
3R4579	28	200,000
3R4580	18	100,000
3R4581	LS	50,000
3R4582	XS	10,000

List Price \$2.50. Net..... \$1.47

CARTER HI-POT.

Small and compact. Projects back of panel only 1/4 inch. Mounts in single 3/4 inch hole on 1/2 and 3/4 inch panels.

No.	Carter No.	Resistance	Ohms
3R4583	55	500,000	
3R4584	33	300,000	
3R4585	23	200,000	
3R4586	11	100,000	
3R4587	LL	50,000	
3R4588	XX	10,000	

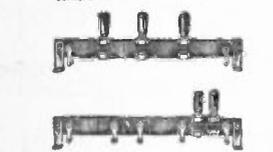
List Price \$2.25. Net..... \$1.32

HI-POT. WITH SWITCH

No.	Carter No.	Ohms
3R4586	55-S	500,000
3R4587	33-S	300,000
3R4588	22-S	200,000
3R4589	11-S	100,000
3R4590	LL-S	50,000
3R4591	XX-S	10,000

List Price \$2.75. Net..... \$1.62

VOLTAGE CONTROL KIT FOR "B" ELIMINATORS



Consists of two wire resistors each equipped with sliders. Permit accurate adjustment of B and C battery voltages. Made in four sizes to accommodate all voltage equipment. Shp. wt. 1 lb.

3R4692—250 volt control kit consists of one unit total 7400 ohms, and one unit total 2900 ohms, tapped 1000-900-100.

List Price \$4.00. Net..... \$2.35

For voltages over 250, following multiples must be used in addition to above:

3R4693—300 volts. List \$1.20. Net..... **72c**

3R4694—400 volts. List \$1.10. Net..... **66c**

3R4695—500 volts. List \$1.20. Net..... **72c**

Widely used for "A" eliminator control in primary control of B eliminator as well as in receivers. Is of heavy construction and will continuously dissipate 20 watts. Carter H. W. Series.

CARTER HEAVY DUTY RESISTORS



Type J5-15. Same design as above except tapped at 5 ohms and total of 15 ohms. For use with 322 shielded grid tube when rheostat is employed.

No.	List Price	Net
3R2481	\$1.25	14c
3R2482	25c	14c

Type J10-25. Same design as above except tapped 10 ohms and total of 25 ohms. For use with 322 shielded grid tube when rheostat is not employed.

No.	List Price	Net
3R2482	\$1.25	14c
3R2483	25c	14c

SUPER HEAVY DUTY

Carter SW series	50 watt type	Ohms	List	Net
3R4708	1	3R4712	40	
3R4709	2	3R4713	50	
3R4711	30	List \$1.75.	Net.....	\$1.03

POTENTIOMETERS

Carter PW series	No.	Ohms	List	Net
3R4714	500	\$1.75	\$1.03	
3R4719	1,000	2.00	1.18	
3R4735	2,000	2.00	1.18	
3R4742	3,000	2.25	1.33	
3R4743	5,000	2.25	1.33	

Carter PW series	No.	Ohms	List	Net
3R4744	7,500	\$2.25	\$1.31	
3R4745	10,000	2.50	1.47	
3R4746	20,000	2.75	1.62	
3R4747	50,000	3.25	1.91	

TYPE H FILAMENT RESISTORS

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2456	H-1/2	.5	3R2465	H-6	6				
3R2457	H-1/4	.57	3R2466	H-8	10				
3R2458	H-3/8	.67	3R2467	H-12	12				
3R2459	H-1/2	.8	3R2468	H-15	15				
3R2460	H-1	1.3	3R2469	H-18	18				
3R2461	H-1 1/2	1.53	3R2470	H-20	20				
3R2462	H-1 3/4	1.53	3R2471	H-25	25				
3R2463	H-2	2.	3R2472	H-30	30				
3R2464	H-4	4.	3R2473	H-36	36				
			3R2474	H-36	36				

List Price 25c. Net..... 14c

TYPE HI GRID RESISTORS

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2475	H-200	200	3R2478	H-500	500				
3R2476	H-300	300	3R2479	H-750	750				
3R2477	H-400	400	3R2480	H-1M	1000				

List Price 30c each. Net each..... 17c

CENTER TAPPED RESISTORS

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2483	JU-6	6	3R2486	JU-20	20				
3R2484	JU-10	10	3R2487	H-40	40				
3R2485	JU-15	15	3R2488	JU-60	60				

List Price each 25c. Net Price each..... 14c

UPRIGHT RESISTORS TYPE E

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2489	1/2	5	3R2494	1 1/2	1.33				
3R2490	1/4	.57	3R2495	1 1/2	1.5				
3R2491	3/8	.67	3R2496	2.	2.				
3R2492	1/2	.8	3R2497	4.	4.				
3R2493	1.	1.							

List Price 25c each. Net..... 14c

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2498	E-6	6	3R2642	E-18	18				
3R2499	E-8	8	3R2643	E-20	20				
3R2639	E-10	10	3R2644	E-25	25				
3R2640	E-12	12	3R2645	E-30	30				
3R2641	E-15	15	3R2646	E-36	36				

List each 25c. Net each..... 14c

UPRIGHT RESISTORS GRID TYPE E

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2647	E-200	200	3R2656	E500	500				
3R2648	E-300	300	3R2657	E750	750				
3R2649	E-400	400	3R2658	E1M	1000				

List Price 30c. Net each..... 17c



UPRIGHT CENTER TAPPED

Carter	No.	Ohms	List	Net	Carter	No.	Ohms	List	Net
3R2659	CE 6	6	3R2662	CE20	20				
3R2660	CE10	10	3R2663	CE40	40				
3R2661	CE15	15	3R2664	CE60	60				
3R2665	CE200	200	Ohms						
3R2666	CE400	400	Ohms						

List Price each, 50c Net ea..... 29c

Carter Products are favorites with radio men because they are right. Each instrument is thoroughly factory-tested, and is guaranteed to perform perfectly under proper working conditions. Accurate to a high degree, and made to precision in every detail. The name CARTER alone is sufficient assurance of superior quality.

CARTER MIDGET MODEL

The famous Carter Midget Rheostats and Potentiometers are built of the same high grade materials and workmanship as are the larger models. They are 1 1/2 inches in diameter. Mount in 3/4-in. hole on 1/2 or 3/4 inch panel. Made either with or without switch.



Complete with Knob, List 50c. Net..... 29c

Midget Model, with Switch, Carter M. S.

No.	Ohms	List	Net
3R4757	1	3R4572	6
3R4758	2	3R4573	10
3R4759	3	3R4759	20

Complete with Knob, List \$1.00. Net..... 59c

HEAVY DUTY MIDGET RHEOSTAT

No.	Resistance	Ohms	List	Net
3R4561	1/2	3R4653	3	
3R4562	3/4	3R4564	6	
3R4563	1	3R4565	10	
3R4564	1 1/2	3R4566	20	
3R4565	2			

Complete with Knob, List 75c. Net..... 44c

POTENTIOMETERS

No.	Resistance	Ohms	List	Net
3R4561	1/2	3R4653	3	
3R4562	3/4	3R4564	6	
3R4563	1	3R4565	10	
3R4564	1 1/2	3R4566	20	
3R4565	2			

Complete with Knob, List 75c. Net..... 44c

MIDGET POTENTIOMETERS

No.	Ohms	List	Net
3R4522	600	\$1.00	59c
3R4523	1000	1.25	73c
3R4529	2000	1.25	73c
3R4530	3000	1.25	73c
3R4531	6000	1.25	73c
3R4532	7500	1.50	94c

POTENTIOMETER WITH SWITCH

No.	Carter No.	Resistance	Ohms
3R4760	MP-6-S	6	6
3R4761	MP-10-S	10	10
3R4762	MP-20-S	20	20
3R4763	M-200-S	200	

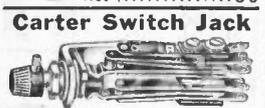


"Imp" Cord Tip

Jack and Plug
Replaces binding post for phone cord. Nickel plated. Phosphor bronze springs. Mounts in 3/8-inch hole. Cut full size.
3R2423—Imp Jack. List, 30c. Net,18c

3R2424—Carter Imp Plug. List, 15c. Net,9c

Cord Tip Jacks
Used in place of Plug Jacks when rapid changes from phone to speaker are desired.
3R2426—List, 10c. Net,6c



Carter Switch Jack
These Jack switches are finished in both horizontal and vertical types. Extremely flexible. Horizontal switch is commonly used to switch from "Radio" to "Phonograph." Makes three in left position and two in right. Center is off.
3R1570—H Type Jack Switch. List, \$1.50. Net,88c
Vertical switch makes one and breaks one contact in both left and right position, center is "off."
3R1573—V Type Jack Switch. List, \$1.25. Net,73c

Carter Short Jacks

Smallest made. Solder lugs widely spaced. Heavy bakelite insulators eliminate a leakage. Mount in 3/8 inch hole on 3/4 to 3/8 in. panels. Take any standard plug.
3R2442—No. 1—Open Circuit. List, 25c. Net,15c
3R2443—No. 2A—Single, Closed Circuit. List, 30c. Net,18c



CARTER PRODUCTS "Imp" Short Jack Switches

"Imp" Power Switch for 110-volt Circuit

Compact, rugged construction, self-contained, metal shell and other parts insulated. Quarter turn snap-switch construction. Double contact. For use in regular 6 volt filament or 110 volt circuit.
3R1574—Single throw. List price, 75c. Net,44c
3R1575—Double Throw. List, 75c. Net,44c

AUTOMATIC TYPE
For switching charge off. "B" supply on and closing filament circuit. Replaces relays; controls any type of "A" or "B" supply.
3R1576—"Imp" Automatic. List, \$1.50. Net,88c



Hold Tite
Plug always fits Jack properly regardless of panel thickness. Phosphor bronze springs. Pure silver contacts. Micaite insulation. Tinned terminals. Shpg. wt., 6 oz.
3R2413—No. 101 Open Circuit. List price, 50c. Net,29c
3R2414—No. 102A Closed Circuit. List price, 60c. Net,36c
3R2415—No. 104 Double Circuit. List price, 80c. Net,48c
3R2416—No. 103 Single Circuit Filament Control. List price, 70c. Net,42c
3R2417—No. 105 Double Circuit Filament Control. List price, 90c. Net,53c
3R2418—102 Closed Circuit. List, 55c. Net,32c
3R2425—103A 3-Spring, makes one and breaks one. List, 75c. Net,44c
3R2431—104A 4-Spring, makes one and breaks one. List, 80c. Net,47c
3R2437—106 6-Springs, breaks 3 contacts. List, 95c. Net,56c
3R2438—107 Double Circuit, Double Ant. Fil. Control. List, \$1.05. Net,62c



The smallest made, 1 1/2 in. long and projects back of panel only 3/8 in. Mounts in 3/8 in. hole. Positive snap action.
3R4543—Carter No. 2A Battery Switch. Single throw. List, 50c. Net,29c

3R4541—Carter 22. Single throw, double contact, 3 springs. List, 60c. Net,35c

3R4546—Carter 44A. Three position, four springs. Either set open or closed and neutral position. List, 70c. Net,41c

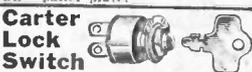
3R4544—Carter 44. Two positions, four springs. Closes two contacts. List, 70c. Net,41c

3R4538—Carter 60. Two positions, six springs, opens two and closes two contacts. List, 90c. Net,53c

3R4549—Carter 32A. Three positions, five springs. All open in center position, one contact closed in left position and two in right position. List, 80c. Net,47c

Carter Battery Panel Switch

3R2512—List, 65c. Net, 38c
One hole mounting. Slight bit of attractive button makes a quick snap break contact. "On-Off" panel plate.



Carter Lock Switch
Same as Carter panel switch, but with removable key in place of knob. Shpg. wt., 4 oz.
3R2513—Carter Lock Switch. List, 75c. Net,44c



Carter "Imp" Inductance Switches

A small reliable inductance switch for the new circuits. Contacts so spaced that in passing from one to the next they do not short circuit. Mounts in 3/8 in. hole on 3/8 or 3/4 in. panels. Shpg. wt., 6 oz.

3R4679—4 Point. List, \$1.00. Net,59c
3R4680—5 Point. List, \$1.05. Net,62c
3R4681—7 Point. List, \$1.15. Net,68c
3R4682—9 Point. List, \$1.25. Net,73c

Aerial Switch

A self contained switch, giving single pole double throw action. Equipped with L & S (long and short) name plate. Also has regular rheostat knob instead of switch knob.
3R4696 List, 70c. Net,41c

Jack Switches

Complete with knob, pointer and "On" and "Off" name plate. Shpg. wt., 8 oz.
3R2444—No. 2—Single pole, single throw. List, 75c. Net,44c
3R2445—No. 3—Single pole, double throw. List, 90c. Net,53c
3R2446—No. 4—Double pole, single throw. List, \$1.00. Net,59c
3R2447—No. 6—Double pole, double throw. List, \$1.25. Net,73c



JONES MULTI-PLUG

Instantly connects or disconnects all wires of a set. Can't be plugged in wrong. Variety of sockets for all purposes.

Multi-Plug complete for subpanel mounting. Type P. M., Four foot cables.
3R1545 7 \$2.25 \$1.33 3R1546 10 \$3.00 \$1.76

Complete with base bracket. Type B.M., Four foot cables. Eight foot cables.
3R1566 7 \$2.50 \$1.47 3R1565 7 \$2.75 \$1.69
3R1561 10 1.25 9.11 3R1563 10 4.50 2.65
3R1562 12 4.25 2.50 3R1571 12 6.00 3.53

Complete with binding post socket. Type B.P. Socket has 18 in. leads. Four foot cables.
3R1556 7 \$2.75 \$1.62 3R1568 12 \$4.60 \$2.65

Double Multi-Plug, 6 ft. Extension Multi-Plug ft. cable with plugs on each end.
3R1679 7 \$3.00 \$1.77 3R1682 7 \$3.00 \$1.77
3R1680 10 4.75 2.80 3R1683 10 4.75 2.80
3R1681 12 6.00 3.53 3R1684 12 6.00 3.53

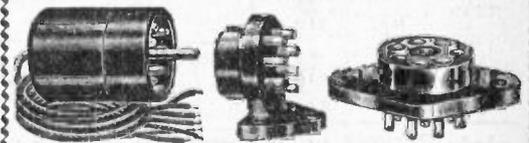
Regular Extension

Type Mtng.	P.M. Panel.	No. Con-tacts	List	Net	Type M.P. for Metal Panel.	No. Con-tacts	List	Net	Type W.B.—Wall box.	No. Con-tacts	List	Net
3R1687		50	30c		3R1692	7	.76	44c	3R1697	10	1.00	59c
3R1688		10	.75	45c	3R1693	10	1.00	59c	3R1698	12	1.25	73c
3R1689		12	1.00	59c	3R1694	12	1.25	73c				

Type Mtng.	B.M. Base Mount.	No. Con-tacts	List	Net	Type B.P. 18 in. leads.	No. Con-tacts	List	Net	Plug only.	No. Con-tacts	List	Net
3R1867		7	\$0.75	44c	3R1870	7	1.00	59c	3R1873	7	.75	44c
3R1868		10	1.00	59c	3R1871	10	1.25	73c	3R1874	10	1.00	59c
3R1883		12	1.25	73c	3R1884	12	1.50	88c	3R1899	12	1.25	73c

Plug only with four-foot cable.
3R1876 7 1.75 1.04
3R1877 10 2.25 1.33
3R1878 12 3.00 1.77

Plug only with eight foot cable.
3R1880 7 2.00 1.18
3R1881 10 3.50 2.06
3R1882 12 4.50 2.65



FROST CABLE PLUG

Genuine moulded bakelite; terminals of panel and baseboard sockets spun-in after bakelite piece is taken from mould. Large size, well spaced terminals cannot work loose even when overheated by soldering iron. Strongly constructed. Color code of wires moulded into bakelite. Cable is best grade rubber covered wires covered with black cotton braid. Spring contacts have permanent tension. A heavy moulded rubber spacer ring in rear of plug spaces terminals, holds them firmly and relieves tension on cable. Shpg. wt., 2 lbs.

3R4597—Frost Radio Cable Plug, consisting of moulded bakelite plug connector and seven wire five-foot cable with black, red, yellow, blue, brown, and slate wire. List, \$2.25. Net,\$1.33

3R4598—Frost Radio baseboard type mounting socket for cable plug. List, 75c. Net,44c

3R4599—Cable Plug Socket for mounting so wiring is concealed beneath the sub-base. List, 75c. Net,44c

DAVEN ANTI-MOTORBOATER

Makes it possible to use a "B" eliminator with any set equipped with resistance coupled audio amplification. Increases power handling capacity. Easily and quickly installed by relieving grid leak in second audio stage—no external connection of any kind.
3R2978 List \$4.00
3R2978 List, \$4.00. Net \$2.35
3R2978 List, \$4.00. Net \$2.35

TOBE FIXED

CONDENSERS

New Model By-Pass



Case is more compact, easier to mount, made of metal which can be grounded. Dimensions: 2½ x ¾ x ¾ inches. Ship. wt., 6 oz.

- 3R253—.5 Mfd. List, **53c**
 3R254—1.0 Mfd. List, **73c**
 3R255—1.0 Mfd. Net, **73c**

Filter Condenser



For use in filter circuits on plate supply lines and in Raytheon eliminators and in power amplifiers where DC working voltages run up to 300 volts. Specially suited for Raytheon B Tubes.

No.	Mfd.	List	Net
3R257	0.1	\$0.70	\$0.41
3R258	0.25	.75	.44
3R259	0.5	.90	.53
3R260	1.0	1.25	.73
3R261	2.0	1.75	1.03
3R262	4.0	3.50	2.08
3R263	2x1.0	1.50	.88

Hi Voltage Power Pack Cond.



High Voltage Condensers for transmitting and Power Packs. Ratings given below are for continuous DC use.

3R294—1 mfd.	600 volt.		
List.	\$5.50.	Net.	\$3.23
3R295—2 mfd.	600 volt.		
List.	\$10.00.	Net.	\$5.88
3R296—4 mfd.	600 volt.		
List.	\$17.50.	Net.	\$10.29
3R230—1 mfd.	1100 volt.		
List.	\$7.50.	Net.	\$4.41
3R231—2 mfd.	1100 volt.		
List.	\$10.50.	Net.	\$6.17
3R232—5 mfd.	1100 volt.		
List.	\$21.50.	Net.	\$12.64
3R233—1 mfd.	2200 volt.		
List.	\$10.00.	Net.	\$5.88
3R234—2 mfd.	2200 volt.		
List.	\$18.00.	Net.	\$10.53
3R235—5 mfd.	2200 volt.		
List.	\$32.00.	Net.	\$18.82

Parvolt Filter Condensers



Voltage specified is DC working voltage. Screw binding post and solder lugs.

No.	Mfd. V.	List	Net
3R282	1 600	\$3.00	\$1.76
3R283	2 600	5.50	3.23
3R284	4 600	8.00	4.70
3R285	1.0 1000	5.00	2.90
3R286	2.0 1000	12.00	6.17
3R287	4.0 1000	19.00	7.06

Parvolt By-Pass Condensers



For operation on direct current circuits with max. working voltage of 500, and alternating currents not exceeding 235 volts.

No.	Cap.	List	Net
3R288	0.1	\$0.85	\$0.50
3R289	0.25	.95	.56
3R290	0.5	1.00	.59
3R291	1.0	1.25	.73
3R292	2.0	2.25	1.36
3R293	4.0	4.00	2.37

Dubilier Condenser Type 907



Designed to serve as a "B. Pass." Small size requires only small space for mounting.

A Blocks



A new type condenser for filtering 6-volt filament supply direct from 2 amp. charger to set. Eliminates A Battery. Has total of 3600 Mfd. in space of 5x3½x1½. No attention or refilling needed after it is once installed. Working voltage 3-10 volts DC. Shipping wt., 4 lbs.

3R264
List, \$6.00

\$3.53
Net

"A" Filter

In this filter the necessary chokes and Tube A Block of 7,600 Mfd. are combined in a single case and by using any type of 2 amp. charger a constant root is obtained for all battery type tubes. Eliminates A Battery. Straight AC current is rectified, filtered and delivered to your set without changing wiring of set or DC. Shipping wt., 8 lbs.

3R265
List, \$18.00

\$10.58
Net

Tobe Interference Filter



Motors in the home such as are used on washing machines, oil burners, ice machines, sewing machines, etc., cause unpleasant interference with radio reception. This device makes possible the elimination of all such interference. Easily installed and a sure remedy. Simple instructions supplied. Ship. wt., 4½ lbs.

3R266—Tobe Filter No. 1 for motors up to ½ H. P. List, \$10.00.

3R267—Tobe Filter No. 2 for motors up to 5 H. P. List, \$15.00.

\$5.88
\$8.82
Net

Tobe B Blocks



3R268 Model 760 for use with Raytheon and similar tubes where plate supply currents do not exceed 300 volts DC. Contains 1 mfd., two 2

Mfd. and two 1.0 Mfd. Ship. wt., ¾ lbs. List, \$13.00.

Net **\$7.64**

3R269—Model 760 G for use with Raytheon Eliminator circuit with new glow tube. Capac. terminals 6-2-2-1-1 Mfd. List, \$10.50. Net **\$6.17**

3R270—Type 311 Buffer Condenser unit contains two 0.1 Mfd. filter condensers. List, \$1.50. Net **88c**

3R271—Model 765—400 volt condensers. Two 2's and one 6 Tube. For use with Raytheon B. H. Mfd. List, \$13.00. Net **\$7.64**

Sangamo Mica Condensers



Mica Condenser molded in smooth brown bakelite. Small size.

No.	Cap.	List	Net
3R558	.0004	40c	26c
3R559	.0001	40c	26c
3R560	.0025	40c	26c
3R562	.0005	40c	26c
3R563	.001	50c	32c
3R564	.002	50c	33c
3R565	.005	70c	45c
3R566	.008	85c	51c
3R567	.0075	95c	56c
3R446	Grid leak or resistor clips. Pair		7c

Soldering lugs allow convenient wiring. Convenient mounting brackets. Ship. wt., 7 oz.

No.	Mfd.	List	Net
3R502	0.1	\$0.60	\$0.47
3R503	0.25	.90	.53
3R504	0.5	1.00	.59
3R505	1.0	1.50	.88
3R506	2.0	2.00	1.18

Tiny Tobe Condenser

Small and light; supported by bus wire to which they are attached. For constant operating voltage not over 500 DC. Shipping weight, 2 oz.

No.	Capacity	List	Net
3R451	.0001	35c	19c
3R452	.00025	35c	19c
3R453	.0005	35c	19c
3R454	.001	40c	23c
3R455	.002	40c	23c
3R456	.003	40c	23c
3R457	.004	40c	23c
3R458	.005	45c	26c
3R459	.006	45c	26c
3R460	.01	55c	32c
3R461	.02	60c	35c

Tobe 600 Line

Operate continuously on 1,000 v. DC. Stand high voltages of Amertron, Thordarson and other power packs. Silvered condensers. Ship. wt., 1½ to 2½ lbs.



No.	Cap. Mfd.	List	Net
3R441	0.5	\$2.00	\$1.18
3R442	1.0	2.50	1.47
3R443	2.0	3.50	2.08
3R444	4.0	6.00	3.53

Tobe 400



Designed for continuous operation on 400 volts DC. Suitable for "A," "B," and "C" Eliminators using Raytheon, Q. R. S. 85 mil. or 218 B Tubes. Short Path type. Very compact. Strong lugs for connections. Attractive silver finished case. Ship. wt., 1½ lbs.

No.	Mfd.	List	Net
3R437	1	\$2.00	\$1.18
3R438	2	2.75	1.62
3R439	4	4.50	2.65

Dubilier Molded Micadon



Molded bakelite case, compact size, highly efficient. Accurate moisture proof. Ship. wt., 2 oz.

No.	Cap.	List	Net
3R462	.0001	\$0.45	\$0.27
3R463	.00025	.45	.27
3R464	.0005	.45	.27
3R468	.001	.50	.29
3R473	.002	.50	.30
3R474	.0025	.50	.31
3R479	.006	.85	1.50

Dubilier 640G



With mounting for grid leak. No leak included. 3R424—List, 45c. Net, 27c

No.	Mf.	Volts	List	Net
3R400	1	200	\$2.00	\$1.18
3R401	2	200	2.50	1.47
3R402	4	200	3.50	2.08
3R403	6	200	5.00	2.94
3R404	1	400	2.50	1.47
3R405	2	400	3.50	2.06
3R406	4	400	5.50	3.23
3R407	6	400	7.50	4.41
3R408	1	600	3.00	1.77
3R409	2	600	5.50	3.23
3R410	4	600	9.50	5.58
3R411	6	600	11.50	6.74
3R427	1	1000	4.50	2.65
3R428	2	1000	8.50	5.00

Dubilier Type 901-2-3



While designed particularly for filter circuits they can be used wherever a condenser of capacity and voltage test given is required. The rated capacity is accurate within 5%. Handy soldering lug terminals. Ship. wt., 12 oz. to 3 lbs.

No.	Mfd.	List	Net
3R298	Type R 250 B for use with new 250 tubes in push pull amplification. List, \$26.00.		\$15.29
3R281	Tobe National Special B Block. List, \$17.50.		\$10.29
3R275	R-210-B Block containing 2-2-2-4-1-1 Mfd. as specified with Thordarson 210 Power Compact. List, \$18.00.		\$10.53
3R274	B-Block as specified, for use with Thordarson No. 171 Power compact containing 5-2-2-1-1 Mfd. condensers and taps. List, \$15.00.		\$8.82
3R273	Model 764 contains three 4 and two 1 mfd. 300 volt condenser units for use with one 250 tube. List, \$11.00.		\$6.47

Junior Rheostats

Single hole mounting, large carrying capacity. A size for every set. Meet all specifications.

- 3R2234—2 ohms
- 3R2235—3 ohms
- 3R2236—6 ohms
- 3R2237—10 ohms
- 3R2238—20 ohms
- 3R2239—30 ohms
- 3R2240—80 ohms
- 3R2241—100 ohms

List Price, each, 75c.

Net **44c**



Junior Potentiometers

- 3R2242—200 ohms. **44c**
- List, 75c. Net.....
- 3R2243—400 ohms. **44c**
- List, 75c. Net.....
- 3R2244—1000 ohms. **59c**
- List, \$1.00. Net.....
- 3R2245—2000 ohms. **59c**
- List, \$1.00. Net.....

Rheostat Switch

A special switch for turning off tubes. May be attached without tools or fuses. Positive in action. Slips over a 1/4 in. and is held in place by a locknut.

3R2219—List, 40c. Net **24c**

Yaxley Junior Jacks

For use where space is at a premium. Extends only 1 1/4 in. behind panel.

- long overall. Shpg. wt. 1 1/2 oz.
- 3R2427—No. 701 Open Circuit. List, 40c. Net..... **24c**
- 3R2428—No. 702 Closed Circuit. List, 55c. Net..... **32c**
- 3R2500—No. 703 Single Circuit Filament Control. List, 65c. Net..... **38c**
- 3R2501—No. 704 Interstages. List, 75c. Net..... **44c**
- 3R2502—No. 707 Interstage Filament Lighting. List, \$1.05. Net..... **64c**

Junior Jack Switch

For use in small spaces. Extends 1 1/4 inches behind panel; 1 3/4 inches long over all. Shpg. wt. 10 oz.

- 3R2503—Battery Switch. List Price, 70c. Net..... **41c**
- 3R2504—Two Circuit. List Price, 85c. Net..... **50c**
- 3R2505—Double Circuit. List Price, 95c. Net..... **56c**
- 3R2506—Five Spring. List Price, \$1.10. Net..... **65c**
- 3R2507—Two Way Two Circuit. List Price, \$1.20. Net..... **71c**

Inductance Switch

1 1/2 inches diameter. Perfect contact. Complete with dial plate and knob.

- 3R2572—No. 44—4-Point. List, 75c. Net..... **44c**
- 3R2573—No. 71—7-Point. List, 80c. Net..... **47c**
- 3R2574—No. 90—9-Point. List, 90c. Net..... **53c**

Toggle Switch

Molded Bakelite Toggle Switch with a snappy action. Black and polished nickel front plate. Can break 110 volts at 1 1/2 amperes.

- 3R4580—Each **26c**

YAXLEY

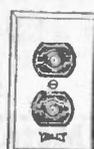
APPROVED PANEL PRODUCTS
CONVENIENCE OUTLETS
FIT STANDARD OUTLET BOXES



3R2260



3R2264



3R2254



3R2258

For Loud Speaker Connection.

3R2260—Brass. List \$1.00. Net..... **59c**

3R2261—Bakelite. List, \$1.25. Net..... **74c**

For several Loud Speaker Connections.

3R2262—Brass. List, \$2.50. Net..... **\$1.47**

3R2263—Bakelite. List, \$2.75. Net..... **1.62**

For Aerial and Ground Connections.

3R2264—Brass. List, \$1.00. Net..... **59c**

3R2265—Bakelite. List, \$1.25. Net..... **74c**

For Loud Speaker and AC Connections.

3R2266—Brass. List, \$2.00. Net..... **\$1.18**

3R2267—Bakelite. List, \$2.00. Net..... **\$1.18**

For Loud Speaker and Battery Connections.

3R2252—Brass. List, \$3.50. Net..... **\$2.06**

3R2253—Bakelite. List, \$3.50. Net..... **\$2.06**

For Two Loud Speaker Connections.

3R2253—List, \$2.00. Net..... **\$1.18**

3R2252—List, \$3.50. Net..... **\$2.06**

3R2251—List, \$3.00. Net..... **\$1.76**

Resistance Units

Small, accurate, provided with combination screw eye and solder lug.

- List, each, 15c. Net..... **10c**
- 3R3223—1 ohm 3R3231—10 ohms
- 3R3224—2 ohms 3R3240—15 ohms
- 3R3225—3 ohms 3R3249—20 ohms
- 3R3226—4 ohms 3R3251—25 ohms
- 3R3228—5 ohms 3R3252—30 ohms
- 3R3229—6 ohms 3R3253—40 ohms
- 3R3230—8 ohms
- List, each, 35c. Net..... **21c**
- 3R3254—50 oh. 3R3256—200 oh.
- 3R3255—100 oh. 3R3257—500 oh.

Grid Resistances

Wire wound resistance for the grid circuit to damp oscillations. Mount directly to socket. Shipping weight, 2 oz.

- 3R3264—200 Ohms 3R3265—400 Ohms
- List, each, 25c. Net..... **15c**
- 3R3266—500 Ohms
- 3R3267—600 Ohms 3R3270—1000 Ohms
- 3R3268—700 Ohms 3R3271—1500 Ohms
- 3R3269—800 Ohms 3R3272—2000 Ohms
- List, each, 35c. Net..... **21c**

Cable Connector

Bring battery wires to set in one neat, compact cable. Easily disconnected for cleaning. Cannot be connected improperly. All have bakelite plug base—no loose pins or springs. Easily soldered. Standard RMA colors. Equipped with tagged cables 5 ft. long.

- 3R2575—No. 070 for 2 pins equipped with binding posts. Pin plug has 15 in. pigtail. List Price, \$3.50. Net..... **\$2.06**
- 3R2576—No. 060 Subpanel mounting type. List, \$3.00. Net..... **\$1.76**
- 3R2593—No. 012 has 12 conductors, 3 twisted of 14 wire for AC. 4 ft. cable. List, \$5.00. Net..... **\$2.94**

SEPARATE PARTS

- 3R2577—No. 640 Pin Plug, 15 in. leads. List, \$1.50. Net..... **88c**
- 3R2578—No. 050 Receptacle Plug and Cable. List, \$2.25. Net..... **\$1.32**
- 3R2579—No. 080 Base Mounting Plates. List, 75c. Net..... **44c**
- 3R2580—5 ft. Cable. List, \$1.00. Net..... **59c**
- 3R2581—8 ft. Cable. List, \$1.45. Net..... **85c**



3R2250 List, per pair, 25c. Net **15c**

Red and Black Cord Tip Jacks

Connect positive and negative terminals of speaker without possibility of error. Caps of Bakelite. Spring contact. No danger of short circuit. For use on metal panels. Shpg. wt., pair, 4 oz.



Miniature Switches

- 3R2521—Single pole, single throw. List, 60c. Net..... **36c**
 - 3R2522—Single pole, double throw. List, 70c. Net..... **42c**
 - 3R2585—Double pole, single throw. List, 90c. Net..... **58c**
 - 3R2524—Double pole, double throw. List, \$1.00. Net..... **60c**
 - 3R2526—Triple pole, double throw. List, \$1.50. Net..... **88c**
 - 3R2527—Four pole, double throw. List, \$2.00. Net..... **\$1.27**
 - 3R2528—Five pole, double throw. List, \$2.50. Net..... **\$1.47**
- Bases and handles of polished hard rubber. Nickel plated metal parts. Single throw types to 2 inches long. Double throw types 2 1/2 inches long.

Midget Battery Switch

Small filament control snap switch. Quick action. One-hole mounting.

- 3R2508—List Price, 50c. Net..... **29c**
- 3R2509—No. 11 Aerial Switch—same as No. 10, except is single pole, double throw. List, each, 65c. Net..... **38c**

Heavy-Duty Switch

Controlled by pull and push button. Working parts enclosed in dust-proof insulated case. Shpg. wt., 4 oz.

- 3R2511—List Price, 60c. Net..... **38c**

B.M.S. Fantail Jacks

Have solid brass frames heavily nickel plated. Tempered springs with pure silver contacts. Bakelite insulation. Connecting lugs are spread fantail, making soldering easy.

- 3R2404—Open circuit. Each **15c**
- 3R2405—Closed circuit. **20c**
- 3R2406—Double circuit. **22c**
- 3R2407—Single circuit filament control **30c**
- 3R2408—Double circuit filament control **32c**

Pup Jack and Plug

Very small, easy to mount. phone tip jack. Mounts in 1/4 in. hole. Nickel finish. Plug designed to use as phone tip without soldering. Shpg. wt., 3 oz.

- 3R445—No. 416 Pup Jack. List, per pair, 25c. Net..... **15c**
- 3R4452—No. 415 Pup Plug. List, each, 10c. Net..... **6c**

Cutler-Hammer

A flip of the finger puts it ON or OFF. A simple, quiet, cranking switch mechanism. Neatly etched plate for panel provides definite indication. One-hole mounting.

- 3R2510—C-H Toggle Switch. List, 60c. Net..... **35c**

Special Miniature Switches

- 3R2518—Single pole, single throw. List, 20c. Net..... **12c**
 - 3R2519—Single pole, double throw. List, 30c. Net..... **18c**
 - 3R2520—Double pole, double throw. List, 50c. Net..... **29c**
- Compact, substantial, neat appearing. For base or panel mounting. Bakelite bases 1 1/4 inches long. Highly nickel plated blades and posts.

X-L Vario-Denser —Model G



Has variable capacity range. Easily gets value of grid capacity best suited for a particular tube or circuit. With grid leak clips. Ship. wt., 4 oz.
3R3102—.0002 to .0001 M. F.
3R3103—.0001 to .0005 M. F.
3R3104—.0003 to .001 M. F.
 List Price, \$1.50. **88c**
 Net.....

Neutralizes grid and plate capacity in tuned radio frequency sets. Micrometer adjustment.
3R3105—Model N.
 List, \$1.00. Net..... **59c**

Micamold Condenser

Made of genuine Bakelite and molded under a very high pressure. Will not warp, short, or vary in capacity.

No.	Cap.	List	Net
3R1482	.0001	35c	17c
3R1483	.00025	35c	18c
3R1484	.0005	35c	18c
3R1485	.001	40c	21c
3R1486	.002	40c	21c
3R1487	.0025	50c	24c
3R1488	.005	60c	32c
3R1489	.009	70c	33c



Micamold Grid Condensers
3R1490—.00025 45c **20c**
3R1491—.0005 45c **20c**

Grid Leak Mountings

3R3123 Single mounting, Ea. 13c
3R3124 Double mounting, Ea. 23c



Variable Grid Leak

3R3110—List, 75c. Net... **32c**
 A micrometer adjustable grid leak with a range from 0 to 50 megohms. Once set the instrument remains constant. Ship. wt., 2 oz. **Net**

Mountford Variable Leak

A plunger type variable leak for mounting between condenser clips. **23c**
3R3153— **NET**
 List, \$0.50.....

Bretwood Knob Leak

A high grade vernier control resistance, smooth and noiseless action. 0-10 meg. **98c**
3R3154—List, \$1.50. Net.....

Bretwood DeLux with Grid Condenser
3R3155—List, \$1.75. Net... **\$1.10**

Tubular Grid Leak

Glass enclosed, low price, good quality. Grid Resistance. **NET**
3R3156—1 meg. **10c**
3R3157—2 meg.
3R3158—3 meg.
3R3159—5 meg.

Micamond Grid Leaks

Moulded Bakelite grid leaks, moisture resisting. **39c**
3R2682—.1 meg.
3R2683—.25 meg.
3R2684—.5 meg.
3R2685—1 meg.
3R2686—2 meg.
3R2687—3 meg.
3R2688—5 meg.
3R2689—10 meg.
 List, 45c. Net **21c**

Muter Variable Condenser

Condensers with adjustable capacities. Black moulded bakelite shell 2 3/4 inches long, 1 1/4 inches wide. Holes for mounting, 1/2 inch, 2 1/2 inches from center to center. Ship. wt., 1 oz.
3R3100—Variable balancing condenser. .00003 to .00005 M. F.
3R3101—Variable grid condenser. .00015 to .0005 M. F.
 List Price, \$1.00. **59c**
 Net.....

Lynch Metallized Resistors

Guaranteed to be accurate within ten per cent. They actually average within five per cent. Warranted absolutely noiseless, permanently accurate, dependable.

No.	Meg.	No.	Meg.	No.	Meg.	No.	Meg.
3R3148	.25	3R2754	4.5	3R2766	.075	3R2768	.125
3R2750	.3	3R2755	4	3R2767	.09	3R2769	.15
3R3147	.5	3R3143	5	3R3200	.1	3R2770	.2
3R3145	.75	3R2756	6	List, Each 75c			
3R3146	1	3R2757	7	Net, Each..... 44c			
3R2752	1.5	3R2758	8	No. Ohms No. Ohms			
3R3145	2	3R2759	9	3R2771	.500	3R3203	5.000
3R2753	2.5	3R2759	9	3R2772	.750	3R2778	6.000
3R3144	3	3R2760	10	3R2748	1.000	3R2779	7.000
List, Each 50c 29c				3R3204	2.000	3R2780	8.000
No. Meg. No. Meg.				3R2774	3.000	3R2781	9.000
3R2761	.012	3R2764	.04	3R2777	4.000	3R2782	10.000
3R2762	.015	3R3201	.05	List, Ea. \$1.00 59c			
3R3202	.025	3R2763	.06	Net, Each.....			

Grid Suppressors

Special resistance units for use in tuned R.F. circuits to stop oscillation and improve reception without broad-casting tuning. Complete with mountings.

No.	Ohms	No.	Ohms
3R2791	100	3R2869	1000
3R2792	200	3R2870	1100
3R2793	300	3R2871	1200
3R2794	400	3R2872	1300
3R2795	500	3R2873	1400
3R2796	600	3R2874	1500
3R2797	700	3R2875	1600
3R2798	800	3R2876	1700
3R2799	900	3R2877	1800

De Jur Wired Resistance Amplifier



A completely built resistance amplifier at a remarkably low price. Insures perfect tone quality. All of the advantages of the new cone speakers are obtained. This assembled moulded bakelite 3-stage amplifier includes all resistances and condensers. Ship. wt., 2 lbs. **3R946**—Retail Price, \$8.00. Your Price, Special **\$4.30**

De Jur Planofier

3R3595
 List \$4.50
\$2.50
 Net

This kit comprises three resistance-coupled units, each of which is tested and matched to work efficiently in their consecutive stages. All necessary resistors, condensers included. Wiring diagrams furnished complete with each Kit. Ship. wt., 1 lb.

De Jur Metallized Grid Leaks

Low temperature co-efficient. Result of most recent developments in electrical alloy resistance. Very high grade materials used.

3R3602	Meg.	3R3669	Meg.
3R3602	.1	3R3670	3.5
3R3603	.25	3R3671	4
3R3604	.5	3R3672	5
3R3606	1	3R3673	6
3R3607	1.5	3R3674	7
3R3608	2	3R3675	8
3R3609	2.5	3R3676	9
3R3610	3	3R3677	10

 List, 25c. **14c**
 Net.....

Tobe Tipon Grid Leak

A new resistor free from induction and capacity. Leak is made from small glass tubing coated with a slightly conductive layer of metal and sealed in a vacuum. Permanent in value. Capacity .1 watt. Ship. wt., 2 oz.

3R759	Meg.	List	Net
3R759	.1	\$1.00	59c
3R760	.25	.50	29c
3R761	.5	.50	29c
3R762	.75	.50	29c
3R763	1	.50	29c
3R764	2	.50	29c
3R765	3	.50	29c
3R766	5	.50	29c

Carborundum Resistors and Grid Leaks

These coupling resistors and grid leaks consist of a solid unbreakable Carborundum rod. Carborundum does not disintegrate with use or time. These units are noiseless and will last indefinitely.

Resistors

No.	Ohms	List	Net
3R3677	2,500	\$1.00	59c
3R3678	5,000	1.00	59c
3R3679	12,000	.75	44c
3R3680	25,000	.75	44c
3R3681	75,000	.75	44c
3R3682	50,000	.75	44c
3R3683	100,000	.75	44c

Grid Leaks

No.	Meg.	No.	Meg.
3R3684	0.25	3R3690	5
3R3685	0.50	3R3691	6
3R3686	1	3R3692	7
3R3687	2	3R3693	8
3R3688	3	3R3694	9
3R3689	4	3R3695	10

 List Price, each, 50c. **29c**
 Net, each.....

Aerovox Interference Filters

Receiving sets are afflicted with troublesome noises coming from power lines, electrical appliances, motors, electric refrigerators, oil burners, etc. This device cuts these noises down to a minimum. Plus in between the set and source of current supply. Ship. wt., 8 pounds.
3R3118—For maximum voltage of 125 AC or 200 volts DC. List, \$6.50. Net..... **\$3.82**
3R3119—For maximum voltage of 220 Volts AC and 400 DC. List, \$9.00. Net..... **\$5.29**



"A" Power Condenser

This condenser was developed to meet the demand for an efficient low voltage, high capacity unit suitable for use in the filter circuit of an "A" battery eliminator.
3R1498—2000 Mfd. Capacity, 1 1/2 in. x 4 in. x 5 in. List, \$4.50. **\$2.65**
3R1499—3000 Mfd. Capacity, 2 1/2 in. x 4 in. x 5 in. List, \$7.50. **\$4.41**

Non-Inductive Bakelite Case Condensers

An excellent condenser for radio and audio frequency by-passing, resistance or impedance coupling, or for any purpose where a compact non-inductive condenser is required. Bakelite case. Ship. wt., 1 1/2 pounds.

No.	Wgt.	Vtue.	Mfds.	List	Net
3R1590	200	.05	\$0.70	41c	
3R1591	200	.1	.75	44c	
3R1592	200	.25	.85	50c	
3R1593	200	.5	.90	53c	
3R1594	200	1	1.25	73c	
3R1597	600	1	1.35	79c	

Sprague Midget Condensers

High voltage midget condensers. Tested to 1500 volts. Suitable for continuous operation at 1000 volts DC. Easy to wire with new type presoldered lugs.

3R1577	Cap.	List	Net
3R1577	.001	35c	
3R1578	.0025	35c	
3R1579	.005	35c	
3R1580	.001	40c	
3R1581	.0025	40c	
3R1582	.005	40c	
3R1583	.005	45c	
3R1584	.006	45c	
3R1585	.01	55c	32c
3R1586	.02	75c	44c
3R1587	.05	85c	51c
3R1588	.1	\$1.00	59c
3R1589	.25	1.00	59c



Condensers—POLYMET—Resistors



Buffer Condensers

Buffer condensers are used across the secondary windings of power transformers, designed for use with gaseous type rectifiers. Consist of two non-inductive wound 0.1 Mfd. sections connected in series and provided with afeeder tap. Capacity 2 Mfd. Shpg. wt. 1/2 lb.
3R2373 Type C up to 100 volts per anode.
 List, \$1.60. Net. **88c**

High Volt By Pass Condenser C900 Type



Non-inductively wound, designed for general use. Can be used at potentials up to 200 Volts D. C. or 125 Volts A. C. For flat mounting. Shpg. wt. 4 oz.

No.	Mfd.	List	Net
3R1396	.1	\$0.50	\$0.38
3R1397	.25	.70	.51
3R1398	.5	.80	.47
3R1399	1	1.00	.53
3R1348	2	1.50	1.03
3R2369	3	2.50	1.47
3R2370	4	3.50	2.06
3R2371	5	4.50	2.06
3R2372	6	6.50	3.23

Bakelite Molded Midgets

All the constructional features of the standard size Bakelite Condenser have been incorporated in the new small Bakelite Condenser. Can be easily mounted in any position.

No.	Capacity	List	Net
3R1474	.0001	25c	14c
3R1475	.00015	25c	14c
3R2374	.0002	25c	14c
3R1476	.00025	25c	14c
3R1477	.0005	25c	14c
3R1478	.001	25c	14c
3R2365	.0015	25c	14c
3R1479	.002	25c	14c

Bakelite Mountings



Mounting specially designed to assure positive contact when used with Poly Metallized Grid Leaks and Resistors.
3R2366—Grid leak mounting. List, 30c. Net. **17c**
 For detector assembly with Grid Leak and Condenser.
3R2367—Condenser and Grid leak mounting (single). List, 45c. Net. **26c**
 As couplers for resistance coupled amplifiers.
3R2368—Condenser and Grid leak mounting (double). List, 65c. Net. **38c**



Hi-Volt Filter Condensers

These are non-inductive, assuring long durability, high working voltage and freedom from leakage.

Type AA—300 Volts			
No.	Mfd.	List	Net
3R1160	.25	\$0.80	\$0.47
3R1161	.5	.90	.53
3R1162	1	1.10	.60
3R1163	2	1.75	1.00
3R1164	3	2.75	1.60
3R1422	4	3.75	2.20
3R1349	5	4.75	2.79
	6	6.75	3.38



Polytrois

Automatic Filament control for tubes. May be used successfully in R. F. and A. F. amplification circuit.

No.	Amp.	Volt	No.	Amp.	Volt
3R1679	.25	6	3R1683	1.25	6
3R1680	.06	4	3R1685	.75	6
3R1681	1	6	3R1686	1.25	6
3R1682	.25	1 1/2	3R1687	1.50	6

Polytrol, without mount. List, 75c. Net. **42c**

Filter Condenser Blocks

For economy, compactness, and easy assembly, we furnish complete assembly of units of filter condensers in various combinations of capacitance and working voltages to meet the requirements of the popular power supply units. Shipping weight 3 3/4 pounds.



Cat. No.	Type	Max. Sec. Volt	Type Tubes	Capacity Working Volt	List	Net
3R1493	F1004	550 v.	281-381	2-2-2-1-1-1	16.50	9.41
3R1494	F1006	325 v.	280-380	2-2-2-1-1-1	12.00	7.06
3R1495	F1007	550 v.	281-381	2-2-1-4-1	20.00	11.66
3R1497	F1008	75 v.	281	2-2-2-1-4-1	22.00	13.23



Molded Fixed Condensers

Not affected by atmospheric changes, individually tested. Mounting holes through body.



Molded—Type M. C.				Canvas—Type F. C.			
Type No.	Capacity	List	Net	Type No.	Capacity	List	Net
3R1688	.0001	35c	20c	3R1180	.0001	25c	14c
3R1457	.00015	35c	20c	3R1181	.00015	25c	14c
3R1689	.0002	35c	20c	3R1182	.00025	25c	14c
3R1458	.00025	35c	20c	3R1183	.0005	25c	14c
3R1690	.0003	35c	20c	3R1184	.001	30c	17c
3R1459	.00035	35c	20c	3R1185	.002	30c	17c
3R1691	.0007	35c	20c	3R1188	.0025	30c	17c
3R1460	.001	40c	23c	3R1189	.003	40c	23c
3R1692	.0015	40c	23c	3R1694	.004	40c	23c
3R1461	.002	40c	23c	3R1190	.005	50c	29c
3R1462	.0025	40c	23c	3R1191	.006	50c	29c
3R1693	.003	50c	29c	3R1192	.0075	60c	35c
3R1463	.004	50c	29c	3R1193	.01	70c	41c
3R1464	.005	60c	35c	3R1195	.02	1.00	59c
3R1465	.006	75c	44c				
3R1466	.0075	85c	50c				
3R1467	.01	90c	53c				

With Grid Leak				Mounting Clips			
Type	Capacity	List	Net	Type	Capacity	List	Net
3R1470	.00015	45c	26c	3R1186	.00015	35c	20c
3R1471	.00025	45c	26c	3R1187	.00025	35c	20c
3R1472	.0005	45c	26c	3R1196	.0005	35c	20c



Polymet Wire Wound Resistances

Nichrome resistance wire wound on a refractory tube and coated with a baked-on porcelain enamel which protects wire from moisture, oxidation and mechanical injury.

10 Watt—Type A			20 Watt—Type B			
Number	List	Net	Ohms	Number	List	Net
3R2340	\$0.75	\$0.44	750	3R3989	\$1.25	\$0.73
3R2341	.75	.44	1,000	3R3990	1.25	.73
3R2342	.75	.44	1,500	3R3991	1.25	.73
3R2343	.75	.44	2,000	3R3992	1.25	.73
3R2344	.75	.44	2,500	3R3993	1.25	.73
3R2345	1.00	.59	3,000	3R3994	1.50	.80
3R2346	1.00	.59	3,500	3R3995	1.50	.80
3R2347	1.00	.59	4,000	3R3996	1.50	.80
3R2348	1.00	.59	4,500	3R3997	1.50	.80
3R2349	1.00	.59	5,000	3R4026	1.50	.80
3R2350	1.00	.59	5,500	3R4027	1.50	.80
3R2351	1.00	.59	6,000	3R3360	1.75	.85
3R2352	1.25	.73	7,500	3R3361	1.75	.85
3R2353	1.25	.73	8,000	3R3362	2.00	1.00
3R2354	1.25	.73	10,000	3R3363	2.50	1.47
3R2355	1.50	.88	12,000			
3R2356	2.00	1.18	15,000			
			20,000			
			25,000			
			30,000			
			100,000			



Polymet Grid Leaks

Tubular style. Metallized resistance unit, therefore permanent. Shpg. wt. 2 oz. List, 25c.

No.	Meg.	No.	Meg.
3R3070	1/2	3R3074	3
3R3071	1	3R3075	5
3R3072	1 1/2	3R3076	7
3R3073	2	3R3077	10

Net Each, 15c

Polymet Resistors

Pure metal element. Shpg. wt. 2 oz.

No.	Meg.	Price	Single	Lots of Ten
3R3078	.005	\$1.00	50c	45c
3R3079	.025	75c	44c	30c
3R3081	.1	50c	46c	30c
3R3095	.25	50c	29c	20c
3R3096	.5	50c	29c	20c
3R3097	1	50c	29c	20c

Tubular Condenser



A compact tubular condenser for use in circuits where small capacitance are required. Non-inductively wound, thoroughly impregnated and sealed in round fibre tubes. Diameter 1/2 in. Length 2 inches. Shpg. wt. 4 oz.

No.	vol. Cap.	List	Net
3R1387	200 .05	\$0.70	41c
3R1388	200 .1	.75	44c
3R1389	400 .01	.56	32c
3R1390	400 .02	.60	35c
3R1391	400 .05	.80	46c
3R1392	400 .1	1.00	59c

Tapped Voltage Dividers



For use with ex380 or Raytheon BH full wave rectifier tube without voltage regulator tube. Total resistance 3800 ohms tapped at 3000, 2800, 1500 and 1500.

3R3587 List, \$1.75. Net. **\$1.03**

For use with ex380 or Raytheon BR rectifier tubes, and voltage regulator tube. Total resistance 7300 ohms. Tapped at 3000, 2800, 750 and 750.

3R3590 List, \$1.75. Net. **\$1.03**

For use with Thordarson R171 compact using Raytheon BH rectifying tube. Total 13000 ohms. Tapped 2000, 3000, 3000, 3000 and 2000.

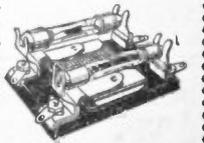
3R3588 List, \$2.00. Net. **\$1.18**

For use with ex381 rectifying tube either with or without voltage regulator tube. Total 16,300 ohms. Tapped 3000, 2500, 750, 750, 4500, and 4500.

3R3589 List, \$5.50. Net. **\$3.23**

Polymet Three Stage Resistance Amplifier

All parts of this kit are finest quality. Resistor and condenser bases are of genuine molded bakelite. Resistors and condensers are well made and accurate. The kit includes the following: 3 resistor couplers, 1 condenser mounting, 3 .006 condensers, 3 .1 meg. resistors, 1 .002 condenser, 1 grid leak .1 meg., 1 grid leak 1/2 meg., 1 grid leak 1/4 meg. Set of instructions and diagrams. Ship. wt., 1 lb.
3R3023—List, \$4.00. Net. **\$2.20**
3R3025—Single coupler without resistances but with .006 condenser. List, \$1.50. Net. **69c**



Amsco Floating Socket



3R4616—
List, 65c.
Net **38c**
Rugged,
sturdy. Eliminates
mechanical shocks and
prevents micro-
phonic noises. A necessity for
the detector tube.

Wiping contact. Attractive green bakelite base. Takes all X-type tubes. Ship. wt., 4 oz.

Amsco Universal Socket

3R4618—List, 35c. Net **21c**
Bakelite base. Positive wiping contact. Takes all X-type tubes. Matches Amsco floating socket. Ship. wt., 4 oz.

Pilot Shock-Proof Socket

Cushioned on four specially tempered phosphor-bronze springs which act as shock absorbers. Eliminates vibrations. For standard UX and UV tubes. Ship. wt., 4 oz.



3R4635

List Ea. 50c

Net

3R4635—List, **29c**

Pilot Insulated Socket



Insulated Socket for use on metal panels. Wiring can be done either above or below panel. Solder direct to terminals. Strong springs, short leads.

3R4631—4-prong. List, 35c. Net **20c**

3R4632—5-prong. List, 40c. Net **23c**

Pilot Subpanel Socket



Genuine Bakelite for use on bakelite or rubber subpanel. Drill holes and connect wires from underside of panel. Very neat connections. Will take UX, UV and UY tubes. Self-locating prong guide.
3R4600—4-prong. List, 20c. Net **12c**
3R4601—5-prong. List, 25c. Net **14c**

Frost Socket



Made of moulded genuine bakelite in polished maroon finish. Neat, compact design for panel or base mounting.

With Lugs and Lock Nuts on Top
3R4700—4-prong tubes. List, 40c. Net **24c**

3R4700—5-prong tubes. List, 40c. Net **24c**

With Screws Projecting Through Bottom of Socket for Sub-base Wiring

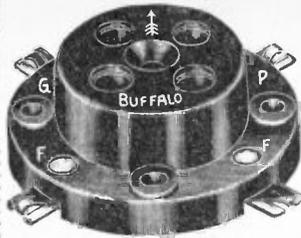
3R4701—4-prong. List, 40c. Net **24c**

3R4701—5-prong. List, 40c. Net **24c**

Alden Special

A neat, easily mounted socket for surface or subpanel mounting. One screw holds it in place. Single piece shell. Spring and soldering lug in one piece. Low Loss. Yellow groove aids in locating prong holes.

3R4648—List, 25c. Net **15c**



BUFFALO BAKELITE SOCKET

4 or 5 Prongs

Moulded of genuine bakelite. Very durable and strong. New style side wiping contacts, phosphor bronze, heavily gamed. Ensure positive connections with the tube prongs, thus eliminating the possibility of tube noises from poor contacts. Equipped with lugs for convenient and neat soldering connections. Takes all of the new UX type and all of the old UV type bases with the exception of the UV 199 type tube. Ship. wt., 4 oz.

3R4731—UX for 4 prongs. Each **13c**

3R4732—UY for 5 prongs. Each **22c**

De Jur Shock Proof Socket

The last word in socket construction, this unit not only combines good appearance with high electrical efficiency, but is also in itself a safeguard against shocks and vibrations, which may otherwise be communicated to the delicate elements of the audion. Its use in the detector stage, or in the last R.F. stage in receivers bordering on regeneration, will eliminate to a large degree the howling caused by sound vibrations from the speaker jarring the elements of the tube. Made of genuine Moulded Bakelite.

3R4738—UX 4-prong. List, 50c. Net **27c**

3R4741—UX 5-prong. List, 75c. Net **42c**



Tyrman Shielded



A single hole, subpanel or baseboard mounting socket. Entirely shields tube. Shielding of aluminum, best heat radiator obtainable, keeping temperature of tube constant. Ship. wt., 4 oz.

3R4188—List, \$1.25. Net **73c**

Sub-Panel Socket



Genuine Bakelite socket for above subpanel use. Four small holes through which wire connections are made and one center hole to tighten socket in place are all that is necessary to mount. Take all UX type prong tubes. **3R4613**—Each **12c**

Pioneer Tube Shields



For the 292 type shielded grid tubes. A shielded grid tube to perform most efficiently must itself be properly shielded to prevent disturbances from external causes. The Pioneer shield is made in one piece of pure aluminum, the metal best suited to keep the tube at the lowest temperature. Fits snugly around sockets which have base extending above subpanel or can be used with the Carter adapter ring. Shipping wt., 6 oz.
3R4199—List Price, 75c. Net **35c**

BENJAMIN Cle-Ra-Tune

For 4 or 5 Prongs

Shock Absorbing Non-Microphonic



Have longer life and protect tubes from those sudden impacts which destroy heater, grid and plates. Positive side wiping connections. All moulded bakelite.

With Mounting Base
3R4736—Benj. No. 9036 for UY 5-prong tubes. List, \$1.00. Net **59c**

For Direct Panel Mounting

For attachment to either 3/8 or 1/2 inch panels where it is desired to have socket wiring connections below the subpanel.

3R4737—Benj. No. 9037 for UY 5-prong tubes. List, 75c. Net **44c**

3R4108—Benj. No. 9044 for UX 4-prong tubes. List, 50c. Net **29c**

Manufacturers Sub-Panel Type



List 25c
Net **9c**

You will agree this is one of the easiest sockets to mount as well as one of the most efficient

on the market today. Above the panel is a black bakelite prong guide and below a piece of composition fibre to which are attached contacts. Contacts are lead covered and have heavy spring clips to insure positive contact.
3R4634—UX Type for 4-Prong Tubes.
3R4636—UY Type for 5-Prong Tubes.

New Eby Socket



A very satisfactory socket for new AC sets. Has guide for the tube prongs—a simple twist of the tube in the grooved top of the socket and the prongs locate themselves. New and improved contact springs—a perfect wiping contact the full length of the tube prong. Springs will not loose tension. Easy to mount—either above or below wood, bakelite or metal. Even though the socket is mounted on top of the panel, drilling six holes makes subpanel wiring possible. Shipping weight, 4 oz.

3R4602—UX Type 4-Prong. List, 40c. Net **24c**

3R4603—UY Type 5-Prong. List, 50c. Net **29c**

Molded Tube Holders

3R4703—201A Base. **22c**

3R4704—UV199 Base. **23c**

3R4705—C11 Base. **30c**

3R4615—UX Base (no. 30c barrel). **18c**

Fine quality. Strong and durable. Reinforced slot and screw holes. Binding post connections plainly marked make connections easy. Positive contact springs of phosphor bronze. Ship. wt., 4 oz.

Carter Grid Tube Shields

Carter Shields for 292 tubes. Completely isolates tube down to subpanel. Pressed copper, single piece. Top renewable for connection.

3R806—Shield only. List, \$1.50. Net **88c**

3R823—Adapter ring. List, 35c. Net **20c**

3R822—Connector with shielded wire. List, 50c. Net **29c**



Air-Gap Universal Sockets

3R4626—List Price, 60c. Net **36c**

Air gap in sockets prevents socket capacity. Clear side swipe springs assure perfect contact. Make any circuit more stable and sharpens the tuning. Ship. wt., 4 oz.

Socket Spring Contacts

Under panel type. Phosphor bronze contact springs. Rivet to sheet bakelite. Double contact. Side wiping type. Ship. wt., 2 oz.

3R4622—For UX prongs. Per dozen (3 sets) **24c**
100 lots **\$1.50**

Silver-Marshall Sockets



Genuine bakelite socket. Phosphor bronze springs, positive and noiseless contact. Surface mounting.

3R4611—List, 50c. Net **29c**

4 prong for all UX base tubes. **3R4612**—List, 60c. Net **35c**

5 prong for UY base tubes only. Ship. wt., 2 oz.

Dimco Radio Light

3R2584
List \$3.85

\$2.45
Net

Bulb Extra

This is a very beautiful light for use on the radio. Throws a very carefully deflected light on the dials where it is needed most. Makes tuning easy and eliminates the strain of the eyes when the set is in a dark corner. The light is 2 1/2 in. high by 7 1/2 in. from front to back. Adjustable shade. Candelabra socket-base of white metal heavily weighted to prevent tipping. 10 feet of silk cord and attachment plug for 110 volt lighting current. All bronze finish. Shipping wt., 3 lbs.

3R2586—Frosted, candelabra base bulb for above lamp. 1 1/2 watt, 110 volt.

40c

Set of Bearings for Tuning Coils



3R2208
List 75c

48c

Self-aligning assure positive electrical contact. Set includes two bearings with front and rear shafts. Adjustable to meet practically any size conditions.

Microphone Button



3R3807
List Price \$1.00
Net

65c

Carbon granule type. Can be applied to any vibrating surface or diaphragm. Used for broadcast modulation; for telephone and repair work for detectors; for stethoscopes, amplifiers, etc. Offers every ita-dio fan the means of building his own powerful speech amplifier. Instruction sheet included. Shpg. wt., 4 oz.

Test Buzzer

3R3828—
Each .76c

Watch case buzzer. Polished nickel finish. Diam., 2 1/2 in. Shpg. wt., 4 oz.



Test Buzzer Push Button



3R3829
List Price .21c

Net

A small compact button with pearl center. Held in 1/4-inch hole by small spring clips. Shpg. wt., 2 oz.

Grewol Crystal Detector

3R3808—List, \$1.50. Net, .88c

Has permanent adjustments fully set and tested. Very sensitive. Always ready for use. Ideal for reflex circuit. Mounts on panel in very little space. Dust-proof glass cover. Shpg. wt., 4 oz.



Switch and Pilot

A gentle reminder to turn off the radio. Brilliant jewel. Small 6 v. lamp. Complete with switch, lamp and jewel. Shpg. wt., 4 oz.

3R2541—List, \$1.00. Net, .59c

3R2542—No. 310 Pilot Light only without switch. List, 75c. Net, .44c



Dialite Reading Lamp

Supplies just the right amount of illumination for easy dial adjustment and shields the eyes from direct rays. Very handy in darkened room. Connects to 6 volt battery on set. Price includes bulb and 3-foot silk connecting cord. Switch for turning on or off in base. Height as illustrated 5 inches. Weighted base. Can be placed on any set. Attractive gold finish. This is a real live item. Every set owner wants one. Being portable, with ample wire connection it makes an ideal trouble finder. Shpg. wt., 5 lbs.



FOR RADIO
3R2545
List \$2.00

\$1.18
Net

Pandora Crystal Set

Nationally known for years, the Pandora crystal set is efficient, compact and distinctive appearing. Simple adjustment. Covers entire broadcast band. 20 to 30-mile range, longer for super-power stations. Crystal reception has perfect tone quality, no distortion. Shpg. wt., 2 lbs.

3R3833—List price, \$2.50. Net, .98c

Complete Crystal Receiving Set

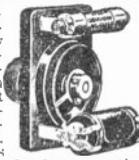
3R3834—Crystal set, complete with aerial and ground equipment, quality head phones. Shpg. wt., 1 1/2 lbs. Your special price, \$3.80



Carborundum Stabilizing Detector Unit

A highly efficient stabilizing device. By adjusting detector resistance to meet conditions in the circuit, it absolutely controls self-oscillation in r.f. tubes. Permits operation at peak of regeneration gives greater sensitivity, increased selectivity, cleaner tones. A small flash-light battery is all it needs. Complete with Carborundum Detector. Shpg. wt., 12 oz.

3R3817—List Price, \$3.50. Net (without battery)... \$2.20



Carborundum Detector

3R3816—List, \$1.50. Net, .96c

A detector using a specially selected carborundum crystal sealed under pressure. This insures permanent solid contact and dependable operation, guaranteed not to "burn out." Does not lose sensitivity. Gives more volume than other crystals. Best for reflex circuits. Shpg. wt., 3 oz.



Crystal Detector

3R3806—
Each .28c

Crystal enclosed in glass case. Cat whisker spring controlled by rod projecting through composition top. Binding post connections. No crystal included. Shpg. wt., 5 oz.

Zincite and Tellurium Detector

3R3811
List 50c
Net 33c

An efficient detector. Rectification is obtained by contact of two super sensitive crystals. No cat whisker used. Especially recommended with the use of tubes for reflex or other types or circuits. Shpg. wt., 6 oz.

Panel Light Bulb

For use in lights either in front or rear of panel, screw type base. Run from 6 volt storage battery.

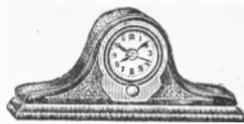
3R2564—List, 30c
Net 18c
Ten for \$1.30



Pilot Light Bulb

A screw type base bulb for use in rear of panel. Runs from 6 volt storage battery.

3R2565—List, 35c.
Net 20c
Ten for \$1.40



Time Lite Electric Time Switch

A splendid quality, beautiful clock fitted with an electric switch device which shuts off or turns on your radio set any moment you desire. No harm if you forget to shut off your set if Time Lite is on the job. Pretty bronze finish case with 30-hour reliable movement. Two radio regulator hands, one for turning on, set one for shutting off.

3R2548
List \$8.50

Easily connected, only one wire affected. Uses no current.

\$5.00
Net

Pyratek Fixed Detector



3R3810—List, \$1.25. Net, .85c

Permanent stability with great sensitivity. Especially recommended for reflex. Stands high plate voltage. Has mounting clips. Shpg. wt., 4 ounces.

Du-tec

3R3822
List 30c

Net 21c

3R3822—List Price, 30c. Net Price, .21c

A Dulliber chemically made radio rectifier. Replace crystals. Every point sensitive and remains so. No adjustments necessary. Mounted in cup ready for use. Shpg. wt., 2 oz.

3R3823—Genuine million point crystal. Sensitive all over. Mounted. Each, .21c

3R3824—Meteorite. A synthetic crystal mounted in metal cup. Very sensitive. Each, .12c

3R3826—Silver clay crystal, a fused crystal of great volume and clarity. Each, .17c

Meter Tested Crystals

Produce loud and clear signals. These are exceptionally fine quality crystals. Laboratory tested on sensitive meters. Shpg. wt., 2 oz.

3R3820—Silicon.
3R3821—Galena.
List Price, 60c.
Net Price, .39c

Broadcast Tested Crystals

Mounted. Good commercial quality crystals give results satisfactory for the ordinary broadcast listener, not recommended for reflex circuits. Shpg. wt., 2 oz.

3R3818—Silicon.
3R3819—Galena.
List, each .10c
Ten for .60c

Jeweled Pilot Light

Bracket is mounted back of panel. Light shows through hole in panel and through red Jewel in front of panel. No bulb included.

3R3882—List, 45c. Net, .26c



Lamp Bracket

Ideal for illuminating dials, or trouble lamp. Complete with bulb.

3R3881—List, 45c. Net, each .26c

Quality Hookup Wire

Acme Flexible Celatsite Hook-up Wire



3R2106—25 ft. coil. 45c
Net.

Very flexible stranded copper conductor. Covered with cotton serving and smooth, glossy varnish. Makes attractive job. Black, yellow, brown, green, maroon, salmon, slate gray, blue, white and red colors. Specify color.

Twisted AC Hook-up Wire

Required for AC filament hook-up. One red and one black strand, flexible celatsite twisted together. 25 ft. coil in carton.

3R2111—List per Carton, \$1.75. Net., \$1.03

Rubber Covered Hook-up Wire



Stranded, tinned copper wire covered with live rubber insulation to withstand any voltage ordinarily used in radio. Best for short leads and ease of wiring.

Five colors. 25-foot coils.
3R2220—Red. 24c
3R2221—Green.
3R2222—Blue.
3R2223—Black.
3R2224—White.
List Price, 40c each. Net, each.

Tinned "Bus" Wire

Cut into two-foot lengths.
3R2101—Round, 10 lengths (20 feet) 13c
100 lengths (200 feet) \$1.05
3R2102—Square.
10 lengths (20 feet) 14c
100 lengths (200 feet) \$1.14
Size 14 tinned stiff solid copper wire. For wiring sets. Best size for neat job and easy soldering. 2-foot lengths.
No. 12 Bus Wire
3R2107—Round. 2-ft. lengths, 10 lengths (20 feet) 23c
100 lengths (200 feet) \$2.10

Pigtail Wire

3R2006—10 feet. 20c
List Price, 35c. Net.

A braided wire cable made up of very fine strands of copper wire, which gives it extreme flexibility. Use it for making connections on your variable condensers, variometers and switches and avoid high frequency resistance losses. Prevents noise caused by loose or imperfect connections due to sliding contacts.

Metals Used for Shieldings

Copper Foil

3R2201—6x24 inches. 25c
Per piece.
3R2202—8½x72 in. \$1.20
Per piece.
3R2203—12x30 in. 75c
Per piece.

Aluminum Shielding

Proper thickness for maximum shielding effect with ample mechanical strength. Commercially pure aluminum sheets. About .03 inch thick. Ship. wt., 2 to 6 lbs.
3R2319—6x12 inches. 55c
Each
3R2320—7x24 inches. 93c
Each
3R2321—8½x30 inches. \$1.25
Each

Corwico Braidite



Hookup wire, either solid or standard tinned copper wire covered first with a cotton wrap and then with a cotton braid. Impregnated with a damp proof compound. Impervious to moisture insulating qualities. Simply push back the braid while soldering. Then replace it, thus forming the neatest possible connection.

In five colors, red, yellow, blue, green, or black. Please specify color wanted.
3R2147—No. 600, solid copper core, 25 ft. in carton. 18c
List, 30c. Net.
3R2148—No. 601, stranded copper core, 25 ft. in carton. 21c
List, 35c. Net.

Celatsite Bus Wire

3R2100—List Each, 10c. Net—Ten for 54c
30 inch lengths. Tinned copper bus wire insulated with highest grade varnished coverings, supplied in yellow, brown, black, green, maroon, salmon, slate gray, blue, white and red. Using different colors makes tracing of circuits easy and sure, neater and lower cost. Size 14 stiff solid wire. Ship. wt., 1½ lbs.

Acme "Spaghetti" Tubing

3R2105—List each, 10c. Net Ten for 54c
30-inch lengths. The best quality spaghetti made. Made of high grade cambic tubing impregnated with high insulation transparent varnish. Supplied in yellow, red, green, brown, maroon, salmon, slate gray, blue, white and black colors. Different colors can be used to mark different circuits. Specify color.

Bus Bar Strip

3R2213—3-foot strips. List each, 30c. 19c
Net.
Flat brass strip ¼-inch wide approximately .0010-inch thick. Replaces bus wire on high grade sets. Better, firmer and more durable contacts.

Tin Foil

3R2204—Sheets 6½x8½ inches, about 25 sheets to the pound. 36c
Per lb.
3R2205—Sheets 6x24 in., about 8 sheets to the pound. Per lb. 39c

Zinc Shielding

For use between A. F. or R. F. stages, for shielding panels or cabinets. Thick enough to be self-supporting and hold shape firmly when bent. Made of zinc with polished nickel coating.
3R2206—Size 6x12 inches. Per sheet. 40c
3R2207—Size 7x24 inches. Per sheet. 80c

Wire, Forms, Etc. for Coils

All Kinds of Magnet Wire

For making practically every kind of radio and experimental apparatus and for repairing motors or other electrical apparatus. One piece only on a spool. Sizes given are standard B. & S. Be sure to state number and size. Prices quoted are for 8-ounce spools unless otherwise stated.



Double Cotton White		Enameled		Double Silk Green		Wire Spool Size D. C. C.	
3R2050	21c					14	38
3R2051	24c					16	61
3R2052	27c	3R2059	22c	3R2066	50c	18	90
3R2053	30c	3R2060	24c	3R2067	55c	20	149
3R2054	35c	3R2061	25c	3R2068	65c	22	232
3R2055	36c	3R2062	27c	3R2069	77c	24	356
3R2056	52c	3R2063	30c	4 oz. 3R2070	48c	26	540
3R2057	61c	3R2064	32c	4 oz. 3R2071	60c	28	815
3R2058	74c	3R2065	40c	4 oz. 3R2072	76c	30	1210

Litz Wire for Loops

3R2004—Per 125 ft. List, \$1.00. Net 65c
Conductor of 60 strands No. 33 wire with 5 strands No. 36. Specially treated to prevent stretching. Maroon colored cotton covered. Ship. wt., 1½ lbs.

Silk Covered Loop Antenna Wire

3R2005—Per 125 ft. List, \$1.75. Net 85c
Composed of 60 strands No. 38 copper wire with 5 strands No. 36. Covered with inner serving cotton. Outer serving artificial silk of maroon or green color. Looks well, will not stretch and holds its shape. Ship. wt., 1½ lbs.

Litz Wire for Coils

3R2003—Per 100 ft. List, \$1.00. Net 65c
Consists of 20 strands of No. 33 enameled wire, twisted and covered with a double serving of silk. The correct wire for low loss inductance coils. Equivalent to size 25. Ship. wt., 1½ lbs.

Bakelite Low Loss Coil Supports

The bakelite tubing and strips listed here can be assembled together to make low loss coil supports on which all types of loss windings can be constructed. All tubing is ½-inch wide, ¼-inch thick. Dimension given is inside diameter.
3R2300—2½ in. 19c 68c
3R2301—2 in. 24c 74c
3R2302—3 in. 26c 78c
3R2303—¾ in. 26c 82c
3R2304—¾ in. 29c 89c
3R2305—Bakelite strips ¼-in. wide, ¼-in. thick, 6 in. length. 20c

Spider-Web Coil Form

3R2214—Fiber. Diam. 5 inches, 13 spokes. Each. 10c
3R2215—Bakelite. Diam. 3½ in., 15 spokes. 16c
Each. Strong material that will support coil under severest handling.

Wood Winding Form

3R2216 20c
For winding spider web coils. Diameter 6 inches. 15 spokes.

Bakelite Tubing

Genuine bakelite tubing. Pieces 3 in. long only. For winding coils. Very strong. Will not war nor bend. ¼-inch wall. Natural color.

No.	Inside Diam.	Single lots
3R2311	2 in.	14c
3R2312	2½ in.	19c
3R2313	3 in.	22c
3R2314	3½ in.	24c
3R2315	4 in.	26c
3R2316	3 in.	24c
3R2317	3½ in.	22c
3R2318	4 in.	29c

Note: Any diameter or length can be supplied at proportionate prices. Aluminum 50¢ per order.

Threaded Bakelite Tubing

3R2323—Genuine bakelite tubing threaded for space winding. Tube is 2½ in. long, 1½ in. outside diameter, ¼ in. wall. Threaded with 104 threads, 64 threads per inch. Best suited for No. 30 enameled wire. Full length winding accurately covers the broadcast band with .00035 variable condenser. Net, each. 21c

Cardboard Tubing

Used for making tuning coils, loading coils, etc. Made of selected stock covered with smooth paper. All sizes are 1 foot long.
3R3835—Diameter 2 in. Single lots, 13c; Lots of ten, 11c
3R3836—Diameter 2½ in. Each, 14c; Lots of ten, 12c
3R3837—Diameter 3 in. Each, 15c; Lots of ten, 13c
3R3838—Diameter 3½ in. Each, 17c; Lots of ten, 15c
3R3839—Diameter 4 in. Each, 19c; Lots of ten, 18c
Sizes can be assorted for 10 lot price.

Bakelite Discs

3R2306—Diam.	Single Lots	Price
3R2306—2 in.	8c	20c
3R2307—2½ in.	9c	23c
3R2308—3 in.	12c	31c
3R2309—3½ in.	12c	31c
3R2310—4 in.	14c	36c

Plain solid black bakelite discs—thickness ¼-in.

Radio Shellac Compound

3R2209 18c
Bottle. For covering cabinets, base boards, etc. Also used for impregnating wires. 2 oz. bottle.

Insulating Cement

3R2210 22c
Bottle. A transparent celluloid base compound for insulating and impregnating wire and coils. Makes spider web, honeycomb, etc. coils self-supporting. No capacity or absorption effects. 2-oz. bottle.

See page 132 for Alcoa Aluminum Shields

BRASS SCREWS—NICKEL PLATED



Round Head Machine Screws

Size, 6-32 threads to inch.	Length	Gross
3R676	1/4 in.	42c
3R600	1/2 in.	42c
3R601	3/4 in.	45c
3R602	1 in.	45c
3R603	1 1/4 in.	45c
3R604	2 in.	9c



Flat-Head Machine Screws

Size, 6-32 threads to inch.	Length	Gross
3R677	1/4 in.	45c
3R605	1/2 in.	45c
3R606	3/4 in.	45c
3R607	1 in.	62c



Oval-Head Machine Screws

Size, 6-32 threads to inch.	Length	Gross
3R678	1/4 in.	48c
3R608	1/2 in.	48c
3R609	3/4 in.	48c
3R610	1 in.	65c

LUGS, CONNECTORS, ETC.



Flat Lugs

3R620—Per 100.....20c
Per thousand.....\$1.45
Flat lug with two holes. Illustration is actual size. Best tinned lug on the market; makes soldering easy. Punched from sheet copper—neatly tinned, no bare spots.

Similar to lug above, but smaller in size; very handy for small connections.
3R621—Per 100.....20c
Per thousand.....\$1.25



Solder Lugs

A good solder job easy to do with these lugs. Fits binding posts and contact points.
3R626—Per 100.....30c
Per thousand.....\$1.40



Solderless Lugs

A copper lug on which no solder is required. Wire is held in grip.
3R623—Pkg. of fifty.....20c

3R780—Set of 2.....10c
Ten sets.....60c
Fit any binding post. With their use up to five sets of phones or loud speakers can be connected up at one time.



Spring Connector

3R780—Set of 2.....10c
Ten sets.....60c
Fit any binding post. With their use up to five sets of phones or loud speakers can be connected up at one time.



Switch Levers

3R635—With black knob. Each.....10c
3R636—With mahogany knob. Each.....14c
Tapered polished knob. Nickel plated metal parts. Lever adjustable from 1/4 to 1 1/2 inch radius.



Switch Lever Stop

3R797—Per doz.....9c
Made of brass, fine polished nickel finish. Has 3/4 in. long 6-32 screw. Fitted with one nut.



Round-Head Wood Screws

Proper thickness for radio work. Size, 5 and 6.

Length	Gross
3R611—1/2 in.	43c
3R612—3/4 in.	52c
3R613—1 in.	55c
3R614—1 1/4 in.	69c



Oval-Head Wood Screws

Proper thickness for radio work. Sizes, 6 and 7.

Length	Gross
3R616—1/2 in.	48c
3R617—3/4 in.	49c



Radio Screw Assortment

3R628—List Price, 50c
Net Price.....29c
A handy assortment of wood screws, machine screws, nuts and washers in the sizes and styles needed for assembling radio sets.



Shakeproof Lugs and Washers

Insure permanent tight connections. When nut is tightened down they will not loosen regardless of vibration or shaking. Phosphor bronze, hot tinned.
3R631—Lugs, per 100.....39c
3R632—Washers, per 100.....35c

"T" Lug

Solders three wires together or makes "T" connection with two wires.
3R624—3 doz.....30c

Rajah Connectors

A positive solderless snap for connecting lead wires. Just push on or pull off to make or break connection.
3R796—List Price, 20c. Net.....12c

Fahnestock Spring Grip Connectors

For connecting wires or making connections on binding posts or other parts. Wires held firmly in spring grip, but may be instantly released.
3R798—Single connector. Dozen.....12c
3R799—Double connector. Dozen.....28c

Post Markers

3R627—Per doz.....30c
Nicely finished in silver and black. Sold in dozen lots only. Specify titles wanted.

Plate	Sec'd	Load
Aerial	+ B Bat.	+ B Bat.
Ground	+ C Bat.	+ 20 V.
Phones	+ C Bat.	+ 60 V.
Output	+ C Bat.	+ 90 V.
Input	+ B Bat.	+ 130 V.
Ticker	Grid	Loop

Flat Washers

Made of brass nickel plated. Fit size 6 screws. Fit size 6 screws.
3R619—Gross.....25c

Hexagon Nuts

Made of brass nickel plated. Chamfered and counter sunk for quick assembly work. Fit all size 6 screws with 32 threads to inch.
3R618—Gross.....47c

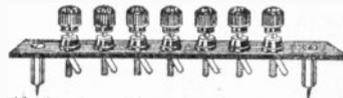
Eby Ensign Binding Posts



These binding posts are the finest on the market. They are used as standard equipment on many of the highest priced manufactured sets. They have patented construction, non-removable tops which unscrew enough to allow plenty of room for wires. All are complete with nut, lugs and screw. Neat white enamel captions engraved on polished black bakelite top. Diameter 3/4 inch. Size 6-32 screw—3/4 inch long.

LIST EACH 15c NET		LIST EACH 15c NET	
3R638—Plain	3R865—B Amp. +	3R892—9 Volts C -	3R899—27 Volts C -
3R639—Ant.	3R646—22 Volts +	3R893—67 Volts C -	3R894—40 Volts C -
3R880—Srt Ant.	3R647—46 Volts +	3R895—Phoncs	3R896—Speaker +
3R640—Gnd.	3R648—90 Volts +	3R897—Speaker -	3R898—Speaker -
3R882—+	3R649—135 Volts +	3R899—Input	3R898—Output
3R883—+	3R647—150 Volts +	3R645—Loop	3R899—Loop 1
3R641—A Bat. +	3R888—180 Volts +	3R899—Loop 2	
3R639—Ant.	3R889—200 Volts +		
3R642—A + Bat. B -	3R890—A - Bat. C +		
3R644—B Bat. +	3R682—C Bat. +		
3R643—B Bat. +	3R683—C Bat. +		
3R884—B Det. +	3R891—4 Volts C -		

Eby Binding Post Strip



A strip of 7 posts in the most popular markings mounted on a polished hard rubber strip with nickel-plated brackets and wood-screws, packed in individual cartons. The tops can't come off.
3R637—List Price, \$1.25. Net.....73c

X-L Binding Post Strip

Binding post strip strongly constructed on good quality polished bakelite strips. Markings are silver and black nickel plated set under binding posts. A most convenient strip for subpanel or back-cabinet mounting. Each packed in individual carton.
3R662—List Price, \$1.50. Net.....92c



Binding Posts on Panel Strip

3R795—Black. Each. 29c
Consists of set of seven binding posts mounted on strip. Posts plainly marked, and have soldering lugs attached.



X-L Binding Posts

Same quality as that used in the X-L binding post strip. Furnished with an attached silver and black finish, post marker of very neat appearance. Connection is made by pressing cap down, insert wire, remove pressure and wire is firmly held.

3R1355—Aerial	3R1363—	3R1367—C Bat. +
3R1356—Ground	B Bat. 22 1/2 +	3R1368—A + B +
3R1357—Ldsprk.	3R1364—	3R1369—B + Det.
3R1358—A Bat. -	B Bat. 45 +	
3R1359—A Bat. +	B Bat. 90 +	
3R1360—Phones	B Bat. 90 +	
3R1361—B Bat. -	3R1366—C Bat. -	
3R1372—Lg. Aerial	3R1370—B + Amp.	
3R1373—Loop	3R1371—Sht. Aerial	

LIST EACH 15c NET

Binding Post Mounting Strips

Drilled for mounting binding posts. Screw holes at ends, 3-16 inch thick. Strips unlettered.

3R705—For 10 posts.....30c	3R706—For 9 posts.....26c
3R707—For 8 posts.....22c	3R708—For 7 posts.....20c
3R709—For 6 posts.....18c	3R710—For 5 posts.....16c
3R711—For 4 posts.....15c	3R712—For 3 posts.....14c
3R713—For 2 posts.....13c	

Lettered Binding Posts



3R700—Per set of eight.....25c
List, 50c. Net.....25c
Have fine looking polished black insulated tops with titles clearly marked in contrasting white enamel. Titles supplied are those used on practically all sets. Complete with brass barrel polished nickel finish and screw to fit panel of any thickness.

Brass Binding Posts

Brass binding posts, fine polished nickel finish, well made. Fitted with washer and 6-32 screw extending 3/4 inch.
3R703—Large size—barrel and knob 3/4 inch long. Dozen.....60c
3R704—Smaller size—barrel and knob 9-16 in. long. Dozen.....32c
Hundred.....\$1.95



Double Binding Posts

3R702—Each.....8c
Dozen.....85c
Made of brass polished nickel finish. Has two holes for wires or cord tips. Fits any thickness of panel.

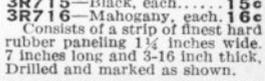


Composition Top Binding Posts

3R701—Per doz.....30c
Per hundred.....\$2.25
Well made. Polished black insulated top. Size 6-32 screw with washer extends 3/4 inch.

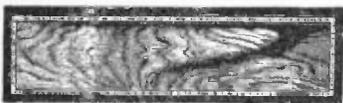
Ready Panel Mounting for Binding Posts

3R715—Black, each.....15c
3R716—Mahogany, each. 16c
Consists of a strip of finest hard rubber paneling 1 1/4 inches wide. 7 inch long and 3/16 inch thick. Drilled and marked as shown.



Only Those Panels Best Suited for Radio

Radio LIGNOLE Panels



A new specially treated wood panel that is now used and recommended by leading radio engineers. Surpasses all others in beauty and richness of appearance. Absolutely dielectric. Extremely rigid and will not warp. Made of genuine walnut, finished either plain or two tone with a darker border separated from the body of the panel by beautiful Marqueterie inlay. Panel thickness $\frac{3}{16}$ inch. Average shipping weight, 3 pounds.

Rich Grain Walnut Face and Back

No.	Size	List	Net
3R5800	7x18	\$2.52	\$1.49
3R5801	7x21	2.94	1.72
3R5802	7x24	3.36	1.94
3R5803	7x26	3.64	2.10
3R5804	7x28	3.92	2.30
3R5805	7x30	4.20	2.47

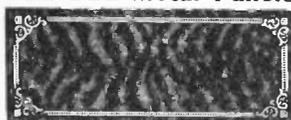
Inlaid Walnut Two-Toned with Marqueterie Inlays as Illustrated

No.	Size	List	Net
3R5806	7x18	\$6.52	\$3.84
3R5807	7x21	6.94	4.08
3R5808	7x24	7.36	4.33
3R5809	7x26	7.64	4.49
3R5810	7x28	7.92	4.67
3R5811	7x30	8.20	4.87

Two-Tone Walnut Face—Mahogany Border

No.	Size	List	Net
3R5818	7x18	\$3.15	\$1.85
3R5819	7x21	3.68	2.07
3R5820	7x24	4.20	2.47
3R5821	7x26	4.55	2.68
3R5822	7x28	4.90	2.83
3R5823	7x30	5.25	3.09

VEE DEE Metal Panels



Beautifully finished in attractive walnut grain. Readily drilled with ordinary bench drill and may be used for all standard kits. Border in rich etched effect. Thickness about $\frac{1}{16}$ inch. Av. shpg. wt., 3 lbs.

No.	Size	List	Net
3R5812	7x18	\$1.80	\$0.98
3R5813	7x21	2.10	1.10
3R5814	7x24	2.40	1.32
3R5815	7x26	2.60	1.48
3R5816	7x28	2.80	1.55
3R5817	7x30	3.00	1.66

Panel Brackets Shelf-Supporting Brackets

Assembles sub-panel firmly to front panel. Depth, 6 1/2 in. Takes sub-panels up to 8 in. deep. 2 in. high, plenty of room for wiring, resistances, etc. Nickel finish. Shipping weight, 12 ounces. 3R5719—Per pair. List, 70c. **42c**

Benjamin Adjustable Brackets

Meet practically any requirements. Fit any slope of panel. Adjustable distance to bottom of cabinet. Adjustable length. Made of brass nickel plated. Shpg. wt., 1 pound. 3R4116—Per pair. List, \$1.25. **74c**

Panel Mounting Bracket

Cast aluminum brackets for mounting sub-base and front panel. For 7 inch high panels, depth 7 1/2 inches. Shpg. wt., 1 lb. 3R5720—Pair. List, \$1.50. **90c**

Bakelite or Phenoline Panels

This product has been used for many years in radio work. Made of laminated stock, impregnated with phenol compounds. We supply best grade bakelite or phenoline panels which are chemically and mechanically similar. Machine well without chipping. Won't warp. Waterproof. Attractive natural polished black finish can be sand or oiled. Average shipping weight, 3 pounds.

$\frac{3}{8}$ Inch Thick			$\frac{1}{2}$ Inch Thick		
No.	Each	Size	No.	Each	Size
3R4920	\$0.58	6x7	3R5601	\$0.58	6x7
3R4921	.77	6x10 1/2	3R5602	.92	6x10 1/2
3R4922	.85	7x12	3R5603	1.25	7x12
3R4923	1.27	7x14	3R5604	1.25	7x14
3R4924	1.36	7x18	3R5609	1.25	7x18
		7x21	3R5603	2.10	7x21
		7x24	3R5604	2.40	7x24
		7x26	3R5607	2.55	7x26
		7x28	3R5608	2.78	7x28
		7x30	3R5611	3.05	7x30
		8x30	3R5612	3.80	8x30
		8x14	3R5610	1.90	8x14

Supplied only in $\frac{3}{8}$ in. size

Walnut Finish

Same as above but rich figured Walnut finish. Average shipping weight, $\frac{3}{4}$ lbs.

No.	Size	Each
3R4928	7x18 1/2	\$1.36
3R4929	7x18 3/4	1.75
3R4930	7x21 3/4	2.10
3R4931	7x24 3/4	2.45
3R4932	7x26 3/4	2.55
3R4933	7x28 3/4	2.78
3R4934	7x30 3/4	3.05

Bakelite or Phenoline Sub-Panels

Sizes cut especially for use as sub-panels. Average shipping weight, 2 pounds.

No.	Size	Thickness	Each
3R4935	3x17 1/2	$\frac{3}{16}$	\$0.75
3R4936	3x17 1/2	$\frac{1}{8}$	1.15
3R4937	3x20 1/2	$\frac{3}{16}$	1.28
3R4938	3x23 1/2	$\frac{3}{16}$	1.52
3R4939	3x25 1/2	$\frac{3}{16}$	3.40
3R4940	3x17 1/2	$\frac{3}{16}$	2.37
3R4941	9x20 1/2	$\frac{3}{16}$	2.84
3R4942	9x23 1/2	$\frac{3}{16}$	3.05
3R4943	9x29 1/2	$\frac{3}{16}$	4.30

Special Size Panels

We can supply bakelite or phenoline panels in any size or thickness, either black, mahogany or walnut finish. Remit full value of panel with order. Cannot be exchanged.

3R4944S— $\frac{1}{8}$ inch thick.	Per sq. inch. Net.....	1 1/4c
3R4945S— $\frac{3}{16}$ inch thick.	Per sq. inch. Net.....	1 1/4c
3R4946S— $\frac{1}{4}$ inch thick.	Per sq. inch. Net.....	2 1/4c

Minimum charge, \$1.00 per order.

Panel Engraving

Engraving and lettering on any style panel, either one already drilled or on new panels. When ordering, please send layout showing exact lettering and location.

3R4947S—Price, per letter or figures. **4c** Minimum charge per panel, \$1.00.

Base Boards

Used as support for parts used in set. Fastens to panel with use of shelf brackets. Made of plywood. Thickness approximately $\frac{3}{8}$ inch. Shipping weight, 1 to 9 lbs. Size given is in inches.

No.	Size	Each	No.	Size	Each
3R5638	6 1/2 x 6	18c	3R5644	9 x 23	45c
3R5643	6 1/2 x 13	21c	3R5649	9 x 25	45c
3R5646	6 1/2 x 17	23c	3R5654	9 x 29	55c
3R5645	8 1/2 x 23	45c	3R5674	14 x 17	50c
3R5651	9 x 17	35c	3R5675	14 x 20	50c
3R5652	9 x 20	39c	3R5676	14 x 29	65c
			3R5677	14 x 29	75c



Bakelite Brackets

Genuine bakelite, not metallic brackets to support sub-panels. $\frac{3}{8}$ inches long, $\frac{1}{2}$ inch thick. No effect on circuit. Shipping weight, 10 ounces. 3R5723—2 in. wide. Pair. List Price, \$1.00. Net. **59c** 3R5724—1 in. wide. Pair. List Price, \$1.00. Net. **59c**

Goodrich Silvertown Hard Rubber Panels

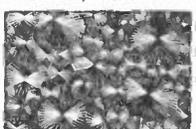
Acknowledged by those who know to be the best hard rubber panels made for radio purposes, yet they cost no more than inferior makes.

A special insulation for radio purposes. The choice of set builders and engineers. Wonderful smooth high polished finish eliminates losses caused by moisture gathering on surface of ordinary insulation. Made of special compound having a rubber base. Can be drilled or cut without chipping. Will not warp. A perfect insulator for radio use. Smooth, clean edges. Thickness, $\frac{3}{16}$ inch. Average shipping weight, 3 pounds.

BLACK		Panel Size, Inches	MAHOGANY	
No.	Each		No.	Each
3R5618	\$0.51	7x10	3R5624	\$0.59
3R5619	.58	7x12	3R5628	.72
3R5620	.75	7x14	3R5629	.88
3R5623	.93	7x18	3R5630	1.14
3R5621	1.09	7x21	3R5631	1.32
3R5622	1.25	7x24	3R5632	1.47
3R5626	1.37	7x26	3R5627	1.68
3R5633	1.47	7x30	3R5634	1.85

Florentine (Frieze) Panels

A new and distinctive panel of rich, attractive appearance and improved service; greatly adds to the appearance of any set. Blend it with any cabinet or scheme of interior decoration; makes an instant appeal. Made of best quality hard rubber compound, one side finished in florentine (crackled) design, the other a rich figured walnut. Will not scratch easily, show finger prints nor smudge. A real low-cost panel, easy to drill and engrave. Thickness, $\frac{3}{16}$ inch. Average shipping weight, 3 pounds.



No.	Panel Size, Inches	Each
3R5584	7x18	\$1.15
3R5585	7x21	1.45
3R5586	7x24	1.62
3R5587	7x26	1.79
3R5588	7x28	1.85
3R5589	7x30	1.95

Panel Engravings

AERIAL GROUND GRID TUCKLER OFF
INCREASE PRIMARY TELEPHONE NO.
VARIOMETER POTENTIOMETER INPUT
← + + + → VOLTS ON
A BATTERY BATTERY DETECTOR
R.F. METERS CRYSTAL TEL. CHARGE
D1234567890 C.W.A.F. OUTPUT
AUDIOREAD RADIO FREQ. DETECTOR
SWITCH LOADING COIL VARIOU COUPLER



DETECTOR

A complete set of transfers in neat white lettering for marking connections, dials, like real machine engravings, contrasts neatly on black walnut or mahogany panels. Plenty of titles for the largest set. Lettering at right is actual size. Shipping weight, 2 ounces. 3R5701—Per Set. List, 50c. **19c**

Radio Brackets

Nickel finish Brackets for mounting tubes, coils, grid leaks and base board. Shpg. wt., 2 oz.

3R5711	(-1475)	5/8 x 1 1/2 x 3/2	16c
3R5712	(-1476)	3/4 x 1 1/2 x 3/2	25c
3R5713	(-1490)	3/4 x 1 1/2 x 1 1/2	20c
3R5714	(-1505)	5/8 x 1 1/2 x 1 1/2	16c
3R5715	(-1506)	3/4 x 3/4 x 1 1/2	16c
3R5716	(-1507)	1 1/2 x 1 1/2 x 1 1/2	20c
3R5717	(-1508)	3 1/2 x 1 1/2	16c
3R5718	(-1509)	7/8 x 3/4 x 1 1/2	20c

Better Quality Antenna - Best Values!!

SUBANTENNA—The New Underground Antenna System that Improves Reception



Subantenna is an entirely new principle of antenna system. It completely replaces the outdoor, up-in-the-air type of aerial. You no longer have to be bothered with how you will place an outside aerial; how long it will have to be; how it will be interfered with by others—all these and every other outside aerial problem is wiped out by this better, improved method of getting radio reception.

Down in the ground, where this Subantenna is installed, there is no interference; no need to check up once it is in; no further attention of any kind is required.

What is more, this Subantenna becomes a scientifically designed radio wave builder—it sorts the actual radio impulses from the static and other nuisance noises, and delivers the purified radio waves to the set.

Delivers "Purified" Radio Waves to the Receiver

Subantenna is not just a wire; it is a wave filter as well. It sifts the noises out of the electrical impulses, leaving nothing but the pure, clear tonal values that, after all, are what you want a radio for.

Put in one of these Subantennas; it will be a revelation to you. No one who has ever tried one would think of going

back to the old outside type, that requires constant watching, and always leaves you in doubt whenever there is the slightest fault with reception. With this Subantenna installed, you have a permanent trouble-free antenna that will never vary in its wonderful clarity, and will give you uninterrupted, uniform service year in and year out.

Once Installed, It Needs No Further Attention

Subantenna does not deteriorate with age. The longer it remains in the ground, the better it works. It is like rare old wine, constantly improving as time goes on. Once it is in place, you can forget your antenna problem completely.



3R2636
List, \$7.50.

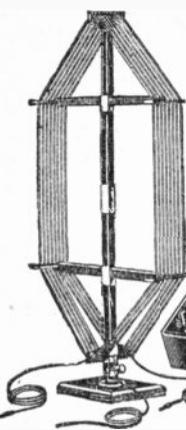
Your Wholesale
Net Price, Only

\$ 4.41
Net

MATHIESON LOOPS Master Console

Has very large volume with exceptional selectivity. Open it measures 40x21 inches, and can be folded into box 22x15. Has dark green silk-covered wire, and is wound in single turns. Frame of solid walnut, with metal parts gold plated and Bakelite arms, also three taps. Revolves on its base. Turning it in the proper direction tunes out objectionable interference. It thus serves as a wave trap.

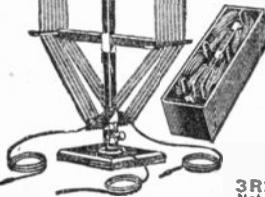
3R249—List, \$12.50. Net.... **\$7.35**



Baby Console

Smaller in size than the Master Console. Takes less space to receive. Ideal Loop for the home. Has good volume and is very directional. Built especially for Super-Heterodyne circuits. Wound in single turns with 3 Taps. When set up measures 30 x 14 inches and folded, 15x4.5.

3R250—List, \$12.50. **\$7.35**
Net.....



New Model Fiat Bank Wound Loops

Solid American walnut frame with natural lacquer finish; requires only small space; turns on a seven inch radius. Has center tap. Extremely flexible stranded wire of highest efficiency. 1 3/4 in. wide, 30 in. high. Weight, 2 lbs.

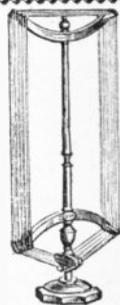
Strands keep taut at all angles, insuring precision results at every turn and in every direction. Very easy to handle, and sensitive to an astonishing degree. Beautifully finished.

Laboratory Test

Self inductance, 0.00019 Henries; distributed capacity, 17.38 M.M.F.; natural wave length, 108 Meters; Resistance at 1,000,000 cycle, 8 ohms; Wave band covered with .0005 M.F.; Condenser, 180 to 600 Meters.

3R245—List Price, \$12.50.

Net, Wholesale



\$7.35
Net

Bodine De Luxe Loops

Turning radius only 6 inches. Ideal for building into large consoles. Solid walnut, rubbed finish. Copper wires, stranded with large phosphor bronze wires, silk covered. Low capacity 3 contact jack in bakelite base. Base can be mounted on set if desired. Center tap. Loop height, 26 in. Shipping weight, 5 lbs.

Beyond question one of the finest loops made, and a great favorite with critical DX fans. Its sharpness and extreme sensitivity give it an astonishingly wide range.

3R241—Standard for sets with .0005 condensers. List, \$12.00. Net... **\$7.06**

3R243—De Luxe for sets with .00035 condensers. List, \$12.00. Net...



Qualitone Loop Collapsible

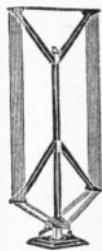
Woodwork is solid walnut, rubbed finish. All metal fittings heavily nickel-plated. Wire spacers are of best insulating material, eliminating losses. Finest grade silk braided stranded wire. Three long flexible leads with phone tips. Exclusive thumbscrew adjustment always keeps wire taut and in line. Size erected, 34x16x3 3/4 inches. Packed, 4 1/2 x 7 x 14 inches. Shipping weight, 4 lbs.

Extremely sensitive, and a loop which can be depended upon to bring in the broadest with a minimum of distortion and losses. Completely insulated. Equally efficient in any position.

3R246—List, \$10.00. Net..... **\$5.88**

Qualitone De Luxe Model Same size and characteristics, but more richly made and finished.

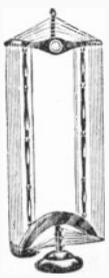
3R240—List, \$12.50. Net... **\$7.35**



The New VEE Coil Antenna Especially Adapted to Victoreen Universal Circuit

Combines very attractive and ornamental appearance with all the requirements which provide the best in loop reception. Extremely directional, being quiet on over 200 degrees. Wires widely spaced—low distributed capacity. Turns of equal length, thereby lessening interference. Low resistance which tends toward sharper tuning. One of the finest loops ever made. Shipping wt., 5 lbs.

3R244—List, \$15.00. Net.....



\$8.83

TALKING TAPE The Perfect Radio Aerial

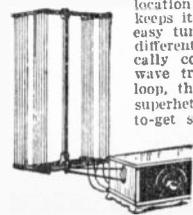


For use in places where it is inconvenient to erect an outside aerial or for receiving sets sufficiently powerful to give good reception with an inside aerial. Talking Tape can be strung around the room, behind picture moulding, under rugs, etc. It is woven fibre tape about 1/2 inch wide with interwoven metallic strands running lengthwise of the tape, giving it a very neat appearance. Laboratory tests have shown this type of indoor aerial to be highly sensitive in reception, bringing in surprising distance with good selectivity and ample volume. Rolls of 100 ft. Slip. wt., 1 lb.

3R2703—100 ft. roll. **59c**
List, \$1.00. Net.....

Signal Cabinet Loop

Supported with bracket of cast aluminum which may be fastened to cabinet, console for other flat surface. Portable, folds like umbrella. Over 100 feet of silk-covered nonkinkable wire on bakelite spreaders. Base and arms beautiful walnut finish. Special tap for superhets operating on shorter aerials. Makes a permanent location for the aerial, and keeps it in fixed position, for easy tuning and adjusting to different wave lengths, practically converting it into a wave trap. A very sensitive loop, that is a great help to superhets in finding the hard-to-get stations.



3R242
List \$8.50 **\$5.00**
Net

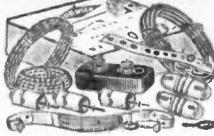
3 BIG AERIAL KIT BARGAINS



3R2631
List, \$2.00
83¢
NET

Standard Kit

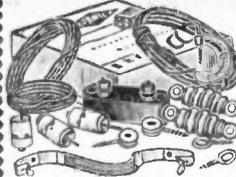
Contains—100 ft. coil special seven strand aerial wire; 25 ft. rubber covered lead-in wire; 1 standard approved lightning arrester; 2 porcelain insulators; 1 window lead-in strip; 1 quick adjusting ground clamp; 2 porcelain nail knobs; 2 galvanized screw eyes. No skimping in this kit. Ship. wt., 5 1/2 lbs.



3R2632
\$1.65
Net
10 Lots
\$1.55

Special Kit

Contains—100 ft. special seven strand (about 7-22) copper aerial wire; 40 ft. rubber covered lead-in wire; 1 standard approved lightning arrester; 2 porcelain insulators; 1 window lead-in strip; 1 quick adjusting ground clamp; 3 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. No. 18 flexible rubber covered hook-up wire. Ship. wt., 6 lbs.



3R2633
\$2.38
Net
Lots \$2.28
DeLuxe Kit

Contains 100 ft. 7-22 (seven strand) enamel aerial wire; 50 ft. rubber covered weatherproof lead-in wire; 1 Brach Storm King lightning arrester; 2 glass insulators; 1 window lead-in strip; 1 Ekko ground clamp; 3 porcelain nail knobs; 2 galvanized screw eyes; 25 ft. No. 18 flexible rubber covered hook-up wire; 2 porcelain stand off screw eye insulators. Ship. wt. 6 1/2 lbs.

Spring Coil Antenna



Used as an indoor aerial gives excellent results. Does not equal an outdoor aerial, but with sets having two stages of audio amplification it brings in stations as far distant as 400 to 1,000 miles. Consists of 100 feet of brass wire coiled into a spring about 2 feet long. Stretches out to nearly the full 100 feet. Ship. wt., 2 1/2 lbs.

3R2607
List \$1.25

56¢
Net
10 Lots 54c Ea.

Wall Mounting Insulator

3R2603—With 3 inch long screw. Each... 4c
3R2604—With 7 inch long screw. Each... 7c
Dozen... 58c
For attaching lead-in or ground wire to posts or side of building. Wire passes through center of porcelain insulator which is mounted in galvanized screw eye. Ship. wt., 4 oz.



Glass Insulators

Special tempered glass unaffected by heat or cold or other atmospheric conditions. Finest quality. Approximately 4 inches long. Ship. wt., 6 oz.
3R2615—List, 10c. Net... 7c
10 for... 56c



Porcelain Aerial Insulators

Glazed porcelain, deeply corrugated to prevent leakage. Holes at each end for attaching wires. Ship. wt., 1/2 lb.
3R2622—2 1/2 inches long. Each... 4c
Dozen... 32c



3R2623—4 inches long. Each... 10c
Dozen... 58c

3R2624—5 inches long. Two for... 17c

Porcelain Strain Insulator

3R2627—100... 65c
100... \$1.80
Designed especially for insulating extra long aerials or guy wires. Extra strong. These insulators will help prevent antenna troubles. Ship. wt., dozen, 4 lbs.



Type 260 Wall Insulator

3R2621
List, 25c
12¢
Net



May be used inside to support wiring or instruments, or may be used outside for supporting lead-ins or ground wires. Two of these insulators with a threaded rod connecting them make an excellent lead-in combination. Glazed brown porcelain. Each insulator is equipped with nuts and washers assembled as shown above. Dimensions: 2 1/2 x 2 1/2 x 2 in. Shipping wt., 8 oz.

New Aero Indoor Aerial Kit

Comes with 100 ft. of insulated indoor aerial cord, and 12 enamel thumb tacks. Easy to put out of sight behind picture moulding. Installed in a jiffy. Great for local reception. Eliminates static. Different from all other indoor tapes and cords because the new insulation forms a positive low-loss covering. Ship. wt., 1/2 lb.
2R2620—List, \$1.00. Each, Net... 59c



Antenna Wire

Full 100 ft. coils, best grade copper wire. Shipping wt., 2 1/2 lbs.

Bare Copper Wire

Single Lots lots ea. of 10.

3R2625—7 strands of No. 22... 37c
3R2611—7 strands light No. 24... 23c
3R2629—No. 14 solid... 27c 26c

Enameled Copper

Highest quality enamel. Will not chip nor peel. 100 ft. Coils.
3R2610—7 strands of No. 24. Each Coil... 33c
10 lots. Each... 32c
3R2606—7 strands of No. 22. Each Coil... 50c
10 lots. Each... 48c

Bell Wire

3R2613—50 ft. coil... 18c
Size 18 copper wire insulated with paraffined cotton braid. For connecting batteries, etc. Ship. wt., 1/2 lb.

Antenna Lead-in

3R2601—0 in. special. Each... 7c
10 lots, 65c
3R2630—Miter lead-in. R.M.A. standard. Impregnated tape. Each... 12c
10 lots... \$1.15
3R2635—Electrad lead-in. Highly impregnated tape, wide timed copper strands. Soldered Fahnestock clips, 18 in. long. List, 25c. Net, each... 14c



Collapsible Ground Pipe

A perfect, efficient and noiseless ground. Pipe consists of three 2-ft. sections. Drive one, then screw on next. Never unwieldy; as long as needed. Copper point to which is soldered lead-in wire. Drive it in basement, under porch, or wherever convenient.
3R2618—List, \$1.75. Net... \$1.02



Braided Ribbon Antenna

A new flat braided ribbon antenna made of 25 strands of high grade copper wire braided into a strong, flexible ribbon and great in volume. 100 ft. coil contains nearly 1/2 mile of single wire strands—this large surface area gives maximum attractive and conductive surface for radio waves. Its flexibility and strength makes it ideal for both outdoor and indoor use. Shipping weight, 3 lbs.
3R2600—Per 100 ft. Coll. List, \$1.50. Net... 83c

Flexible Insulated Wire 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 tan colored cotton braid. Ship. wt., 1 1/2 lbs.
3R2616—Single wire... 42c
3R2617—100 feet... 74c

Lead-In Wire

Insulated copper wire. Used for lead-in and ground wire. Also makes good aerial wire where trees or other objects might come in contact with aerial.
3R2612—Black wire. Outer waterproof black cotton braid. Wire size No. 14. 50-ft. coils. Each... 46c



Paragon Radio Ground

The perfect radio ground that reduces static and interference to a minimum—increases volume and selectivity—eliminates the aerial entirely if desired—improves tone. The ground has a full copper welded solid wall cone—no solder—no mechanical connections—no destructive electrolysis possible. The interior is filled with pure grain charcoal which absorbs and holds the moisture. This insures good earth connection at all times, with low-impedance resistance. 20 ft. of heavy enameled wire is spot welded to the ground making a direct connection to the set. The Paragon will make radio a pleasure all the year round. 12 inches long. 4 inches wide at base. Easily installed. Ship. wt., 15 lbs.
3R2638—List, \$5.50. Net... \$3.23

3R2638
List \$5.50
\$3.23
Net



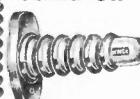
Nifty Ground Clamp

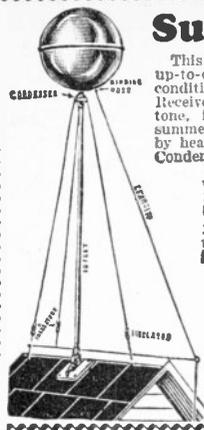
Made of tin, copper and brass. Adjustable from 1/2 to 1 1/4 in. pipe diameters. The screws bore to a positive contact with the pipe, regardless of surface corrosion or irregularities. No tool required or no soldering necessary. Ship. wt., 4 oz.
3R2637—List, 15c. Net, each... 10c



Stand-Off Insulators

Made of porcelain, packed in cartons with 2 brass screws and leatherheads for use as a cushion under the screw heads. 4 inch lengths only. For finest antenna installations. Ship. wt., 4 oz.
3R2614—4-in. NET... 12c





Super-Ball Antenna

This great new invention is making quick money for up-to-date dealers. Efficient with any set under all conditions. Makes friends and repeat sales everywhere. Receives all wave lengths, is nondirectional, clarifies tone, increases selectivity, minimizes static, improves summer reception. Shields low and snow. Not affected by heat. Easy to install. Diameter of ball 10 inches. Condenser is built into ball. No rod included. Uses 1/2-inch iron pipe. (See page 214). Shipping weight, 4 pounds.

3R2725—Retail Price, \$7.50. **\$4.41**
 Net Price, wholesale

3R2726—Base to hold pipe used with antenna to roof. Retail, 50c.
 Net Price **34c**

Super-Ball Accessory Kit

Consists of 50 ft. lead-in R. C. wire No. 14, 50 ft. Copper Guide Wire, Ground Clamp, Branch lead-in, nail knobs, screw eyes and eyes and 10 ft. of rope. Ship. wt., 18 lbs.
3R2727—List, \$4.00. Net, **\$2.35**

The Cage Antenna

by Supertron

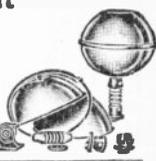
Improves reception on local and distant stations. Eliminates interference, makes tuning sharper and picks up the weaker signals—may be mounted at any angle on roof top, window ledge, against wall or anywhere OUTSIDE. Consists of 100 feet of enamel covered aerial wire concentrated into a compact cage unit. 100% insulated with moulded bakelite frames. Comes complete including pole and bracket—nothing else to buy. Very easy to install. Stands 6 feet high when erected. Shipping weight, 5 pounds.
3R2741—List, \$10.00. Net **\$5.88**

Improves reception on local and distant stations. Eliminates interference, makes tuning sharper and picks up the weaker signals—may be mounted at any angle on roof top, window ledge, against wall or anywhere OUTSIDE. Consists of 100 feet of enamel covered aerial wire concentrated into a compact cage unit. 100% insulated with moulded bakelite frames. Comes complete including pole and bracket—nothing else to buy. Very easy to install. Stands 6 feet high when erected. Shipping weight, 5 pounds.
3R2741—List, \$10.00. Net **\$5.88**



Morris Ball Aerial Kit

Easily installed. Improves reception. Several of these aerials can be placed close together without causing interference. Ball is 10 inches in diameter and has adjustable roof bracket. Smooth, all aluminum surface stays bright. Comes complete with glass insulator and washer. Shipping weight, 5 pounds.
3R2743—List, \$3.00. Net **\$2.94**



Collapsible Steel Aerial Mast

Made of tubular steel sections telescoping one within the other, for convenience in handling and erecting. Clamp locks mast at length desired. They are light in weight but very strong. Will fit any roof of any slope.

3R2733—Extended length 7 feet. Collapsed length 4 feet. Ship. wt., 8 lbs. List, \$2.50. Net **\$1.50**

3R2734—Extended length 10 feet. Collapsed length 4 feet. Ship. wt., 10 lbs. List, \$3.50. Net **\$2.10**

Porcelain Base Switches



For many radio uses, especially as ground and aerial switches. Copper contacts and blades. Shipping weight, 10 ounces.

3R2714—Single pole, single throw. Each **14c**

3R2715—Single pole, double throw. Each **22c**

3R2716—Double pole, double throw. Each **31c**

3R2717—Double pole, single throw. Each **24c**

Fahnestock Antenna Connector

Makes secure connection on aerial wire without soldering. Easily attached. Shipping weight, 2 ounces.

3R2713—Each **10c**
 Dozen **95c**

Antenna Spring Tightener

Spring with 2 porcelain strain insulators on either end. Takes up slack in aerial. Useful when antenna is attached to a swaying object like a tree. Shipping weight, 1 1/2 pounds.

3R2702—Each **25c**
 Ten for **\$1.65**

Aerial Pipe-Mast Fittings

For the perfect aerial installation. Pulley, collar, and base of iron. Base adjustable and will fit roof of any pitch. Easy to mount. Weight, 5 lbs.

3R2732—Set of 3 pieces for 1/2-in. pipe. Your Price **55c**

2R2735—Set of 3 pieces for 1-inch pipe. Wt., 6 lbs. Your Price **\$1.50**

Dubilier Light Socket Aerial



Eliminates outside aerial. Equipped with famous Dubilier condensers to insure quality. Just connect it to the set and plug into light socket. Approved by Underwriters. Shipping weight, 8 ounces.
3R2700—List, \$1.50. Net **88c**

Muter Antenna Plug

Provides noiseless reception from any light socket. Simply screw in light socket. Replaces outdoor aerials. Excellent results are obtained. Shipping weight, 8 ounces.
3R2699—List, 60c. Net, each **36c**
 Lots, each **32c**



The Clarostat Antenna Plug

Makes any socket or convenience outlet an antenna. Improves radio reception whether used alone or as a "booster." In combination with usual antenna or loop. Usually adds more distance and selectivity to any set as well as eliminates a great deal of static.
3R2724—List, \$1.50. Net **88c**

Tobe Four Purpose Light Socket Aerial



The Tobe Four Purpose is a new type of light socket aerial, making for the most convenience in the home. Not only does it not use current, but, due to the receptacle which is attached to it, you do not even know it is there. Your Electric Lamp, your Electric Radio set or any electrical appliance may be plugged in without interference to the set. Light may be used as an antenna, a ground, a light socket, and it minimizes static. Guaranteed for two years. Shipping weight, 8 ounces.
3R2707—List, \$2.00. Net **\$1.18**

DX Lifetime



Aerial

Designed to give the effect of a long aerial in a confined space. Total length over all, 30 feet. Sharpens tuning of set because of short length, but has enormous pick-up because 150 feet of enameled 12-gauge wire is used. Non-corrosive. Completely assembled, all connections soldered or riveted, ready to string up. Rings are heavy gauge solid zinc. Shipping weight, 5 lbs.
3R2708—List, \$10.00. Net **\$5.88**
 Same as above except 60 feet over all length, 300 feet of wire used. Shipping weight, 8 lbs.
3R2706—List, \$12.50. Net **\$7.35**

EFFARSEE ANTENNA

The Ideal Indoor Aerial

Looks like a magnificent tapestry, a 19-color lithograph presenting a reproduction of famous paintings. Something you will be proud to have in your home. Takes the place of and eliminates the outdoor antenna. Will give almost equal distance and volume. Claimed to eliminate 80 per cent of static. Greater selectivity and clearer tone reproduction. Less interference from neighboring electric wires. Has no lightning hazard. Waterproof. For use with any radio receiver requiring an antenna. SIZE: 4 feet wide, 7 feet long. Just right for hanging on picture molding or in hallway. Shipping weight, 5 pounds.
3R2776—List Price, \$9.50. Net, wholesale **\$5.70**

3R2775—Small size, 6 feet long, 3 feet wide, plain (without picture). List, \$2.50. Net, wholesale **\$1.47**



Superior Arrester



A dependable air gap type arrester. Porcelain case. Shipping weight, 10 ounces.
3R2719 **12c**
 Each **10c**

Brach Storm Guard



Made of genuine bakelite. For outdoor installation. Absolutely weatherproof and non-grounding. \$100 insurance policy against lightning for your radio set goes with this arrester. Shipping weight, 1 pound.
3R2722—List, \$1.50. Net **88c**

Made of genuine bakelite. For outdoor installation. Absolutely weatherproof and non-grounding. \$100 insurance policy against lightning for your radio set goes with this arrester. Shipping weight, 1 pound.
3R2722—List, \$1.50. Net **88c**

Brach Storm King Arrester



Made of genuine bakelite. Non air gap principle. For indoor installation. \$100.00 insurance policy against lightning, for your radio set, goes with this arrester. Shipping weight, 1 pound.
3R2723—List, \$1.00. Net **59c**

Brach Arrester



Intended for outdoor use. Attaches directly to antenna or lead-in wire. Binding post on bottom for ground wire. Enclosed Vacuum cartridge insures maximum protection. \$100 insurance policy against lightning for radio sets goes with this arrester. Shipping weight, 1 lb.
3R2720—List, \$2.50. Net **\$1.47**

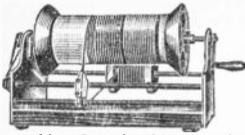
Jewel Lightning Arrester



Small and compact. Weather-proof porcelain case. Underwriters approved. Used inside or outside. Ship. wt., 1 lb.
3R2718—Net **45c**

Coil Winders and Soldering Supplies

Wizard Coil Winder



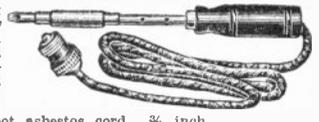
Winds any style coil with silk, enamel or cotton wire of any thickness from $\frac{3}{8}$ to $\frac{3}{4}$ inch diameter up to 10 inches in length. Has adjustable automatic feeder and spacer which spaces wire exactly as wanted. Ratchet gear prevents wire loosening. Insures uniform coils of finest workmanship. Just the thing experimenters and set builders have been looking for. Coils cannot come undone once they have been anchored. Gives that desirable factory touch to the coils. Shpg. wt., 3 lbs.

3R3950—List \$7.50

\$4.90
Net

Our Special Electric Solder Iron

A real quality soldering iron designed especially for radio and electrical use. Medium weight and perfectly balanced. Handle of black ebonized wood. Guaranteed 1,000 hours. Ventilated shank. Full nickel plated, 6 foot asbestos cord, $\frac{3}{8}$ inch and $\frac{1}{2}$ inch interchangeable tips. Separable plug. Nichrome heating element. For 110 to 120 volt current. Shipping weight, 2 pounds.



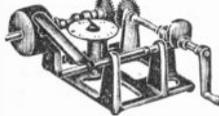
3R4012—List \$2.50

\$1.15
Net

Honey Comb Coil Winder

With this little machine anyone can wind their own Low-Loss Coils, as it will wind the popular honeycomb type coil any width from one-half inch to $\frac{3}{4}$ inch wide, and the diameter may be arranged to suit, by putting various sizes of wooden spools on the winding spindle. Has a recorder for counting the number of turns, which is equipped with an adjustable pointer. Shipping wt., 4 lbs.

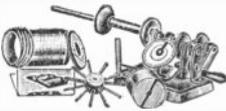
3R3975—Net.....**\$4.75**



Universal Coil Winder

This machine can be used for winding Honey Comb, Spider Web and Solenoid Coils of different widths and diameters. It is an ideal machine for the experimenter and set builder. Coils can be made with it equally as accurate as those produced by factory methods. Each is fitted with adjustable pointer and counter. Shpg. wt., 3 lbs.

3R4017—List Price, \$7.50. **\$4.90**
Net.....



Adjustable Template

Indicates exact location for drilling of holes in panel or base board. Arms are adjusted to position desired and then locked in position by thumb nut. Can be moved without danger of changing adjustment. Shpg. wt., 3 oz.

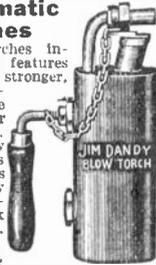
3R3939—List, 50c. Net.....**35c**



Jim Dandy Improved Automatic Blow Torches

These improved torches incorporate many new features designed to make them stronger, easier to hold and easier to use. They have a new type burner which prevents spitting. Strong blast for heavy duty. Burns two hours with each filling. This torch is made of heavy gauge brass, highly polished. Size is 7x4x1 1/2 in. over all. Shpg. wt., 2 lbs.

3R3959—List Price, \$3.00. Net.....**\$1.96**



"Self-Blow" Torch

A high grade, but inexpensive torch. Gives a strong pointed flame. Made of brass, nickel plated. Cleaning wire for nozzle included. Ball packing is used, therefore torch can easily be re-packed by anyone. Size, 6 1/2 x 2 1/2 inches. Shpg. wt., 1 1/2 lbs.

3R4000—Net.....**75c**



McCall's Sure Tite Wire Connectors

A style for every need. Locking screw or spring grip provides firm contact. Made of brass nicely nickleed.

- No.1. 3R3953—No. 1 Cord tip.
- No.2B. 3R3954—No. 2B Spade tip.
- No.3. 3R3955—No. 3 Wire Splicer.
- No.4. 3R3956—No. 4 Spring connector takes cord tip or bus wire.
- No.5A. 3R3957—No. 5A Cord tip jack. Has screw and washer for mounting. List, each, 10c. Lots of 10.....**\$0.65** Lots of 25.....**1.50**

3R3958—Double Cord Tip Jack, one tip similar to 5A threaded to receive other tip which has extension. Lot, 10 pair.....**\$1.00**

Wire Connectors

Eliminates soldering. Make practically any kind of radio connections—two or three wires, straight or T connected. Positive, permanent contact. Nickel finish.

3R3940—Net per Dozen.....**89c**

Rosin Core Solder

Requires no flux because rosin has been moulded into the core of solder wire. Best for fine radio connections and electrical work. Shipping weight, 6 ounces.

3R4013—4 ounces. List, 25c. Net.....**17c**

3R4014—8 ounces. List, 25c. Net.....**28c**

Wire Solder

A composition of half tin and half lead. Diameter, 1/8 inch. Very convenient for soldering in close quarters. Ideal for radio work. Shipping weight, 11 ounces.

3R4014—8 ounces. List, 25c. Net.....**28c**

Solder Paste

A non corrosive soldering flux. Makes possible a secure mechanical and perfect electrical connection.

3R4016—2 oz. Can. Net **10c**

Genuine American Beauty Soldering Iron

A famous brand that has stood the test of time. Entirely free from hazards caused by flame, combustion, explosion, acid fumes and injury to the eyes. The first two sizes are for light and medium work, the others for heavier work. Thousands are in use on steady factory production work.

Watts	Diam. of Tip	Length	Weight	List	Net
3R4009—50	1/8 in.	11 in.	10 oz.	\$ 4.80	\$2.93
3R4002—100	1/4 in.	12 1/2 in.	18 oz.	8.00	5.25
3R4003—200	3/8 in.	13 in.	28 oz.	9.25	6.20
3R4004—300	1/2 in.	13 1/2 in.	42 oz.	11.50	7.67
3R4005—Extra Tips, 3/8 in. size.		List, \$0.60.			.45
3R4006—Extra Tips, 1/2 in. size.		List, 1.20.			.90
3R4007—Extra Tips, 3/4 in. size.		List, 1.90.			1.43

"Press-to-Feed" Solder Iron

Easy to solder with this new iron. Wire solder is held in magazine. Press of the trigger feeds as much solder as is wanted to point. Leaves other hand free to handle work—speeds soldering. Its instant sales appeal makes it a big seller for you. Shipping weight, 2 1/2 pounds.

3R3951—List, \$3.75. Net.....**\$2.48**

Radio-Electric Soldering Outfit

Very high grade, carefully designed and carefully built. They are used in hundreds of industrial plants, proving their ruggedness and dependability. For use on 105 to 115 volt current. Complete with 6-foot cord and attaching plug. Shpg. wt., 2 lbs.

3R4010—3/8-inch point.....**\$3.50** **\$2.34**

3R4011—1/2-inch heavy point, 5.00 **\$3.35**

Self Heating Soldering Outfit

Self-heating. Ideal for radio, electric and light general soldering. One filling of 2 ounces of gasoline is enough to keep copper at correct soldering temperature for about 20 minutes. Extensively used for aerial soldering, even where electric current is available. Flux and small piece of solder included. Shpg. wt., 3 lbs.

3R4008—List, \$3.00. Net.....**\$2.10**

Ready Hot Soldering Iron

Safe, Non-Explosive and Portable. Every radio fan does find time to tinker. Set consists of a metal stove, burning alcohol as fuel; two soldering irons, one for heavy duty work, the other for the finer radio soldering; a box of soldering flux and sal ammoniac abrasive tape; two generous sticks of solder, and complete instructions for fueling, lighting and using this outfit. Shpg. wt., 2 1/2 lbs.

3R4025—Complete.....**69c**

Solderall

A combination solder and flux in handy paste form. A little Solderall on the connection and the heat of a match or iron will form a perfect connection.

3R4015—List, 25c. Net.....**16c**

Special Socket Wrench Set



A specially selected set of five detachable sockets, together with handle—a mighty useful addition to your radio tool chest. Fine quality steel. Sizes: $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch for turning knurled nuts. Ship. wt., 1 1/2 lbs. **3R3949**—List Price, 75c. **48c** Each, net.

Socket Wrench Set for Knurled Nuts

3R3944—Same construction as above except designed for use with knurled nuts. Ship. wt., 1 lb. Net. **44c**

Hexagon Nut Wrenches

3R3908—Set of five. **48c** NET
Fit $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch hexagon nuts. Hollow stems take projecting screws. Reach nuts in limited spaces. The necessary tight connections can be quickly and easily made. Wood handle. Strong metal stems. Ship. wt., 1 lb.

3R3900—2-inch blade. Each...
3R3901—3-inch blade. Each...
3R3902—4-inch blade. Each...
3R3903—5-inch blade. Each...
Fine tools. Specially designed for radio screws. Strong, thin blades make it easy to get to any part of set. Size given is blade length. Ship. wt., 6 oz.

4 in 1 Screw Driver

3R3909—Set. **45c**
A handy kit of 4 screw drivers that fit every screw used in radio. All metal. Three small sizes, nest inside largest size. Slip. wt., 14 oz.

3R3900—2-inch blade. Each...
3R3901—3-inch blade. Each...
3R3902—4-inch blade. Each...
3R3903—5-inch blade. Each...
Fine tools. Specially designed for radio screws. Strong, thin blades make it easy to get to any part of set. Size given is blade length. Ship. wt., 6 oz.

Countersink

3R3907—List, 25c. **17c** Net.
For shaping holes in hard rubber, bakelite, fibre, wood, etc., to fit heads of flat-head screws. Shipping weight, 6 ounces.

Reamer

3R3905—List, 25c. **17c** Net.
For enlarging drilled holes to proper size. Perfect for bakelite, hard rubber, etc. Shipping weight, 4 ounces.

Stevens Oversize Reamer

3R3911—List Price, 75c. **50c** Net.
For general utility purposes in radio wherever reaming is required. $\frac{3}{8}$ -in. size. Shipping weight, 6 ounces.

Scriber

3R3933—List, 25c. **17c** Net.
Needle point on each end for marking hair-line. Will go into smallest screw hole. Made of finest steel fully tempered. Ship. wt., 6 oz.

Radio Vise

3R3941—Jaws $1\frac{1}{2}$ in. wide. Length over all, 5 in. Shipping weight, 2 1/2 pounds. Each. **29c**

3R3942—Jaws 2 in. wide. Length over all $6\frac{1}{2}$ in. Shipping weight, 5 pounds. Each. **60c**

3R3943—Jaws $2\frac{1}{2}$ in. wide. Length over all, 8 in. Shipping weight, 8 lbs. **95c** Each.

A necessary device every set builder should have. Moves on threaded horizontal screw. Hardened jaws. Well made of black enameled metal with polished handle and screw.

See Pages 204 to 207 for Additional Tools

Radio Vise

3R3941—Jaws $1\frac{1}{2}$ in. wide. Length over all, 5 in. Shipping weight, 2 1/2 pounds. Each. **29c**

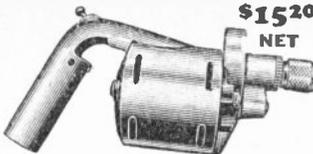
3R3942—Jaws 2 in. wide. Length over all $6\frac{1}{2}$ in. Shipping weight, 5 pounds. Each. **60c**

3R3943—Jaws $2\frac{1}{2}$ in. wide. Length over all, 8 in. Shipping weight, 8 lbs. **95c** Each.

A necessary device every set builder should have. Moves on threaded horizontal screw. Hardened jaws. Well made of black enameled metal with polished handle and screw.

See Pages 204 to 207 for Additional Tools

OUR SPECIAL OFFER RADIO ELECTRIC DRILL



This new drill has been built for the man who owns a tool chest and has always wanted an electric drill but has never felt he could afford one. All home mechanics can now have one at an extremely low price. Opens up an entirely new field for drill sales and profits. An item for quick counter sales. Finest quality throughout. Try one yourself. Capacity, $\frac{3}{4}$ inch. State voltage when ordering. Shipping weight, 6 pounds. **3R3947**—Special Price... **15.20** NET

Tap and Die Set

3R3929—List, 85c. **560** NET

Contains taps and dies to cut 4-36, 6-32, 8-32, 10-32 and 14-32. These are the standard radio size screws and nuts. Each set also includes $6\frac{1}{2}$ -inch long stock and adjustable tap wrench. Shipping weight, 3 pounds.

Scroll Saw with Blade

3R3937—List Price, \$1.00. **69c** NET

Cuts bakelite, metal or wood. Blades 6 inches long. Top of frame, $4\frac{1}{2}$ inches from blade. Blade revolves to any position for sawing. Complete with six blades. A fine quality tool. Shipping weight, $1\frac{1}{2}$ lbs.

3R3938—Extra blades, 19c for 6

Radio Breast Drill

A sturdy breast drill for radio work. Holds drills up to $\frac{3}{8}$ inch. Hand grip at side opposite gear. Breast plate at top. A fine drill for radio and shop work. Ship. wt., $2\frac{1}{2}$ lbs.

3R3948 List, \$2.25 **1.58** NET

Hand Drill

Hold drills up to $\frac{1}{4}$ -inch; will drill up to $\frac{3}{16}$ -inch in bakelite with $\frac{1}{4}$ -inch shanked drills. Handle of polished wood hollowed and with screw top to hold Drills. Shpg. wt., $2\frac{1}{2}$ lbs.

3R3926 \$1.15 NET

Drills

3R3927 Set of four... **29c** NET
Four drills—4-36, 6-32, 8-32 and 10-32

3R3928—Set of seven... **49c**
Seven drills, sizes $\frac{1}{16}$, $\frac{3}{32}$, $\frac{1}{8}$, $\frac{3}{16}$, $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$ -inch. Handy radio sizes.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Radio Wrench Set

3R3906—List, 25c. **17c** Net.
Set of three wrenches in leather case. For all hex nuts measuring $\frac{1}{4}$, $\frac{5}{16}$, $\frac{3}{8}$, $\frac{1}{2}$ and $\frac{5}{8}$ inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shipping weight, 6 ounces.

Meter Hole Adjustable Boring Tool

Cuts large holes in bakelite or hard rubber panels for meters, tube sockets, bezels, etc. Adjustable from $\frac{3}{8}$ in. to 3 in. diam. Fits any carpenter's brace. Shipping weight, 8 ounces. **3R3919**—List, 65c. Net. **44c**



Stevens Adjustable Panel Cutter

3R3910—List Price, \$2.50. **1.85** Net.

An excellent tool for cutting holes in panels. Quickly adjustable from $1\frac{1}{2}$ to 6 inches. Diameter of shank is $\frac{1}{2}$ -inch for convenient brace or machine use. Shpg. wt., 10 oz.

Meter Hole Cutter

Makes clean cut hole through rubber, wood or bakelite. Case hardened steel. Fits carpenter's brace. Shipping weight, each, 4 oz.

3R3920—2 inches. List, \$1.25. Net. **80c**
3R3921—2 1/2 inches. List, \$1.25. Net. **80c**
3R3922—3 inches. List, \$1.25. Net. **80c**

Nut Forceps

3R3912—List, 50c. Net. **35c**
Gives perfect grip on all size knurled hex or square nuts. Made of drop forged steel. Nicely finished. Shipping weight, 12 ounces.

Radio Electric Pliers

3R3913 List, 50c. **35c** Net.
Designed especially for radio and electric work. Slim nose shaped to reach places where space is limited. Wire cutter between jaws. Made of drop forged steel nicely finished. Shipping weight, 12 ounces.

Diagonal Jaw Nippers

3R3915 Each... **45c**
For fine electrical and radio work. Made of hardened tool steel. Cuts wire clean in tight places. A very high grade tool, fine polished finish. Shipping weight, 12 ounces.

Long Nose Pliers

The handiest pliers for radio work. A fine quality tool made of fine hardened tool steel, finely finished. Ship. wt., 12 oz. **55c**

Radio Center Punch

3R3904 Each... **10c** NET
Panels must be prick punched as a starter for the drill. This is a high grade solid steel center punch. Knurled handle, sharp point. Length, 4 inches. Shipping weight, 6 ounces.

Stevens Drill and Counter-Sink

Drills holes through hard rubber or bakelite panels and also countersinks holes in one operation. The $\frac{3}{32}$ -in. drill point takes No. 6 and No. 8 screws. The $\frac{1}{2}$ -in. shank fits every standard drill. Shipping wt., 12 oz. **24c**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**

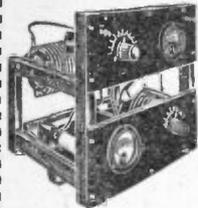
Stevens Reamer

Spiral cutting edge produces true round hole in any material—metal, bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt., 12 oz. **1.33**



Our Special Amateur Section

Radio Engineering Laboratory Transmitter Kits



No. 157. Coupled Hartley

The popular loose coupled Hartley circuit is used in this kit. This is the simplest type of transmitter and will be found extremely easy to place in operation. An excellent crystal amplifier stage is obtained by using the series feed circuit with this kit.

Power supply can be had either through motor generator, rectified AC or "B" batteries.

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

- 3R6430—Type TR-5. Uses 210 Tube. 1 1/2 watts. List, \$56.00. Net **\$50.40**
- 3R6431—Type TR-75. Uses UX852 Tube, 75 watts. List, \$63.00. Net **\$56.70**

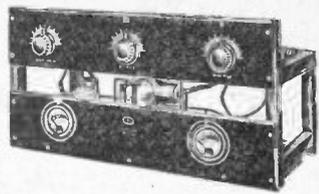
Tuned Plate Tuned Grid

The Most Popular Ham Circuit

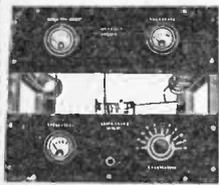
This is one of the most popular present day transmitters. A large majority of short wave stations are employing this circuit.

Very efficient for short wave work. Complete kit of parts. No tubes, batteries nor accessories included. Shipping weight, 20 pounds.

- 3R6437—No. 139. Type TR-5. Uses UX210 Tube. List Price, \$71.00. Net **\$63.90**
- 3R6438—No. 139. Type TR-75. Uses UX252 Tube. List Price, \$80.00. Net **\$72.00**



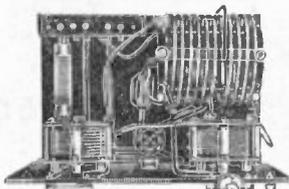
Modulator and Speech Amplifier



Expressly designed for use with any of the oscillator units listed. The general appearance and dimensions are the same as their corresponding oscillators. Used to feed the oscillator tube when using radiophone transmission. With this kit and the oscillator, using pure DC on the plate, a very excellent phone station can be built. Kit contains all parts necessary. No tubes, batteries nor other accessories included. Ship. wt., 20 lbs.

- 3R6435—No. 159. Type MS. For 210 tube—7 1/2 watts. Net Price **\$62.00**
- 3R6436—No. 159. Type M75. For UX852—75 watts. Net Price **\$72.00**

R.E.L. Transmitter

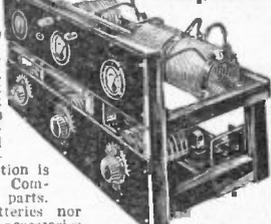


Here is the beginner's ideal short wave telegraph transmitting kit. It is made up of very carefully selected parts specified by the short wave authorities in Q S T. Great distances can be covered on low power with this efficient transmitter. Any type tube may be used—199, 201A, 171, 112, or 210. May be used on any power supply—B batteries, B eliminator, Motor generator or AC from a transformer as long as the voltage is correct for the tube. May be used on any wave length from 15 to 100 meters. Panel size 7x14 inches. Depth 9 inches. Perfectly matches the R. E. L. receiver. Ship. wt. 15 lbs.

- 3R6407—No. 175 Transmitter. List, \$30.00. Net **\$22.50**

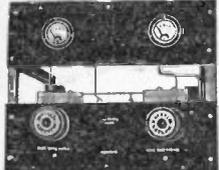
Master-Oscillator-Power-Amplifier

Next to a crystal controlled transmitter the master-oscillator or power amplifier set will put out the steadiest signal. This circuit is recommended where consistent communication is a requirement. Complete kit of parts.



- 3R6439—No. 155. Type TR-5. Uses 2-210 Tubes. List, \$86.00. Net **\$77.40**
- 3R6440—No. 155. Type TR-75. Uses 2-UX852 Tubes. List, \$96.00. Net **\$86.40**

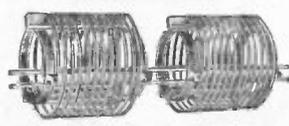
Electrolytic Rectifier



When assembled these rectifier kits furnish complete power supply to the transmitter. Simply plug in to your 110 volt AC house line socket connections. Includes all filter and power apparatus. Also plate and filament volt meters. Uses electrolytic jars for

- 3R6441—No. 153 Type B-10-C. For 5 Watt Kits. List, \$96.00. Net **\$86.40**
- 3R6442—No. 158 Type R-75-C. For 75 Watt Kits. List, \$120.00. Net **\$108.00**

R.E.L. Transmitting Inductances



The finest of low-loss construction. Pyrex glass insulation between turns; flatwise wound nickel-plated copper strip. Suitable for anything from a receiving tube transmitter to a one kilowatt set. Made in two sizes, type L, 5 inches in diameter, for 40, 80 and 150 ohm bands, type S, 2 3/4 inches in diameter for 20 meter band and lower. Single units have three positive contact clips. Double units have primary and secondary with two glass coupling rods and six clips.

- 3R5995—Type L single unit. **\$3.85**
- 3R5996—Type S single unit. **3.85**
- 3R5997—Type L double unit. **7.70**
- 3R5998—Type S double unit. **7.70**

R.E.L. Type "A" Wavemeter

Satisfactory for all general purposes. It is essential in any radio station, both broadcast and amateur. Particularly adapted for short wave receiving and sending stations. Wavelength range 17—550 meters.



- NEON TUBE INDICATOR is supplied with this wavemeter. It is as accurate as any on the market for the same price. Totally shielded—not affected by outside influences. Retains accuracy permanently. Easily read, accurate curve charts included. Shipping weight, lbs. **\$16.50**
- 3R6402—List Price, \$22.00. Net **\$16.50**

Precision Wavemeter

Accurate instrument for laboratory work, for tuning transmitters and all accurate frequency measurements. Straight Line Wavelength constant. Geared vernier, independent indicating circuit. Crystal rectifier, DC milliammeter. Most sensitive type known. Accurately calibrated. Curves furnished. Mounted in walnut case, removable cover has compartment for two extra coils. Size 8x7 1/2 x 10 inches. Weight, 4 pounds.

- 3R6410—10 to 100 meters. List, \$65.00. Net **\$58.50**
- 3R6411—100 to 600 meters. List, \$65.00. Net **\$58.50**

Frequency Meter

Calibrated in megacycles. Consists of two parts, the oscillating circuit and indicating circuit. The meter may be obtained separately if desired. Each is mounted in a walnut cabinet, the two being attached by wingnuts. Pickup coil wound on lake-lite tube. All connecting wires are of heavy copper bus. Calibrated to .2 per cent accuracy. Checked by piezo quartz standard oscillator before leaving factory. Inductive coupled indicator. Milliammeter. Shipping weight, 2 pounds.

- 3R6412—7,000 to 7,300 KC Complete. List, \$31.00. Net **\$27.90**
- 3R6413—3,500 to 4,000 KC Complete. List, \$31.00. Net **27.90**
- 3R6414—Frequency Meter Only. List, \$15.00. Net **13.50**
- 3R6415—Indicator Only. List, \$16.00. Net **14.40**

Portable Radiophone Transmitter and Receiver



Mounted in an aluminum case with carrying handle. Complete short wave transmitter and receiver. Runs from power pack or batteries. Ideal for summer camp, boat, automobile or home use. Phone range—100 miles. CW range 1,900 miles. Two-tube receiver. Uses 112 or 210 power tubes, depending on plate voltage available. Two 361-A tubes in receiver. Uses Hartley Helix Circuit. Three tuning controls. Transmitter may be set and locked on any predetermined frequency. Operates on 25-foot antenna and counterpoise. Bulb indicator. Completely shielded. Plug in coils cover waves from 32 to 120. Weight, 22 pounds.

- 3R6416—List, \$180.00. Net **\$162.00**
- 3R6417—Microphone. List, \$10.00. Net **9.00**
- 3R6418—Key. List, \$5.00. Net **4.50**

R.E.L.-R.F. Choke

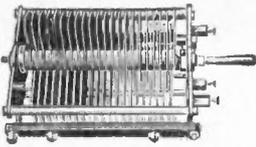


To make your short wave circuits operate properly you must have the proper radio frequency choke coils. Here is a choke designed especially to meet the problem of the amateur. They effectively eliminate the dead spots in your receiver due to antenna harmonics. They also protect the valuable meters in your transmitting circuits. These chokes are wound with triple covered paraffin on a bakelite tube 4 inches long and 3/4 inches diameter. Designed to carry 1,000 milliamperes. Ship. wt., 8 oz.

- 3R6445—List, \$1.10. Net **77c**

Our Special Amateur Section

Cardwell Transmitting Condensers



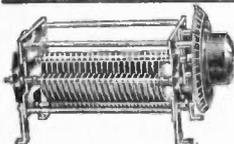
A very popular condenser for amateur stations. Built with the greatest care—rigid construction, wider spacing, high insulation, lower losses, are their main features. Shipping weight, 5 pounds.

Cap. muf.	Type	Net
3R6391	250 141-B	\$ 4.00
3R6392	480 125-B	5.00
3R6393	860 137-B	6.00
3R6394	220 164-B	6.00
3R6395	440 147-B	10.00
3R6396	220 157-B	12.00
3R6397	330 T-199	10.00
3R6398	110 T-183	10.00

Fixed Condensers

Cap.	Type	Net
3R6374	.00625 501	\$ 4.50
3R6375	.00644 502	7.00
3R6376	.00697 503	10.00
3R6377	.00625 504	15.00

*Double stator, capacity each section.



National Transmitting Condensers

One of the finest types of high voltage condensers made. These are double or triple spaced models, ruggedly built of aluminum plates and securely pig tailed. Supplied with National Velvet Vernier dial, 1/2 pointer and completely mounted for quick installation. Ship. wt., 3 1/2 lbs.

Mf.	Volts	List	Net
3R6380	.0001 3000	\$12.50	\$7.35
3R6381	.00015 3000	7.50	4.41
3R6389	.00022 3000	11.50	6.76
3R6382	.00045 3000	16.50	9.70

Hammarlund Transmitting Condensers

Tested to withstand very high potentials.

Max. Cap.	List	Net
3R3461	.0001 mfd.	\$ 6.00 \$3.82
3R3462	.0002 mfd.	7.00 4.46
3R3463	.0004 mfd.	10.00 6.37

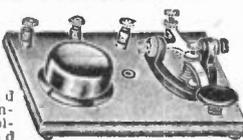


Tobe Transmitting Filter Condensers

These condensers have been especially designed for amateur transmitting purposes and have a high factor of safety. They are individually tested for voltage safety and capacity and are guaranteed within 5% of rated values. The larger sizes are fitted with brass binding posts, the smaller with heavy soldering lugs. They are put up in finished aluminum cases and so constructed to hold their operating characteristics without variation.

Cap. Mfd.	1000 Volts	2000 Volts
1	3R3893 \$ 4.41	3R3896 \$ 5.88
2	3R3894 6.17	3R3897 10.58
5	3R3895 12.64	3R3898 18.82

Code Practice Set



Key and buzzer mounted on a polished wood base. Connect a dry battery to the binding posts on the set, press the key and a buzzing sound will be produced. In a very short time your ear will become accustomed to the various combinations of dots and dashes representing different letters and numerals. Chart included with each set. Base size, 7 inches long by 4 1/2 inches wide.

3R5998—Each \$2.89

Jewell Transmitting Meters

These are the necessary instruments for an amateur transmission. Uniform in size, 3 in. body, 3 1/2 in. flange. Ship. wt., 3 lbs. No. 54 DC.



3R1970—0-10 volts.	List, \$7.50.
3R1971—0-30 volts.	
3R1972—0-10 millamps.	
3R1973—0-25 milliamperes.	
3R1926—0-10 milliamperes.	
3R1927—0-300 milliamperes.	
3R1928—0-500 milliamperes.	

Net \$5.52

Following Equipped with External Resistor

	List	Net
3R1918—0-500 volts	\$15.50	\$11.40
3R1919—0-1000 volts	22.50	16.53
3R1920—0-1500 volts	28.50	20.94

No. 64 Radiation Ammeters

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

3R1907—5 amp.	List \$12.00	Net \$8.82
3R1908—1 amp.		
3R1909—1.5 amps.		
3R1910—3 amps.		
3R1911—5 amps.		

No. 74 AC Voltmeters and Ammeters

For reading transmitting filament voltage AC only. Used only on 60 cycle AC current. Same size as No. 54. Ship. wt., 3 lbs. List, \$7.50. Net..... \$5.50

3R1966—0-10 volts.	For 5 watt tubes.
3R1967—0-3 amps.	
3R1968—0-15 volts.	For 50 watt tubes.
3R1969—0-10 amps.	

Transmitting Grid Leaks

3R6464—5,000 ohms.	For up to 50 watts input. List, \$2.00. Net..... \$1.30
3R6465—5,000 ohms.	For up to 1,000 watts input. List, \$2.80. Net..... \$1.82
3R6466—10,000 ohms.	For up to 1,000 watts input. List, \$4.00. Net..... \$2.60
3R6467—20,000 ohms.	For up to 1,000 watts input. List, \$4.25. Net..... \$2.77
3R6468—15,000 ohms.	tapped at 5,000, 10,000, and 15,000 ohms. For up to 1,000 watts input. List, \$6.00. Net..... \$3.90
3R6469—200 ohms.	center tapped for 60 watt transformer neutral point. List, \$1.25. Net..... \$1.25

Designed for larger capacity radio work. The arm, base, and supporting posts are made of heavy cast brass. Will stand up well under rough usage. The contact points are 3/8 in. diam. which assists materially in the dissipation of the heat produced. Non-arcing.



3R6460—Postage, 6c extra. \$2.69 Each.....

Pyrex Insulators

The ideal insulator. Does not absorb moisture or collect dust. Mechanically strong and light in weight. Conserve the valuable energy in your antenna by using good insulators.



3R6470—For receiving antennas. Length, 3 1/2 in. Leakage path, 6 in. Strength, 450 lb. Ship. wt., 8 oz. List, 45c. Net..... \$1.16
3R6471—For a amateur transmitting. Length, 7 1/4 in. Leakage path, 6 in. Strength, 1,000 lbs. Ship. wt., 1 1/2 lbs. List, \$1.65. Net..... \$1.15
3R6472—Strain Insulator. Length, 12 1/2 in. Leakage path, 1 1/8 in. List, \$3.50. Net..... \$2.45

Lead-In Insulators

Familial custard cup type for powers up to 2 k. w. Height, 4 3/8 in.; width at bottom, 6 1/8 in. Ship. wt., 2 1/2 lbs.

3R6473—List, \$1.50. Net..... \$1.05

Stand-Off Insulators

3R6474—For insulating lead-in wire of receiving sets or transmitting sets. Fine for mounting apparatus. Height, 3 in.; length of base, 3 1/4 in.; width of base, 1 1/8 in. 3/8 in. hole, 16 threads per inch tapped in top brass cap. 2 lbs. List, \$2.75. Net..... \$1.92

3R6475—Large size for powers up to 1 k. w. Same as above except 7 in. high; length of base, 3 1/4 in.; width of base, 1 1/8 in. Ship. wt., 2 1/2 lbs. List, \$3.00. Net..... \$2.10



ACME Transformers and Chokes

Preferred by the American amateur. In recognition of this faith A c m e has constantly striven to produce better apparatus.



Type TR5—500 watts cap. supplies 2000-1500-1000 volts each side of center tap, at 250 mls.

Type TR2—200 watts cap. supplies 750-550 each side of center at 250 MA; and has 2-10 volt, 5 amp. filament winding.

Cat. No.	Type	List	Net
3R6446	TR5	\$30.00	\$22.50
3R6447	TR2	20.00	15.00
3R6448	TH1	18.00	13.51

Choke Coils

	List	Net
3R6449 1 1/2 h., 150 MA Single	\$4.00	\$3.00
3R6450 1 1/2 h., 150 MA Double	6.00	4.50
3R6451 1 1/2 h., 500 MA Single	6.00	4.50
3R6452 1 1/2 h., 500 MA Double	8.00	6.00
3R6453 6 h., 150 MA	10.00	7.50
3R6454 6 h., 200 MA	14.00	10.50
3R6455 6 h., 600 MA	18.00	13.51
3R6456 30 h., 150 MA	18.00	13.51
3R6457 30 h., 500 MA	25.00	18.75
3R6458 30 h., 600 MA	33.00	24.75

Thordarson High Voltage Transformers

New style case. Same as those designed for power packs, only larger. Will stand heavy overloads. Steel Case. Crackle Finish. Compound filled. Cord and plug included.

Type 2385—550 v. and 750 v. each side, center tap. 100 watt. 5x5 1/2 x 6 in. Weight, 8 1/2 lbs.

3R6480—List, \$10.00. Net..... \$9.41

Type 2387—1000 and 1500 v. each side center tap. 500 watt. 7 1/2 x 5 3/4 x 7 1/2 in. Weight, 20 lbs.

3R6481—List, \$22.00. Net..... \$12.94

Type 2388—1000 and 1500 v. each side center tap. 500 watt. 7 1/2 x 6 1/4 x 8 1/2 in. Weight, 27 lbs.

3R6482—List, \$30.00. Net..... \$17.64

Type 2389—1500 and 2000 v. each side center tap. 1000 watt. 7 1/2 x 7 x 9 1/2 in. Weight, 40 lbs.

3R6483—List, \$10.00. Net..... \$23.52

Filament Heating Transformers

Type 2180—5 volts center tapped. 15 watt. 2 1/2 x 2 1/2 x 3 1/4 in. Weight, 2 1/2 lbs.

3R6484—List, \$5.00. Net..... \$2.94

Type 2230—7 1/2 volts center tapped. 35 watt. 3 1/2 x 3 1/2 x 4 inches. Weight, 3 1/2 lbs.

3R6485—List, \$7.50. Net..... \$4.41

Type 2382—12 volts center tapped. 80 watt. 3 1/2 x 4 1/2 x 4 inches. Weight, 5 lbs.

3R6486—List, \$10.00. Net..... \$5.88

Type 2383—12 volts center tapped. 175 watt. 4 1/2 x 5 x 6 inches. Weight, 12 lbs.

3R6487—List, \$15.00. Net..... \$8.82

Porcelain Standoff Insulators

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



3R2614—Each..... 12c

Wall Insulator

To support wiring or instruments. Two of these insulators with a threaded rod connecting them make an excellent lead-in bushing. Constructed of glazed brown porcelain, used either in doors or out. Nuts and washers, assembled, as shown above. Three mounting screws are provided. Dimensions: 2 1/2 x 2 1/2 x 2 in. Ship. wt., 8 oz. Dimensions: 2 1/2 x 2 1/2 x 2 in. Ship. wt., 8 oz.



3R2621—List, 25c. Net, each..... 16c

Enamelled Antenna Wire

For short-wave work—more suitable than a stranded wire. It has been found that enamelled wire is far preferable to bare copper wire in keeping antenna resistance losses down. This No. 12 wire, soft wire, is adapted to both transmitting and receiving aeriels.

2R5904 Per 100 foot coil..... \$9c

Postage, 10c extra.

AERO COIL Short Wave Equipment



Short Wave Receiver

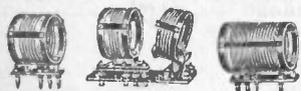
The first short wave receiver to use the shield grid tube for a radio frequency amplifier. Contains radio amplifier, detector and two step audio amplifier. Complete receiver for all waves below the broadcast band. Covers great distances nightly. Uses B batteries. Shipped to you in factory sealed carton.

3R205—Complete Kit. \$32.50
List, \$55.30. Net.
Shipping weight, 15 pounds.

International Short Wave Converter

For DC receivers. Uses one stage of shield grid radio amplification and a regenerative detector. Only one tuning control, one volume control and a filament rheostat. Plugs into detector socket of regular receiver. Size, 7x10x6 in. Kit shipped in unopened factory sealed carton.

3R204—List, \$38.90. \$22.88
Net.
Shipping weight, 8 pounds.

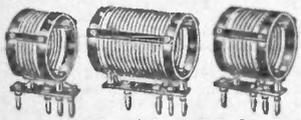


International Short Wave Coils

Type LWT-12

Newest style, small diameter inductances. Have restricted fields, tune very sharp. Consist of space wound coils supported by bakelite frames. A minimum of dielectric in field. No eddy currents or feedbacks. Kit consists of a variable primary and three plug-in secondary coils, covering all waves between 16 and 90 meters. Mounting base included. Shifting effected in two seconds. With a 3 to 7 plate SLF condenser these coils will tune in stations in all parts of the world. Ship. wt., 1 1/2 lbs.

3R209—Complete Kit. \$7.35
List, \$12.50. Net.



Aero Shield Grid Coils

Kits consist of three coils and mounting base. Aperiodically coupled, no primary needed. Set of three coils covers all waves from 18 to 90 meters. Same diameter and low loss construction as International coils listed above. Each unit consists of two coils, a secondary and a smaller diameter tickler which is mounted inside.

3R2084—Kit LWT-11 of three coils. \$6.76
List, \$11.50. Net.

Kit for use with foundation units containing plug-in mount for replacing large diameter short wave coils. Same three coils as supplied last year, but of the newer type. Smaller diameter.

3R2085—Kit LWT-10 of three coils. \$6.18
List, \$10.50. Net.

SINGLE COILS, Secondary and Tickler.

3R2088—16.5 to 32 meters. List Price, \$4.00.

3R2089—26.2 to 48.7 meters. \$4.00.

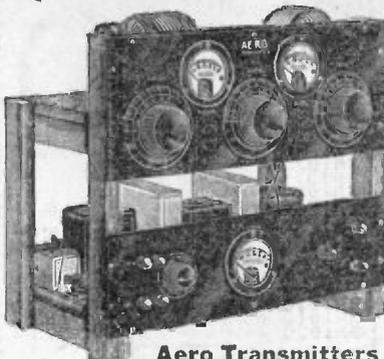
3R2090—46.7 to 89.5 meters. Net \$2.35

3R2091—87 to 105 meters. \$2.35

3R2092—Base with space wound primary coil. List, \$3.00. \$1.77

3R2093—Base without primary coil. List, \$1.50. Net. \$88c

Shipping weight, single coil, 8 oz.



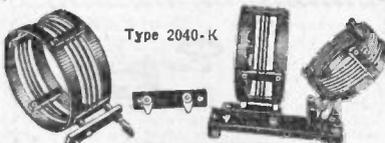
Aero Transmitters

Neat little transmitters that have a world wide code range and several hundred mile range on phone. The ideal set for the man who has just obtained his license and is ready to relay messages of his own. Set uses the tuned plate, tuned grid circuit. All tuning done by means of three variable condensers. Antenna ammeter, plate milliammeter and filament voltmeter show exactly what is happening. Mounted on impregnated wooden frame with bakelite panels. All parts readily accessible. Plug in coils for rapid shifting of wavelength.

3R2022—Complete Radiophone Transmitter for operation on 110 volt, 60 cycle AC. Includes inductances, chokes, rectifier, filter and transformers. Uses 210 or 250 tubes with a pair of 281's for rectifiers. Coils included for the radiophone band. Ship. wt., 80 lbs. \$87.46
List, \$148.75. Net.

3R2023—Code Transmitter. Looks like the upper panel only. No power supply included. Kit consists of inductances, condensers, meters and all necessary small parts of the oscillator circuit. Will run from batteries or a large power pack. Ship. wt., 35 lbs. \$44.00
List, \$74.00. Net.

See Pages 116-117 for Other Aero Products



Type 2040-K

SHORT WAVE Transmitting Coils

Coils for use in the low and medium powered transmitter. Wound with large diameter enameled wire in bakelite frames. 95% of the insulation is air. Kit consists of an antenna coil mounted on a base, a plate coil, and a separate grid coil with mounting base. For use in the tuned plate, tuned grid circuit.

3R2031—18 to 52 meter kit. List, each kit, \$12.00.
3R2033—36 to 90 meter kit. Net \$7.06
3R2034—99 to 180 meter kit.

INDIVIDUAL COILS

3R2035—18 to 52 meters. List, each coil, \$4.00. Net \$2.35
3R2036—36 to 90 meters.
3R2037—72 to 190 meters. \$2.35

3R2038—Grid Mounting Base. List, \$1.00. Net. \$9c

3R2095—Antenna Coil and Base. List, \$3.00. Net. \$1.77

150 Watt Coils

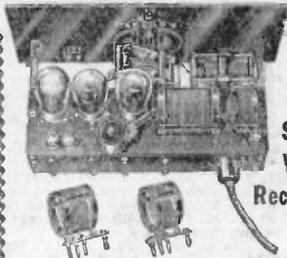
Type 4080-K

Wound with heavy silvered copper strip.
3R2039—16 to 52 meter kit.
3R2040—36 to 90 meter kit.
3R2041—72 to 190 meter kit. \$8.82
List, each kit, \$15.00. Net.

INDIVIDUAL COILS

3R2042—16 to 52 meters. List, \$5.50 each. Net. \$3.24
3R2043—36 to 90 meters.
3R2044—72 to 190 meters. \$3.24

Shipping weight, per coil, 8 oz.



Short Wave Receiver

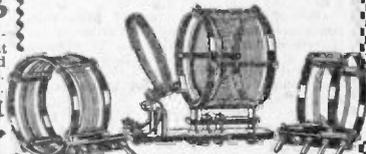
Consists of a three circuit tuner, detector and two step audio amplifier. Plug-in coils allow rapid shifting of wave bands. Wired for the use of a 112 or a 171 power tube. Coupling between the tuning and regeneration controls has been practically eliminated. Kit covers all short wave bands.

3R2027—For AC Tubes. List, \$49.95. \$29.37
3R2028—For DC Tubes. Net
Shipping weight, each, 12 pounds.

Short Wave Converter

For use with all AC and DC receivers. Plug in detector socket and use detector tube in the short wave set. Single control tuning, with regeneration and oscillation control. Size 7x10x6 in. Ship. wt., 10 lbs.

3R2026—List, \$32.00. \$18.82
Net.



Aero S. W. Receiving Coil

Coils are 3 inches in diameter, ninety-five per cent air dielectric and completely interchangeable. The kit includes three coils and base mounting with variable primary, covering all wavelengths between 15 and 180 meters. Ship. wt., 1 1/2 lbs.

3R2076—Complete Kit LWT-125. List, \$12.50. \$7.35
Net.

The range of the above kit may be broadened by adding any of the extra coils listed below.

3R2077—13 to 29 meters. List, each \$5.00
3R2078—125 to 250 meters. Net \$2.35
3R2079—250 to 550 meters. Net \$2.35

Or any of the three coils in the kit may be purchased separately. Ship. wt., 8 oz.

3R2080—15 to 33.5 meters. List, each \$4.00
3R2081—31 to 68 meters. \$4.00
3R2082—57 to 130 meters. Net \$2.35
3R2083—Mounting base with primary coil. List, \$3.00. \$1.76
Net.

Aero No Skip Choke



3R2046—Maintains the input conductance of detector tube at proper value. 13 to 650 meters. List, \$1.50. Net. \$88c

3R2047—Low impedance for circuits with a shunt capacity. List, \$1.50. Net. \$88c

3R2048—For short wave transmitters up to 50 watts. List, \$1.50. Net. \$88c

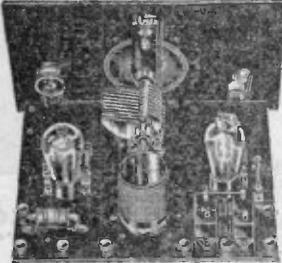
3R2049—For larger transmitters with powers running as high as 500 watts at the usual amateur wavelengths. List, \$1.50. Net. \$88c

3R2074—In receivers using an aperiodic antenna coupler with rough tuning of the antenna circuit. Use .0005 midget condenser from grid to filament. List, \$1.75. Net. \$1.03

3R2075—Same as above but for circuits where windings are separate as in an intertube transformer. List, \$2.00. Net. \$1.18
Shipping weight, each, 8 oz.

OUR SPECIAL AMATEUR SECTION

National Short Wave Shield Grid Receiver

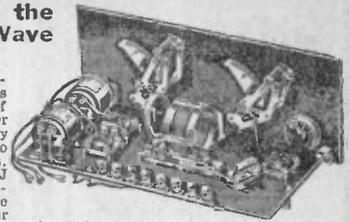


Uses shield grid tube for R. F. amplifier. Resistance coupled. Single tuning control. Covers all waves from 15 to 100 meters with set of 4 coils. High resistance regeneration control. R. F. and detector tubes only. Audio may be added if desired. Especially recommended for television work, and the consistent reception of short wave broadcasters. Unexcelled for two way communication. Not thrown out of resonance by transmitter. Comes back instantly, tunes rapidly, constant oscillation throughout entire dial scale. All parts packed in factory sealed carton. Bakelite

panel and sub-panel grided. Full instructions for wiring. May be assembled in one evening. Uses 222 and 112 tubes. World wide reception. Uses 125 volts of "B" battery. Eliminator cannot be used with success. All wiring on under side of sub-panel. Shipping weight, 15 pounds.

3R5726—List, \$36.85. Net **\$21.49**

Karas Round the World Short Wave Receiver



Just as its name implies, a set that knows not the limitations of distance. With proper handling and auxiliary equipment it is easy to pick up 2LO in London. ANE in Java and PCJJ in Holland (not any evening). Hundreds of code stations, both amateur and commercial, are always in evidence. Consists of 3 circuit tuner, plug-in coils, detector and two stage audio. Mounted on bakelite panel and sub-panel. Uses a 112 for detector and a 201-A and 171 for audio amplifiers. Must be run from "B" batteries. Tunes very sharp, cuts right through static and interference. Ideal for use in transmitting stations. Quick comeback, not affected by transmitter. Hold DX station for hours at a time. Uses separate aerial for break-in system. Packed complete in factory sealed carton. Shipping weight, 30 pounds.

3R5727—List, \$52.50. Net **\$30.87**
 3R5728—Short wave converter for use with broadcast set. Detector, cuts right through static and interference. Ideal for use in transmitting stations. Quick comeback, not affected by transmitter. Hold DX station for hours at a time. Uses separate aerial for break-in system. Packed complete in factory sealed carton. Shipping weight, 30 pounds. Complete Kit. List, \$42.50. Net..... **\$24.99**

Karas Short Wave Condenser



Plates made of heavy lacquered brass, securely soldered, give a straight-line frequency curve. The rotor is polished to the frame and binding post through an insulated spring-bronze coil, insuring noiseless action. Ship. wt., 1 lb.

3R1823	Plates	mmf.	\$3.82
3R1823	5	100	
3R1823	7	140	
3R1824	11	250	

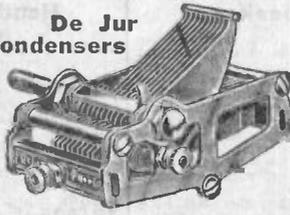
Pilot Short Wave Condenser

Removable shaft without disturbing rotor plates. Minimum insulation, rotor plates a unit. Holds calibration, will not shift when hand is removed from dial. Ship. wt., 1 lb.

3R5729—00016 mfd. List, \$1.12. Net **\$1.12**

3R5730—00025 mfd. List, \$2.00. Net **1.18**

De Jur Condensers



Accurately spaced plates, high insulation, low dead dielectric in fields. Hard steel bearings, accurate calibration. Recommended for code reception and transmission. Ship. wt., 1 lb.

3R5731—00014 mfd. List, \$3.00. Net **\$1.76**

3R5732—00025 mfd. List, \$3.00. Net **1.76**

Bremer-Tully Short Wave Kit

Consists of four plug-in coils and a base; adjustable, rotating primary; space wound coils on skeleton framework; fixed, capacity-controlled tickler; covers 12 to 200 meters with 250 mmf. condenser and 250 mmf. regeneration control. Shipping weight, 1 pound.

3R4241—Short Wave Outfit. List, \$11.00. Net..... **\$6.47**

B-T Short Wave Tuner

Bank wound over skeleton frame. Three circuit. Adjustable primary, rotating tickler. Mounts on either panel or baseboard. Aluminum base and support. Covers waves from 60 to 150 meters.

3R4249—List, \$4.00. Net..... **\$2.48**

Air King Short Wave Coil Kit



Consists of three precision plug-in coils covering all waves from 15 to 123 meters, with range engraved on frame. Low loss construction. Skeleton frame, air dielectric. Base and primary, single unit, lateral ribs riveted firmly to bakelite end pieces. Wire wound in slotted bakelite frame. Ship. wt., 12 oz.

3R5734—List, \$12.50. Net **\$7.20**

Dresner Short Wave Converter Unit



Plugs into detector socket, using audio amplifier of regular set and short wave tuning apparatus of converter. Uses detector tube in converter. Set of five coils cover all waves from 15 to 500 meters. Regeneration is obtained with the oscillation control, while stations are selected with the wave length. Mounted in cabinet 8 1/2 x 5 1/2 x 3 1/2 inches. Variable dial. Completely assembled. Ship. wt., 10 lbs.

3R1533—List, \$22.50. Net..... **\$13.23**
 3R1534—Short wave coils only. List, \$3.50. Net **2.06**

Cardwell Condensers

Standard equipment with the amateur and experimenter for many years. The new type E Taper Plate is the latest model straight-line frequency style. Type C is a shaped plate straight-line wave length style for regenerating control or tuning.

Type E

3R3400	191E	Mfd.	List	Net
3R3401 <td>177E</td> <td>.00075</td> <td>\$4.00</td> <td>\$2.68</td>	177E	.00075	\$4.00	\$2.68
3R3402 <td>148E</td> <td>.00085</td> <td>4.25</td> <td>2.68</td>	148E	.00085	4.25	2.68
3R3402 <td>148E</td> <td>.00085</td> <td>4.25</td> <td>2.76</td>	148E	.00085	4.25	2.76

Type C

3R3444	167C	Mfd.	List	Net
3R3445 <td>168C</td> <td>.00075</td> <td>\$4.00</td> <td>\$2.70</td>	168C	.00075	\$4.00	\$2.70
3R3446 <td>170C</td> <td>.00085</td> <td>4.25</td> <td>2.80</td>	170C	.00085	4.25	2.80
3R3446 <td>170C</td> <td>.00085</td> <td>4.25</td> <td>2.97</td>	170C	.00085	4.25	2.97

Hammarlund Short Wave Condensers

Con bearings on both ends, rigid and other improvements. Lowest loss. Extremely quiet, highly efficient. Ship. wt., 1/2 lb.



Midline Condensers

Art. No.	Plates	Mfd.	List	Net
3R3523	11	.00025	\$5.00	\$2.94
3R3320	7	.00014	4.75	2.80
3R3331	6	.001	4.75	2.80

S. L. F. Condensers

Art. No.	Plates	Mfd.	List	Net
3R6385	5	.0001	\$4.75	\$2.80
3R6386	7	.00014	4.75	2.80
3R6387	11	.00025	5.00	2.94
3R6388	11	.0001	5.00	2.94

Space Wound Coils

No. 15 wire, space wound on transparent cellululac tub, 3 inches diameter. For choke coils and inductors another size is available—1 1/2 inches diameter, No. 36 single silk covered wire. Maximum length 50 in. in one piece.

3R5991—Size 16 wire, 10 turns to the inch. List, per inch, 40c. Net **24c**

Code Transformer

Maximum distortion curve. Makes code easier to read, no good for broadcast reception. First and second audio stages. 10 to 1 ratio. Small size, easy mounting.

3R1304—List, \$4.50. Net..... **\$2.59**

Converter Plug

Use one audio amplifier for both sets. Converter plug is connected to output of short wave set and plugs into detector socket. Complete with cord and marked terminals. Ship. wt., 3 oz.

3R1523—List, 80c. Net **47c**

Short Wave Choke Coils

A small low capacity choke coil for receiver plate circuits. A small honeycomb coil, only one inch in diameter and one-quarter inch thick, wound with fine wire. They are especially manufactured for us and have been recommended in many QST articles. Unmounted, two leads. Postage 3c extra.

3R5993—Each **39c**

All Prices Quoted Are Net—There Are No Further Discounts

1001 Radio Questions Answered



Practically all the known Radio hook-ups and circuits, including most of the new ones, are described in this new book. All details covered in a simple, clear manner, making it easy for the novice as well as the professional. Illustrated with clearly printed diagrams and full details of each circuit described. Shpg. wt., 1 lb.

3R1626—List, 50c. Net 32c

RADIO Up-to-the-Minute



Revised Edition
List \$1.25
93c
NET

A new revised edition of this famous volume. Describes fully the many new startling triumphs of radio research work. Explains in detail, with illustrations and diagrams, how to build all kinds of receiving sets. Page size measures 5x7 1/2 inches. Substantially bound in cloth covers. 402 pages profusely illustrated. Shpg. wt., 1 1/2 lbs.

3R1605—List, \$1.25. Net 93c

Television

Big book of detailed information on Television. How to build Television kits with latest information, data, scientific facts about this new, modern, up-to-the-minute innovation in radio. Published by Consard. This is the latest at a real price. Fully illustrated. Wt., 1 lb.

3R1673—List, 50c. Net 32c

RADIO IN DEX



A complete index of each broadcasting station in America. Shows where to set the dials for each station. Three complete indexes, one by call-letters showing wave length, location and owner, another showing call-letters and wave length, and a third index by locations.

3R1639—Retail, 25c. Net 18c

Sterling Microcondenser

High quality adjustable condenser of "micro" size with maximum capacity of approximately 5 micro-microfarads. The minimum capacity is extremely small. For neutralizing grid to plate capacity of tubes in neutrodyne and other similar circuits. One-piece rotary plate. The best grade of clear mica dielectric is used. Because of small size (1 1/2 in.) can be soldered directly into bus wiring without other support. Shpg. wt., 5 oz.



3R4122—Capacity .00000025-.000005 mf. List, \$1.00. Net 64c

3R4136—Capacity .0000004 to .000010 mf. List, \$1.50. Net 96c

DRAKE'S RADIO CYCLOPEDIA



Complete—Correct
Non-Technical
By H. P. MANLY

Contains over 1500 articles alphabetically arranged, and 1000 definitions, terms, abbreviations and symbols, written by an engineer who knows the "why and how" of radio. Every type of radio fully covered with explicit instructions, as to construction, operation and repair. 870 pages; 6 1/2 x 9 inches. Has 950 illustrations and diagrams, and 135 tables, lists, graphic formulas of useful information, all compiled especially for this book. The best radio book for expert or novice. Shpg. wt., 5 lbs.

3R1625—List, \$6.00. Net \$4.41

Citizens Radio Call Book

A magazine giving a complete review of new Radio Receivers and Circuits with full details such as constructional data, list of parts, and diagrams. Also contains complete list of radio stations, with loc. and time, lengths, etc. State which edition is wanted when ordering. Shpg. wt., 1 1/2 lbs.

3R1631—List, 50c. Net 32c

How to Build a Modern Loud Speaker

The latest data available on the construction of magnetic and dynamic speakers. Full information on assembly as well as theoretical data governing operation and current consumption. Improve your reception by understanding fully the how and why of audio reproduction. Written by nationally known authorities. Bound in paper, well illustrated. Shpg. wt., 10 oz.

3R1638—List, 25c. Net 17c

Radio Listener's Guide and Call Book

Contains complete information on theory and operation of radio, list of stations, new and popular hook-ups, radio maps, detailed information on set building with lists of approved parts. Also has revised radio log giving wave length and other last minute information on each station. Mention edition wanted when ordering. Shpg. wt., 1 1/2 lbs.

3R1640—List, 50c. Net 35c

Q S T

The official publication of the American Radio Relay League. Contains all the latest technical information. For the Amateur and experimenter. Only publication devoting entire space to short wave work. Full instructions for building and operating code and phone stations, relaying messages and getting the utmost enjoyment out of radio. Published 25th of each month.

3R1641—Latest copy .25c

International Radio Hand Book

A synopsis of the I. C. S. course in radio engineering. Very complete, covers radio field from end to end. Chapters on batteries, tuners, code reception, equipment, motor generators, as well as all data on broadcast instruments. An education in itself. A great help for the salesman, engineer or novice. Pocket size. Bound in red linen. 518 pages, fully illustrated. Plain English. Shpg. wt., 12 oz.

3R1535—List, \$1.00. Net 85c

150 Radio Hook-Ups

Gives diagrams, details, and hook-ups of all efficient circuits. Contains 56 pages, liberally illustrated with views and clearly printed blue prints; gives complete data for building, and list of selected parts. Written in a clear, concise manner. A fast seller. Wt., 10 oz.

3R1620—List, 25c. Net 17c

Gernsback's Radio Encyclopedia

A Thousand Books in One
List \$2.00

\$1.50
Net



A thousand books in one. 198 pages of technical information, circuits, mechanical helps, history of radio, etc.; 1930 definitions, 549 photographs, drawings and diagrams. The most comprehensive and authoritative book on radio ever published.

3R1536—List, \$2.00. Net \$1.50

Radio Trouble Finder



It is easy to locate troubles with this handy book. Trouble-shooting and repair work is thoroughly covered with many practical short-cuts. Covers every detail of modern radio receivers. 47 illustrated pages. Every dealer and set owner should have a copy.

3R1537—List, 25c. Net 17c

Radio News Super-Heterodyne Book

Fully describes the interesting Superheterodyne Theory, in non-technical language. Consists of 48 interesting illustrated pages, giving constructional details and diagrams. Highly recommended. Wt., 10 oz.

3R1672—List, 50c. Net 33c

Radio News—Monthly Magazine

All the latest popular data on radio developments, news of the broadcasters and inventors, high grade radio fiction and non-technical articles of general interest to the laymen. Contains constructional articles with enough experiments to keep the most active experimenter busy till the next issue is published. Released the 15th of each month.

3R1709—Latest copy... 25c

Radio Amateurs Hand Book

Explains all recent developments in radio. 112 pages chock full of diagrams, blue prints, and practical radio information. Wt., 1 lb.

3R162—List, 50c. Net 33c



A C Hook-ups In Color

Greatly simplify the wiring of a receiver. Different color combination for each circuit. No chance of error. Very clear and interesting. Learn all about the AC circuits whether you build or not. Bound in paper, large size type.

3R1615—List, 25c. Net 17c



Subpanel Brackets



Strong light weight aluminum brackets designed to accommodate sub-panel transformers. Two sizes. Shpg. wt., 6 oz.

3R1707—2 1/2 in. high x 6 1/2 in. long. List, each, 25c. Net 15c

3R1708—2 1/2 in. high x 11 in. long. List, each, 50c. Net 28c

Make Up a \$50.00 ORDER

and save freight charges. This means a real saving to you. See our offer on page 260.

Radio Tool Chest



List \$3.00
\$1.76
Net

Contains 10 practical tools, designed by men who knew what was exactly required for radio work. Contents consist of 3 and 5 in. screw drivers, scriber, reamer, counter-sink, pliers, enter-punch, socket wrench set for hexagon and knurled nuts; and 3 wrenches for hex-nuts, ranging from 3/4 to 1 1/2 in. Packed in attractive dark blue and gold cardboard cases. Wt., 2 lbs.

3R1607—List, \$3.00. Net \$1.76

Pilot Wasp Short Wave Kit

17 to 500 Meters

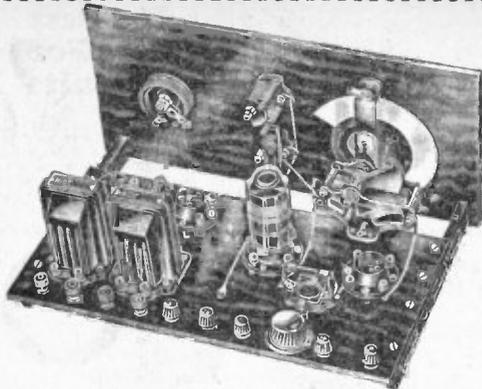
Many powerful broadcasting stations are now sending their programs on short waves as well as on long waves. Often stations far distant can be tuned in on a short wave set that are far out of reach of the average long wave receiver. Amazing distance records are obtained on short waves. There are many reports of having received European and other foreign stations. Short wave sets add new thrills to radio—and at small cost. It is not necessary to learn code to listen and enjoy short wave programs as it was a few years ago. Many amateurs are now using the phone to work each other while a few years ago all of them used a key.

Simple Tuning

The set illustrated uses the new Pilot illuminated control, very simple to tune. There are five coils of plug-in type. One coil for each of the following ranges; 17 to 30; 30 to 52; 48 to 105; 73 to 202 and 200 to 500 meters. Very easy to assemble and wire.

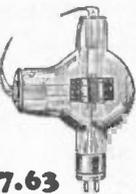
Complete List of Parts

One Pilot 5 pl. midget condenser, 10 binding posts, 2 Pilot 23 pl. midget condensers, 2 one inch brackets, one .002 fixed condenser, one R. F. choke, one front panel, one sub-panel, four sockets, two Pilot audio transformers, one 1 meg, and one 10 meg. grid leaks, one 10 ohm rheo., one Pilot illuminated dial, one 8 pl. cond., one set short wave plug in coils, and essential hardware for assembling. Ship. wt., 15 lbs.
3R2278—List, Complete Kit \$33.50. Net..... \$19.70



Transmitting Tubes UX-852

A new Tube for amateur use. Normal output 75 watts. Standard UX base on filament end. Plate and grid leaks through top and side of tube. Filament 10 volts, 3.25 amps. Plate 2,000 volts, 75 M. A. The ideal tube for short waves. Ship. wt., 2 lbs.



3R2279—UX852. List, \$32.50. Net..... \$27.63
 UX 250 New 25 watt tube. Ideal for amateur transmission. Filament 7 1/2 volts. Plate 450 to 500 volts. 35 M. A. wt., 1 lb.
3R2280—List, \$12.00. Net..... \$8.23

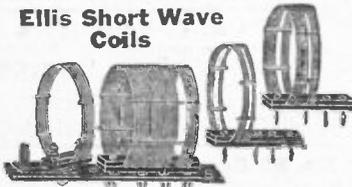
UX852 Holder



Holds tube absolutely rigid. Connections for grid and plate leads. Provisions for mounting of grid and plate condensers. Insures short direct leads.

3R2281 List, \$2.50. Net..... \$1.75

Ellis Short Wave Coils



A set of three interchangeable inductances, with mountings. Cover wave bands from 15 to 120 meters. Primary coil is adjustable in a slide and swivel. The regenerative coils are spaced to eliminate detuning of the secondary. Shipping weight, 1 pound.

3R2282—List price, complete set with base, \$8.50. Net..... \$5.00

National Vernier Dial—Type E.

A smooth, powerful drive at all times is a feature of this dial. Very easy to install on any panel or with any condenser. Nicely finished, hammered metal escutcheon adds to the appearance of any set in addition to the excellent mechanism in the dial. Ship. wt., 10 oz.
3R2283—Scale 200-0. List price, \$2.75. Net..... \$1.62

3R2284—Illuminator for above dial. List, 50c. Net..... 29c

National R. F. Choke

Designed to plug in standard grid leak mounting. Efficient over wide range of frequencies as low as 15 meters. Inductance value 90 M. H. D.C. Resistance 350 ohms. Weight, 4 ounces.
3R2285—List, without mounting, \$1.25. Net..... 73c

Frost Radio Microphone

Well made from standard telephone parts. Carbon chamber especially constructed for radio telephone work. Metal parts are nickel plated and polished. Has black knurled handle. Shipping weight about 2 pounds.

Complete with handle and cord.
3R2286—List price, \$6.00. Net..... \$3.53

3R2287—Desk microphone with cord, list, \$8.75. Net..... \$5.14

3R2288—Pony arm type for mounting on panel of transmitter or wall. List, \$4.50. Net..... \$2.65

National Short Wave SLF Equeicycle Condenser

Designed especially for short wave receivers SLF curve 270 degree rotation. Girder frame. Double spacing.

Number	List	Net
3R2290...0001	\$4.50	\$2.65
3R2291...000125	4.50	2.65
3R2292...00015	4.00	2.35
3R2293...00025	4.50	2.65

National High Frequency Impedance

Designed for use in the grid circuit of UX 222 screen grid tubes when employed for short wave radio frequency amplification. Makes possible the construction of a single control short wave receiver of high efficiency. Ship. wt., 6 oz.

3R2289—List without mounting, \$1.00. Net..... 59c

National Short Wave Screen Grid Coils



Designed especially for short wave circuits using 222 screen grid tube. May be employed very efficiently in circuits not incorporating radio frequency amplification. Space wound on bakelite tubing. Ship. wt., 8 oz. each.

Number	List	Net
3R2294—15-25 meter coil...	\$2.50	\$1.47
3R2295—24-40 meter coil...	2.50	1.47
3R2296—37-65 meter coil...	3.00	1.76
3R2297—64-115 meter coil...	3.00	1.76
3R2298—Set of four coils, 15 to 115 meters. Ship. wt., 2 lbs.	\$10.00	

Short Wave Panels

Westinghouse Micarta panels completely drilled and equipped with sockets, grid leak, radio frequency choke and equalizer mountings for National Short Wave Kit. Shipping weight, 2 pounds.

3R2299—List, \$7.25. Net..... \$4.26

Short Wave Plug-In Coils



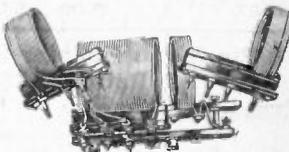
Set of five short wave plug-in inductances covers wave length range 15 to 500 meters. Space wound. Five prongs on base of coil. Very low loss. Wound on ribbed Bakelite tubing. Fitted with identifying color rings. Ship. wt., 1 1/2 lbs.

3R2246—List, set of five coils, \$4.85 \$8.50. Net..... \$4.85

Coil Form Only.

Ribbed form for making space wound inductances.
3R2247—List, 90c. Net..... 53c

Interchangeable Short Wave Coils



A set of three highly efficient low-loss interchangeable inductances complete with base. Covers wave length range 20 to 250 meters. Tunes with one .00014 or .00017 and one .00035.

Of space wound construction the short wave inductances insure very efficient operation at the high frequencies without losses and extremely low DC resistance. Adjustable primary. Ship. wt., 1 lb.

3R2248—List, complete set with base \$6.00. Net..... \$3.50

Broadcast Coil

Designed to be interchangeable with short wave coils, with range of 250 to 500 meters. Shipping weight, 6 oz.

3R2249—List, \$2.00. Net..... \$1.15

National Precision Velvet Vernier Dial

Precision velvet vernier dial designed for laboratory apparatus where it is necessary to one-tenth of a dial scale division. Ideal for the amateur who uses precise short wave apparatus. Scales are of solid German silver engraved in black. Vernier reduction 5 to 1 ratio. Ship. wt., 10 oz.

3R2211—100 to 0 dial reading. 3R2212—150 to 0 dial reading. 3R2217—200 to 0 dial reading. List, each with vernier scale \$6.50. Net..... \$3.82

Radio Meters For Professionals



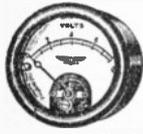
The Best Meters For Best Results

Jewell instruments are the result of years of close study of the needs of the radio dealer and his service department. They represent the highest type of efficiency and accuracy. Each instrument is mechanically and electrically correct, and rigidly tested and inspected at the factory. They are carefully designed along the latest lines of radio development, well suiting the needs of the dealer and service man.

They provide a wide range of capacities, so that the dealer can find just the instrument needed for any specified class of work, and can add to it from the same high-quality Jewell line as his needs expand. From amateur to professional there is a Jewell to do the work—do it better; more accurately; more easily. All Jewell radio instruments have zero adjustments.

2 Inch Panel Meters

Pattern 135 for D. C.



The smallest of the d'Arsonval or moving coil meters. A compact instrument with 2-inch case diameter and 2 1/4-inch rim diameter. Finest coil type movement fully jeweled. Resistance of volt-meters 80 ohms per volt. Black scale on silver background. Ship. wt., 2 lbs.

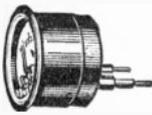
	List	Net
3R1900—0-5 Volts	\$7.00	\$4.46
3R1901—0-8 Volts	7.00	4.46
3R1902—0-100 Volts	7.50	4.78
3R1896—0-150 Volts	7.50	4.78
3R1903—0-3 Amps.	7.00	4.46
3R1904—0-50 Mills.	7.00	4.46
3R1897—0-100 Mills.	7.00	4.46

Double Reading Meter With Push Button Pattern 135 B

Meets the demand for a compact double reading panel voltmeter for "A" and "B" battery checking and filament control. A small push button switch at top of flange serves to switch from one circuit to the other. Shipping weight, 2 pounds.

Volts	List	Net
3R1885—0-5-100	\$9.00	\$5.73
3R1886—0-7.5-150	9.00	\$5.73
3R1887—0-8-200	9.00	\$5.73

Pin Jack Voltmeter Pattern 135 A



A 2-inch meter with two pins that can be adjusted to fit varying spacing of the two phone jacks on the panels of the sets. To assist in controlling voltage of Radiola, Victor, Brunswick, Bosch and similar sets. Shipping weight, 2 pounds.

3R1912—0-5 volts. List, \$7.50. Net \$4.77

A. C. Voltmeters Pattern 190



Has 2-inch case diameter and 2 1/4-inch flange diameter. Designed primarily for measuring filament voltages of radio tubes using AC but may also be adapted to any commercial use demanding an AC instrument of small size.

Very efficient movement with low current consumption which does not draw enough current to change set conditions. Shipping weight, 2 pounds.

Volts	List	Net
3R1850 0-1.5	\$7.50	\$5.52
3R1851 0-3	7.50	5.52
3R1852 0-5	7.50	5.52
3R1853 0-8	7.50	5.52
3R1854 0-15	7.50	5.52
3R1855 0-150	9.50	6.99

Ammeters	List	Net
3R1856 0-1 Amp.	7.50	5.52
3R1857 0-3 Amp.	7.50	5.52
3R1858 0-5 Amp.	7.50	5.52

Milliammeters	List	Net
3R1859 0-50	7.50	5.52
3R1860 0-100	7.50	5.52
3R1861 0-500	7.50	5.52

A. C. Voltmeters Pattern No. 77



Extremely effective for making the various alternating current tests in servicing sets and accessories. Very small current draw; ample range for checking and adjusting all usual voltages. Lower voltage; higher range for 110v voltage. Ship. wt., 4 lbs.

Three Range	List	Net
3R1862—0-3-15-150	\$15.00	\$11.02
3R1898—0-15-150	10.50	7.71
3R1863—0-150	10.00	7.35



B-Eliminator Testers Pattern 116

A high resistance voltmeter which has a national reputation for accuracy and reliability. High internal resistance of 800 ohms per volt requires only 1 1/4 milliamperes for full scale deflection. Show true voltage, which cannot be obtained with the ordinary voltmeter. Leads furnished. Ship. wt., 4 lbs.

Volts	List	Net
3R2016 0-50-250	\$25.00	\$18.37
3R2017 0-250-500	32.00	24.50

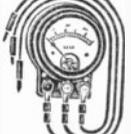


B-Eliminator Checker

This instrument meets the demand for an inexpensive B-eliminator tester of comparatively high resistance for the individual's use in checking and adjusting B-eliminator voltages. Resistance is about 3 times that of ordinary voltmeter and the current draw is not great enough to cause an appreciable drop in voltage delivered by the eliminator. Ship. wt., 4 lbs.

Volts	List	Net
3R1864 0-300	\$12.00	\$ 7.64
3R1865 0-500	16.50	10.51

Portable Voltmeter Pattern No. 98



For Quick, Easy, Fool-Proof Testing of All Radio Batteries

Colored scales and binding posts with colored leads. Green lead post and scale for readings up to 10 volts. The red is for readings up to 50 volts. Green and red markings on the scale indicate proper readings for various batteries. Two scales, 0-10 and 0-50. Supplied with 3 18-in. leads. Ship. wt., 6 lbs.

3R2013 List, \$13.50. **\$9.93 Net**

Portable Voltmeter Pattern 57

A very reliable voltmeter for obtaining maximum efficiency from battery operated sets and for testing batteries in the retail store. Base is bakelite with holes for wall mounting. Resistance is 60 ohms per volt, which is suitable for testing either "A" or "B" batteries, but is not sufficiently high for "B" eliminators. Eighteen inch leads are supplied. Ship. wt., 5 lbs.

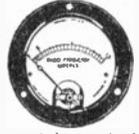
Volts	List	Net
3R2015 0-7 1/2-150	\$10.50	\$7.72
3R2018 0-8-200	10.50	7.72

Double Reading Volt Ammeter

All in one instrument, for quick reading of amperage and voltage. Range is 0-50 amperes and 0-50 volts.

3R2019—List, \$13.50. **\$9.90 Net**

Jewell Transmitting Trio



These instruments are very popular today with the amateurs in short wave work. They are greatly in demand where a small instrument is required for laboratory experimenting and testing. The case is 3 inches in diameter and the flange is 3 3/4 inches over all. Ship. wt., 2 lbs.

Pattern No. 54 D. C.

Supplied with external resistors having moulded bakelite heads, which are ample large to take care of the various capacities. Not suitable for taking voltages of "B" eliminators. List, \$7.50. **\$5.52 Net**

3R1970—0-10 volts.	3R1926—0-100 milliamps.
3R1971—0-3 amps.	3R1927—0-300 milliamps.
3R1924—0-100 milliamps.	3R1928—0-25 milliamps.
3R1923—0-25 milliamps.	0-500 milliamps.

Following equipped with external resistor:

	List	Net
3R1918—0-500 volts	\$15.50	\$11.50
3R1919—0-1000 volts	22.50	16.53
3R1920—0-1500 volts	28.50	20.94

No. 64 Radiation Ammeter

Thermo couple type with D'Arsonval movement. Extremely accurate and has a guaranteed overload of 50 per cent. Losses are very low, being less than half the minimum required by the navy.

	List	Net
3R1907—0.5 amp.	\$12.00	\$8.82
3R1908—1 amp.		
3R1909—1.5 amps.		
3R1910—3 amps.		
3R1911—5 amps.		

No. 74 A. C. Voltmeters

For reading transmitter filament voltage AC current. Same size as No. 54. Ship. wt., 3 lbs. List, \$7.50. Net, **\$5.50**

3R1966—0-10 volts.	For 5 watt tubes.
3R1967—0-3 amps.	For 50 watt tubes.
3R1968—0-15 volts.	
3R1969—0-10 amps.	

No. 55 Combination Meters

Self contained switch to change scales. Checks A and B voltages. Black enameled finish. Nickel plated switch knob. For direct current only. Helps to prolong filament life of tube. The best insurance for tubes that can be obtained. Requires 2 1/2 inch mounting hole. Ship. wt., 2 lbs.



3R1933—0-7.5-150 volts.	List, \$10.00.
	Net \$7.35
3R1934—0-8-80-160 volts.	List, \$12.50
	Net \$9.15

2 1/2 Inch Panel Meters Jewell No. 53

A popular size instrument for panel mounting used to obtain accurate test of operating conditions in any radio set, and for all-around general purposes. Furnished single scale. Flange type body. Finished in black enamel. One of the best-selling Jewell instruments, very accurate and thoroughly reliable. Sturdily built for long, hard service. Ship. wt., 3 lbs.



	List	Net
3R1946—0-5 volts	\$7.50	\$5.52
3R1947—0-10 volts	7.50	5.52
3R1948—0-150 volts	9.50	6.99
3R1951—0-1 1/2 amps.	7.50	5.52
3R1952—0-3 amps.	7.50	5.52
3R1953—0-5 amps.	7.50	5.52
3R1954—0-10 milliamps.	7.50	5.52
3R1956—0-50 milliamps.	7.50	5.52
3R1957—0-100 milliamps.	7.50	5.52

Testing Instruments for AC and DC Sets

Jewell AC and DC Set Analyzer



Tells at a Glance the Condition of Your Set

No Service Man Can Afford to Be Without It!

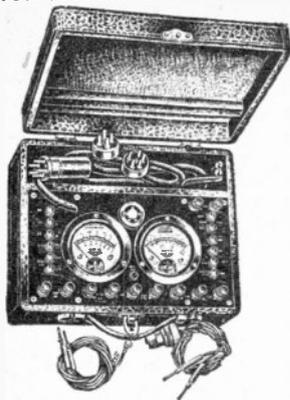
A radio set analyzer developed over a period of years by a manufacturer of precision meters who has studied the needs of the radio dealer and his service department. Fills the need for an accurate instrument for telling exact condition of the set and its accessories. Every test which will give information of the workings of a radio set and its accessories has been provided for.

Tests Every Circuit on Tubes or Sets

This analyzer tests AC and DC tubes, B eliminators, batteries, circuits, grid, and plate voltages, etc. Instrument ranges: AC volts 0-4-8-16-160; DC 0-7.5-75-300-600 volts and 0-15-150 milliamperes. Resistance 1,000 ohms per volt DC voltage ranges. Complete with test leads, 4 and 5 prong adapters, line voltage leads, pad of analyzer charts and complete instructions. Shipping weight, 15 lbs.

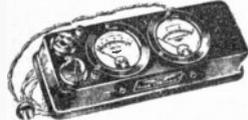
2R1765
List Price,
\$97.50.

\$71.66
NET



JEWELL TUBE TESTERS

Model 150 AC



The 150 AC Tube Checker tests all tubes without resorting to batteries of any kind. A compound rheostat for adjusting filament is used in conjunction with 0-4-8 volt AC filament voltmeter. Plate current is read on a 0-15 milliammeter, a second reading of plate current gives the value of the tube. All tubes can be tested from WD 11 and 199 to 210 by plugging into 110 volt 60 cycle outlet. A 5 prong socket is supplied with an adapter for 4 prong tubes. Shipping weight, 6 pounds.

2R1767—List Price, \$38.00. Net.....

\$27.93

Model 110A for AC and DC Tubes

An excellent tester for both AC and DC type tubes. Has a filament voltmeter 0-7.5 range. Double scale Milliammeter 0-10 and 0-50 Milliamperes. Has 4 prong socket with adapter for five prong AC tubes and also for UV 199 DC tube; equipped with binding posts for connecting additional "C" battery in testing power tube. Shipping weight, 5 pounds.

2R1766—List Price, \$45.00. Net.....

\$33.07

READRITE HOME TUBE TESTER TYPE AA

Designed for home use by set owners. Very simple in operation. Enables set owner to locate weak tubes and replace them, thereby restoring set to full power and range. Meter hand indicates clearly the tube condition without any calculations of any kind being necessary. Meter is removable and can be used for other testing. Switches or contacts to get out of order. This tester also detects shorts between grid and filament. Full instructions for operating tester included. Shipping weight, 3 pounds.

3R1742—For any five volt tubes. List, \$3.00. Net, Each. **\$1.77**

3R1743—For any three volt tubes. List, \$3.00. Net, Each. **\$1.77**



READRITE TUBE TESTERS

No. 210 Tube Checker contain 0-6 DC Voltmeter—0-10 Milli-ammeter, grid bias switch, rheostat, socket and binding posts. Connect to batteries or eliminators or to set socket with cord and plug No. 21. Tests quick tubes operating at 5 volts or less. Especially recommended for 191 and 201-A type tubes. For dealer, service man and set owner. Instructions for using and chart of tube readings supplied. Shipping weight, 5 pounds. Cord and plug extra. **\$4.41**

3R1751—List, \$7.50. Net.....

3R1755—Adapters for small tubes. List, 60c. **35c**

No. 215

Readrite Tester

Used for AC or DC for servicing set tests. Complete with cord, plug and adapter. Has grid switch and two binding posts for connecting "B" Voltmeter. Tests all circuits, either AC or DC, and checks all tubes, including power tubes. Two sockets for four and five prong tubes. Complete with instructions and Tube Chart. Shipping weight, 4 pounds. **\$7.35**

3R1772—List, \$12.50. Net.....



Adapter Cord and Plug

No. 21 cord and plug with instructions for attaching to tester.

3R1752—List, \$1.00. Net..... **59c**

No. 212 Tube Checker

For counter testing with eliminators or batteries. Will test all tubes. Supplied with 5 prong socket and adapter for 4 prong tubes. Has 0-8 DC Voltmeter and double reading 0-20 and 0-100 Milliammeter, grid switch, power rheostat and 6 binding posts. "B" and "C" Voltmeters can be attached. Cord and plug to connect to set socket. Shipping wt., 5 lbs. **\$5.88**

3R1770—List, \$10.00. Net.....

3R1771—No. 23 Adapter Cord. List, \$1.50. Net..... **88c**

READRITE TUBE AND SET ANALYZER

An Instrument Every Radio Man Should Have Readrite Test Kit No. 9

Will make every kind of test on tubes and circuits. Locates faults quickly without switches or other cord connections. A complete and flexible outfit every service man or experimenter will want to own. Full instructions and Tube Chart. Contains 9 meters fitted with tip jacks; 0-50 volts DC; 0-500 volts DC; 0-8 volts DC; 0-15 volts AC; 0-6 volts AC; 0-8 volts AC and 0-10 milliamps; 0-100 milliamps; 0-300 milliamps, black metal case with leather handle size 7x10x1 inches high. Has a meter tube tester connected with five foot cord, plug and adapters. Also a five-foot polarity cable with tips for special test meter. Power rheostat, grid switch, four and five prong sockets with interchangeable meters all on marked Bakelite panel. Shipping weight, 10 pounds.

2R1768—List, \$55.00. Net.....

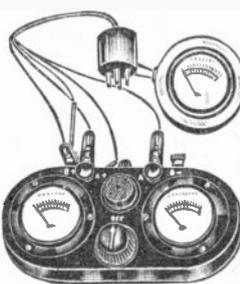
\$20.58



Readrite Universal Test Set

Universal Test Set consists of No. 215 Universal Tube Tester listed below at right and a special high resistance voltmeter providing a range of 0-300 volts. Plugs into the set socket for testing tubes. Quickly locates defective circuit wiring, open transformers, poor contacts and shorts. Equipped with a voltmeter of 0-10 volts and double scale milliammeter of 0-20-100. Tester is provided with 30 inch cord, a five prong plug and four prong adapter. A high-grade instrument throughout. Weight, 6 pounds. **\$10.29**

3R1769—Retail, \$17.50. Your Price..



JEFFERSON TUBE CHECKERS

Model 290 DC Tube Checker

All sets are dependent on the efficiency of their tubes and one weak tube will spoil the reception of the set. This reasonably priced tube checker will test your tubes and tell at a glance their condition. Will also detect loose connections, poor contact in the socket, open circuit in the transformer or open "B" battery circuit. Has a universal socket and will fit all tubes except UV 199, which requires an adapter. Shipping weight, 2 1/2 pounds. **\$2.65**

3R1749—List Price, \$4.50. Net.....

Jefferson No. 291 AC Tube Checker

The condition of the tubes in an AC set is extremely important in obtaining best results in operation. This Checker is designed to enable the user or dealer to locate the worn out or paralyzed tube and thus keep the set operating at highest efficiency.

Equipped with meter, two sockets, one for 227 type, and the other for 226 type AC tubes, a rheostat, and a push button. The test is simple—insert tube in socket, set rheostat to predetermined reading given in instruction sheet, and take readings with push button up and down. The difference in the readings shows the condition of the tubes. For 110 volt 60 cycle AC current. Shipping weight, 4 pounds. **\$5.88**

3R1750—List Price, \$10.00. Net.....

Type 292, same as above, except designed for use with 100-120 volt 25 to 40 cycle current. **\$7.35**

3R1756—List Price, \$21.50. Net.....

All Prices Quoted Are Net—There Are No Further Discounts

Hoyt Radio Meters

Type 17 Panel Meters



Equipped With D'Arsonval Movement, resistance, 70 ohms per volt. Cases 2 inches in diameter; 2 1/4 inches across front flange. Zero adjuster provided. All cases flush mounting. Black finish. Ship. wt., 3 lbs.

3R1802—Filament voltmeter. 0-8 volts. List, \$7.00. **Net \$4.46**

3R1820—Double range voltmeter. 0-7 1/2-150 volts, with built-in switch. List, \$9.00. **Net \$5.73**

3R1888—Milliammeter. 0-50 milliamperes. List, \$7.00. **Net \$4.46**

3R1804—Milliammeter. 0-25 milliamperes. List, \$7.00. **Net \$4.46**

3R1889—Milliammeter. 0-100 milliamperes. List, \$7.00. **Net \$4.46**

AC Meters, Type 536



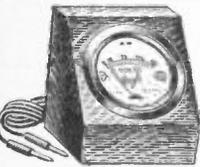
A panel voltmeter for use with AC operated receivers, or for small test panels. The resistance even in the lowest range is over 20 ohms per volt. The case is two inches in diameter for flush mounting with a narrow black rim. Ship. wt., 3 lbs.

Volts	List Price	Net
3R1793 0-3	\$5.00	\$3.19
3R1794 3-9	5.00	3.19
3R1795 5-25	5.00	3.19
3R1796 50-150	7.50	4.78

Type 536 Ammeters

Amps.	List Price	Net
3R1757 0-3	\$5.00	\$3.19
3R1758 0-15	5.00	3.19

Mounted AC Voltmeter Type 551



An AC voltmeter with range of 0-150 volts, mounted in beautiful mahogany block for table or set use. Face of meter is at a 45 degree angle and is plainly visible if placed on top of set. Very ornamental and its use will prevent the burning out of AC tubes. Complete with three foot leads. Shipping weight, 2 pounds.

3R1805—List Price, \$5.00. **Net \$3.18**

AC Pocket Voltmeters Type 5473



A compact sensitive Voltmeter for measuring voltage on AC sets. The three scales (0-3, 3-9, 50-150 volts) cover all filament voltages applied to the popular AC Tubes and provide a means of checking line-voltage as well. A resistance of more than 20 ohms per volt on all scales insures reliability in all measurement. Reads DC also without appreciable error above 30 volts.

Supplied in a handsome nickel case, 2 1/4 inches diameter, with a pair of special leads, and packed in a durable leather carrying case. The dial is marked in red at the important points—1 1/2, 2 1/2, 3, 5, 7 1/2, and 110 volts. Shipping weight, 3 pounds. **3R1801**—List Price, \$16.00. **Net \$10.19**

Sterling "Metered" Tube Rejuvenator R-403



For large and small tubes, including 300-A, 171, 233, 240, 210, and all tubes having thoriated filaments. Emission meter enables the user to determine instantly whether a tube needs reactivation and to what degree the filament emission has been restored by the process. Handle on back. Adapter for small tubes included. Size, 6 1/2 x 5 inches. For 110 volt, 60 cycle AC operation. Ship. wt., 8 pounds. **3R1804**—List, \$14.50. **Net \$8.53**

Hoyt Radio Rotary Meter Style 3



3R1922
List, \$26.00.
Net, \$19.11

A precision volt ammeter, D'Arsonval Type. Resistance 70 ohms per volt. Combines all ranges necessary for radio testing—0-20 M.A.; 0-100 M.A.; 0-10 Amps.; 0-10 volts; 0-200 volts. Can be used in circuit continuously. By turning meter any scale can be used without breaking the other circuits. Mounted on a beautifully polished mahogany base. All scales are calibrated by hand in comparison with standard laboratory meter. Quantities as small as 1/4 M.A. or 1/2 volt easily read. Dimensions overall 4 1/2 x 3 3/4 x 2 1/2 in. Shipping wt., 3 lbs.

"B" Eliminator Voltmeter



A high resistance Voltmeter for use with "B" eliminators. Much more satisfactory than ordinary voltmeters as it uses very little current, 1 M.A. for the whole scale deflection. Resistance is 1,000 ohms per volt. A very sensitive and high grade instrument. Quantity production makes possible the extremely low price we are able to offer, on scales—0-100; 0-500. Shipping weight, 4 lbs. **3R1800**—List, \$28.00. **Net \$20.58**

Model 548 Meters

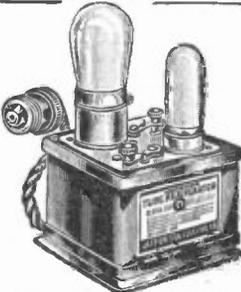


Well-made, dependable meters at a low cost. Both AC and DC types are accurate enough for ordinary readings, but this type meter is not recommended for precision laboratory work. DC meters are magnetic type; AC meters are repulsion type, 2 inch cases with 1/2 inch flange. Shipping weight, 1 lb. 1/2 inch flange. Shipping weight, 1 pound. **DIRECT CURRENT TYPE**

Volts	List Price	Net
3R1759 0-5	\$2.50	\$1.60
3R1760 0-8	2.50	1.60
3R1761 0-150	3.00	1.91

ALTERNATING CURRENT TYPE

Volts	List Price	Net
3R1762 0-3	\$2.50	\$1.60
3R1763 3-9	2.50	1.60
3R1764 0-15	2.50	1.60
3R1763 0-150	3.00	1.91



Jefferson 175 Tube Rejuvenator

\$2.65

At its small cost this rejuvenator soon pays for itself. Preferred by many dealers because it has two sockets—one for large UV or UX 201A tubes and one for the smaller UV100 tubes. Seven-foot cord and plug included. Ship. wt., 4 lbs. **3R1710**—100 to 120 volts; 50 to 133 cycles. List, \$4.50. **Net \$2.65**
3R1711—100 to 120 volts; 25 to 45 cycles. List, \$6.00. **Net \$3.53**
3R1713—Adapter for UX 199 or UX 120 tubes. List, 75c. **Net 44c**

Readrite High Resistance Voltmeters



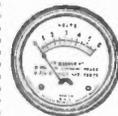
For testing voltage output of all "B" eliminators. Portable type. Accurately hand calibrated and nicely finished, with silver metal dials. Ship. wt., 1 lb.

3R1785—0-300 volts. List, \$5.00. **Net \$2.94**
3R1786—0-500 volts. List, \$6.00. **Net \$3.53**

AC Voltage Tester

For either AC set or "A" eliminator, as well as other commercial uses. **3R1787**—0-150 volts. List, \$5.00. **Net \$2.94**

Readrite Panel Meters



Well made meters that check your circuits accurately. Require 2 1/2 inch hole. Rim is 2 1/2 inches diameter. Back clamps furnished. Metal silvered dials. Ship. wt., 1 lb. Voltmeters for measuring "A" and "B" voltages.

List	Net
3R1936 —0-6 volts	\$1.00 \$0.59
3R1958 —0-8 volts	1.00 .59
3R1959 —0-150 volts	1.50 .88
3R1965 —0-8-100 volts	1.75 1.03

Ammeter for measuring filament current. **3R1961**—0-10 amps. \$1.00 **\$0.59**

Milliammeters for measuring plate current. **3R1964**—0-25 milliam. \$1.75 **\$1.03**
3R1964—0-25 milliam. 1.00 **.59**
3R1975—0-100 milliam. 1.00 **.59**
3R1976—0-400 milliam. 1.00 **.59**

AC Voltmeters.

3R1938 —0-6 volts	\$3.00	\$1.76
3R1939 —0-10 volts	3.00	1.76
3R1962 —0-15 volts	3.00	1.76

Sterling Panel Meters

High grade inexpensive meters for checking the voltage or current in any receiving circuit. Flange type, require 2 inch hole. Rim is 2 1/2 inches diameter. Back clamp included. Shipping weight, 1 pound.



Ammeters for measuring rate of consumption in any number of tubes. List Net
3R1941—0-3 amps. \$3.00 **\$1.76**

Voltmeters to indicate correct rheostat adjustment, to control voltage of filaments and to measure "A" and "B" battery voltages.

3R1963 —0-6 volts	\$3.00	\$1.76
3R1942 —0-8 volts	3.00	1.76
3R1943 —0-150 volts	3.50	2.06

Milliammeters with capacity and scale for measuring plate current of one or more tubes. **3R1944**—0-15 milliamps. \$3.00 **\$1.76**
3R1945—0-30 milliamps. 3.00 **1.76**
3R1925—0-50 milliamps. 3.50 **2.06**

Two-circuit voltmeter with built-in push button. **3R1930**—0-7 1/2-150 volts \$5.00 **\$2.94**

AC voltmeters for rheostat control of filament voltages on AC tubes. The 0-15 voltmeter is used by transmitting amateurs. **3R2020**—0-15 volts \$4.50 **\$2.65**
3R2021—0-3 volts 4.50 **2.65**

Socket Plug-in Test Meters



Tell the exact voltage at each tube. Just remove tube and plug-in meter. Made in five types. Four to use in sets and one for plug-in to wall socket, to test AC line voltage. Ship. wt., 1 1/2 lbs.

List	Net
3R1788 —0-7 1/2 volt for AC filament	\$2.50 \$1.47
3R1789 —0-300 volts DC	3.00 1.76
3R1790 —0-600 volts DC	4.50 2.65
3R1791 —0-50 volts for grid bias test	3.00 1.76

AC Line Tester



Plugs directly in light socket. Voltage quickly determined. Ship. wt., 1 lb. **3R1792**—List, \$3.00. **Net \$1.76**

Hoyt Watch Case AC Voltmeter

For checking AC line voltages. 0-150 volts. Ship. wt., 1 lb. **2R1806**—List, \$3.75. **Net \$2.21**



Test Instruments for Tubes and Sets

Hoyt Universal Service Set Tester Model 500 for A.C. and D.C.

A compact, accurate instrument for making rapid tests of wiring, power supply and tubes, in all kinds of Radio sets. Tubes may be tested with this instrument under actual working conditions, and AC line voltage checked as well. Tests sets, power packs, etc. The Tester is equipped with a DC precision moving coil Volt-Milliammeter and a three-range AC Voltmeter. The DC Voltmeter has a resistance of 1,000 ohms per volt which gives accurate results when testing AC operated sets or DC sets equipped with socket powers or power amplifiers as well as those supplied with batteries. A long scale, knife-edge pointer and excellent damping make close and rapid readings possible. Five DC scales are furnished, 10 volts, 100 volts, 500 volts, 25 milliamps and 100 milliamps. Three scales are available on the AC Voltmeter—3 volts, 9 volts and 150 volts.

Tests Tubes and Circuits

The instrument contains a tube socket and has a flexible four-wire lead terminating in a plug which with the furnished adaptors fits all set tube sockets. Plainly marked push-buttons and switches provide easy operation during each test. Shipping weight, 20 lbs.

2R1773
List, \$90.00.
\$66¹⁵
NET



Sterling AC Set and Tube Tester for Service Men R-512

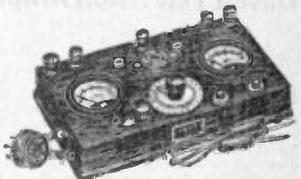


2R1774
List Price, \$35.00.
Net **\$20⁵⁸**

A portable AC set and tube tester. Tests plate current on all AC tubes, finds open grids, locates otherwise defective, detects open circuits in transformers, poor contacts, also tests "A" and "B" power supply in any set. Right hand meter upper scale of 0-200 volts shows "B" voltage on tube, also tube drain on "B" supply when button is pressed. Lower scale of 0-30 milliamperes tests grid, shows grid change for test grid. Left hand meter has double scale for voltages higher and lower than 3 volts and shows "A" voltage on tubes. Compact. Size 1x5½x2½. Equipped with connecting leads, socket plug and three adaptors. Shipping weight, 18 pounds.

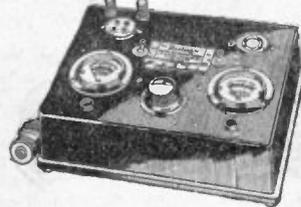
Hoyt Universal AC-DC Tube Tester Model 400

Small and light, may be easily carried on a service call. Takes its operating power from any one of the three sources—(1) batteries, (2) the AC line, (3) a radio set tube socket. Provision is made for testing all types of tubes, including tubes with top heater connections such as McCullough, Kellogg, etc. A dry "B" battery is recommended as plate supply. A tube base plug with four leads can be supplied, which when it is plugged into a receiver tube socket, operates the tester from the receiver power supply. Especially useful on outside service jobs. Ship. wt., 5 lbs.



2R1775—Model 400. List Price, \$30.00. Net.... **\$22⁰⁵**
Tube base plug with four leads to operate tester from receiver power supply.
2R1776—List Price, \$1.50. Tube and Leads. Net..... **\$1.10**

Sterling Tester for AC and DC Tubes Model 510



TESTS ALL TUBES

Tests all styles including screen-grid. Shows performance under actual operating conditions. Checks emission from AC and DC and test-rated DC tubes. Both emission and grid performance tests are shown on the combination meter having a plate milliamperage scale 0-15 and emission scale 0-100. Filament voltmeter scale 0-1.5. For 115 volt 60 cycle AC. Size 6½x9½x3½ inches high. Shipping weight, 12 pounds.

2R1777
List Price, **\$20⁵⁸**
\$35.00. Net....

Hoyt AC Attachment for DC Tube Testers Model 101

A simple and inexpensive unit, consisting of a heavy-duty rheostat and a low reading voltmeter, responsive to either DC or AC. A special adapter for the UY227 tube is included, as well as a pair of leads for heater type tubes with top connections. The voltmeter has two scales—0-3 and 3-9 volts.



2R1778—Model 101, complete. List, \$15.00. Net..... **\$11.02**

Sterling Junior Tube "Short" and Emission Checker R-514



2R1780
List Price, **\$7.94**
\$13.50. Net....

Designed to check tubes for "shorts" between "fil-grid," "plate-grid," and "plate-fl." Operates from 115 volt 60 cycle AC line. Invaluable in checking incoming tube stocks, also letting customer actually see that tube is good when purchased. Small enough for service man, rugged, sure. Size 3x3x6. Ship. wt., 6 lbs. Includes adaptors for 189, 120 tubes.

Sterling "Home" Tube Tester R-411

For those installing and servicing 15 volt AC tubes, the attachment with meter ranges 0-3 volts and 4-15 volts can be supplied.



2R1779—Model 101-AR. List, \$15.00. Net.... **\$11.02**
2R1700 — List, \$7.50. Net..... **\$4.41**

Sterling "Universal Service" Tester



battery hook-up for counter inches high. Shipping weight, 5½ pounds.
2R1745—List Price, \$25.00. Net..... **\$14⁷⁰**

Designed especially for outside service work. Is used either with "A" and "B" batteries or "A" and "B" socket power units. Tests large and small tubes up to and including the 171 type. Milliammeter shows the amplifying strength of tube. Combination voltmeter tests both the "A" and "B" battery voltages. Locates defective circuit wiring, open transformers, poor contacts in sockets, etc. Voltmeter 0-10, 0-200 scale. Milliammeter 0-5 scale. Wiring diagram of testing furnished. Size, 6½x7¼x3½ inches high. Shipping weight, 7 pounds.

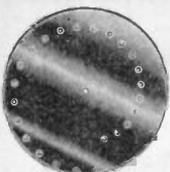
Sterling "Professional" Tube Tester R-412

Easily hooked up to batteries under counter for checking all tubes including the 171 power amplifier and 200-A detector. It is equipped with a rheostat and meters—filament 0-3 volts, plate volts 0-120 and milliamperes 0-15 scale. Supplied with adaptors for all tubes except WD. Size, 6½x8½x3 inches high. Shipping weight, 7 pounds.



2R1781—List Price, \$25.00. Net..... **\$14.70**
Adapter for W series tubes.
2R1782—List, \$1.00. Net..... **59c**

Experimental Television Equipment



Scanning Discs

Designed to afford the best obtainable image. Holes are laid out mathematically so that the projected image will be as clear as possible with a minimum of haziness or black streaks. Different number aperture to accommodate the stations who are transmitting on a different combination.

Accurately designed, with holes protracted at the correct spiral and interval. For 1 1/2 x 1 1/4 inch pictures.

- 3R6520—24 aperture. List, \$ 5.00. Net. \$3.18
- 3R6521—36 aperture. List, 7.50. Net. 4.79
- 3R6522—45 aperture. List, 10.00. Net. 6.37
- 3R6523—48 aperture. List, 10.00. Net. 6.37
- 3R6524—1/4 in. bushing. List, \$1.00. Net. .64

Special oversize bushing for 45 and 48 aperture discs. List, \$3.50. **\$2.23**

Net. Shipping weight, 4 pounds, each.

Daven Television Amplifier



To obtain the most satisfactory results with the least possible distortion a resistance coupled amplifier must be employed along with Hi-Mu Tubes. This one for it amplifies with a minimum of distortion and results in pictures which are very much clearer than can possibly be obtained with transformer coupled amplifiers.

supplied by Daven is ideal for this purpose and results in pictures which are very much clearer than can possibly be obtained with transformer coupled amplifiers.

- 3R6526—3 Stage amplifier unit only. List, \$12.50. Net. **\$7.98**
- 3R6527—Set of three matched tubes. List, \$9.00. Net. **\$6.31**

Shipping weight, 3 pounds.



Daven Television Kit

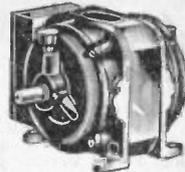
If you are building a complete television nothing can be more appropriate than the purchase of this television kit. Everything needed for reception of pictures is provided.

Items included are scanning disc, motor bushing, rheostat, Universal Motor, neon tube, three stage amplifier, ballast resistors. No tubes included. Complete instructions. Ship. wt., kit 10 lbs., motor 4 lbs.

- 3R6528—Complete Kit. List, \$60.00. Net. **\$38.22**

- 3R6529—Motor Only. List, \$25.00. Net. **\$15.92**

See page 141 for De Jur Resistance Coupled Amplifier. Suitable for Television Work.



Television Motor

Driving the scanning disc requires a motor with maximum flexibility and still sufficient control to enable it to maintain a desired speed when once regulated. 1/4 horse power induction motor designed especially for this purpose. Speed control by any primary rheostat which will handle a load of two amperes, for operation on 110 volts 60 cycles only.

- 3R6531—Television motor. **\$19.11**
List, \$30.00. Net.
- 3R6532—Machined flange for scanning disc. List, \$3.00. Net. **\$1.91**
- 3R6533—Rubber cushion feet. List, \$2.50. Net. **\$1.60**

Ship. wt., motor, 10 lbs. Others, 1 lb. ea.



Raytheon Kino-Lamp

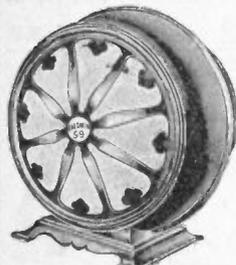
Especially designed for television work. A high character Neon Tube instantly responsive and with full plate intensity. Connected directly to output last stage with suitable resistance in series. Requires a DC potential of 220 volts for correct operation.

- 3R6535—Kino-Lamp. **\$4.41**
List, \$7.50. Net.

Photo Electric Cell

For television transmission. Useful only to the amateur or other who is authorized to transmit television pictures. Extremely sensitive to light. Will function on ordinary incandescent burner. Ship. wt., 2 lbs.

- 3R6536—List, \$20.00. Net. **\$11.67**



Baldwin

99

Magnetic Speaker

Quality

The ability to reproduce sound in tone and volume the exact duplicate of the program being broadcast without addition or omission is the paramount feature of this speaker. It is both an electrical instrument of fine precision and a superior musical instrument. It handles with infinite grace the sounds characteristic of musical instruments as well as the tones and inflections of the human voice.

Power

The 99 is capable of handling any power amplifier up to a 210 tube with 500 volts on the plate without blasting or faltering in any manner. It is designed to give clear volume without rattles on any receiver using up to 10 tubes.

Sensitivity

The usual high quality of the Baldwin is faithfully presented in this model. This new special unit employs the balanced armature, making it the most sensitive magnetic unit known. Sound from this unit is amplified in a tone chamber which combines exponential and conical curves in an entirely new way. The material of the tone chamber has two hard surfaces and a soft core, giving the mellowness of sound not found in many other speakers.

Beauty

In seeking to better this speaker in all ways possible, beauty has not been neglected. More than customary thought and attention has been given to the design and general appearance of this speaker unit. It was designed by one of America's foremost artists, and its ornate lines catch and hold one's eye. The coloring is of dark bronze with the grille of a lighter shade of silk. The "99" adds to the beauty of every room no matter how richly furnished. Shipping weight, 15 pounds.

- 3R5259—List, \$28.50. Net. **\$16.76**

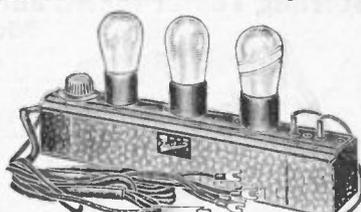
Carter Adapters

Carter adapters are in general use and provide a 3 1/2 in. diameter means for using the new tubes in many of the older receivers.

- TYPE 3A ADAPTER
For adapting UX199, or any UX tube to old style UX199 type socket.
3R6515—List, 75c. Net. **45c**

- TYPE UX2 ADAPTER
For adapting UX199, UX201A or any UX tube to old style UX199 type socket.
3R6515 — List, 75c. Net. **45c**

Na-Ald Television Amplifier



A completely wired unit incorporating a distinctive circuit, employing neither transformers, resistance nor impedance. Reproduces with greater fidelity and no distortion. Attaches to detector output of old set in two minutes with no changes in wiring. Insures wonderful improvement in performance. Uses any style tube with power tube in last stage if desired. Inbuilt output unit. Wire for connections to detector output and batteries included. Shipping weight, 6 1/2 lbs. **\$14.69**

- 3R5784—List, \$25.00. Net. **\$14.69**

Daven Television Lamp

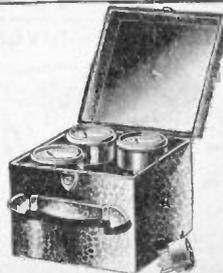
Designed to operate in series with an output tube. Will give excellent elimination with a current of 20 mils, or less. Where an extremely bright light is required tube may be lighted up to 80 mils. by means of suitable output tubes, singly or in parallel. Shipping weight, 3 lbs. each.

- 3R6537—List \$12.50. Net. **\$8.57**
DAVEN OUTPUT TUBE
- 3R6538—List, \$3.50. Net. **\$2.40**
DAVEN OUTPUT POWER TUBE
- 3R6539—List, \$9.00. Net. **\$6.17**

Beede All Purpose Test Kit

The complete testing outfit for the service man, dealer, or experimenter. All the meters one needs for checking the functioning of tubes, testing light voltages, and obtaining other information needed, to determine the correction operation of a receiver. Extra adapter plug provided so test box may be plugged directly into 227 socket of AC receiver. Entire instrument contained in a leatherette covered wooden box, conveniently arranged and provided with carrying strap, making entire outfit readily portable. Useful and adaptable to make every necessary test on every set. Shipping weight, 4 lbs. **\$8.82**

- 3R1744—List, \$15.00. Net. **\$8.82**



New "PAL" Portable Phonographs !!

Take Your Favorite Music With You

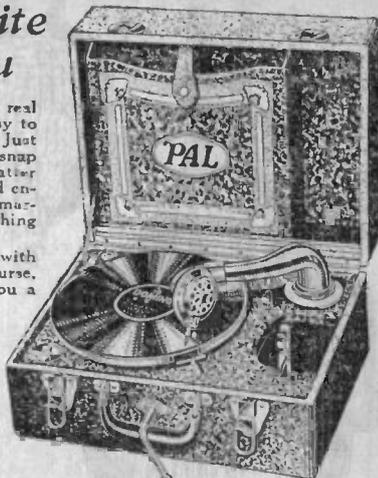


"Pal" Portable Phonographs are real "pals" to you wherever you go. Easy to carry, easy to pack in car or suitcase. Just fill them with your favorite records, snap the lock and be on your way. No matter where you go you can have music and entertainment at will. Each "Pal" has marvelous tone quality and astonishing volume.

"Pal" portable phonographs are built with a wide range of prices to suit every purse, and our low wholesale prices give you a good round profit on every sale.

SELL "PAL" PORTABLES TO YOUR FRIENDS

With a portable phonograph and an electric pickup unit, hooked up to your radio you can use the electric amplifying system on your radio to secure wonderful tone quality of reproduction with any volume you desire.



"PAL" DeLuxe

8R10557

List \$25.00

\$14⁷⁰

Net

State Color

An extra quality "Pal" model with forty inch sound chamber and single spring motor. Plays more than two records at one winding. Cabinet is covered with genuine DuPont Fabricoid with embossed ornments finished in antique gold. Cabinet is kiln dried wood, glued and lock cornered, with three ply veneer top and bottom. Finished in black, blue, red and brown. Cabinet is 15½ inches long; 12 inches wide; 7¾ inches high. Weighs 17 pounds. Genuine Thorens motor. All metal parts heavily nicked and polished. Improved new tone arm with special tone amplifier. Full piano hinge cover. Large record space. Double snap locks. Easy grip handle. Deep rich tone, with all the volume you want.

"Pal" Junior



8R10555

List \$15.00

\$8⁸²

Net

State Color

A popular priced portable model, and a big seller at the retail price of \$15.00. Plays two ten inch records with one winding. Covered with genuine DuPont Fabricoid in black, blue, red, brown and green. Made of selected kiln dried wood, glued and lock cornered with three ply veneer top and bottom, 13½ inches long; 12½ inches wide; 7 inches high. Weighs 12 pounds. Genuine Thorens precision motor. Heavily nicked tone arm and metal fittings. Special reproducer gives clear smooth tone quality with full volume. Strong carrying case with easy-grip handle and double snap locks. Plenty of space for records. A great value for the price and one which will mean easy sale and satisfied customers for you. Order one for a sample and display it. Then you will realize the field for a portable at a reasonable price.

Electrical Phonograph Pickup

A full line of electric phonograph pickups are shown on page 101.

An electric pickup and a portable phonograph make an ideal combination to secure the kind of music you desire—at the time you desire it.

"Pal" Standard

The "Pal" Standard is the only machine at the price with a two spring motor. Plays nearly three ten inch records at one winding. Covered with genuine DuPont Fabricoid in blue black, tan and red. Kiln dried bass wood cabinet with three ply veneer top and bottom. Heavily nicked turntable and metal fittings. Improved tone amplifier. Smooth rich velvety tone. Genuine Thorens imported double spring motor, improved model. 15½ inches long; 12 inches wide; 7¾ inches high. Beautiful sturdy carrying case with easy grip handle and double locking snap locks. Ample room in pocket in lid for carrying records. Speed regulator in easily reached position. A revelation in portable phonographs. Better tone than in many much higher priced cabinet machines, combined with the ease with which they can be transported from place to place, make these an ideal machine to sell—especially at our price.

8R10556

List \$25.00

\$14⁷⁰

Net

State Color

"Pal" Supreme

8R10558

List \$30.00

\$17⁶⁴

Net

State Color



IN THE NEW REVELATION AUDAK BOX

Will play three ten inch records at one winding. Covered with extra heavy shark grain DuPont Fabricoid embossed in Moorish gold. Your choice of four colors, black, blue, brown and red. 12¾ inches wide; 16¼ inches deep; 7¾ inches high and weighs 18 pounds. Finest bass wood cabinet, glued and lock cornered with three ply veneer top and bottom. All nicked parts are highly nicked and polished. Contains improved throw back tone arm and special tone amplifier.

"Pal" KiddiePack

8R10559

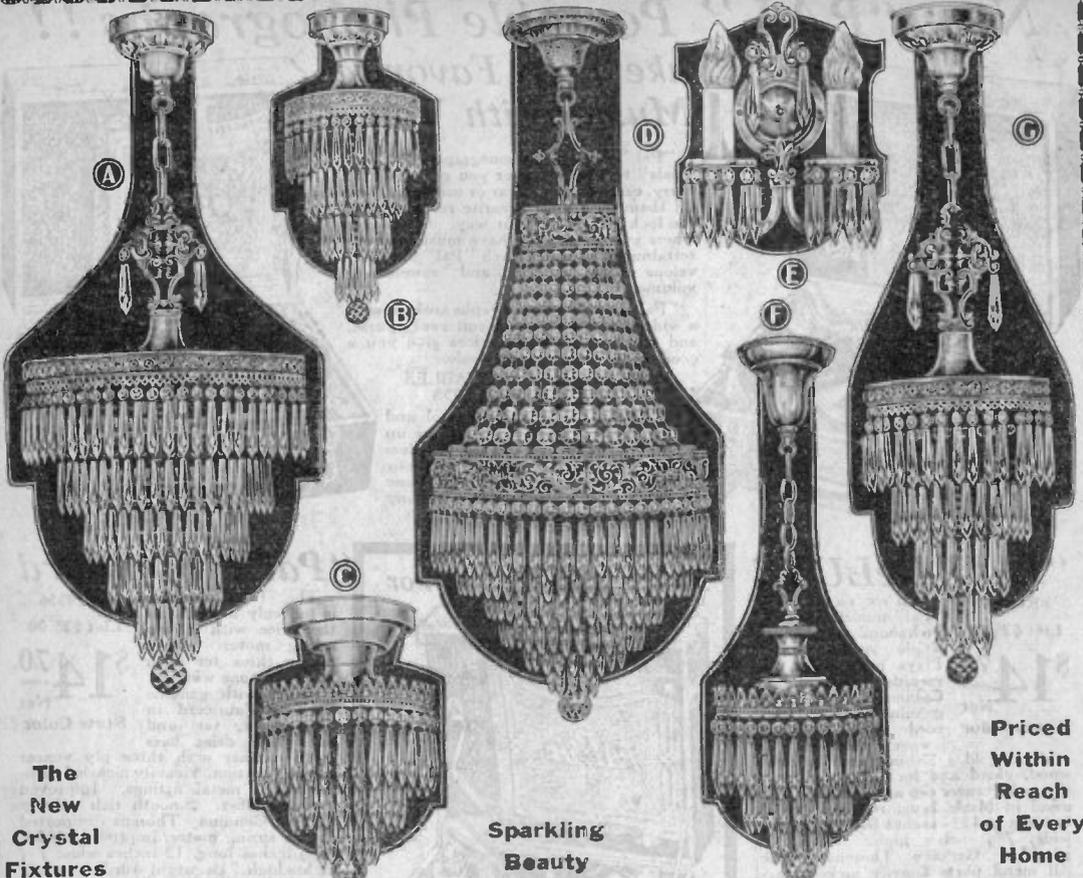
List \$10.00

\$5⁸⁸

Net



A great portable for the kiddies. Just the thing to take with them on all their outings. Has full spring motor loud volume reproducer and is a close duplicate of the big "Pals" in every way. 11½ inches wide; 12 inches long; 3½ inches deep. Weighs 7½ pounds. Plays four 7 inch Little Tot or Playtime records with one winding. Also plays all ten inch records. Carries 6 records on the spindle of the turntable. An extremely popular number that shows you a fine profit at our price.



The
New
Crystal
Fixtures

Sparkling
Beauty

Priced
Within
Reach
of Every
Home

Strikingly Beautiful Fixtures at New Low Prices

This popular line of fixtures will be found in many of America's finest homes. They are chosen, not only for their pleasing decorative effect, but because of their strikingly beautiful appeal when the soft glow of light threads through the unusually high grade 3/4 inch glass crystals. Because of the special shading of these crystals, a color tinted or iridescent effect is produced, thereby giving great charm to the room. Then, too, these fixtures will be-

come perfectly with any scheme or color of room decoration—decide it worth-while advantage not to be overlooked.

Heavily chased silver finish with delicate touches of black is expertly applied to the metal parts by special processes which make the fixtures look like new long after they have been installed. All fixtures are completely wired and have keyless sockets for wall switch control.

- A** Hanging Fixture, Length 36 inches, Spread 15 inches, 3 keyless sockets. Shipping weight, 40 pounds.
5R7979—List Price, \$36.00. Net **\$18.00**
- B** Ceiling Fixture, 1 Light, Length 27 inches, Spread 9 inches, 1 keyless socket. Shipping weight, 12 pounds.
5R7981—List Price, \$19.75. Net **\$9.88**
- C** Ceiling Fixture, Length 18 inches, Spread 8 inches, Keyless socket. Shipping weight, 10 pounds.
5R14365—List Price, \$10.00. Net **\$6.95**

- D** Hanging Fixture, Length 36 inches, Spread 15 inches, Keyless sockets. Shipping weight, 18 pounds.
5R14366—List Price, \$54.00. Net **\$32.94**
- E** Two Light Candle Bracket, Spread 8 inches, Height 10 inches, Turn button switch, Ship. wt., 6 lbs.
5R7982—List Price, \$9.00. Net **\$4.35**
- One Light Candle Bracket, Not shown, same as above, only one light. Shipping weight, 4 pounds.
5R7999—List Price, \$5.00. Net **\$3.30**

- F** Hanging Fixture, Length 36 inches, Spread 5 inches, 1 keyless socket. Shipping weight, 15 pounds.
5R14367—List Price, \$12.00. Net **\$8.15**
- G** Hanging Fixture, Length 36 inches, Spread 4 inches, 1 keyless socket. Shipping weight, 15 pounds.
5R7980—List Price, \$21.75. Net **\$10.88**

Bulbs Not Included
See Page 188 for Bulbs

Decorative Wall Brackets—Pleasing, New and Different



The Ship

An exceedingly well proportioned candle bracket of unusual design. Its presence in any room greatly enhances the artistic appeal. Made of aluminum alloy and beautifully finished in a pleasing tone of brown, with touches of green

and red richly blended. Width of back 9 1/2 inches. Depth 12 inches. Extends 5 inches. Shipping weight, 6 pounds.
5R7983—List Price, \$6.00. Net **\$3.10**



The Adam

Conservatively designed, but rich and handsome in appearance. Its installation in any home brings an air of cultured refinement. Made of aluminum alloy and finished in the ever popular ivory polychrome.

Height 10 inches. Extends 3 1/2 inches. Shipping weight, 6 pounds.
5R7984—List Price, \$5.00. Net **\$2.65**



The Stratford

The delicate shading of the Ebon and Polychrome finished richly designed two light candle bracket provides the softness so often desired in lighting fixtures. Made of cast aluminum—the best metal possible to choose for this type of fixture. Wall plate size

4 1/2 inches wide by 11 inches high. Extends 4 1/2 inches. Shipping weight, 4 pounds.
5R7985—List Price, \$5.00. Net **\$2.78**



Genuine Solid Bronze

The art of interior decoration is oftentimes impaired by improper selection of lighting fixtures. In the past this error was excusable, but not so today. Pleasing beauty with artistic lighting equipment is now made possible by constantly employing artists whose sole aim is to improve on such designs and patterns as have already been made. The above line of fixtures is the result of many painstaking hours, and it is with great pride that we present it to our dealers. Genuine solid bronze because of its inherent characteristics of possessing great strength combined with beauty is the material from which the various pieces in this group have been made.

Finer Creations at Surprisingly Low Cost

The everlasting natural finish readily lends itself to any scheme of room decorations which is, of course, essential in most homes in which good taste and judgment have been the byword in the selection of the furnishings. All fixtures are completely wired and assembled, ready for installation.

- A** Two Light Candle Bracket. Spread $3\frac{1}{2}$ in. Wall plate size $3\frac{1}{2}$ by 9 $\frac{1}{4}$ in. Turn button switch. Shpg. wt., 6 lbs. List Price, \$9.00. **5R14349—Net. \$4.85**
- B** Five Light Drop Candle. Length, 36 in. Spread 18 in. Keyless sockets. Shpg. wt., 28 lbs. List, \$28.00. **5R14346—Net. \$17.80**
- C** Five Light Ceiling. Length, 36 inches. Spread, 18 inches. Keyless sockets. Shpg. wt., 25 lbs. List, \$28.00. **5R14347—Net. \$17.80**

- D** Three Light Drop Candle. Length, 36 inches. Spread, 13 inches. Keyless sockets. Shpg. wt., 12 lbs. List, \$21.00. **5R14348—Net. \$13.15**
- E** Five Light Drop. Length, 36 inches. Spread, 18 inches. Keyless sockets. Shpg. wt., 28 lbs. List, \$28.00. **5R14345—Net. \$17.80**

- F** Hanging Hall Light. Length, 36 inches. Spread, 7 inches. Keyless socket. Shpg. wt., 12 lbs. List, \$18.00. **5R14351—Net. \$11.35**
- G** One Light Candle Bracket. Wall plate size $3\frac{1}{2}$ by $9\frac{1}{4}$ inches. Turn button switch. Shpg. wt., 4 lbs. List, \$7.50. **5R14350—Net. \$4.35**

**Bulbs Not Included
See Page 188
for Correct Bulbs**

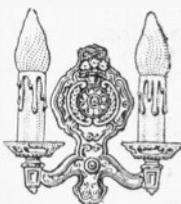
- H** Beam Light. Diameter 6 inches. Wired complete. Keyless socket. Shipping wt., 5 pounds. **5R14363—List, \$4.50, Net. \$3.15**
Suitable for use with set on this page and Seattle set on page 166.

Two Light Ceiling



A high quality ceiling fixture at an unusually low price. The perfect combination of ivory and color tints with touches of amber will greatly appeal to anyone. Equipped with keyless socket and spreads 12 inches. Shpg. wt., 5 lbs. List, \$2.85. **5R14354—Net. \$1.65**

Two Light Candle Bracket



Candle Brackets in beautiful color hues greatly improve the appearance of any room. The two light bracket is finished in color tints with a predominance of ivory. Turn button switch. Shpg. wt., 4 pounds. List, \$4.35. **5R14357—Net. \$2.62**

New Floral Effects in Pastel Tints For Bedrooms, Halls, Breakfast Rooms



Three Light Ceiling

An entirely new line of fixtures in pleasing colors. The artistic design is fashioned after the English Wedgewood pattern which is so popular at the present time. The delicate blending of ivory and soft color tones with remote touches of amber places these fixtures in a class by themselves for we know of no other similar pieces that will compare with them, both in price and appearance. The five pieces shown are readily adaptable to sun parlors, breakfast rooms, bedrooms and halls. The three light pictured above has keyless sockets and a 12-inch spread. Shpg. wt., 6 lbs. List, \$3.75. **5R14355—Net. \$2.35**

Beam Light

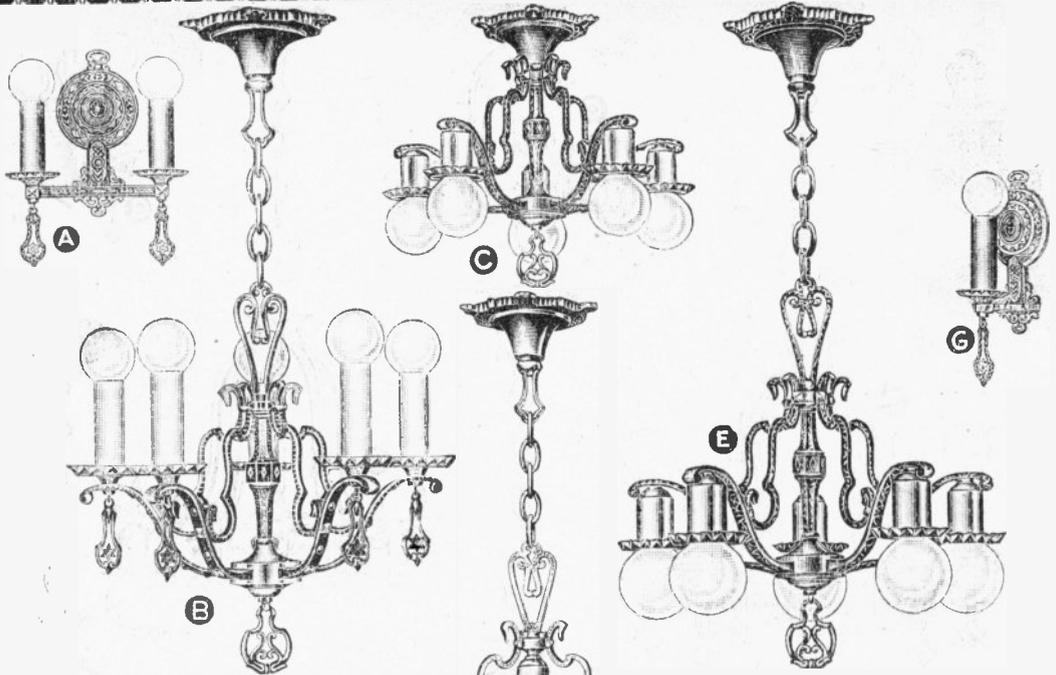
A favorite Beam or One Light Ceiling light for bedrooms, hall, closets, etc. Finished in ivory and striking colors with touches of amber. Diameter of ceiling plate, 6 $\frac{1}{2}$ inches. Keyless socket. Shpg. wt., 3 lbs. List, \$1.20. **5R14353—Net. \$0.78**

One Light Candle Bracket



Appropriate "Wax Drips" truly give this One Light Candle Bracket in ivory and color tints a remarkably realistic appearance. Size of wall plate $4\frac{1}{2}$ by 8 $\frac{1}{2}$ inches. Turn button switch. Shpg. wt., 4 lbs. List Price, \$3.00. **5R14356—Net. \$1.65**

See Page 188 for Correct Bulbs



New SEVILLE

In the advancement of better home lighting, Bronze has been chosen as one of the finer metals for decorative lighting fixtures, as it is more adaptable to the delicate design effects than most other metals. Then too, its beautiful natural color is considered by many to be in keeping with the more costly interior decorations found in the wealthier class of homes.

This metal has long been used in the manufacture of the most costly types of fixtures and it has been only in recent years that manufacturers have been able to get the costs down. Because of the new low prices it is now easily

Solid Cast Bronze

possible for the dealer to sell the Seville Line of Fixtures at popular prices and still make a nice margin of profit for himself. The design, which has been copied from the Spanish, at once suggests dignity and refinement with distinct individuality. Do not overlook the splendid opportunity this group of fixtures affords. The plain but beautiful pattern greatly appeals to many classes of people, and by carrying a line of these fixtures in stock you can assure yourself a generous share of this business. All fixtures have keyless sockets for wall switch control and are fully assembled and wired, ready for installation. Bulbs not included. See page 188 for correct bulbs.

A Two Light Candle Bracket. Turn button switch. Keyless sockets. Wall plate 4 1/2 by 9 inches. Spread 9 1/2 inches. Shipping weight, 6 pounds.
5R14362—List Price, **\$4.45**
 \$8.00. Net

B Five Light Candle. Length 36 inches. Spread 18 inches. Keyless sockets. Shipping weight, 22 pounds.
5R14360—List Price, **\$13.40**
 \$20.00. Net

C Five Light Ceiling. Spread 18 inches. Length about 15 inches. Keyless sockets. Ship. wt., 22 lbs.
5R14358—List Price, **\$13.40**
 \$20.00. Net

D Hanging Hall Fixture. Length 36 inches. Spread 7 inches. Keyless socket. Shipping weight, 18 pounds.
5R14364—List Price, **\$6.82**
 \$13.00. Net

E Five Light Drop for Ball Lamps. Length 36 inches. Spread 18 inches. Keyless sockets. Ship. wt., 22 lbs.
5R14359—List Price, **\$13.40**
 \$20.00. Net

G One Light Candle Bracket. Turn button switch. Keyless socket. Wall plate 4 1/2 by 9 inches. Extends 4 inches. Shipping weight, 6 pounds.
5R14361—List Price, **\$3.84**
 \$7.00. Net



Genuine Solid Copper Lantern

5R7974—List Price, \$9.00.
 Net **\$4.85**

Made of solid hammered copper in natural copper finish. Height 11 1/2 inches. Lantern size 5 1/2 inches wide, 7 3/4 inches long. Dark amber crackle glass panels. One keyless socket. Shipping weight, 4 pounds.



Solid Copper Lantern Bracket

5R7975—List Price, \$10.00.
 Net **\$5.15**

Hammered solid copper in natural finish. Favorite old lantern style. Dark amber color crackle glass panels. Length over all 11 inches. Extends 7 inches. Lantern 5 1/2 inches wide, 7 3/4 inches long. Keyless socket. Ship. wt., 4 lbs.



Ornamental Lantern for Street Numbers

5R7976—List Price, \$11.00.
 Net **\$5.48**

One of the most popular lanterns ever designed. Tells at a glance your street number at night. Made of solid metal in Old English design and finished such that the appearance of weathered copper is produced. Height 29 inches. Street regular house numbers can be used. Keyless socket. Ship. wt., 5 lbs.



Colonial Lantern Hanging Type

5R7977—List Price, \$9.00.
 Net **\$4.95**

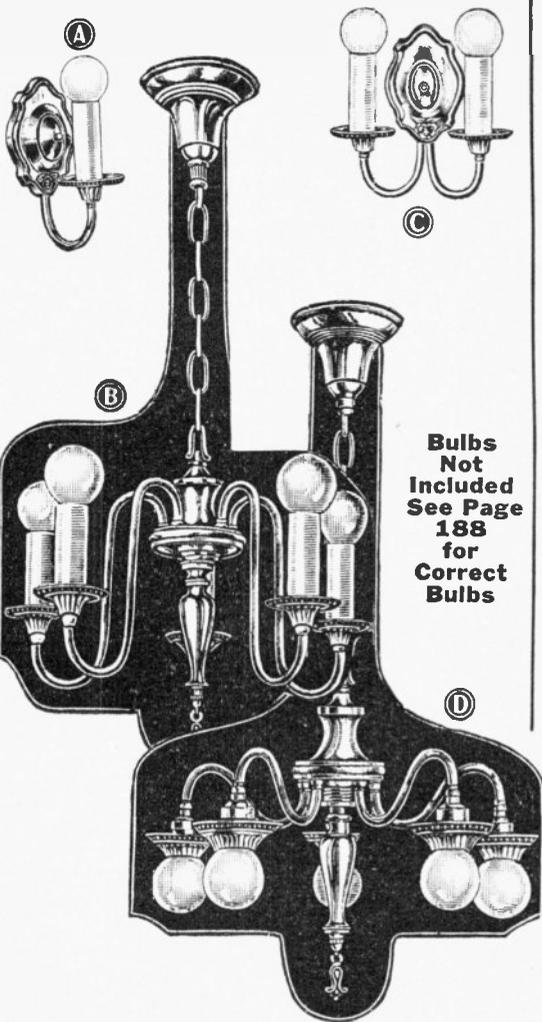
Made of genuine hammered copper in natural color. Dark amber crackle glass. Extends 6 1/2 inches. Length over all 9 3/4 inches. Lantern size 5 1/2 inches wide, 6 1/2 inches long. Wired complete with one keyless socket. Ship. wt., 4 lbs.



Colonial Lantern Hanging Type

5R7978—List Price, \$10.00.
 Net **\$5.10**

Made of genuine solid hammered copper and finished in natural color. Dark amber color crackle glass. Length over all 10 1/4 inches. Lantern size 5 1/2 inches wide and 6 3/4 inches long. Withstands all weather conditions. Wired complete with one keyless socket. Shipping weight, 4 pounds.



**Bulbs
Not
Included
See Page
188
for
Correct
Bulbs**

Colonial Style Fixtures Sterling Silver Finish

Modernizing the home can easily be done at little expense with these exceptionally high grade fixtures. Little need be said in regard to the graceful design and pattern, for it is copied from the beautiful works of early American Silversmiths. In every detail the workmanship reflects the art of accomplished craftsmen who have worked constantly in the perfection of their art. For the home of reserve and real refinement no other type of fixtures would be more fitting.

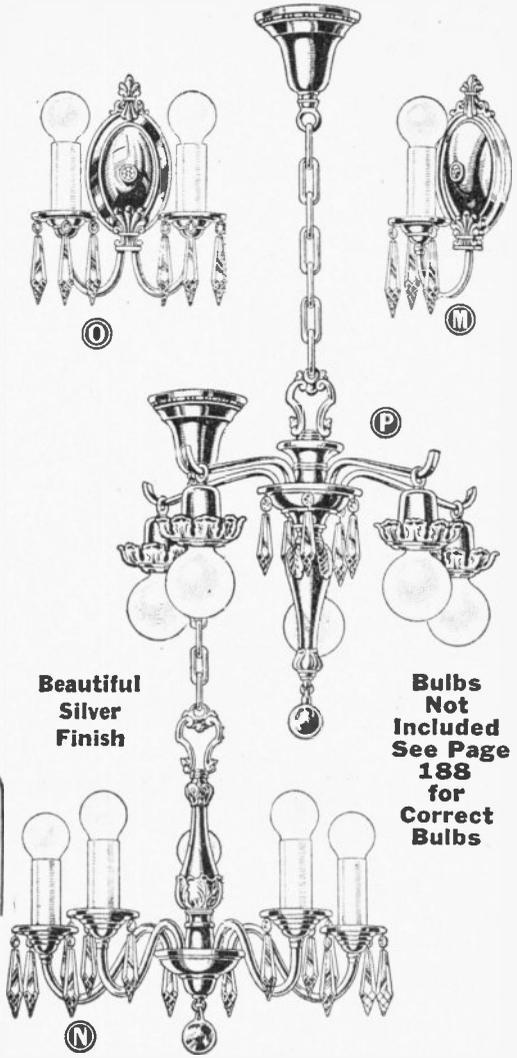
On first thought one would think that such elegance and workmanship would command a high price, but such is not the case. The low prices were made by a highly regarded manufacturer whose sole aim has been toward bringing beauty and quality to lines of fixtures within the reach of the average American home. You may judge how marvelously successful he has been when you review the modest list prices and the extraordinary discounts at which we offer them to our dealers. All fixtures are completely assembled and wired, ready for installation.

A One Light Candle Bracket.
Wall plate size 4 by 3 inches. Turn button switch. Extends 6 inches. Wired complete. Ship. wt., 3 lbs.
BR7845—List, **\$1.85**
\$3.25. Net

C Two Light Candle Bracket.
Wall plate size 4 by 9 inches. Extends 5 inches. Spread 16 inches. Turn button switch. Ship. wt., 5 lbs.
BR7844—List, **\$2.18**
\$4.25. Net

B Five Light Drop Candle.
Length 36 inches. Spread 18 inches. Keyless sockets. Shipping weight, 18 pounds.
BR7842—List, **\$8.15**
\$14.00. Net

D Five Light Drop for Ball Lamps. Length 36 inches. Spread 18 inches. Keyless sockets. Ship. wt., 18 lbs.
BR7843—List, **\$8.45**
\$16.00. Net



**Beautiful
Silver
Finish**

**Bulbs
Not
Included
See Page
188
for
Correct
Bulbs**

Modern English Design

Modern home building has created a great demand for lighting fixtures to match the various types of architecture so popular at the present time, and we are indeed proud to be able to supply our dealers the exact wants of their customers. Whether the home be of English, Spanish, Moorish, Colonial or American design, you are sure to be able to find the correct types of fixtures in this catalogue. The fixtures pictured above are especially recommended for English or Colonial types of homes, although they are equally suitable for other types of architecture. The silver finish in which a touch of black has been added here and there is remarkably effective in beautifying the parlor, living room, dining room, and library, and although one would naturally expect this finish to become tarnished and dirty, yet, on the contrary, it will retain its original beauty for many years—which is certainly a worth while feature not to be overlooked.

All fixtures are completely wired and assembled, ready for installation.

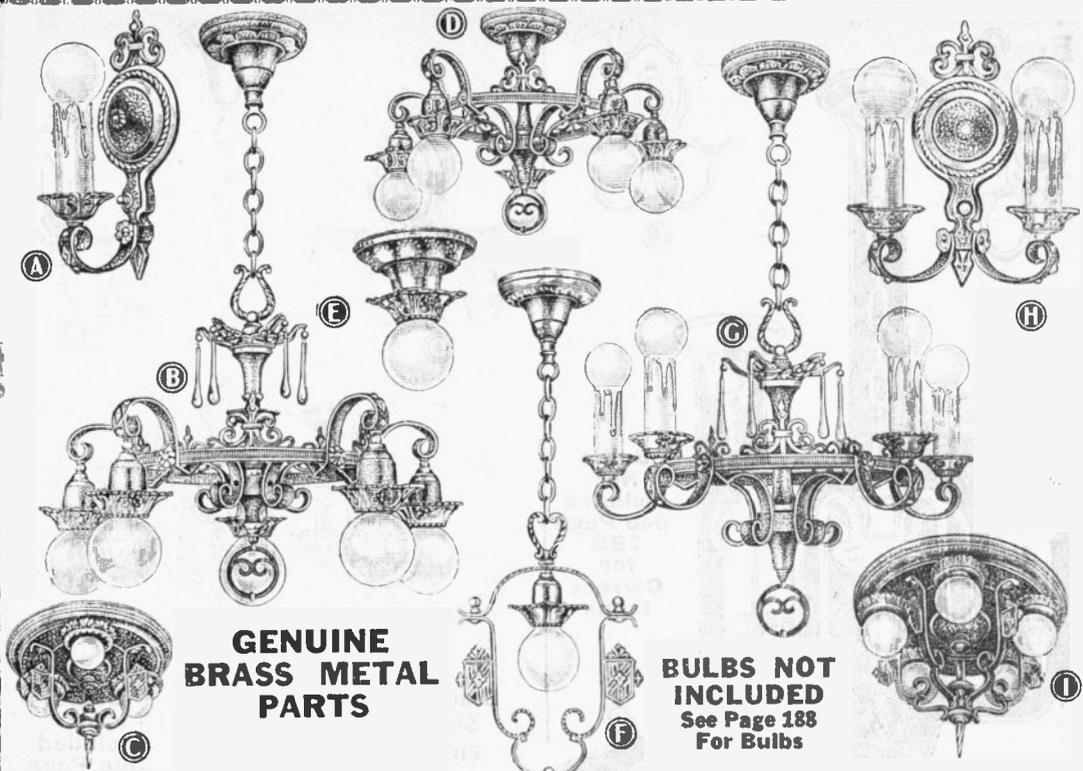
M One Light Candle Bracket.
Wall plate size 4 by 6 inches. Turn button switch. 3 sparkling glass prisms. Shipping weight, 3 pounds.
BR14341—List, **\$1.76**
\$3.60. Net

N Five Light Drop Candle.
Length 36 inches. Spread 18 inches. Keyless sockets. 15 sparkling glass prisms. Shipping weight, 18 pounds.
BR14342—List, **\$8.45**
\$15.45. Net

O Two Light Candle Bracket.
Wall plate size 4 by 6 inches. Turn button switch. 6 sparkling glass prisms. Shipping weight, 5 pounds.
BR14343—List, **\$2.60**
\$5.10. Net

P Five Light Drop for Ball Lamps. Length 36 inches. Spread 18 inches. 6 sparkling glass prisms. Keyless sockets. Ship. wt., 18 lbs.
BR14344—List, **\$8.10**
\$14.25. Net

All Prices Quoted Are Net—There Are No Further Discounts



**GENUINE
BRASS METAL
PARTS**

**BULBS NOT
INCLUDED
See Page 188
For Bulbs**

Radiant Moorish Designs

One of the prime requisites in a dealer's organization is to carry merchandise that creates the desire of "Pride of Ownership" on the part of the prospective customer. If the dealer carries merchandise of this kind, he is well repaid in the end. With this thought in mind, we had several noted lighting fixture designers submit ideas with the hopes of securing a certain type which would predominate the market. The final choice, as you see it above, is well worth your serious consideration, for in it is combined rare beauty and charm which is distinctly different, but yet low in cost. All fixtures made of solid brass, and finished in a rich old gold with ornamental designs relieved in a striking combination of blended green, red and brown colors, truly a remarkably beautiful outfit.

For New Home Beauty

Note especially the hand hammered effect, giving the hand wrought appearance of the olden day metal workers. The designs reflect the latest tendency toward rich appearing old patterns developed in the days when accomplished artists spent years in the perfection of their creations. In these fixtures you will find the rich splendor of those olden days incorporated in patterns best adapted to fit the present American Home.

With this line our dealers now have an opportunity to bid for the fitting of the finer homes, make a tremendous profit, and yet undersell all competition.

We can supply you with handsome folders with large half tone illustrations giving retail prices only. These will help you sell this set.

A One-Light Candle Bracket—Extends 4 inches. Wired complete; keyless socket; inbuilt switch. Ship. wt. 5 pounds.
5R7986—List, \$6.00.
Net \$3.35

B Five-Light Drop Fixture—Length 36 inches; spread 22 inches. Wired complete; keyless sockets. Shipping weight, 22 pounds.
5R7987—List, \$22.50.
Net \$13.85

C Three-Light Ceiling Fixtures—Spread 12 inches; depth 10 inches. Wired complete; keyless sockets. Shipping weight, 15 lbs.
5R7988—List, \$11.00.
Net \$6.30

D Five-Light Ceiling Fixture—Spread 18 inches; drop 15 inches. Wired complete; keyless sockets. Shipping weight, 18 pounds.
5R7989—List, \$22.50.
Net \$11.35

E Beam Light—Diameter 5 inches. Wired complete; keyless socket. Shipping weight, 3 pounds.
5R7990—List, \$2.00.
Net \$0.98

F One-Light Hall Lantern—Length 36 inches. Wired complete; keyless socket. Shipping weight, 8 pounds.
5R7991—List, \$9.30.
Net \$5.15

G Five-Light Candle Fixture—Length 36 inches; spread 22 inches. Wired complete; keyless sockets. Shipping weight, 22 pounds.
5R7992—List, \$22.50.
Net \$13.85

H Two-Light Candle Bracket—Spread 6 1/2 inches; extends 3 1/2 inches. Wired complete; keyless sockets; in-built switch.
5R7993—List, \$7.50.
Net \$3.96

I Five-Light Ceiling Fixture—Diameter 16 inches; extends 12 inches. Wired complete; keyless sockets. Shipping weight, 12 pounds.
5R7997—List, \$15.50.
Net \$9.85



Colonial Style Copper Lantern

Made of hammered solid copper, natural copper color. Extends 6 3/4 inches. Length over all 10 1/2 inches. Lantern 5 1/2 inches wide, 7 1/2 inches long. Dark amber color cracked glass. Wired complete; one keyless socket. Suitable for inside or outdoor use. Ship. wt., 4 lbs.

5R7996—List, \$6.95.
Net \$4.56



Copper 2-Way Lantern

Made of genuine solid copper in natural color. Extension 8 3/4 inches. Length over all 18 3/4 inches. Lantern 6 1/2 inches wide, 9 inches long. Can be mounted either upright or inverted as illustrated. Wired complete. Keyless socket. Ship. wt., 6 lbs.

5R7994
List, \$15.25.
Net, Each \$7.90



Colonial Style Copper Lantern

Made of hammered solid copper. Length over all 11 1/2 inches. Lantern 5 1/2 inches wide, 7 1/2 inches long. Dark amber cracked glass. Wired complete; one keyless socket. Can be used inside or on porch. Ship. wt., 4 lbs.

5R7995—List, \$6.95.
Net \$4.85

Taupe and Silver For Greater Beauty

Trimmed With Amethyst Prisms

Rare beauty of design and color combination will make this new and attractive line of fixtures one of the season's best sellers.

The Silver Taupe finish with the delicate colorings of the exceptionally high grade amethyst glass prisms consummate a refreshingly different color scheme which creates an immediate appeal to anyone. Bodies are made of heavy gauge metal, and the finish is so expertly applied that it will retain its original appearance for many years.

This new and charming group of fixtures harmoniously lend themselves to any decorative scheme, thereby imparting a distinctive air of good taste. All fixtures are completely wired, ready to install. Bulbs not included. See page 188 for bulbs.

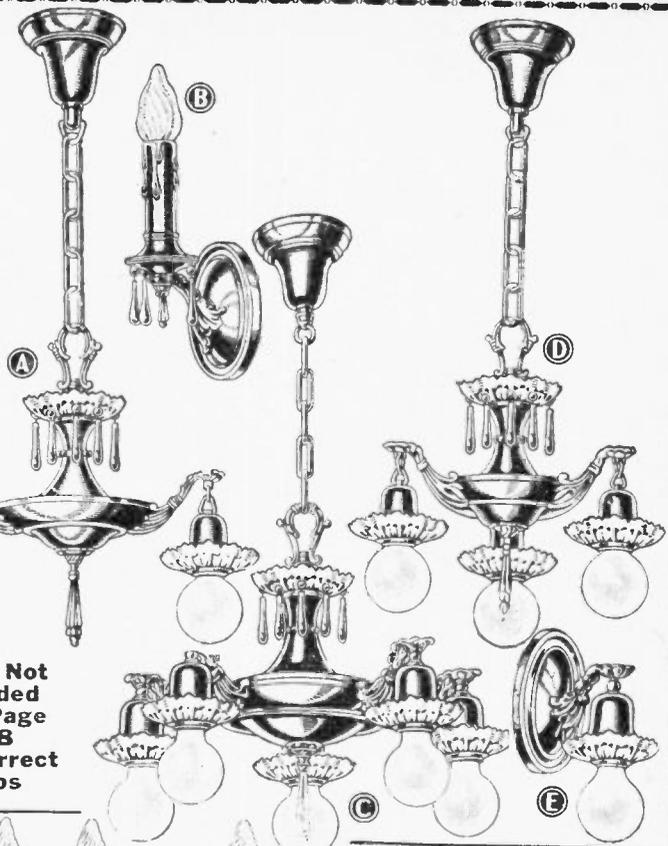
(A) Two Light Drop for Ball Lamps. Length 36 inches. Spread 15 inches. Keyless sockets. Ship. wt., 3 lbs.
5R14392—List, \$7.14. Net **\$4.28**

(B) One Light Candle Bracket. Wall plate about 4 by 6 inches. Keyless sockets. Ship. wt., 3 lbs.
5R14393—List, \$2.70. Net **\$1.43**

(C) Five Light Drop for Ball Lamps. Length 36 inches. Spread 18 inches. Keyless sockets. Shipping weight, 12 pounds.
5R14394—List, \$13.29. Net **\$7.47**

(D) Three Light Drop for Ball Lamps. Length 36 inches. Spread 15 inches. Keyless sockets. Ship. wt., 8 lbs.
5R14395—List, \$8.65. Net **\$5.28**

(E) One Light Drop Bracket. Wall plate about 4 by 6 inches. Keyless socket. Shipping weight, 3 pounds.
5R14396—List, \$2.34. Net **\$1.32**



**Bulbs Not Included
See Page
188
For Correct
Bulbs**

Ever Popular Colonial Fixtures

The conservative design and graceful proportions of these beautiful Colonial style Lighting Fixtures, set off and enhance the dignity of the Colonial Brass Finish.

The charming Colonial Brass Finish is delightfully pleasing to the eye because of its everlasting lustrous effect. Unlike most other fixtures of this kind the finish will retain its original beauty indefinitely, for a special finishing process is used which insures against fading and tarnishing.

All pieces shown are completely wired and assembled, ready for installation. Bulbs not included.

(M) One Light Candle Bracket. Spread 7 inches. Turn button switch. Ship. wt., 3 lbs.
5R14397—List, \$6.00. Net **\$3.82**

(N) Five Light Drop Candle Fixture. Length 36 inches. Spread 18 inches. Keyless sockets. Ship. wt., 12 lbs.
5R14398—List, \$19.50. Net **\$12.38**

(P) One Light Candle Bracket. Wall plate 3 3/4 by 10 inches. Keyless socket. Shipping weight, 3 pounds.
5R14399—List, \$4.50. Net **\$2.87**

(O) Two Light Candle Bracket to Match P. Wall plate 3 3/4 by 10 inches. Spread 6 1/2 inches. Keyless sockets. Ship. wt., 4 lbs.
5R14400—List, \$7.05. Net **\$4.48**

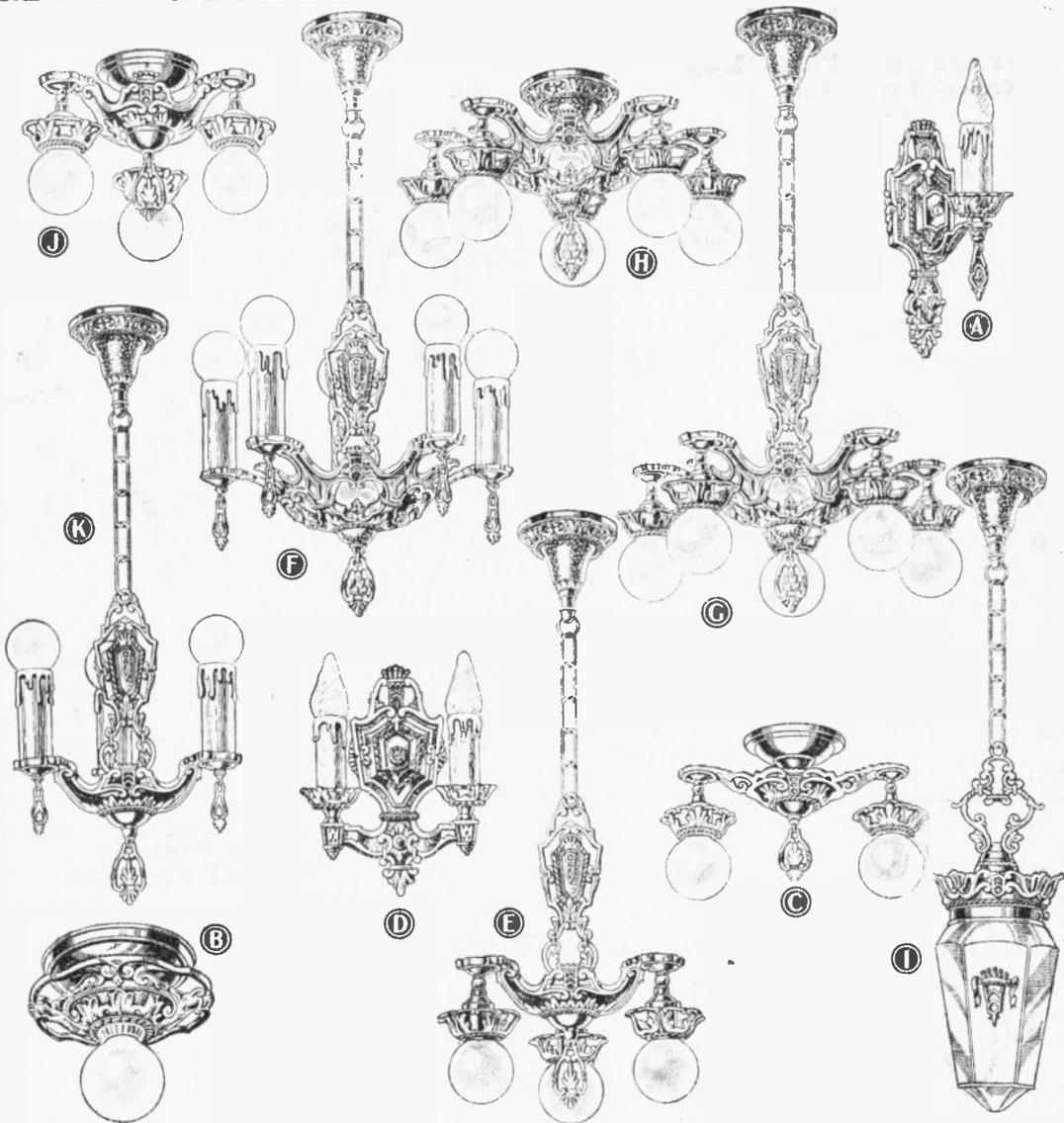
(R) Five Light Drop for Ball Lamps. Length 36 inches. Spread 18 inches. Keyless sockets. Ship. wt., 12 lbs.
5R14401—List, \$19.50. Net **\$12.38**

(S) Two Light Candle Bracket to Match M. Spread 7 inches. Turn button switch. Shipping weight, 4 pounds.
5R14402—List, \$8.40. Net **\$5.34**

(T) One Light Hanging Hall Fixture. Length 36 inches. Art glass cylinder 4 by 6 inches. Keyless socket. Shipping weight, 4 pounds.
5R14403—List, \$9.90. Net **\$6.38**



We Pay Freight As Per Offer Given on Page 260



New and Finer Designs in Cast Aluminum

Colorful beauty is truly a remarkable characteristic of these artistically designed Cast Aluminum Fixtures. The delicate design, together with the genuine aluminum metal, forms an excellent background for the antique gold finish in which a touch of color here and there has been added. Regardless of furnishings and color combinations, the addition of these specially attractive fixtures in any room will decidedly improve its appearance. They harmonize perfectly with all tones and shades. Quiet dignity and refinement are

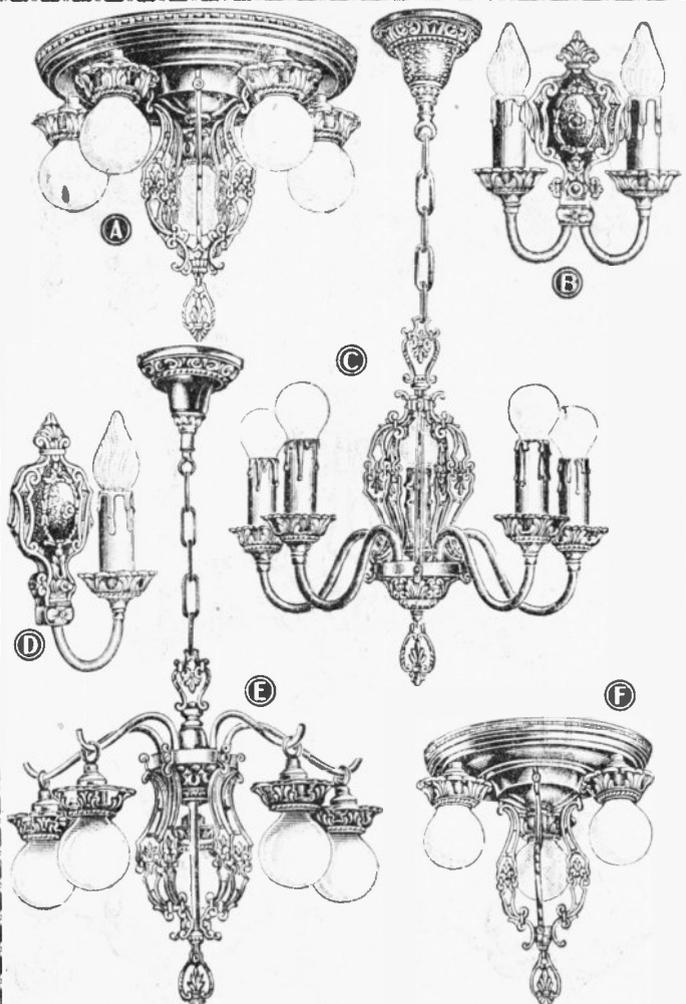
at once noticed when these fixtures have been installed, and then, too, one does not need to worry about style, for they are tremendously popular and will remain so for many years to come. Exquisite workmanship such as one would ordinarily expect to find only in the higher priced fixtures has been the sole aim of the manufacturer. Appropriate "Wax drip Effects" will be found on all candle fixtures which greatly adds to their appearance. All fixtures have keyless sockets for wall switch control and are completely assembled and wired, ready to install.

- A** One Light Candle Bracket. Wall plate, size $4\frac{1}{2}$ inches wide and $10\frac{1}{2}$ inches high. Turn button switch. Shipping weight, 2 pounds. **5R14314**—List Price, \$3.30. Net **\$1.76**
- D** Two Light Candle Bracket. Spread $8\frac{1}{2}$ inches. Wall plate, size $4\frac{1}{2}$ inches wide and $10\frac{1}{2}$ inches high. Shipping weight, 2 pounds. **5R14317**—List Price, \$4.35. Net **\$2.47**
- C** Five Light Drop For Ball Lamps. Length 36 inches. Spread 18 inches. Keyless sockets. Shipping weight, 10 pounds. **5R14320**—List Price, \$11.40. Net **\$5.96**
- K** Three Light For Ball Lamps. Spread 12 inches. Recommended for dens, small rooms, bedrooms, etc. Keyless sockets. Shipping weight, 8 pounds. **5R14323**—List Price, \$5.10. Net **\$2.96**

- B** Beam Light. Diameter 7 inches. Length overall $3\frac{1}{2}$ inches. Recommended for bedrooms and halls. Shipping weight, 2 pounds. **5R14315**—List Price, \$1.50. Net **\$1.27**
- E** Three Light Drop For Ball Lamps. Length 36 inches. Spread 12 inches. Keyless sockets. Shipping weight, 8 pounds. **5R14318**—List Price, \$7.50. Net **\$4.48**
- H** Five Light Ceiling For Ball Lamps. Length overall 10 inches. Spread 18 inches. Keyless sockets. Shipping weight, 10 pounds. **5R14321**—List Price, \$9.90. Net **\$5.64**

- G** Two Light Ceiling. Spread 12 inches. Make a beautiful addition to any bedroom. Shipping weight, 6 pounds. **5R14316**—List Price, \$3.90. Net **\$2.28**
- F** Five Light Drop Candle. Length 36 inches. Keyless sockets. Spread 18 inches. Shipping weight, 10 pounds. **5R14319**—List Price, \$10.50. Net **\$5.84**
- I** Hanging Type Hall Fixture. Length 36 inches. Complete with Amber-Glo decorated Art Glass Lantern. Keyless socket. Shipping weight, 4 pounds. **5R14322**—List Price, \$9.75. Net **\$5.48**
- J** Three Light Drop Candle Fixture. Length 36 inches. Spread 12 inches. Keyless sockets. Shipping weight, 8 pounds. **5R14324**—List Price, \$6.90. Net **\$4.56**

**Bulbs Not Included
See Page 188
For Correct Bulbs**



Porch Bracket

Wall mounting bracket, cast iron in dull black finish. Globe of ribbed glass, frosted on inside. Wall plate 3 1/4 x 3 1/2 inches. Globe diameter 6 inches. Keyless socket. Wired complete.
5R14404—List Price, \$2.85. Net \$1.39

Wall Bracket

Made of cast iron, rubbed black finish. Canopy 3 1/4 inches square. Extension 8 3/4 inches. Length over all 6 inches. Fitted with 6-inch frosted glass ball. Shipping weight, 8 pounds.
5R14405—List Price, \$3.50. Net, \$1.69

For Bath or Bedroom

Two-Light Ceiling. Pastel shades in combination of ivory and blue, or ivory and pink. A plain and tasteful design. Shell, 12 inches. Wired complete with keyless sockets. Shipping weight, 6 lbs.
5R14406—Ivory and pink. List Price, \$2.25. Net \$1.19
5R14407—Ivory and blue. List Price, \$2.25. Net \$1.19

One Light Wall Bracket. To match ceiling pieces listed directly above. Back, 4 1/2 x 6 inches; extends 5 inches. Wired complete with key socket.
5R14408—Ivory and Pink. List Price, \$1.75. Net 87c
5R14409—Ivory and Blue. List Price, \$1.75. Net 87c

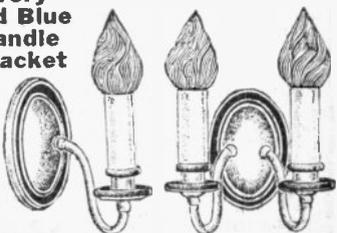
Two Light Ceiling

Solid aluminum in ivory polychrome Georgian design. Spread 12 inches; drop 5 inches. Wired complete with keyless sockets. Shipping weight, 8 pounds.
5R14410—List, \$3.75. Net \$1.88

Ceiling Drop

Georgian design and old ivory finish. Spread 14 in.; drop 11 in. Wired complete with two keyless sockets. Shipping wt., 8 lbs.
5R14411—List, \$6.00. Net, \$3.46

Ivory and Blue Candle Bracket



Neat appealing wall bracket, suitable for living room or bedroom. Metal parts finished in ivory and blue. Wall plate oval 4x6 inches. Completely wired. Bulbs not included.
5R14412—One-Light Bracket. List Price, \$3.00. Net \$1.97
5R14413—Two-Light Bracket. List Price, \$4.05. Net \$2.48
5R14414—One-Light Bracket. Equipped with canopy switch. List Price, \$3.75. Net \$2.15
5R14415—Two-Light Bracket. Equipped with canopy switch. List Price, \$4.75. Net \$2.68

Silver and Black Pleasing Design

Feminine appeal—that's the one big reason why you'll find it easy to sell this new and distinctive line of fixtures. For the woman, there is nothing more appealing than beauty of modern design, finish and decorations. And since in the majority of cases it is the woman's "yes" or "no" that decides the question of whether it is your or your competitor's merchandise, why not make an especial appeal to her? It's easy, yes—positively easy—when you show her the above group. Little need be said about the quality; it's there and can be seen in a moment's time.

The striking and artistic beauty is greatly enhanced by the delicate blending of the silver and black finish. This finish, which is particularly long-lived, is applied by a special process which insures it against tarnishing and fading.

In the production of these new and finer fixtures every facility of one of the country's largest lighting fixture factories has been employed to create patterns which combine distinction, artistic design and thoroughly good workmanship with extremely low prices. All fixtures are completely assembled and wired, ready for installation.

A Five Light Ceiling. Over all length 19 inches. Spread 16 inches. Ship. wt., 8 lbs.
5R14328—List Price, \$11.40. Net \$6.85

B Two Light Candle Bracket. Spread 7 inches. Turn button switch. Ship. wt., 4 lbs.
5R14327—List Price, \$4.95. Net \$3.10

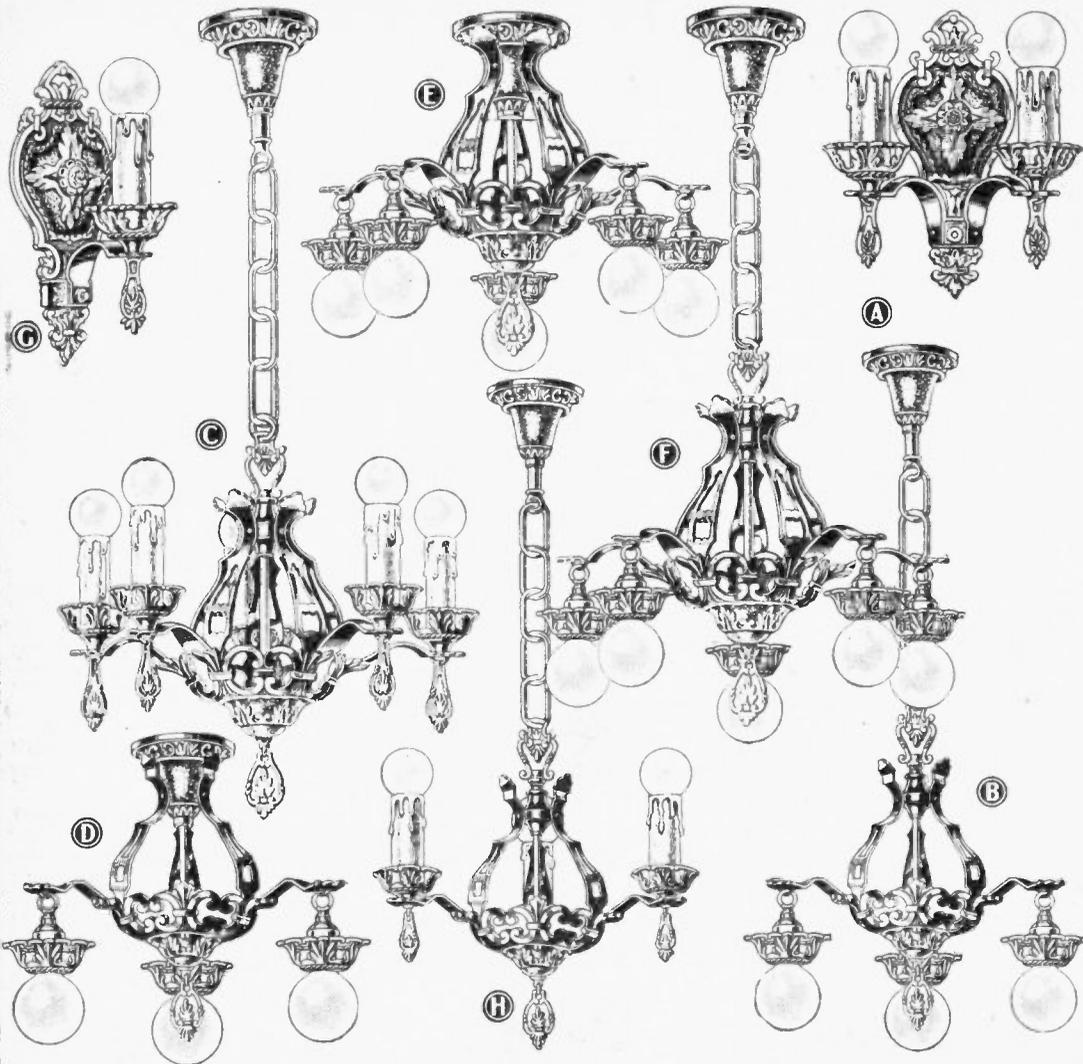
C Five Light Drop Candle. Length 36 inches. Spread 19 inches. Keyless sockets. Ship. wt., 18 lbs.
5R14329—List Price, \$15.30. Net \$9.05

D One Light Candle Bracket. Wall plate 4 1/2 inches in diameter. Turn button switch. Ship. wt., 3 lbs.
5R14330—List Price, \$3.90. Net \$2.34

E Five Light Drop. Length 36 inches. Spread 19 inches. Keyless sockets. Shipping weight, 18 pounds.
5R14326—List Price, \$15.30. Net \$9.05

F Three Light Ceiling. Over all length 19 inches. Spread 16 inches. Keyless sockets. Ship. wt., 6 lbs.
5R14325—List Price, \$7.50. Net \$4.45

All Prices Quoted Are Net—There Are No Further Discounts



Florentine Polychrome Finish—Very Beautiful

The artistic charm prevailing in Old Italy is perfectly worked into the design of this new and exquisite line of fixtures. The priceless works of art famed the world over are responsible for the inspirations which lead to the classical design of these finer fixtures. Where the decorative scheme requires a touch of color the lustrous Polychrome finish will be found remarkably effective. The careful execution of the details in the finish and design of these fixtures plainly reflects the work of the master craftsman. This is particularly noticeable in the wax-drip effect on the candle which is so realistic.

The fixtures shown will completely equip any home—large or small. The two and three light drop and candle fixtures are especially recommended for the bedrooms, while the five light drop and candle fixtures are ideally suited for the living room, dining room, parlor and library.

All fixtures have keyless sockets for wall switch control and are completely wired and assembled—ready for installation.

Start a refixturing campaign in your city. Don't fall behind—keep ahead of your competitor and stay there. Here's how! New business can easily be created, not only from the sale of new fixtures in new homes, but from refixturing many of the old homes. Just go after this business and you will be surprised at the sudden increase in your profits.

New and up-to-date fixtures, such as you will find in this catalog will completely modernize the rooms in many of the old fashioned homes. This not only enhances the beauty of the home—it actually increases the value of the home to a far greater amount than the original cost of the fixtures.

Sales resistance, when promoting new business of this kind is remarkably slight when you can actually show the prospective customer in his home the vast improvement it makes. Why not start your refixturing campaign now—cash in on the easy money—you're entitled to it! And you're bound to win!

(A) Two Light Candle Bracket. Spread 7½ inches. Turn button switch. Shipping weight, 5 pounds.
5R14306—List Price, \$2.48
\$4.35. Net

(B) Three Light Drop for Ball Lamps. Length 36 inches. Spread 19 inches. Keyless sockets. Ship. wt. 15 lbs.
5R14307—List Price, \$4.56
\$7.95. Net

(C) Five Light Drop Candle. Length 36 inches. Spread 19 inches. Keyless sockets. Ship. wt., 18 lbs.
5R14308—List Price, \$6.94
\$11.85. Net

(D) Three Light Ceiling for Ball Lamps. Length 15 inches. Spread 19 inches. Keyless sockets. Ship. wt. 13 lbs.
5R14309—List Price, \$4.45
\$7.50. Net

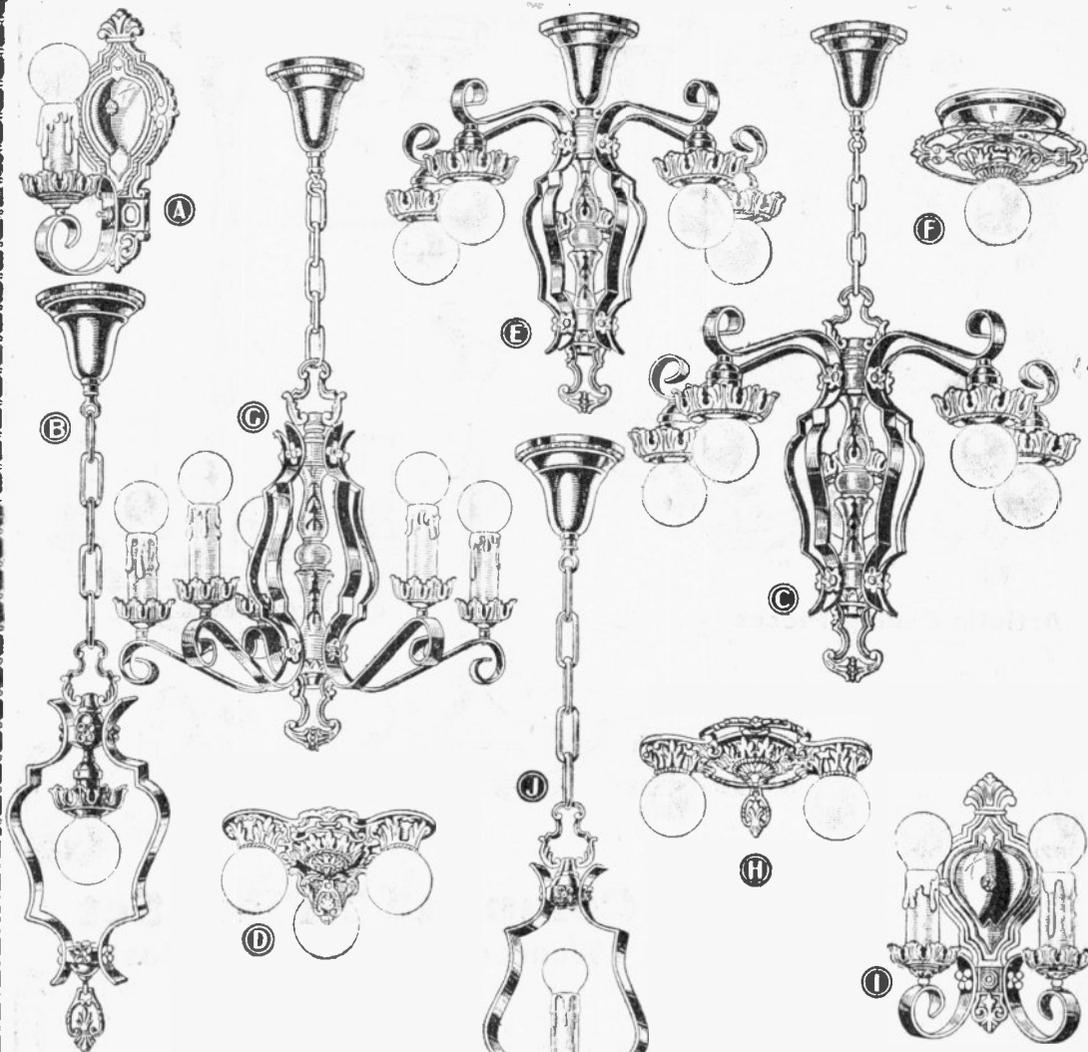
(E) Five Light Ceiling for Ball Lamps. Length 15 inches. Spread 19 inches. Keyless sockets. Ship. wt. 18 lbs.
5R14310—List Price, \$6.78
\$11.25. Net

**Bulbs Not Included
 For Correct Bulbs
 See Page 188**

(F) Five Light Drop for Ball Lamps. Length 36 inches. Spread 19 inches. Keyless sockets. Ship. wt., 18 lbs.
5R14311—List Price, \$7.32
\$12.30. Net

(G) One Light Candle Bracket. Wall Plate size 4½ inches wide by 10½ inches high. Turn button switch. Shipping weight, 4 pounds.
5R14312—List Price, \$1.87
\$3.15. Net

(H) Three Light Drop Candle. Length 36 inches. Spread 19 inches. Keyless sockets. Shipping weight, 13 pounds.
5R14313—List Price, \$4.62
\$7.95. Net



Colonial Design— Gracefully Proportioned

the Favorite of Many Unrivalled Beauty

The early hand wrought style is perfectly characterized in these Colonial type Fixtures. The graceful proportions, the lustrous finish and the careful execution of even the smallest details of design make them stand supreme among all others.

It is with great pride that we are able to give our dealer friends this vastly superior line of merchandise at unheard of prices—in fact, any fixture in this group constitutes a price as well as a beauty challenge to any or all of your competitors! Just think what this means to you; business-profits will leap forward and at the same time the rest of your business will increase in proportion, which will result in greater profits. It's bound to. Just think it over!

These fixtures are the products of one of the very largest lighting

fixture factories in the country, and it is only because of their extremely improved manufacturing facilities and large quantity production that the prices are so low. The low prices are not an indication of the value you receive—far from that—you would naturally expect to pay much more, but such is a typical example of the savings made at Braun's.

The fact that these fixtures can be washed with ordinary soap and water, thereby retaining their original beauty long after they have been installed is certainly an outstanding feature not to be overlooked. This together with their marvelous beauty and price savings easily make them leaders of their type.

All fixtures have keyless sockets for wall switch control, and are completely assembled and wired, ready for installation.

A One Light Candle Bracket, Wax Drip Candle. Wall plate size $4\frac{1}{2}$ inches wide and 10 inches high. Turn button switch. Shipping weight, 4 pounds.
5R14331—List Price, **\$2.85.** Net **\$1.67**

B One Light Hanging Hall Light for Ball Lamp. Length 36 inches. Spread $8\frac{1}{2}$ inches. Keyless socket. Shipping weight, 8 pounds.
5R14332—List Price, **\$4.80.** Net **\$2.78**

C Five Light Drop for Ball Lamps. Length 36 inches. Spread 17 inches. Keyless sockets. Ship. wt., 15 lbs.
5R14333—List Price, **\$10.80.** Net **\$5.86**
Note New Low Prices

D Three Light Ceiling for Ball Lamps. Spread 10 inches. Extends 8 inches. Keyless sockets. Ship. wt., 16 lbs.
5R14334—List Price, **\$4.95.** Net **\$2.96**

E Five Light Ceiling for Ball Lamps. Length 18 inches. Spread 19 inches. Keyless sockets. Ship. wt., 14 lbs.
5R14335—List Price, **\$10.05.** Net **\$5.68**

F One Light Beam or Ceiling Fixture. Spread $9\frac{1}{2}$ inches. Extends 8 inches. Shipping weight, 5 pounds.
5R14336—List Price, **\$2.07.** Net **\$1.27**

G Five Light Drop Candle Fixture. Length 36 inches. Spread 17 inches. Wax Drip Candles. Keyless sockets. Shipping weight, 18 pounds.
5R14337—List Price, **\$10.80.** Net **\$5.76**

H Two Light Ceiling Fixture for Ball Lamps. Spread 10 inches. Extends 8 inches. Keyless sockets. Shipping weight, 6 pounds.
5R14338—List Price, **\$3.60.** Net **\$2.32**

I Two Light Candle Bracket, Wax Drip Candles. Spread $7\frac{1}{2}$ inches. Wall plate size $4\frac{1}{2}$ inches wide and 10 inches high. Turn button switch. Shipping weight, 5 pounds.
5R14339—List Price, **\$4.05.** Net **\$2.40**

J One Light Candle Hanging Hall Fixture. Length 36 inches. Spread $8\frac{1}{2}$ inches. Keyless socket. Shipping weight, 6 pounds.
5R14340—List Price, **\$4.80.** Net **\$2.78**

Bulbs Not Included. See Page 188 for Correct Bulbs



Artistic Ceiling Pieces

The unique method of making these fixtures from fiber gives a clean, sharp design resembling hand carving. Guaranteed unbreakable. Rich Gold and Polychrome finish. Amber peach glow tulip shades on B, C, and D produce charming lighting effects. All fixtures wired complete with keyless sockets.

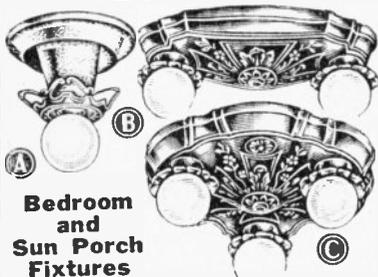
A Three Light Ceiling. Diameter 11 inches. Length 10 inches. Ship. wt., 8 pounds.
5R7849—List Price, \$11.00. Net **\$5.50**

B Three Light Ceiling. Diameter 14 inches. Length 6 1/2 inches. Ship. wt., 7 lbs.
5R7847—List Price, \$14.00. Net **\$6.85**

C Six Light Ceiling. Diameter 18 inches. Length 4 1/2 inches. Ship. wt., 8 lbs.
5R7846—List Price, \$20.00. Net **\$9.95**

D One Light Ceiling. Diameter 9 inches. Length about 7 inches. Ship. wt., 5 lbs.
5R7848—List Price, \$4.50. Net **\$2.25**

E Two Light Ceiling. Diameter 14 inches. Length 7 1/2 inches. Ship. wt., 8 pounds.
5R7850—List Price, \$3.50. Net **\$1.75**



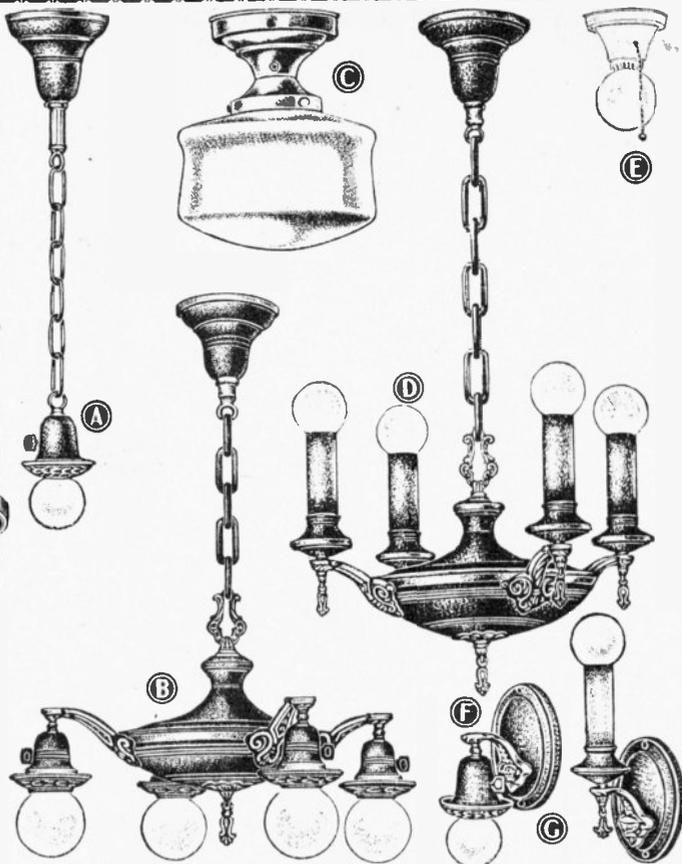
Bedroom and Sun Porch Fixtures

The delicate embossing is particularly noticeable in these finer fixtures. They have a pleasing tastefulness of design that has made them very popular. Richly finished in Ivory polychrome—the favorite for bedrooms and sun porches, because of its cheerfulness.

A One Light Ceiling or Beam Light. Diameter of ceiling plate 6 inches. Length 3 1/2 inches. Keyless socket. Ship. wt., 5 lbs.
5R7853—List Price, \$1.30. Net **\$0.69**

B Two Light Ceiling. Spread 12 inches. Length 3 1/2 inches. Keyless sockets. Shipping weight, 8 pounds.
5R7852—List Price, \$3.00. Net **\$1.19**

C Three Light Ceiling. Spread 12 inches. Length 3 1/2 inches. Keyless sockets. Shipping weight, 8 pounds.
5R7851—List Price, \$5.00. Net **\$2.48**



Complete 7-Piece Set Wonderful Quality at Low Cost

Just think—you can now sell a complete set of Lighting Fixtures, enough for a five room home, for less than \$25.00! An amazing bargain that your competitor will find difficult to meet. The set, consisting of seven very attractive pieces, may be had complete or separately, as desired. All metal parts are of heavy brass and finished in a striking shade of brown with the embossed and cast ornaments in a highly polished gold color. Sanitary white enamel finish has been applied to the Beam and Kitchen Lights, the latter giving a bright and shadowless light without the usual glare. This is due to the specially constructed opal glass bowl. These fixtures may be cleaned very effectively with ordinary soap and water. Pieces with keyless sockets are for wall switch control. All fixtures are completely assembled and wired, ready for installation. Shipping weight, complete set, 74 pounds.

5R11266—Complete Set. List Price, \$23.50. Net **\$11.75**

Fixtures May Be Purchased Separately

A One Light Pendant. Length 36 inches. Key socket. Finished in brown and gold. Ship. wt., 6 pounds.

5R11273—List Price, \$1.90. Net **\$1.20**

B Four Light Drop. Length 36 inches. Spread 20 inches. Key sockets. Finished in brown and gold. Ship. wt., 25 pounds.

5R11270—List Price, \$8.50. Net **\$4.25**

C Kitchen Light. Diameter of bowl 8 1/2 inches. Length over all 12 inches. Keyless socket. White enamel finish. Shipping weight, 8 pounds.

5R11268—List Price, \$2.40. Net **\$1.45**

D Four Light Drop Candle. Length 36 inches. Spread 20 inches. Keyless socket. Finished in brown and gold. Shipping weight, 25 pounds.

5R11269—List Price, \$8.50. Net **\$4.25**

E Beam Light. Length 4 1/2 inches. Pull chain socket. White enamel finish. Shipping weight, 8 pounds.

5R11267—List Price, \$1.40. Net **\$0.90**

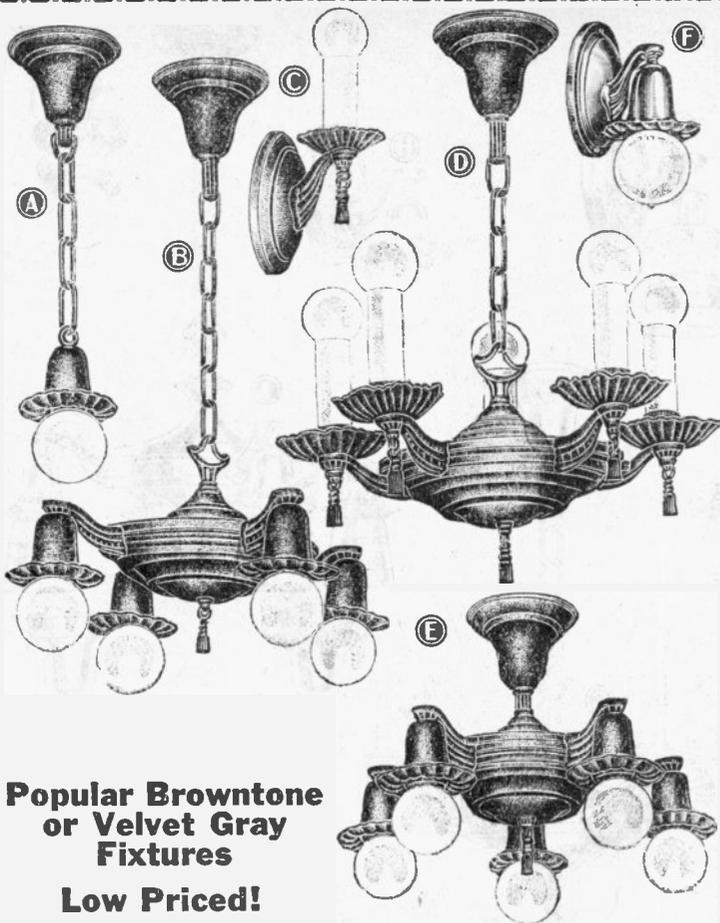
F One Light Drop Bracket. Wall plate size 4 1/2 by 6 inches. Key socket. Finished in brown and gold. Shipping weight, 4 pounds.

5R11272—List Price, \$1.90. Net **\$1.12**

G One Light Candle Bracket. Wall plate size 4 1/2 by 6 inches. Keyless socket. Finished in brown and gold. Shipping weight, 4 pounds.

5R11271—List Price, \$1.90. Net **\$1.12**

**Bulbs Not Included
See Page 188
for Correct Bulbs**



Popular Browntone or Velvet Gray Fixtures

Low Priced!

It is often necessary to carry a low priced line of fixtures for the jobs in which you must submit a very low figure. In order for our dealers to get in on this share of business, we have brought out the above line of fixtures and although the prices are very low, beauty and quality of materials and workmanship have not been sacrificed. You will find these fixtures exceptionally well made and the finish to be such that the original beauty will be retained for many years to come. Bodies are made of heavy gauge brass with supporting arms and decorative ornaments of cast brass.

You have your choice of two colors: Soft Golden Brown with bright Gold trim or Velvet Gray with Gold trim. Order color by number. All fixtures are completely assembled and wired, ready for installation.

A One Light Pendant. Length 36 inches. Key socket. Shipping weight, 6 pounds.
List Price, \$1.80.
Net **\$0.90**
5R7876—Browntone and Gold.
5R7887—Gray and Gold.

B Four Light Drop Fixture. Length 36 inches. Spread 18½ inches. Key sockets. Body 10 inches. Ship. wt., 25 lbs.
List Price, \$8.00. Net **\$3.96**
5R7886—Browntone and Gold.
5R7887—Gray and Gold.

C Five Light Drop Fixture. Not shown. Same design and specifications as B.
List Price, \$9.50. Net **\$4.80**
5R7888—Browntone and Gold.
5R7889—Gray and Gold.

D Three Light Drop Fixture. Not shown. Same design as B. Spread 17 inches; body 8 inches. Ship. wt., 10 pounds.
List Price, \$6.25. Net **\$3.15**
5R7890—Browntone and Gold.
5R7891—Gray and Gold.

E Two Light Drop Fixture. Not shown. Same design as B. Spread 16 inches; body 4 inches. Ship. wt., 8 pounds.
List Price, \$4.50. Net **\$2.25**
5R7892—Browntone and Gold.
5R7893—Gray and Gold.

F One Light Candle Bracket. Wall plate 4½ by 6 inches. Extends 5 inches. Keyless socket. Ship. wt., 8 lbs.
List Price, \$1.80. Net **\$0.90**
5R7894—Browntone and Gold.
5R7897—Gray and Gold.

D Five Light Candle Fixture. Length 36 inches. Spread 19 inches; body 10 inches. Keyless sockets. Ship. wt., 25 lbs.
List Price, \$9.00. Net **\$4.68**
5R7878—Browntone and Gold.
5R7879—Gray and Gold.

D Four Light Candle Fixture. Not shown. Same design and specifications as D.
List Price, \$7.65. Net **\$3.83**
5R7880—Browntone and Gold.
5R7881—Gray and Gold.

E Five Light Ceiling Fixture. Length 36 inches. Spread 18½ inches; body 10 inches. Keyless sockets. Ship. wt., 18 lbs.
List Price, \$9.25. Net **\$4.78**
5R7882—Browntone and Gold.
5R7883—Gray and Gold.

F Four Light Ceiling Fixture. Not shown. Same design and specifications as E.
List Price, \$8.00. Net **\$3.96**
5R7884—Browntone and Gold.
5R7885—Gray and Gold.

F One Light Drop Bracket. Wall plate 4½ by 6 inches. Extends 5 inches. Key socket. Ship. wt., 6 pounds.
List Price, \$1.80. Net **\$0.90**
5R7894—Browntone and Gold.
5R7895—Gray and Gold.

Bulbs Not included
See Page 188
For Correct Bulbs

Old English Lantern

Made of genuine copper plated metal in beautiful dark green finish. Amber glass panels. Will withstand all weather conditions. Length over all 11 inches; extension 8 inches; Lantern 3½ inches wide. 8½ inches long. Keyless socket. Wired complete. Shipping wt., 5 lbs.
5R7898—List, \$6.00. Net... **\$3.20**



Wall Pocket Style Lantern



Old Colonial wall pocket style Lantern, in soft dark green finish. Attractive amber colored glass panels. Width 5½ in.; length 9½ in.; extends 5½ in. Very appropriate for most all types of homes. Keyless socket. Wired complete. Shipping wt., 5 lbs.
5R7899—List, \$5.00. Net... **\$2.65**

Ceiling Pendant

Attractive dark green finish. Amber colored glass panels. Length over all 14½ inches; lantern 5½ inches wide, 8½ inches long. Very popular and a most remarkable value. Recommended for Halls. Keyless socket. Wired complete. Shipping wt., 5 lbs.
5R7869—List, \$5.75. Net... **\$3.10**



Porch Light

Fixture for porch ceiling. Ceiling plate finished in dull black and equipped with smooth, 6-inch frosted globe. Weatherproof keyless socket. Length over all 7½ inches. Bulb not included. Globe easily removed for cleaning. Wired complete. A splendid value at this special price. Shipping wt., 7½ lbs.
5R11259—List Price, \$1.80. Net **\$0.90**

Fancy Porch Light

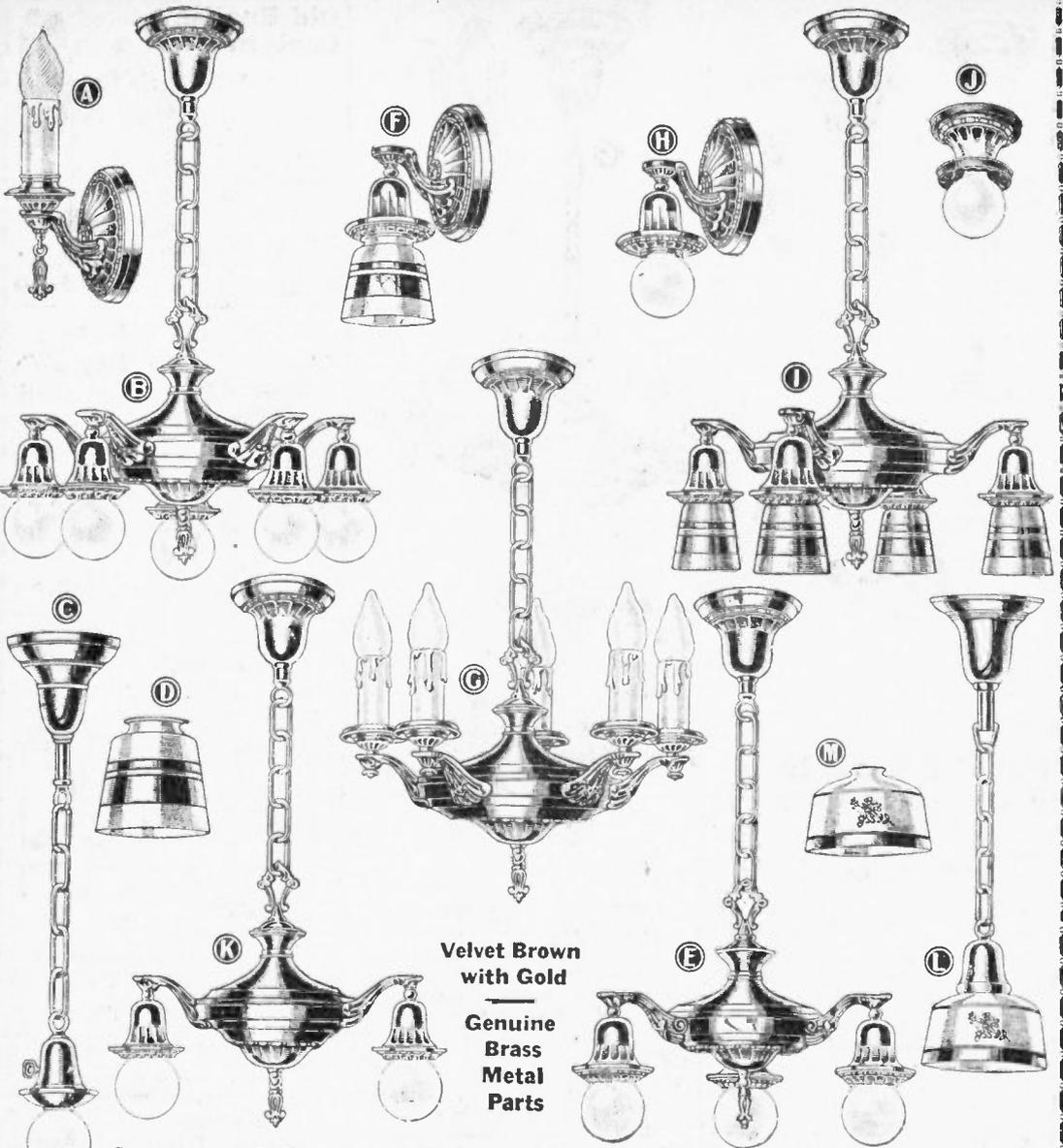
Very attractive ceiling type globe light, suitable for any home. Plate of cast iron, finished in black. Diameter, 6 inches. Six inch crystal ribbed glass globe, frosted on inside. Length 8 inches. Keyless socket. Wired complete.
5R11261—List Price, \$2.70. Net **\$1.35**



Outdoor Bracket



The standard outdoor bracket for the garage or barn. Thirty-inch goose neck. Has 10-inch steel enamel reflector. Green outside, white inside. Will withstand all weather conditions. Wired complete and priced exceptionally low. Bulb not included. Keyless socket. Shipping wt., 6 lbs.
5R11260—List Price, \$4.50. Net **\$2.25**



Velvet Brown
with Gold
—
Genuine
Brass
Metal
Parts

Improved Design Gives Greater Beauty and Charm

The quality and high standard of these exceptionally well made genuine brass lighting fixtures is at once evident by the rich appearing and perfectly symmetrical design. The staunch looking brass metal is heavily coated with velvet brown with touches of gold—fade-proof colors that assure many years of lasting beauty.

This harmonious finish is expertly applied by a new process which prevents peeling, tarnishing and chipping—three outstanding features.

Crystal glass shades with decorative pink borders have been added to many of the fixtures shown above as many people believe them to be more effective in beautifying the rooms in which they are installed. The harmony presented by the addition of any fixture in this group, regardless of color scheme or room decorations will be found ideal. All fixtures are completely assembled and wired, ready for installation. Bulbs not included.

- A** One Light Candle Bracket. Wall plate, 4½ by 6 inches. Keyless socket. Shipping weight, 3 pounds. **5R14416—List Price, \$1.95. Net... 97c**
- B** Five Light Drop for Ball Lamps. Length, 36 inches. Spread, 18 inches. Key sockets. Shipping weight, 20 lbs. **5R14417—List Price, \$9.00. Net... \$4.42**
- C** One Light Pendant for Ball Lamp. Length, 36 inches. Key socket. Ship. wt., 4 lbs. **5R14418—List Price, \$1.50. Net... 73c**
- D** Extra Glass Shades for all fixtures shown above with shades. Artistic coloring. Ship. wt., 3 lbs. **5R14419—List Price, 65c. Net... 32c**
- E** Three Light Drop for Ball Lamps. Length, 36 inches. Spread, 14 inches. Key sockets. Shipping wt., 15 lbs. **5R14420—List Price, \$6.00. Net... \$2.94**

- F** Three Light Drop with Shades. Not shown, but same design and specifications as E. Ship. wt., 15 lbs. **5R14429—List, \$7.50. Net... \$3.68**
- G** One Light Drop Bracket with Shade. Wall plate, 4½ by 6 in. Key socket. Ship. wt., 3 lbs. **5R14421—List, \$2.27. Net... \$1.12**
- H** Five Light Candle. Length, 36 inches. Spread, 18 inches. Keyless sockets. Ship. wt., 20 lbs. **5R14422—List, \$9.00. Net... \$4.42**
- I** Three Light Drop Candle. Not shown, but same design and specifications as G. **5R14430—List Price, \$6.00. Net... \$2.94**
- J** One Light Drop Bracket for Ball Lamp. Wall plate, 4½ by 6 inches. Key socket. Shipping weight, 3 pounds. **5R14423—List Price, \$1.95. Net... 97c**

- K** Four Light Drop with Shades. Length, 36 inches. Spread, 17 inches. Key sockets. Ship. wt., 18 lbs. **5R14424—List, \$10.18. Net... \$4.99**
- L** Beam Light. Keyless socket. Extends about 4 inches. Ship. wt., 4 lbs. **5R14425—List Price, 85c. Net... 42c**
- M** Two Light Drop for Ball Lamps. Length, 36 inches. Spread, 13 inches. Key sockets. Shipping weight, 12 pounds. **5R14426—List Price, \$4.95. Net... \$2.43**
- N** One Light Drop Pendant with Shade. Length, 36 inches. Crystal glass shade with floral design and pink border. **5R14427—List Price, \$2.27. Net... \$1.12**
- O** Extra Glass Shade for above pendant L. Diameter, 7¼ inches. Height, 6¾ inches. Ship. wt., 3 lbs. **5R14428—List Price, \$1.25. Net... 62c**

Hand Painted Hall Light

The addition of this gorgeous hand-painted parrot design fixture will improve the appearance of any home. Its unique design in harmonious colors immediately suggests quiet dignity and refinement. Diameter of amber glass ball 9 inches. Length overall 36 inches. The metal parts of this fixture are finished in the ever popular ivory pastelle. Decorative glass prisms match amber glass bowl. Keyless socket. Ship. wt., 10 pounds.

BR11281—List Price, \$11.85.
Net **\$8.54**



Decorative Hall Lantern

The ornamental beauty of this exquisite hanging type Lantern is appreciated only when it is hung in the home. The neat design readily lends itself to all types of homes and it is here that our dealers will find it worth while to stock. Length 36 inches. Cracked glass shade. Metal parts of genuine brass are finished in Brownstone. Keyless socket. Ship. wt., 10 lbs.

BR11280—List Price, \$8.50. Net **\$4.17**



Low Priced Pendants

Very popular one-light Pendants. Made of brass in choice of natural satin finish or white enamel. Finest quality opal colored glass shades. Recommended for halls, closets, small rooms and bedrooms. In keeping with Braun's policy the prices are very low. Shipping weight, each 5 pounds. Style A White Enamel

BR11287
Length 30 inches. Glass, 7x 2 1/2 inches. Key socket.
List, \$3.00. Net **\$1.30**

BR11288—Same as above but with pull chain socket.
List Price, \$3.40. Net **\$1.42**

Style B—Brownstone Finish
BR11289—Length 17 inches. Key socket. 9-inch glass shade. List Price, \$3.00. Net **\$1.27**
BR11290—Same as above but with pull chain socket. List, \$3.40. Net **\$1.39**



List, \$2.75.
Net

Ceiling Light

Sanitary white enamel finish. Length over all, 6 inches. Keyless socket, 6-inch white opal glass shade. Shipping weight, 4 pounds.

BR11296—List, \$1.50. Net **74c**

BR11297—Same as above but pull chain socket.

List, \$1.30. Net

Residential Lights



Designed primarily for large rooms, but equally suited for the smaller rooms. The cheerfulness this type of fixture gives to any room is immediately noticed. Beautifully hand-decorated glass bowl, 9 inches in diameter and 6 1/2 inches deep, is trimmed with imported prism bells and drops. Ship. wt. each, 6 lbs.

BR11283—Chain Drop Fixture in Ivory and pink. List complete, \$5.84. Net **\$3.56**

BR11284—Same as above but Ivory and blue. List Price, \$5.84. Net **\$3.56**

BR11285—Ceiling Fixture in Ivory and pink. List Price, \$3.84. Net **\$1.89**

BR11286—Same as above but Ivory and blue. List Price, \$3.84. Net **\$1.89**

Office Lights



Provides adequate lighting for 600 square feet floor surface. For offices, schools and stores. Gives strong light without glare. For 200 watt bulb or less. Bronze metal parts.

Hanging Type
Length 45 in. Diam. of bowl 14 in. Ship. wt., 12 lbs.
BR11301—Keyless. List Price, \$8.98. Net **\$3.96**

BR11302—Same. Net **\$5.05**

but with pull chain. List, \$8.50. Net
Ceiling Type
Length 12 inches. Bowl diameter 12 inches. Shipping weight, 12 pounds.
BR11303—Keyless. List, \$4.98. Net **\$2.62**
BR11304—Pull chain. List, \$6.45. Net **\$3.45**

Decorative One Light Drop

An ideal lighting fixture for the sun parlor, bedroom, or sleeping porch. Shade of genuine hyperion glass beautifully hand decorated in garland effect with flowers and foliage. 7 1/2 inch in diameter. Length over all, 36 inches. Wired complete with either key or pull chain socket. Shipping weight, each, 5 lbs.

BR11292—Ivory and blue finish. Key socket. List, \$3.45. Net **\$1.69**

BR11293—Same as above, but with pull chain socket. List Price, \$3.63. Net **\$1.81**

BR11294—Ivory and pink finish. Key socket. List, \$3.45. Net **\$1.69**

BR11295—Same as above, but with pull chain socket. List Price, \$3.63. Net **\$1.81**



Ornamental Drop Fixture

The splendid beauty of this newly designed lighting fixture is such that it will attract widespread attention in anyone's home. It is equipped with a beautifully hand decorated floral art glass shade 7x5 inches, with imported colored prisms to match. Over all length 36 inches. Wired complete with keyless socket for wall switch control. The Braun dealer stocking this fixture will surely increase his sales. Shipping weight, 8 pounds.

BR11282—List, \$4.65.

\$2.56
NET



Bowl Light

You have your choice of two striking color combinations in this handsome bowl type lighting fixture—Ivory and gold, and green and gold. The shade is of genuine hyperion glass and is 12 inches in diameter. Ideal for confectionery stores, millinery shops, and various other retail establishments. Completely wired with keyless socket for wall switch control. Ship. wt., 8 lbs.

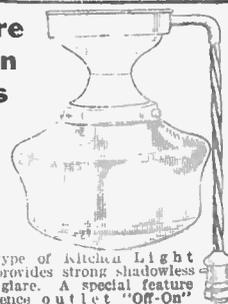
BR11291
Ivory and gold finish. List Price, \$12.24. Net **\$6.00**

BR11279
Green and gold finish. List Price, \$12.24. Net **\$6.00**



No Glare Kitchen Lights

With Convenience Outlet



The finest type of kitchen light made, for it provides strong shadowless light without glare. A special feature is the convenience outlet "On-Off" switch which permits the use of all types of electrical appliances. Equipped with genuine hyperion glass bowl 8 1/2 inches in diameter. All metal parts are beautifully white enameled with a hard lasting finish. Ship. wt., 8 lbs.

BR11299—List, \$5.13. Net **\$2.40**

BR11300—Same as above except with pull chain, but without convenience outlet. List, \$2.97. Net **\$1.60**

White Enamel Beam Light

A very neat appearing Beam Light for halls, attics, closets and bedrooms. Small in size. Genuine metal parts finished in sanitary white enamel. Completely equipped with pull chain type porcelain socket. Bulb not included. Ship. wt., 4 lbs.

BR11298—List, \$1.63. Net **83c**





2-Light Bedroom

Ideally suited for medium size bedrooms. Attractively finished in ivory and polychrome. Genuine imported glass ornaments. Keyless sockets. Oval ceiling plate. Length 15 inches. Spread 12 inches. Ship. wt., 4 lbs. 5R14368—List, \$6.00. Net **\$3.47**

2.97
Net



3-Light Bedroom Fixture

This fixture is intended for large bedrooms. Same construction, design and finish with the two light fixture shown at left. The finish of ivory and polychrome will keep its original beauty for years. Diameter of ceiling plate 12 inches. Length 15 inches. Ship. wt., 6 pounds. 5R14375—List, \$7.50. Net **\$4.56**

3.67
Net



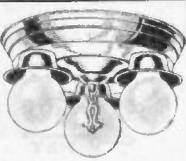
Decorative Ceiling Light

For the small bedroom this one light ceiling fixture will certainly give a cozy appearance. It is of the same design, construction, and finish as the two and three light ceiling fixtures shown at the left. Length 11½ inches. Diameter of canopy 5½ inches. The never-fading ivory polychrome finish will appeal to every one. Shipping weight, 5 pounds. 5R14384—List, \$2.25. Net **\$1.37**

1.37
Net

3-Light Ceiling

Especially attractive bedroom light, finished in the popular ivory pastelle. Round ceiling plate. Spread 10 inches. Keyless sockets. Ship. wt., 4 lbs. 5R14369—List, \$2.70. Net **\$1.76**



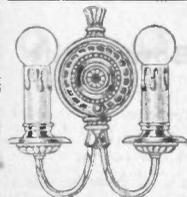
Oval Ceiling Light

For those desiring a cheaper two light bedroom fixture we cannot recommend this one too highly. It is finished in polychrome and has a spread of 12 inches. Keyless sockets. Ship. wt., 4 lbs. 5R14376—List, \$1.75. Net **\$1.10**



Two-Light Ceiling

A low priced two light ceiling fixture, but very charming and beautiful. Finished in ivory pastelle. Diameter of ceiling plate 10 inches. Ship. wt., 5 lbs. 5R14385—List, \$2.25. Net **\$1.62**



Two Light Candle Bracket

The artistic design of this candle bracket will appeal to everyone. Finished in beautiful ivory polychrome. Turn button switch. Spread 6 inches. Shipping weight, 4 pounds. 5R14370—List, \$3.90. Net **\$2.26**

2.26
Net

One Light Candle Bracket

The design and finish of this one light candle bracket is exactly as the two light shown above. Both types are equally recommended for parlors, living rooms, libraries, etc. Ship. wt., 3 lbs. 5R14371—List, \$3.00. Net **\$1.72**



Real Porcelain Washable Bathroom Fixtures



Ceiling Light

Fine for small rooms, bathrooms, or closets. Beautiful white enamel finish is very sanitary and can be washed effectively with ordinary soap and water. Keyless socket. Diameter of ceiling plate 6¾ inches. Ship. wt., 2 lbs. 5R14377—List, \$3.80. Net **\$1.86**

1.86
Net

Bathroom Bracket

A very neat and sanitary bathroom bracket, complete with lever switch and plug-in outlet in base which permits the use of all types of electrical appliances. Size 6¾ by 4 inches. Extends 4 inches. Ship. wt., 3 pounds. 5R14378—List, \$5.00. Net **\$2.45**



2.45
Net



Ceiling Light

Finished in ivory polychrome. For halls, bedrooms, closets, sunparlors, etc. Diam. of ceiling plate 5 in. Extends about 4 in. Wired complete with keyless socket for wall switch control. Very decorative effect. Ship. wt., 3 lbs. 5R14372—List, 85c. Net **42c**

42c
Net



For the Bathroom

An exceptionally high-grade all-glass bathroom bracket, complete with pull chain socket and plug-in outlet for attaching curling irons, hair dryers, etc. Extends about 3 inches. Ship. wt., 3 lbs. 5R14373—List, \$4.86. Net **\$2.38**

2.38
Net



Ceiling Light

A highly sanitary looking one light ceiling fixture. Made entirely of opal glass. For hospitals, nurseries, bathrooms, etc. Wired complete with keyless socket. Ship. wt., 4 lbs. 5R14374—List, \$2.43. Net **\$1.22**

1.22
Net

With Pull Chain **\$1.65**



Pull Chain Bracket

A beautiful white all glass fixture for kitchen, bathroom, closet or hall. 2½ in. fitted with eyelet for pull chain. Extends about 6 in. Ship. wt., 3 lbs. 5R14380—List, \$3.30. Net **\$1.62**

1.62
Net



Pull Chain Bracket

This fine solid porcelain pull chain bracket with its dazzling pure white finish is especially suited for use over or at side of a mirror. Complete with pull chain socket and convenience outlet. Base 4¾ in. Ship. wt. 3 lbs. 5R14379—List, \$3.80. Net **\$2.30**

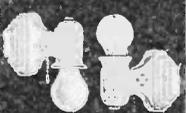
2.30
Net



New Type Bathroom Light

Very neat appearing bathroom bracket, finished in white porcelain enamel. Complete with plug-in outlet and lever switch. Total height about 6 inches. Ship. wt., 3 pounds. 5R14381—List, \$2.50. Net **\$1.47**

1.47
Net



Convertible Bracket

Solid porcelain bracket beautifully shaped with octagonal base. Looks equally well up or down. Pull chain socket and plug-in outlet. Ship. wt., 3 pounds. 5R14382—List, \$3.75. Net **\$2.30**

2.30
Net



Plug-In Outlet Bracket

Beautiful white porcelain enamel finish, complete with lever switch and plug-in outlet. Ship. wt., 3 pounds. 5R14383—List, \$5.00. Net **\$3.10**

3.10
Net



Beam Light

An attractively designed Beam Light suitable for bedrooms, closets, halls, etc. Decorative scroll design ceiling plate. Diameter of canopy 5½ inches. Depth 5¾ inches. Finished in ivory pastelle. A remarkable value. Shipping weight, 3 pounds. 5R14386—List, \$1.00. Net **44c**

44c
Net

Brass Beam Light

A low priced Beam or Ceiling Light, beautifully finished in ivory pastelle. Small enough to be inconspicuous in any room in which it is installed. Diameter of canopy 5½ inches. Length overall 3¾ inches. Plain design ceiling plate. Shipping weight, 3 pounds. 5R14387—List, 80c. Net **40c**

40c
Net

Enameled Bathroom Fixtures



Plug-In Outlet Bracket

Upright type bathroom bracket for use with ball lamp. Its installation in any bathroom immediately gives an air of sanitation. Completely wired with turn button switch and plug-in outlet for attaching electric appliances. A very convenient necessity. Ship. wt., 3 lbs. 5R14388—List, \$2.25. Net **\$1.36**

1.36
Net



Opal Glass Shade Bracket

Neatly constructed bathroom bracket of approved design. Sanitary opal glass shade with metal parts in white enamel. Extends about 6 inches. Pull chain socket. Ship. wt., 3 pounds. 5R14389—List, \$2.04. Net **\$1.02**

1.02
Net



Beam Light

Neat metal white enameled beam light for kitchen, bathroom, closet, hall, etc. 4¼ in. diam. Ship. wt., 3 lbs. 5R14390—Without pull chain. List, 55c. Net **43c**

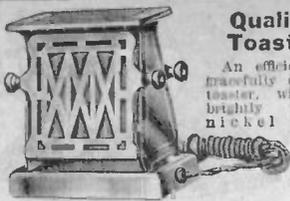
43c
Net



Beam Light

For those desiring a small inexpensive beam or ceiling light this one is especially recommended. It may be used in bedrooms, halls, closets or nurseries with great satisfaction. Size 4¼ by 3¼ inches. Ship. wt., 2 lbs. 5R14391—List, 75c. Net **54c**

54c
Net



Quality Toaster

An efficient and gracefully designed toaster, with two beautifully polished nickel finished

doors and Tuscan Rosewood knobs. Frame, 7 1/2 inches, and 7 1/4 inches high. Contains nickel chromium coiled wire element. For any 110-120 volts current. With about 6-foot cord and plug. Shipping weight, 5 lbs. **6R6039**—List, \$3.50. Net, each... **\$2.58**
6R6040—Same, with conveniently located off and on switch for easy table control without disconnecting plug. List, \$4.50. Net, each... **\$3.38**

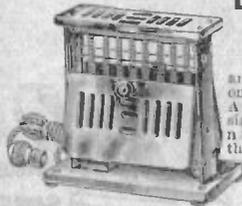
Spee-Dee Electric Toaster

A very popular, good-looking, efficient toaster, ruggedly built to give years of dry after day trouble-free service. Makes evenly crisp toast in a minimum of time. Beautifully nickel plated with black wood door handles. Complete with 4-foot cord and plug. For any 110-120 volts current. Draws 550 watts. Shipping weight, 5 lbs. **6R6041**—List, \$2.00. Net, each... **95c**



Lighting Electric Toaster

One of the most amazing values on the market. A very neat design, beautifully nickel plated throughout. The special Nichrome heating element is suspended in porcelain frame. Equipped with 6 foot cord and plug. This toaster is guaranteed to give perfect satisfaction. For any 105-120 volt current. Ship. wt., 4 lbs. **6R6037**—List, \$3.00. Net, each... **\$1.62**



Easy-Turn Toaster

A large, splendidly proportioned Toaster. Toast carriers are adjustable—for crisp or dry toast. Heavily nickel plated, highly polished. Black enameled handles, buttons and feet. Size overall 7 in. length 7 1/2 in.; width 4 1/2 in. It has a fast toasting spiral-wound heating element of the best grade Nichrome. Consumes 600 watts. Brown Bakelite TORRID Cord Set. Ship. wt., 3 1/2 lbs. **6R6022**—List, \$3.95. Net... **\$2.73**

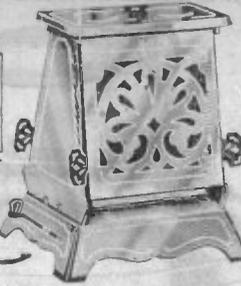


Table Grill and Toaster

Keep the housewife smiling with this new electrical cooking appliance. Cooks forty-nine dishes right at the table, and it does this with a minimum of time. Ends kitchen drudgery once and for all. The addition of this electric cooker in any kitchen materially lightens the work, for it is easily used, and, really, the food it cooks is delicious. Powerful, high-grade heating elements will give life-long service. Beautifully nickel plated finish. Complete with attaching cord and plug. For any 105-120 volt current. Draws 550 watts. Ship. wt., 5 lbs. **6R6080**—List, \$10.50. Net... **\$7.45**



SET IT—FORGET IT
IT'S AUTOMATIC



The New Hotpoint Automatic

Won't Burn the Toast!

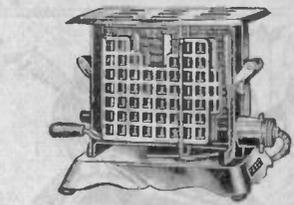
Hotpoint's latest contribution to electrical users—a completely automatic Toaster retelling for far less than others, and yet accomplishing the same purpose. This new automatic needs no watching, for it turns itself off when the toast is done, and it does this without the slightest bit of attention. You may set it for light toasting or dark brown toasting, whichever you desire, and the beauty of it all is that you do not have any burnt toast! Toast already made may be kept hot and crisp by placing it on the top—another great advantage. Unlike other similar toasters this one toasts two slices of bread at the same time, thereby taking only a short time to toast enough for the whole family. Exceptionally high-grade heating element insures long life. Highly nickel-plated finish. For any 105-120 volt current. Draws 600 watts. Complete with about 6 foot cord and attaching plug. Ship. wt., 3 lbs. **6R6081**—List, \$9.75. Net... **\$7.65**

slices of bread at the same time, thereby taking only a short time to toast enough for the whole family. Exceptionally high-grade heating element insures long life. Highly nickel-plated finish. For any 105-120 volt current. Draws 600 watts. Complete with about 6 foot cord and attaching plug. Ship. wt., 3 lbs. **6R6081**—List, \$9.75. Net... **\$7.65**



Just Push the Button—Pushmatic Does the Rest

A demonstration means a sale with Torrid Pushmatic. Just push a button, the carrier is reversed and the toast turns automatically—no burnt fingers or burnt toast. Gracefully designed and beautifully finished in polished nickel plate. Fast toasting spiral heating element. Makes an ideal present for birthdays or brides. Complete with about 6 foot cord and attaching plug. For any 105-120 volt current. Draws 600 watts. Ship. wt., 5 pounds. **6R6082**—List, \$5.50. Net... **\$4.67**



De Luxe Toaster Turns Toast Evenly and Quickly

The high quality of all White Cross electrical appliances is plainly shown in this two-slice toaster. The two reversing mechanisms turn the toast quickly and easily without handling. No springs or catches to get out of order. Ventilated for better surplus toast warm, crisp, and palatable. Genuine Nichrome mica insulated heating element. Polished nickel plated finish. Complete with about 6 foot cord and attaching plug. Draws 600 watts. For any 105-120 volt current. Ship. wt., 3 lbs. **6R6083**—List, \$5.00. Net... **\$3.86**

Hold-Heat Toaster

Although moderate in price, this is a most efficient, reliable and attractive toaster. Toasts very fast—a slice a minute. Takes two large sized slices. Highly polished nickel finish. Very neat, beautiful design—easily cleaned. Comes complete with 6 foot cord and plug. For any 105-120 volt current. Finest quality heating elements. Shipping wt., 4 lbs. **6R6044**—List, \$3.50. Net, each... **\$2.04**



4-Slice Toaster

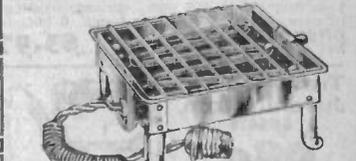
One of the finest toasters on the market and enjoys wide popularity everywhere. Sturdy construction, frame, highly nickel plated. Toasts four slices of bread at once and has special turning device so that the four can be turned at the same time. Genuine Nichrome heating element. Complete with about 6 foot cord and attaching plug. For any 110-120 volt current. Shipping weight, 8 lbs. **6R6042**—List, \$8.95. Net, each... **\$6.70**



High Grade Single Burner Stove Low Priced!

For those doing light housekeeping this single burner electric stove is ideal. Takes only a small space, but easily does the work of the larger stoves. Finished in iron black enamel with all nickel legs. Size 6x9 1/4 inches high. Long-lived heating element. Completely equipped with heater cord and two-piece attaching plug. Draws 5 amperes. For any 105-120 volt current. Ship. wt., 5 lbs. **6R6046**—List, \$1.50. Net... **\$1.12**

Combination Toaster Range

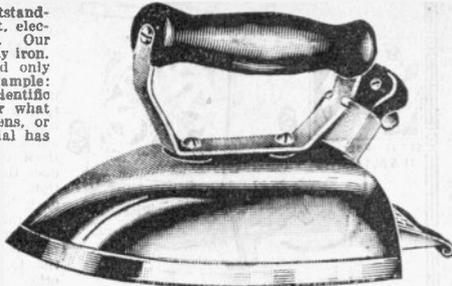


A large, splendidly proportioned toaster. Toast carriers are adjustable for dry or crisp toast. Heavily nickel plated, highly polished. Black enameled handles, buttons and feet. Size overall 7 in.; length 7 1/2 in.; width 4 1/2 in. It has a fast toasting spiral-wound heating element of the best grade Nichrome. Consumes 600 watts. Brown Bakelite Torrid cord set. Comes in beautiful assorted colors. Wt., 4 lbs. **6R6047**—List, \$1.50. Net, each... **75c**

A large, splendidly proportioned toaster. Toast carriers are adjustable for dry or crisp toast. Heavily nickel plated, highly polished. Black enameled handles, buttons and feet. Size overall 7 in.; length 7 1/2 in.; width 4 1/2 in. It has a fast toasting spiral-wound heating element of the best grade Nichrome. Consumes 600 watts. Brown Bakelite Torrid cord set. Comes in beautiful assorted colors. Wt., 4 lbs. **6R6047**—List, \$1.50. Net, each... **75c**

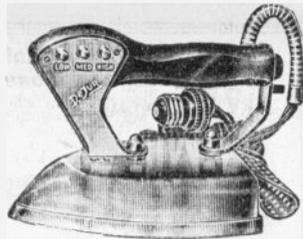
Big Special — A Wonderful Value!

Truly a wonderful value. An outstanding example of the modern, efficient, electric iron manufacturing methods. Our price is extremely low on this quality iron. This iron has many features found only on higher priced irons. For example: Stream Line — Tapered Point — Scientific Slant — Perfect Balance. No matter what the duty is, heavy linens, or woolsens, or flimsy silks, the point of this Special has just the right taper to nose into gathers and corners. Just enough slant on the beveled edges of the bottom for running along under folds and pleats. Uniformly heated so that each stroke leaves it the widest path of finished work. Convenient built-in heel rest does away with stands. Mirror-nickel finish and ebony finished handle. This standard weight iron is complete with full length, genuine asbestos covered heater cords, complying with all Underwriters' regulations, best quality two-piece attachment plug,



and regular connecting plug for attaching cord to iron. Draws 550 watts. For any 105 to 120 volt current. Net weight, 8 pounds. Shipping weight, 8 pounds.

6R6084 **\$1.95**
\$5.00 List **Net**

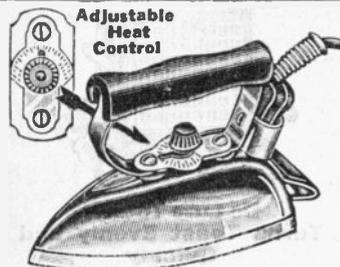


Dejur Regulating Pressing Iron

The finest pressing iron made! No plug to remove or replace. A special regulating device operated by the three little red buttons at top of handle give several changes of heat. Its rugged mechanical construction assures trouble-proof service year after year under the hardest abuse. There is nothing to get out of order. Genuine bakelite handle — will not scorch, warp, loosen, and keeps smooth, assuring perfect comfort and ease of operation.

The iron proper is beautifully proportioned with medium sharp nose and beveled edge and is beautifully nickel-plated. Special perforated heel rest. Unquestionably the finest pressing iron on the market.

6R6029 — 6 lb. List, \$ 8.75. Net, **\$6.35**
6R6030 — 8 lb. List, 12.00. Net, **8.90**
6R6031 — 12 lb. List, 20.00. Net, **14.80**
6R6032 — 15 lb. List, 21.00. Net, **15.45**



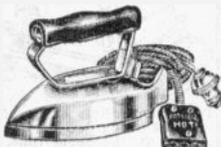
Super Automatic

Here is a first quality Electric Iron with Adjustable Heat Control. Positively cannot overheat. No waiting for the iron to cool off or to get hot. Just adjust the heat control and instantly the heat is regulated to any desired temperature. Other outstanding features of this desirable iron are: Highest grade element — tapered end — perfect balance — highly polished nickel finish — rosewood handle with cord to match. This iron bears a Two-Year Guarantee by the manufacturer. Draws 660 watts. For 110 volt current. Shipping weight, 8 pounds.

Number	List	Each	Lots of 3
6R6087	\$7.75	\$5.95	\$5.84

Three-Heat Electric Iron

6R6027
\$3.97
Net
Each



Has many advantages over single heat types. It gives exactly the amount of heat necessary for the work at hand and operates at a great saving because no current is wasted.

Change from one heat to another is made by moving attachment plug. For large or damp pieces use high heat, for ordinary work medium heat, and for light work, low heat. Guaranteed and especially recommended as an unusual value. Heavily nickel plated. Complete with 6-foot cord and attaching plug. Uses 660, 490 or 170 watts current, according to degree of heat. Weight of iron, 6 pounds. 6R6027 — List, \$6.75. Net..... **\$3.97**

Travelers' or Juvenile Iron

6R6026
98c
Net Each



Exactly the same as any high grade standard electric iron, but smaller in size, weighing only one pound. Beautifully nickel plated with ebony handle and nicely pointed nose and beveled edge. Guaranteed to give good service. Has the finest quality element. Complete with 6-foot cord and separable plug. Draws 350 watts. For any 105 to 120 volt current. Shipping weight, 3 1/2 lbs. 6R6026 — List, \$3.00. Net..... **98c**

With Case

\$850

Net Each

Without Case

\$750

Net Each



GENUINE SUNBEAM Will Last for Years

The new Sunbeam Iron has four outstanding features: The indestructible Heat-Regulating Plug, the Air Cooled Handle, the famous All-Over Heavy-Duty Heating Unit and the Art Steel Fireproof Case. This iron makes ironing easier, quicker, and better. Made of only the best procurable materials so that hours of abuse will not harm it. Comes complete with the heavy steel case as illustrated (if so desired). This makes it possible to put the iron away immediately after using. The sole plate is double nicked and double polished. The iron is gracefully tapered to nose into pleats and ruffles. Complete with stand. Regulation 6 lbs. weight. Draws 550 watts. For any 105 to 120 current. Ship. wt., 7 lbs. 6R6088 — Without case. List, \$7.50. 6R6089 — With case. List, \$8.50.

Little Sunbeam — 3-lb. Iron

Just like the big Sunbeam described in detail above, only half the size. Ideal for small pieces, and for traveling.

6R6090 — In Art Steel Case.....\$6.00. List.....



DeLuxe — American Beauty A Superior Quality Iron

One of the best irons made. Has extra large ironing surface 4 1/2 by 3 3/4 inches. Large, comfortable, always cool wood handle. Never tires the arm or the wrist. Has cut away nose — easier to see work on tucks, flouncings, etc. It is a indestructible patented sheet heating element, with perfect distribution of heat over entire surface. Round, removable, non-scorching contacts. Electrically welded steel handle supports that cannot break and have no screws or rivets to work loose. Comes complete with stand. Beautifully polished nickel finish. Each enclosed in beautiful shelf box. Draws 525 watts. For any 110-120 volt current. Shipping weight, 8 pounds.

6R6033 — Net weight of iron 6 1/2 lbs. List, \$7.50.

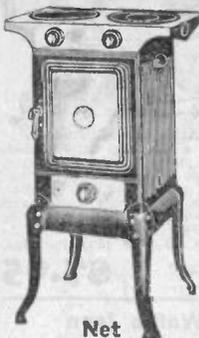
QUALITY ELECTRIC IRON

A big sales leader. Made by one of the largest manufacturers of electrical appliances in the world. Graceful in shape and stunning in appearance, this full 6-pound iron will appeal to every woman who is looking for a long-life household necessity at a medium price. Perfectly balanced, it will not tire the arm or wrist even over a long period. Solidly made of high quality materials, this iron will give trouble proof service for many years. The keenly tapered nose and the sloping sides make the most difficult ironing easy and fast. Saves effort and current consumption. Take advantage of our extremely low price on this iron in lots of 3 or more and stock up for a big business in this number. Complete with stand and high grade two-color, black and gold, cord with two-piece plug. Draws 550 watts. For all 105-120 volt current. Shipping weight, 8 pounds.



6R6091 **\$2.69**
\$5.00 List **Net**

Super-Heat High Speed WILWEAR Electric Range

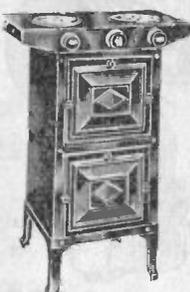


Net
\$45.00

The many special features of this Electric Range make it extremely popular. It has a heavy steel base and frame finished in black baked enamel with pearl-gray porcelain on hot plate door and switch plate. A durable and rust-resistant finish. Oven is insulated with J.M. asbestos sponge felt and lined with Sherardized steel, guaranteed rust proof. Top of oven contains removable heavy-duty broiler unit which has perfect heat distributor. The heavily insulated Crown door has quick acting dial thermometer. Reversible heater, semi-flush mounted, provides control for high-speed super-heat which connects 1,100 watts in large plate for quick cooking. Coils of Nichrome wire—the finest made. Large 8-inch unit heats oven to cooking temperature in 15 minutes. Special switch for oven and broiler. Dimensions: Range, 35 inches high; oven, 12x18 1/2 in.; store top, 13x20 in.; burners on hot plate, 3/4 in. and 1/2 in. diameter; oven broiler unit, 8 1/2 x 9 in. Cooking top plates, 8 in. diameter. An economical range, favorite in many homes. For any 105 to 115 volt current. Ship. wt., 90 lbs.

6R7823—List, Complete, **\$45.00**
\$59.50. Net, each.....

Electric Cabinet Range



Retail Price, \$37.50

\$29.50

Net Price

Combines all the latest engineering principles together with compactness of size. Ideal for summer homes, cottages and apartments.

There are two flush receptacles conveniently located at the rear of this Range, one for cooking on the two top units and the other for oven baking. A 4-station, three-heat switch regulates the oven heat, low, medium and high, so that the right baking heat can be secured and maintained at all times.

Shipping weight, 90 lbs.
6R7820
Electric Cabinet Range

Best Quality—Marion Electric Range

Beautiful, Economical
Efficient

Marion Ranges are generally known as one of the finest lines of electric ranges on the market. Their many features, their superior construction and beauty in design give them preference to other ranges of this type selling at much higher prices. The tops are pressed steel and equipped with 8-inch radiant type surface units. Each unit, including the oven, is controlled by a 3-heat switch. The coils in the units are spiral type laid in deep grooves in a clayed composition which reflects the heat into the cooking utensil, making a quick, intense heat. This moulded piece is impervious to water, acids, etc., and is supported by a steel container. Fluids boiling over on red-hot coils will not harm them. Extra heavy pins and nuts are used at all terminal connections. Complete instruction cards telling how to operate and cook successfully with the Marion are furnished with each range.



6R11195

List Price \$99.00

\$72.00
Ea. Net

Note These Features—Note the Price— See What You Save!

Designed to fill the needs of small families and apartment house installations, this fine range embodies all the accepted improvements in electrical cooking equipment.

Equipped with three Cloverleaf Surface units, one baking unit, one broiling unit, each 1200-600-300 watts capacity, respectively. Armoco rustless steel frame, finished in high gloss, heat proof Japan with white porcelain top and splasher.

6R11195—List, \$99.00.

Net, each.....

6R11196—Same as above, except all-over glistening white porcelain enamel, baked-on Armoco ingot iron. The most durable electric range made.

List, \$125.00. Net, each.....

Oven is of Wilder aluminumized steel, with heat indicating thermometer in door.

Heating units controlled by 3-heat Diamond H reciprocating switches.

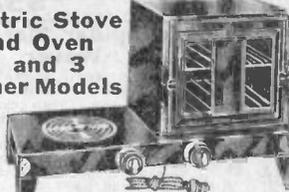
Dimensions: Oven, 16x16x12 in.; cooking top, 21 1/2 x 24 1/2 in.; height of cooking top, 31 1/2 in.; total height, 46 in.; floor space, 25x14 in. For any 110-220 volt current. Ship. wt., 200 lbs.

\$72.00

Net, each.....

\$97.50

Electric Stove and Oven 2 and 3 Burner Models



Attractive appearance, sturdy construction and economical current consumption make these ranges very popular. The three-heat switch at each unit is an added quality feature. Made of heavy sheet steel, finished in black enamel, nickel trimmed. Complete with about 6 ft. cord and plug. For any 105-120 volt current. Ship. wt., 20 lbs. and 25 lbs.

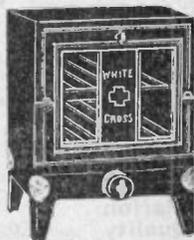
COMPLETE WITH 11x11x12-INCH OVEN.

6R7821—Two Burner, size 11x24x5 1/2 in. High. List, \$14.00. Net..... \$11.25

6R7822—Three Burner, size 11x30x5 1/2 in. High. List, \$17.50. Net..... \$13.95

Electric Stove and Oven

A heavy duty, quick heat a stove. The 1000 watt heating element furnishes ample heat for heavy cooking and baking. Compact in size: 11x11 x 12 1/2 inches. Stove is finished in triple black enamel. Equipped with rotary "on" and "off" switch control. The genuine Nichrome heat element is mounted in a porcelain insulation. Portable oven is 11x11x12 inches. Has two baking racks, and a glass door for clear vision. Completely equipped with about 6 feet cord and plug. For any 105-120 volt current. Ship. wt., 19 lbs.



6R7834—List, \$9.00.

Net, each.....

\$7.20

Electrical Toys For Girls



Four aluminum cooking utensils furnished with each stove. Equipped with 6 ft. cord and plug. For any 105-120 volt current. Size, 18x7 1/2 x 15 inches. Ship. wt., 12 lbs.

6R7742—List, \$12.00. Net..... **\$9.95**

Toy Range

A toy that will give many hours of enjoyment. Finished in black enamel with nickel trimmings. High quality heating unit is imbedded in a heat-resisting composition. Complete with about 6 ft. of cord and plug. For any 105-120 volt current. Size, 6x8x10 1/2 in. high. Ship. wt., 4 lbs.

6R7743—List, \$3.50. Net..... **\$2.69**



Toy Percolator Set

A practical, electrical set that will please every little girl. Designed to resemble a real set and percolates coffee just like the big ones. Made of highly polished aluminum. Tray, Sugar and Creamer included. Complete with about 6 feet of cord and plug. For any 105-120 volt current. Ship. wt., 2 lbs.



6R7744—List, \$2.75.

Net..... **\$2.10**

Toy Waffle Iron

Just like Mother's waffle iron this practical electric toy will quickly make tasty brown waffles. How proud the little miss will be to own it. Built for practical use; easy to operate and uses very little current. Guaranteed to work. Complete with about 6 feet of cord and plug. For any 105-120 volt current. Ship. wt., 1 lb.

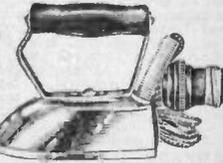
6R7745—List, each, \$3.50. Net..... **\$2.69**



Small Iron

Built just like a big iron and looks like one. A pleasing toy that will do real ironing.

Weight, 1 lb. Can be used as traveler's iron by grown people. The heating unit is self-contained and distributes the heat evenly over the ironing surface. Nickel plated finish, highly polished. Completely equipped with about 6 feet of cord and plug. For any 105-120 volt current. Shipping weight, 1 lb.



6R7746—List, \$1.25. Net..... **98c**

Electric Toy Vacuum Cleaner

Well made; equipped with high quality Ekmano motor which creates vacuum. Runs easily over carpets and rugs. Size, 6 in. wide, 28 1/2 in. long from tip of handle to the wheels. Complete with 10 ft. of cord and plug. For any 105-120 volt current. Ship. wt., 10 lbs.

6R7747—List, \$5.25. Net, each..... **\$5.25**



High Grade

Waffle Iron



The golden brown crisp waffles made in this exceptionally high grade iron almost melt in your mouth. Special long lived heating element cooks smoothly and evenly. No grease is required except when first used. Cooks a 7-inch waffle in about three minutes. Die cast aluminum grids. Nickel plated finish. Enamel handles. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 10 lbs.

6R7281—List Price, \$3.00. \$6.15
Net.

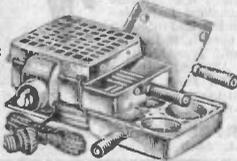


Special Waffle Iron

Low in price but fully guaranteed to give perfect satisfaction. Cooks a seven-inch waffle in about three minutes—both sides at once—and cooks it thoroughly so that it is a great pleasure to eat. Die-cast aluminum grids require greasing only when used first time. Case made of heavy metal beautifully finished in polished nickel that presents a mirror appearance at all times. Slotted hinge allows batter to rise evenly when cooking. Genuine nichrome heating elements—the finest made. Ebonized keep cool handles. Completes with about 6 foot connecting cord and two piece attaching plug. For any 105-120 volt current. Shpg. wt., 10 lbs.

6R7273—List, \$6.80. \$4.85
Net.

Marion Quality Electric Table Stove



An entire meal can be cooked right on the table with this clever appliance. It broils, steams, fries, toasts, bakes biscuits, muffins or cup-cakes. Has three heat snap switch which allows proper regulation of cooking temperature. Has two deep and one shallow pan, four egg poaching cups and a broiler rack. All are of heavy aluminum. Frame of pressed steel, nickel plated, highly polished. Finest heating element coil supported by porcelain bushings. Cooking surface, 7 1/2 inches. For all 105-120 volt current, 6 ft. cord and plug. Shpg. wt., 10 lbs.

6R7300—List, \$12.50. \$8.74
Net.

Combination Waffle Iron, Toaster, Grill and Table Stove

The ideal appliance for the summer cottage or small apartment where snacks are to be cooked in a hurry and space cannot be given to an elaborate outfit. Will prepare waffles, toast, broil steaks and chops. Intense or medium heat. The size overall is 8 inches high and 8 inches in diameter, not counting handles. Shpg. wt., 10 lbs. For use on 110 volts, DC or AC.

6R7301—List, \$12.00. \$7.98
Net.

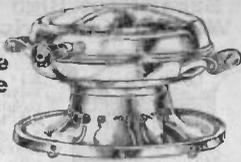


De Luxe Model Hold-Heat Waffle Iron

Crisp Delicious Waffles Easily Made with This New and Better Iron. Note These Special Advantages De Luxe Model Most Beautiful Made!

1. Requires no greasing except when used first time. Die cast aluminum grids make this possible.
2. Special expansion hinge allows batter to rise evenly.
3. Highest grade heating element—will last for many years.
4. Drip-proof batter catcher keeps excess batter where it belongs.
5. Ever-cool ebonized handles.
6. Highly polished nickel finish.

The most beautiful waffle iron on the market. A masterpiece, designed by a famous artist. Makes full size, large waffles. Drip



catcher on edge of plates in addition to large base, which acts as a tray and drip catcher. Die cast aluminum plates require no grease, eliminating all smoke and odor. Ample expansion hinge. Octagonal ebonized handles. Shell of heavy brass, beautifully etched and finished in highly polished nickel plate. 5 1/2 inches high; base, 9 1/4 inches. For all 105-115 volt current. Cord and plug included. Shpg. wt., 13 lbs.

6R7299—List, \$12.00. \$7.95
Net, each.



Genuine Security Waffle Iron

A full size waffle iron having practically the same batter capacity as the large standard 7-inch circular iron. Body and legs are made of heavy steel, highly nickel plated. The grids are made of aluminum, thus eliminating the necessity of using grease, which results in smoke. The long lived oven type element distributes heat over the entire surface. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 10 lbs.

6R7250—List, \$4.75. \$3.64
Net.



Popular Marcel Waver

An extremely efficient Marcel Waver of patented type construction. Permanent cord assembly. Rod is curved and clamp is of proper depth for perfect wave. Improved heating element. Ivory enameled handle. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 1 lb.

6R7252—List, \$1.60. \$1.19
Net.

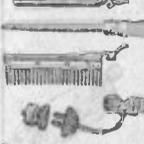


Detachable Cord Curling Irons

Many women prefer the detachable cord type curler with its convenience plug. No need to bother with turning light socket on and on—just pull or insert the plug. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 2 lbs.

6R7264—Small Type, Length, 10 in. Diameter of waver rod, 3/8 in. \$1.19
List, \$1.60. Net.

6R7255—Large Type, Length, 11 in. Diameter of waver rod, 1/2 in. \$1.79
List, \$2.50. Net.



Combination Hair Dressing Outfit and Curler

A convenient set for the home hairdresser. Includes a waver rod and curler clamp; attachable driving comb; and deep channel Marcel clamp, all interchangeable. White handle, cold-flocked, harmonizes with button and cord. TORRID "trouble-proof" heating element. Over all length 10 1/2 in., diameter waver rod 3/8 in. Consumes 20 watts. Shpg. wt., 1 1/2 lbs.

6R7315—Pink. \$1.24
6R7316—Blue.
6R7317—Green.
List, \$1.75. Net.



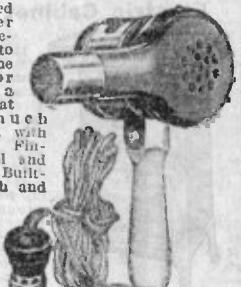
Junior Waffle Iron

A "two in family" size. Beautifully proportioned. The equal in construction and finish of higher priced waffles. 5 in. high, die cast aluminum grids 6 1/2 in. diameter. Expansion hinge. The nichrome element, mica insulated, is guaranteed for a lifetime of service. No greasing necessary. Consumes 440 watts. Brown Bakelite Cord Set. Shipping weight, 7 pounds.

6R7319—List, \$5.95. Net... \$4.25

Electric Hair Dryer

This improved model dryer makes an immediate appeal to any woman. The powerful motor delivers such a strong breeze that hair is dried much quicker than with other methods. Finished in nickel and gray enamel. Built-in toggle switch and about 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 4 lbs.



6R7253
List, \$6.00. **\$4.95**
Net.



Flapper Curling Iron

For a good, inexpensive curler the Flapper is the best on the market. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 2 lbs.

6R7328—Shown, List, 80c. Net. 62c
6R7331—Slightly larger with black handle. List, 90c. Net. 68c
6R7332—Same with ivory handle. List, \$1.00. Net. 73c



Hold-Heat Special Gift Boxes

Combination Hair Dryer and Curler

Curling Iron and Driving Comb attractively packed in silk-lined deluxe box. Smooth one-piece aluminum die cast comb has sufficient heat to really dry hair without drying out the scalp. Curling Iron is popular standard D-3 Deluxe Curler in Ivory finish. 105-115 volts.

6R7290—Ivory finish. \$4.45
Retail, \$6.00. Each.

Percolator Set



Truly a beautiful pattern in rich nickel finish. Non-heating ebmold handles. New type heating element starts cold water percolating in one minute! Gravity reset safety switch automatically shuts off when percolator runs dry. Gold lined sugar and creamer to match. Length of tray 20 in. About 6 foot cord and plug. For any 105-120 volt current.

6R6001—Complete Set. Shpg. wt., 14 lbs. List, \$45.50. **\$33.47**
6R6002—Urn only. Shpg. wt., 9 lbs. List, \$24.50. **\$18.65**

Nicalume Percolators

Has a silver-like brilliancy that keeps forever. Original lustre restored by polishing with few strokes of dry cloth. Hot water principle of making coffee, insuring the proper extraction of the desirable coffee flavor and leaving the bitter undesirable elements in the grounds. For any 105-115 volt current. About 6 ft. gray silk cord. Shpg. wt., 4 lbs.



6R6017—6 cup. List, \$9.85. **\$6.35**
6R6018—9 cup. List, \$11.85. **\$7.35**

Quality Percolators

3 to 9 Cup Sizes
 Finest quality—pumps faster, makes better coffee and uses less current! Thermo-static principle element starts percolation from cold water in one minute. Safety switch automatically shuts off if percolator runs dry. Nickel-plated finish. Hinge cover. Ebonized handle. About 6 foot cord and plug. Shpg. wt., 5 lbs. For any 105-120 volt current.

6R6005—3 cup. Draws 350 watts. List, \$8.50. **\$5.95**
6R6006—5 cup. Draws 350 watts. List, \$9.50. **\$6.85**
6R6007—7 cup. Draws 350 watts. List, \$10.50. **\$7.78**
6R6008—9 cup. Draws 350 watts. List, \$12.00. **\$8.59**



Very popular because of its high quality and low price. Heats quickly. Made of polished aluminum. "Keep cool" ebonized handle. Fiber tipped feet. Complete with about 6 foot cord and plug. For any 105-120 volt current. Shipping wt., 3 lbs.

6R6012—6 cup size. Draws 350 watts. List, \$4.00. **\$2.58**
6R6013—8 cup size. Draws 350 watts. List, \$4.50. **\$2.79**



CASSEROLE



SERVER



Complete Set
\$48³⁷

Coffee Set

Beautiful Hand Decorated China

A most beautiful urn set. The graceful shapes will appeal to everyone. A rare combination of heat-proof hand painted china in richly colored pheasant design with mountings in highly polished nickel. The Urn is of large size, capable of percolating 10 cups at one time—ample enough for small parties. The richness of this set is further emphasized when it is used with the pie server and casserole. About 6 foot cord and plug included with urn. For any 105-120 volt current.

6R6099—Set of all pieces illustrated. Complete. List, \$66.50. Net, **\$48.37**
6R6094—Urn only. List \$32.00. Net, **\$24.15**
6R6095—Creamer and Sugar. List, \$6.50. Net, **\$4.87**
6R6096—Oral Tray. Diam., 21 in. List, \$11.00. Net, **\$8.60**
6R6097—Casserole. Diam., 8 in. List, \$9.25. Net, **\$7.48**
6R6098—Pie Server. List, \$6.75. Net, **\$4.82**



Four Piece Buffet Set

The price of this set is exceptionally low, quality being considered, and you will find it to be a splendid seller the year around. Made of pure aluminum which is easy to keep clean. Fiber felt on percolator prevent scratching polished surfaces; ebonized handle keeps cool at all times. Diam. of tray, 16 in. With about 6 foot cord and plug. For any 105-120 volt current. Ship wt., 5 lbs.

6R6093—Percolator set, 9 cup size. List, \$7.00. Net, **\$5.76**



Artistic 7 Cup Party Set

The permanent silver-like finish of this English design percolator set is remarkably beautiful. Automatically shuts off when percolator runs dry. Gold lined sugar and creamer to match. Diam. of tray 13 in. About 6 foot cord and plug. For 105-120 volt current.

6R6010—Complete. List, \$21.00. Net, **\$15.60**
6R6011—Percolator only. List, \$12.00. Net, **\$8.65**

Old English Design Percolator Set

13 Inch Tray



Rich Nickel Plate
 Gold Lined Sugar Creamer

With chased metal band around top. Special heating element starts percolating cold water in one minute. Percolator automatically shuts off if it runs dry. Has cord and plug. For any 105-120 volt current. Shpg. wt., 11 lbs.

6R6003—Complete Set. List, \$25.00. Net, **\$17.15**
6R6004—Urn only. Shpg. wt., 8 lbs. List, \$16.00. Net, **\$11.45**

Hold-Heat 9 Cup Urn Set



Gold Lined Sugar Creamer

A striking Colonial design. Made of aluminum and finished in polished nickel plate. Made by a well known company and guaranteed for two years. Tray 12 1/2 by 20 1/2 inches.

6R6015—Complete Set. List, \$24.50. Net, **\$14.65**
6R6016—Urn only. Shpg. wt., 9 lbs. List, \$14.00. Net, **\$8.35**

Aluminum Percolators

Popular Two Cup Percolator

Aluminum Percolator—9 Cup

Made from heavy pure aluminum rubbed to high polish. No seams, welds or rivets at bottom of pot. Has spray type pump Genuine Nicalume moisture-proof heating element. 6 foot cord and plug.

For any 105-110 volt current. Full 9-cup size.
6R6009—List, \$6.00. Net, **\$3.94**



An amazing bargain to be sure, and the quality is there! Seamless drawn aluminum body; highly polished. Ebonized handle. Emersion type heating element makes delicious coffee very quickly. Valveless double wall vacuum pump. Insulated base. About 6 foot cord and plug. For any 105-120 volt current. Shpg. wt., 1 1/2 lbs.

6R6000—List, \$3.25. Net, **\$2.39**

Wash Quicker - Easier - Cheaper

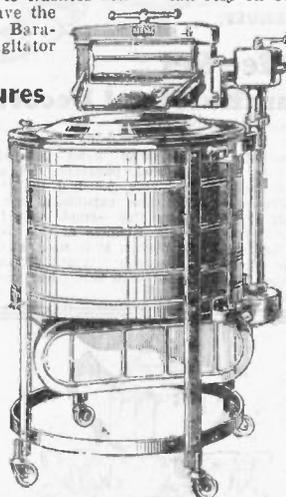
"Positive Agitator" Electric Washer

The Most Popular Type Washer To-Day

Agitator Washing Machines are literally taking the country by storm. Riding on a wave of popularity never before witnessed in the history of electric washing machines. Women everywhere are clamoring for this better looking, more efficient, quicker, household necessity. In appearance, construction, and performance, the Agitator is equal to washers selling in your locality for \$125 to \$160. You save the difference between what others ask and what Barawiks ask when getting this Super Efficient Agitator Washer.

Compare these Quality Features

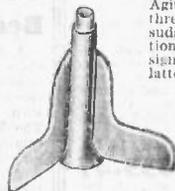
- (1) **ACTION**—Agitator. Most efficient principle.
- (2) **WRINGER**—Non-rusting aluminum. Six position automatic locking device. Instant safety release. Soft rollers.
- (3) **TUB**—Rust-proof, heavy 18 oz. copper. Heavy non-peeling, polished nickel inside.
- (4) **MOTOR**—Full 1/4 H.P. Sunlight motor. Dust and moisture proof.
- (5) **CAPACITY**—3 LARGE SHEETS.
- (6) **GEARS**—Heavy in construction, simple in design. FULLY ENCLOSED. Operate in grease-tight housings.
- (7) **BEARINGS**—Packed in heavy lubricant. Need lubricating only once a year.
- (8) **FRAME**—Built of heavy channel steel. Securely welded and riveted.
- (9) **COVER**—Made of one piece of aluminum.
- (10) **FINISH**—All parts except the wringer are finished in beautiful surf green lacquer. Permanent and attractive.



Fully Guaranteed by Manufacturer

The Agitator Washer is so well constructed in all details that the manufacturer FULLY GUARANTEES it to give perfect satisfaction. Naturally this guarantee is intended to cover home use only, as there is no washing machine guaranteed to stand up under daily use of small laundries. You can rely on our guarantee.

Most Effective Washing Action Will Not Injure the Finest Clothes



This is a close-up view of the Agitator itself. You can see the three large paddles that give the suds a swift, turbulent, rolling action, and the three specially designed intermediate webs. These latter increase the force of the action, and at the same time protect the clothes from being damaged by winding around post. The Agitator washes the grimest garments as easily as the sheepest silks, without damage or injury to material.

Real Money-Saving Prices

You make a real worthwhile saving at this low price. There are many things that you need in this catalog that you can buy with the money you save on this machine. The washer is equipped with a powerful 1/4 H.P. motor for any 110-120 volt 60-cycle AC current. Shipping weight is 185 pounds.

8R14504

List \$99.50

\$81⁵⁰
Net

Electric Vacuum Cleaners

Ball-Bearing with Motor Driven Brush

\$30⁹⁸

The new Cleaner! Cleans not only by powerful suction, but also with the sweeping, carpet-beating motor driven brush. The triple action gently beats and lifts all the dirt and grit out of the thickest rug in double quick time. So thoroughly does it do the work, that less time is spent cleaning the house. The swivel rear wheel permits easy rolling on and off rugs. Features of construction: Brush is driven by belt attachment direct to motor shaft, and can be adjusted for wear. Nozzle can also be adjusted to different thickness carpets. Ball bearing 1/4 H.P. Bircro Universal Motor never needs oiling, enclosed in dust proof housing. Easily opened, quick emptying dust bag, with slide-on clamp. Trigger switch at lower end of easy-rip pistol handle. Nozzle, fan, and fan case of high grade cast aluminum. For 110-Volt 60 cycle AC or DC current. Takes attachments listed below. Ship. wt., 16 lbs. List, \$37.50.

1OF14500—Net, Each **\$30.98**

Attachments for Cleaners

\$4³⁵ A Set



Will fit any cleaner listed on this page except the Junior Vacuum Brush. Useful every day. Set consists of 8-foot flexible rubber hose; swiveled metal connection, fastened to end of hose; steel connecting tube; tapestry brush; 5-inch aluminum nozzle; 30-inch extension tube.

1OF773B—Net **\$4.35**

Straight Suction Cleaner

Ball-Bearing or Bronze Bearing

Made of the best quality materials throughout these cleaners will give years of satisfactory service. The double swan-back brush, coupled with the powerful suction concentrated in the long, narrow, low nozzle, assures the best possible cleaning results. Will not injure the finest rugs. The trouble proof 1/4 H.P. Bircro Universal Motor of the ball bearing cleaner never requires oiling. In the bronze bearing model, a perfected oiling system overcomes bearing troubles. Cast of solid aluminum. These cleaners are light in weight and easy to handle, yet extremely durable. The stationary brush cannot become detached or lost. A swivel rear caster, 20-foot cord with plug, and trigger switch are other worth while features. For all 110-volt, 60 cycle AC or DC current. Ship. wt., 15 lbs.

1OF7739—BALL BEARING List, \$39.75. Net each... **\$28.98**

1OF7740—BRONZE BEARING. List, \$29.50. Net each... **\$22.65**

2-Year Guarantee

Every part of all our cleaners, motor and all, carries an unrestricted guarantee for TWO full years. This guarantee is backed by 18 years of manufacturing experience and nearly two million dollars in resources.



Ball Bearing
List \$39.75

\$28⁹⁸
Net

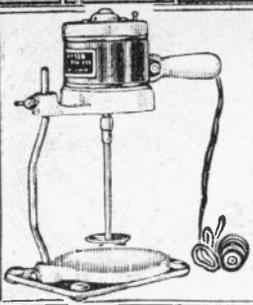
Junior Vacuum Brush

The handy Vacuum Brush of 1,000 uses. For overstuffed furniture, clothing, stair carpet, automobiles, billiard tables, office furniture and fixtures, etc. Has a super efficient 1/4 H.P. Bircro Universal motor. Bronze bearings are protected by dust proof covering. A perfected oiling system eliminates trouble. Complete with 20-foot cord and plug. Ship. wt., 5 lbs.

1OF7741—List \$19.50. Net each... **\$13.85**

In lots of 3. Net... **\$12.15**





Kitchen Mechanic

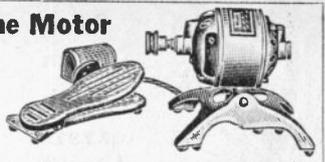
Since its introduction, this useful little device has become tremendously popular. Ideal for whipping cream, beating eggs, mixing drinks, mayonnaise and dressings. Performs many other operations formerly done by hand.

Finished in gray and white enamel, with polished nickel trimmings. An attractive, sanitary machine. Comes complete with adjustable stand and 7 feet of cord with toggle switch and 2-piece plug. For 110 volt, 60 cycle current. Ship. wt., 7 lbs.

GR6048—List, \$7.00. Net, each... **\$5.65**

Sewing Machine Motor

A wonderful convenience. Every sewing machine owner is a live prospect. Instantly converts old-style treadle sewing machines into electrically operated models. Fits any make or model except chain stitch. No belt, screws or clamps needed—motor is merely placed next to hand wheel. Uses less than a cent's worth of current an hour. Speed is regulated with a foot control rheostat switch. Comes complete with instructions, can of oil, and long cord with plug. Operates on AC or DC 110 volt, 60 cycle current. Shipping weight, 15 pounds.



GR6051—List, \$18.50. Net, each... **\$14.75**
 GR6052—Same, except for 110 volt, 25 cycle current. List, \$18.50. Net, each... **14.75**

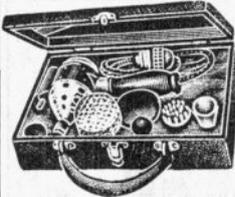


Superior Quality Vibrator

The professional instrument. Finest Vibrator made. It has a most powerful motor, and gives the true Swedish movement which medical science recognizes as the most effective.

Light, yet strong. Especially recommended for physicians, nurses, barber, and for home treatment. Outfit consists of Vibrator; six applicators; ample cord and plug; and 300 page book of information. Black leatherette carrying case. Ship. wt., 8 lbs. For any 105-120 volt current.

GR6050—Retail Price, \$28.50. Net, each... **\$21.60**



Massage Vibrator

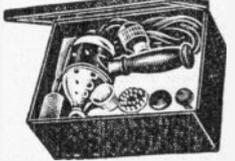
GR6073
 List \$16.00
\$12.45
 Net Each

A good quality Vibrator Outfit to sell at a moderate price. Recommended for semi-professional use in the home. Beautifully finished in nickel and black enamel. The universal motor has three speeds easily regulated by switch in bonized handle. Very quiet in operation. Does not easily tire the wrist or arm. Complete with Six Applicators, and a detailed treatment book with colored chart. Cord, handy oil can, and two-piece plug also included. The outfit is contained in a neat, attractive leatherette carrying case. Nickel trimmed. For all 110-120 volt current.

GR6073—List Price, each, \$16.00. Net Price, each, **\$12.45**

HOME Vibrator

GR6074
 List \$11.00
\$7.02
 Net Each



A Low Priced Home Outfit

One of the most popular Vibrator Outfits sold today. Made of good quality materials throughout, it is so reasonably priced as to be within the reach of all. Finished in attractive nickel, and black enamel. The Universal motor gives that desired massage action to any of the four applicators. A complete treatment book with colored chart is a very helpful feature. Standard length cord with two-piece plug, together with a handy oil can, is included. The whole outfit is neatly contained in a durable black cardboard carrying case. For all 110-120 volt current. Shipping weight, 4 pounds.

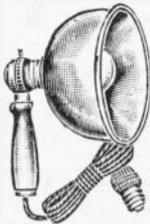
GR6074—List Price, each, \$11.00. Net Price, each, **\$8.20**



Star Vibrator

The first, real good motor driven vibrator to be sold at a low price. Light in weight and convenient to use—start and stop switch in polished rose-wood handle. Four applicators—cup, comb, disc and sponge. Vibrator operates on either alternating or direct current, 105-120 volts. Packed in imitation leather covered box.

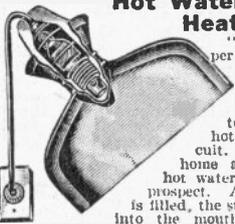
GR6057—Retail Price, \$7.50. Net... **\$5.90**



Therapeutic Sunburst Lamp

For treating muscular trouble and minor ailments. Produces a strong, health-giving ray from a specially concentrated filament lamp placed in a special focus with the highly polished, specially designed reflector. Switch conveniently located at top of ivory handle. Complete with bulb and 6 ft. cord extension.

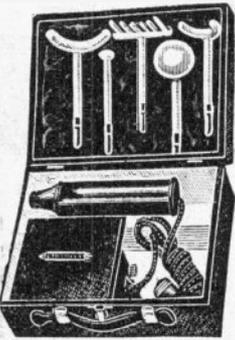
Shipping weight, 5 pounds. GR6059—List, \$5.00. Net, each... **\$3.48**



Hot Water Bottle Heater

"Keephot" stopper keeps any hot water bottle at a constant and uniform heat. Guaranteed not to burn, get too hot, or short circuit. A much needed home appliance. Every hot water bottle owner a prospect. After the bottle is filled, the stopper is screwed into the mouth, and plugged into any convenient outlet. Fitted with connector, 2-piece plug, and 10 feet of rubber covered cord. For any 110-120 volt current. Ship. wt., 2 lbs.

GR6075—List, \$4.50. Net, each... **\$3.15**



Complete Violet Ray Outfit

This is the latest portable high frequency Violet Ray Outfit DeLux. A really superior article for people who want the best. One that you will be proud to sell, as it will give your customer complete, lasting satisfaction. Extremely compact, it can be put away in a small space when not in use. Powerful and efficient, it will give the quickest results when used. Safe and economical. There is absolutely no danger of accidents, and takes very little current. Complete with five electrodes. The first one is for all body surfaces. The second is a comb for general scalp treatment and to promote the growth of hair. The third is for the throat. The fourth is for spinal applications, and the last is used on corns and warts. A detailed instruction and treatment book is included. The complete outfit is contained in an attractive silk lined leatherette carrying case. For any 110-120 volt current. Shipping weight, 5 pounds.

GR6076—List, \$18.00. Net Price, each... **\$13.25**



Beauty Shop Violet Ray

A better than average medium priced high frequency Violet Ray outfit that has a wide appeal. Well made by one of the largest manufacturers of quality electrical appliances in the world. Has a wide current circulation, permitting the operator to change the strength of the electrical charge at will. The polished handle is highly insulated and assures safety at all times. Complete with one large surface electrode, long cord with two-piece plug, and easy to read instruction and treatment book. All standard electrodes fit this model. Neatly packed in a handsome, good quality carrying case, divided into compartments to protect against breakage. Shipping weight, 5 pounds. For any 110-120 volt current.

GR6078—List Price, \$12.00. Net, each... **\$8.50**

Gold-Seal Heating Pad

This pad combines quality with attractiveness. The pad itself is covered with tan colored soft virgin wool that will not irritate the skin. A 3-heat switch and washable slip cover are added features. 9-foot silk heater cord and 2-piece plug are included. For any 110-120 volt current.

GR6079—List, \$5.50. Net, each... **\$3.95**





**Quick
Clean
Heat**

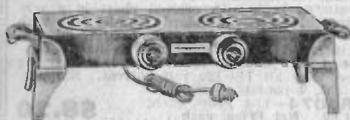
**6R7379
List \$4.00**

**\$3.10
NET
EACH**

The Handy

The oval shaped bowl of this heater permits the heat rays to cross one another and to form an intense, even warmth. No hot or cold spots. Just an even glow of heat, reaching a wide area. Extra heavy gauge 12 1/2 in. bowl, highly polished and lacquered. Attractive cast iron base with beautiful 4-coat, anti-rust, verd-nite mottled green color. A permanent and washable finish. Handle permits easy moving of heater without danger of burning hands. Special hinge joint makes it adjustable to any angle. Overall height 17 inches. Complete with 7-foot cord. Removable element and guard. For any 105-120 Volt current. Shp. wt., 10 lbs.

**6R7379—List, \$4.00.
Net, Each,..... \$3.10**



Twin Hot Plates

A general utility hot plate. Frame, 8 1/2 x 18 inches of "Armed" iron finished in blue-black and white vitreous enamel and wired steel. Legs are beautifully nickel-plated. Nichrome IV or Cheenow "A" elements mounted in 2 in. Liberty special refractory bases. Controlled by two 3 heat rotary switches. For all AC or DC 110-120 volt current. Shp. wt., 12 lbs.

**6R6997—List, \$8.45.
Net, Each..... \$6.28**

Sales help: Display cards, booklets, folders and other advertising material will be furnished gratis on request.



**The Leader
Retail \$3.50**

**\$2.27
Net
Each**

Has 10-inch bowl with highly polished copper plated reflector. Stand and base neatly enamelled. Heavy, durable round element that assures intense heat. Adjustable to any angle. Good, strong guard. 6-foot cord and plug. Shipping wt., 8 lbs. For any 105-120 volt current.
**6R8957—List, \$3.50.
Net, Each..... \$2.27**

Net, Each

**Electric
Corn Popper**

Our low price on this Electric Corn Popper makes it a profitable item to handle. Everyone likes Popcorn. What was formerly a difficult task has changed to a real pleasure. Makes delicious, crisp, fluffy corn. Pops quickly and cleanly as well as economically. 19 inches high. Genuine Nichrome heating element mounted in porcelain plate. For all 105-120 volt current. Shp. wt., 3 lbs.
**6R6973—List, \$2.50.
Net, Each..... \$1.73**



Improved Double Duty Stove



The only stove with a double capacity element. The left hand element is of 10 amperes, double the capacity of ordinary elements. Right hand element, five amperes. Has a four-point switch. First point operates left hand element at 10 amperes. Second point operates both elements at 5 amperes. Third point operates right hand element at five amperes. Fourth—All off. Dimensions: 18 in. long, 9 in. wide, 5 1/2 in. high. For any 105-120 volt current. Shp. wt., 10 lbs.
**6R6974—List, \$6.50.
Net, Each..... \$4.48**

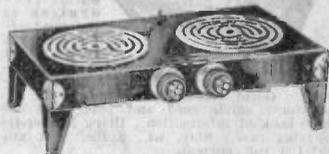
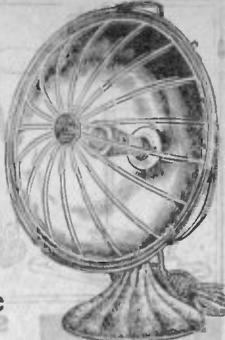
**Compact
Hot!
Easy to
Move
About**

**6R7378
List, \$6.50.**

**\$5.15
NET
EACH**

**Electric
Heater**

This handsomely designed heater has a solid copper reflector, highly polished, which throws an unusually large amount of heat. The easily detached guard is also of copper, making it easy to clean the reflector. The cone shaped element is easily removed or replaced, screwing in like an electric bulb. Diameter of bowl 14 inches, height 17 inches. Equipped with 6 foot cord and two piece plug. For any 105 to 120 volt current.
6R7378—List, \$6.50. Net..... \$5.15



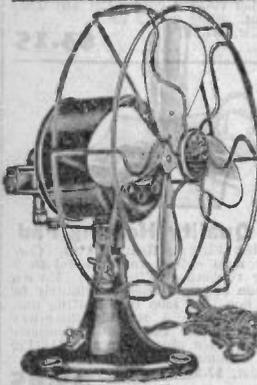
**Electric Table Stoves,
Fine for Light Cooking**

This electric stove is made in three sizes, one, two and three burner. Constructed of sheet steel finished in black enamel, nickel trimmed. Will stand years of hard service. Has a one-hand indicating rotary switch at each burner and draws 5 Amperes. For any 105-120 volt current. Cord with two-piece plug.

**6R7383—One Burner, size 9 1/2 x 15 1/2 inches.
List, \$2.80. Net..... \$1.98**
**6R7384—Two Burner, size 9 1/2 x 18 1/2 inches.
List, \$4.50. Net..... \$3.87**
**6R7385—Three Burner, size 9 1/2 x 21 1/2 inches.
List, \$8.00. Net..... \$6.15**

Electric Fans

A nationally well known fan, well advertised, easy to sell. Its country-wide reputation makes it the most popular medium priced fan on the market today. At our low prices, the two fans listed below are attractive values that you can sell the whole year round. Fans are as much of a necessity in cold weather as in summer. Good ventilation means good health. Sell your customers on the economical idea of fan for every room. These fans are positively non-creaking, and quiet running. Finished in lustrous black enamel. Fully guaranteed for one year. Have self-aligning bearings, and wivel joint. Complete with 8 ft. cord and 2-piece plug. Shp. wt. about 12 lbs.



**6R7365
Stationary Model
9 inch blades.
On and off switch
110 volt AC or DC
List, \$5.20
Lots of 6, \$4.54 each**

**6R7366
Oscillating
2-speed switch.
10-inch blades.
110 volt AC or DC
List, \$10.00.
Lots of 6, \$7.35 each**

**\$4.30
Net
Each**

**\$7.45
Each
Net**

Electric Waterless Cooker



One of the most convenient, efficient and economical electrical appliances made. You can bake, cook, roast, or steam separate foods or a whole meal at the same time in this remarkable utensil. What is more you can do any of these things in less time, with less trouble, and better than any other way. Saves time, fuel, and prepares better meals. Saves all the rich salts of the different foods. Made of heavy gauge, pure aluminum. Has perforated pan for vegetables, and supporting rack to hold roasts, fowls, etc. Has a warning whistle to warn operator to lower heat. The cover fits in a groove, making a water-tight seal so no vapors can escape. Rotary snap switch for adjusting heat to low, medium, or high. Nothing new to learn in cooking, simple to operate. Pitted with genuine Nichrome heating element. Works on all 110-125 AC or DC current. Shp. wt. about 12 lbs.
6R6992—List, \$10.50. Net, Each..... \$7.28

ELECTRIC

Ventilating Fans



The Electric Portable Ventilating Fan is quickly and easily installed in any window. It is adjustable to varying widths. A great health producer at a moderate price. Changes the air every four minutes in the average hot kitchen, stuffy living room, smoky den, or oppressive bedroom. Very economical to operate. Costs four cents for twenty-four hours' service. The attractive panel is made of 22-gauge steel and will not warp. Glass panel may be obtained at a small additional cost.

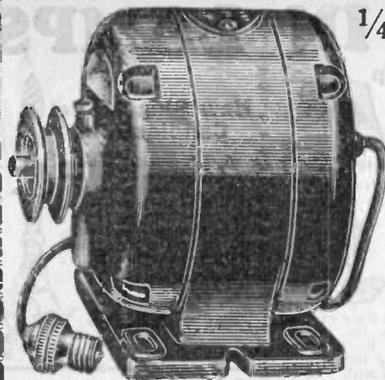
Equipped With Universal Motor

This ventilator is equipped with a powerful Universal motor. Full size 8-inch suction blades. Complete with 12-foot cord and convenient switch. Made in two sizes. For any 105-120 volt current. Shp. wt., 18 and 20 lbs.

No.	Width of Window	List	Each
6R6978	10 to 27 1/2 in.	\$12.00	\$9.10
6R6979	27 1/2 to 30 in.	12.00	9.10

No.	Width of Window	List	Each
6R6983	19 to 27 1/2 in.	\$14.50	\$10.25
6R6984	27 1/2 to 30 in.	14.50	10.25

1/4 H. P. PIONEER UTILITY MOTOR



A model suited for every current. Here is an exceptional bargain in a motor suitable for washing machines, ironers, grinders, lathe, buffers, saws, farm machinery and all general uses where a 1/4-HP motor is required. Nothing on the market to equal them for real quality.

A powerful, smooth, cool-running motor. AC motors are single phase, clutchless, split-phase type. DC motors are compound wound. Speed 1750 RPM except 25 cycle AC, which is 1450 RPM. Will carry 50% overload for a time without injury. Run in either direction. Shaft diam. 3/8 inch.

NOTE ALL THESE FEATURES

1. Entirely enclosed—only openings are the ventilator holes.
2. Splash proof—ordinary splashes cannot injure motor.
3. Special oiling system—reservoir holds enough for one year's ordinary use.
4. Dunting bronze—highest grade bearings.

5. Heavy 3/4-inch steel shaft, 5/8-inch bearings.

6. 2-inch grooved pulley for 3/4-in. round belt. We will equip with 2 1/2-in. diam. pulley for 1-in. flat belt at no extra expense if so specified.

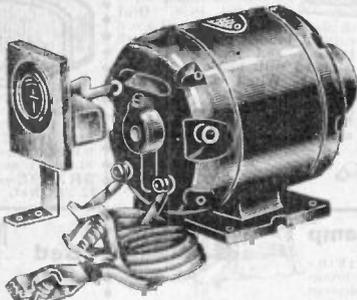
7. 10-foot waterproof cord, finest construction, with steel clad attaching plug.

PRICE LIST

9R11032—1/4-HP Motor for 105-115 Volt 60 Cycle AC.	Price	\$8.90
9R11033—1/4-HP Motor for 105-115 Volts 25 and 30 Cycles AC.	Price	\$16.85
9R11034—1/4-HP Motor, 110-V. DC.	Price	\$16.85
9R11035—1/4-HP Motor for 22-V. DC.	Price	\$11.85
9R11036—1/4-HP Motor for 220-V. 60 Cycle AC.	Price.	\$14.45
Shipping weight, 35 to 40 lbs.		

Battery Charging and Lighting Generator

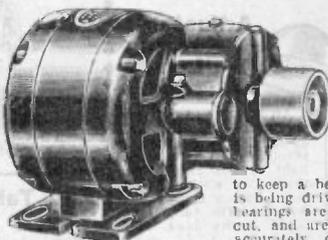
For charging batteries, lighting lamps, and running motors. Delivers 32 volts, 7 am p.s. at 2500 RPM. Will charge 1 32-volt battery, or 1 to 5 45-volt batteries in series. Can be connected direct to 32-volt lighting circuit to supply current for 10 25-watt lamps.



Bronze bearings. Complete directions and wiring diagram. 2-in. grooved pulley for 3/4-in. round belt, or 2-in. flat no. 1-in. flat belt. Stale pulley wanted. Wt., 35 lbs.

9R11037—With meter, cut-out, batt. wire and clips. Net.	\$19.25
9R11038—Generator only, no meter, cut-out or batt. wire. Net.	\$16.50
9R11026—Same as 11037, but 10-V., 20 amp. at 1800 RPM. Net.	\$21.95
9R11049—Generator only 6-V., 20 amps. at 1800 RPM. Net.	\$19.60

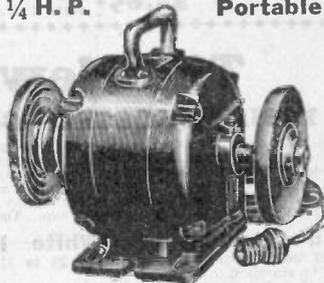
Geared Down Motor



This is our standard 1/4-HP 1750 RPM Motor with gears built into one end, which reduce the speed to 250 RPM. It is invaluable for driving slow-moving equipment, as it removes the necessity of using a large diameter pulley on the machine to be driven. This will be appreciated by anyone who has tried to keep a belt on a large pulley which is being driven from a small one. The bearings are phosphor bronze throughout, and are well oiled. The gears are accurately cut, the large one being made of cast iron and the small one of steel. This motor is provided with a flat belt pulley 2-in. diam. by 2-in. face. Shipping weight, 35 lbs.

9R11116—110-volt, 60 cycle.	\$17.65
9R11117—220-V. DC.	\$22.10

1/4 H. P. Portable Buffer-Grinder

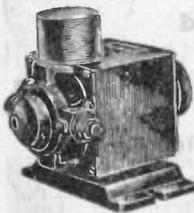


Has 6-in. buffer on one end and 6-in. grinding wheel on the other. For grinding garden tools, fine tools, lathe bits, and other tools and utensils. For superior to belt-driven types. Easy to move. Ideal for mechanic, motor repair shops, service stations, etc. Dependable, smooth-running motor. Shaft is made of cast iron and 3/4-in. diameter from inside of bearings to wheels. This adds rigidity and provides greater bearing surface. 10-foot cord and wheel and cotton buffer

2-piece extension plug. 8-in. wire brush included.

9R11028—For 110-Volt 60 Cycle AC.	Each, Net.	\$14.95
9R11029—For 110-Volt 25 Cycle AC.	} Net.	\$19.45
9R11030—For 32-Volt DC Current.		
9R11031—For 220-Volt 60 Cycle AC Current.	Each, Net.	\$16.45

DC Charging and Lighting Generator



Charges auto or radio batteries or small lighting systems. For garages, fleet owners, farmers, laundries, etc. Charges any 6-volt starting or lighting battery without adjustment or regulation. Base for attaching to flat surface. 8 in. high; 7 1/2 in. wide; 8 1/2 in. long. Delivers 8 volts, 8 amps. at about 2250 RPM. Automatic cut-out for disconnecting battery if power goes off. Choice of 2-in. flat pulley for 1-in. flat belt or 2-in. grooved pulley for 3/4-in. round belt. Full instructions and wiring diagram. Specify pulley wanted. Shipping weight, 25 lbs.

9R11045—Each.	\$10.80
---------------	----------------

Fractional H. P. Motors



Developed to meet the demand for small, dependable motors for driving light machinery and other devices. Ideal for dentists. Runs smoothly and is exceptionally speedy. For use on 60 cycle, 110 volt current. Shipping weight, 10 lbs.

9R11047—1/40 HP Universal, 3 Speed.	List.	\$5.95
9R11048—1/10 HP Universal, 1 Speed.	List.	\$5.60

Portable Power Stand

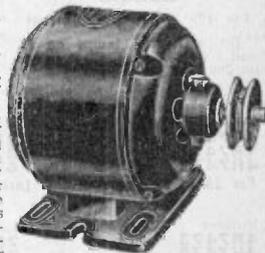
Consists of Pioneer Utility 1/4-HP motor on a sturdy motor tripod with a reduction gear. Gives tremendous pulling power. Starts heavy loads that small motors cannot handle. Makes numerous speed combinations.

Motor has 2-in. diam. pulley for 2-in. flat belt on one end and with speed of 1750 RPM. Opposite pulley geared down to speed of 250 RPM, with 4-in. and 2-in. diam. flat-faced pulleys for 2-in. flat belt. Height 27 inches. 15-foot cord and plug. Actual weight, 55 lbs. Ship. wt. 84 lbs.

9R11040—110-V., 60 cycle AC.	List.	\$26.95
9R11041—For 32-V. DC.	List.	\$45.00
9R11042—For 110-V. DC.	Your Net	\$26.95

Repulsion-Induction Motors

For use when a heavy starting torque is required. For running cream separators, water pumps, etc., which are hard to start. Sturdily built of the best materials. Direction of rotation can be changed from outside of motor. Has 10-ft. cord and plug. Pulley 2 1/4-in. diam. for round belt, or 2 1/2-in. diam. pulley for flat belt. Be sure to state which type of pulley is wanted. The shaft is 3/4-in. diameter between bearings and 5/8-in. diameter in bearings. Fine, heavy duty motors, very simple in operation, and unusually well constructed throughout. Shipping weight, 40 lbs.



9R11129—110-Volt 60 Cycle AC.	List.	\$15.65
9R11131—220-Volt 60 Cycle AC.	List.	\$17.20

All Prices Quoted Are Net—There Are No Further Discounts

SPECIAL VALUES IN LAMPS



One Light Table Lamp

Extra large size. Finished in gold, blue and red polychrome. Shade is orange mull over orange mull lining, 10 inches high, trimmed with fancy one-inch ruching and spray of flowers. Height, 25 in. Wired complete with key socket, 6 foot cord and two piece plug. Ship. wt., 5 lbs. A big seller at our price. **5R7928** List, \$7.00. Net, Each... **\$3.85**

Desk and Floor Types



Adjustable Reading Lamps

An ideal lamp for home or office. Its adjustable 12 inch arm makes it possible to throw the light at any angle when reading or working. Both styles have a large 7 inch reflector. The table lamp is 15 inches high. The floor lamp is 51 inches high with a heavy cast base so that it is not easy to tip over.

Finished in attractive Pompeian (greenish) bronze. **5R7936**—Table lamp. Retail price, \$3.00. Net, each... **\$1.78**
5R7937—Floor lamp. Retail price, \$7.50. Net, each... **\$4.85**

All Glass Boudoir Lamp

Glass base of orange color with 5-inch crystal glass shade decorated with wooded design in glowing colors. Height, 11 inches. A very pretty lamp. Wired complete with push socket. Cord and two piece plug. **5R7926**—List, \$2.00. Net, each... **\$1.54**

Peacock Lamp



The biggest lamp value on the market. Imported black pottery vase, 26 3/4 inches high, decorated with green and gold Peacock design. Mounted on a 5 inch cast base. Oval shade, 9 1/2 inches. Hand painted beaded parchment with Peacock and rose design, trimmed with black and yellow ruching. Wired complete with two-chain sockets, 6 foot cord. **5R7929**—List, \$22.50. Net, each... **\$12.75**

End Table Lamp

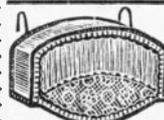
New! A most striking design! Ivory polychrome octagonal base. Iridescent glass shade 10 inches wide in beautiful landscape design. Height, 15 1/2 inches. Wired complete with key socket, 6-foot cord and two-piece plug. **5R7931**—List, \$5.00. Net, each... **\$3.25**



New Ship Model Candlesticks

A tall, graceful candlestick of an entirely new design, a very realistic replica of the old Spanish Galleon. Candle is drip style. Complete with bulb, wiring and 2-piece plug. Height—in. Ship. wt., 2 lbs.

5R7870—Bronze. List, \$4.50. Net, Each... **\$2.68**



Bed Lamp

Made of lavender georgette with old-rose satin lining. Trimmed with fancy braid and paneled with lace. Wired complete with turn button socket, cord and plug. Shipping weight, 2 lbs. **5R7938**—List, \$2.50. Net, each... **\$2.48**

Bed Lamp



Beaded parchment with bird and rose design, in green and red decoration. 10 inches long, fitted with socket cord and two-piece plug. **5R7940**—List, \$5.00. Net, each... **\$2.75**

The New Type Bulbs

INSIDE FROSTED—General Electric Co. Licensed

Inside frosted lamps represent the latest development in incandescent lamp manufacture. They have replaced the old style clear glass lamps and are much superior in many respects. They are frosted on the inside of the bulb and therefore do not gather dirt. They diffuse the light, are much more attractive and easier on the eyes. They are stronger and the breakage will be appreciably less. The pearl gray bulb is attractive and pleasing in appearance. Mr. Dealer—this is the newest type bulb and with only five sizes you have a full stock of lamps. You can merchandise this line at a real profit.

Flame Tinted (Golden)

For Any 105-120 Volt Current
Inside frosted. 120 to standard package.

Number	Watts	Retail		Std. Pkg.	
		Price	Each	Each	Each
4R7464	15	35c	27c	26c	
4R7465	25	25c	19c	18c	
4R7478	40	25c	19c	18c	
4R7466	50	37c	29c	28c	

(Can be assorted for standard package price.)

White—Inside Frosted

For 28 to 32 Volts—Farm Lighting
Systems—120 to standard package.

Number	Watts	Retail		Std. Pkg.	
		Price	Each	Each	Each
4R7456	15	30c	23c	22c	
4R7457	25	25c	19c	18c	
4R7458	50	27c	20c	19c	

(Can be assorted for standard package price.)

White—Inside Frosted

For Any 105-120 Volt Current
120 to standard package.

Number	Watts	Retail		Std. Pkg.	
		Price	Each	Each	Each
4R7459	15	30c	23c	22c	
4R7460	25	20c	15c	14c	
4R7461	40	20c	15c	14c	
4R7462	50	22c	17c	15 1/2c	
4R7463	60	22c	17c	15 1/2c	

(Can be assorted for standard package price.)

Type C Nitrogen Lamps

For 105 to 120 Volt Current
Inside frosted lamps on 75 and 100 watt sizes. Clear lamps on 200 watt size.



Number	Watts	Std. Pkg.		List	Each	Std. Pkg.
		Price	Each			
4R7470	75	60	35c	27c	26c	
4R7471	100	24	35c	27c	26c	
4R7472	200	24	60c	29c	28c	

For 28 to 32 Volt Current. Inside Frosted Bulbs.

Number	Watts	Std. Pkg.		List	Each	Std. Pkg.
		Price	Each			
4R7473	50	60	27c	20c	19c	
4R7475	100	24	40c	29c	28c	

For 105 to 115 Volt Current. Blue Bulbs

Number	Watts	Std. Pkg.		List	Each	Std. Pkg.
		Price	Each			
4R7476	60	120	38c	29c	28c	
4R7477	100	60	60c	46c	45c	

Mill Type Bulbs

Very rugged. Recommended for use where lamps are subjected to vibration. For 105 to 120-volt current. Clear bulbs. 50-watt. **4R7479**—List, 25c. Net each... **18 1/2c**
Std. pkg. lots of 120... **17 1/2c**
Each... **17 1/2c**



Lite-O-Nite

Consumes practically no current. For use in bedrooms, halls, sick rooms, nurseries, signs, signal lights, exits, etc. 8 1/2 watts. For 110-130-volt. **4R6877**—Clear. Net, each... **19c**
4R6878—Frosted. Net, each... **21c**



Tungsten Frosted Candle Lamp

For candle type lighting fixtures and wall brackets. Standard Edison base. 105 to 120 volts. **4R7468**—Flametint, Golden Glow Frosted. List, 40c. Net... **31c**

Swivelite Reflectors Perfect Light Control for Display Windows



Good lighting sells merchandise, and SWIVELITE spots the center of attraction in the show window, focusing the passer-by's attention. Finished in a mottled green barrel with frame of statuary bronze. Comes complete with color screens; Amber, Red, Blue and Green. Adjustable and equipped to be inserted in standard light socket. No special fittings needed. Will take 100 or 150 watt Nitrogen bulbs. No bulbs included. **4R6883**—Net Cost. **\$4.00**
Each... **\$4.00**
Lots of 3... **\$3.90**



Arrow Devices Surface Snap Switch

Positive action. Quick make and break. Gives long reliable service.

- 4R7060—S. P. Non Indicating. Each, 21c 100 lots \$19.00
 4R7061—S. P. Indicating. Each, 24c 100 lots \$21.75
 4R7062—3 Way Indicating. Each, 43c 100 lots \$39.45



Toggle Surface Switch

A flip up or down turns current on and off. Smooth positive action.

- 4R7646—Indicating. Each, 22c 100 lots \$20.89
 4R7647—3 Way. Each, 46c 100 lots \$42.95



Standard Snap Switch

Sturdy construction. Genuine bronze contacts and driving springs. Porcelain bases.

- 4R7035—S. P. Non-Indicating. Each 18c Per 100
 4R7036—S. P. Indicating. Each 21c Per 100
 4R7037—3 Way Non-Indicating. Each 36c Per 100



Pull Snap Switches

- 4R6215—S. P. Wall type. Each, 90c 10 lots \$8c
 4R6216—S. P. Ceiling type. Each, 90c 10 lots \$8c

Levolier Conduit Box and Fixture Switch



For 1/2 inch knockouts in outlet box. Supplied with one thumb nut for conduit box and one for fixture canopy.

- 4R7303—Each, 46c 10 lots \$4c

Levolier Twilight Switch

The newest and only device of its kind. A multiple series switch, shallow canopy, etc. 1 turn bright, 2 turns dim, 3 turns out. 5 1/2 inch long.



- 4R7304—Each, 54c 10 lots \$4c

Levolier Link Switch



This Levolier Link Switch is used between two links of chain on lighting units. Easy to install. No extra wiring. A new item that fills a genuine want.

- 4R7529—Each, 46c 10 lots \$4c



Switch

With ratchet turn button. Insulation carried 1/4 inch into switch body.

- 4R6212—1 1/4-inch Stem. Each 10 lots 21c 20c
 4R6213—1 1/4-inch Stem. Each 10 lots 21c 20c

Pull Type Canopy Switch



Equipped with 3/4-inch stem. Short chain, 6-foot cord.

- 4R6214—Each, 49c 10 lots \$4c

Feed-Thru Toggle Switch



A very rugged toggle switch made of finest composition material. Has positive working switch mechanism. Shug. wt. 6 oz.

- 4R7440
 List price, 50c. Special net price, 30c.

Brass Shell Pull Switch Bodies



4R6217—Bottom Outlet, to hang from end of cord. Each, 46c 100 lots \$44.95
 4R6218—Side Outlet, cord hanger from switch.



- Each, 46c 100 lots \$44.95

Arrow Push Switches



Extra shallow type.
 4R6225—Single Pole. Each, 22c 100 lots \$20.75
 4R6226—3-Way. Each, 32c 100 lots \$29.00

Arrow Toggle Switches



4R6230—Single Pole. Each, 22c 100 lots \$20.75
 4R6231—Double Pole. Each, 66c 100 lots \$63.00
 4R6232—3-Way. Each, 32c 100 lots \$29.00

Standard Push Switch



Porcelain flush switch. We absolutely guarantee to give perfect satisfaction. A product of high grade quality.

- 4R7445—Single Pole. Each, 17c 100 lots \$15.20
 4R7446—Three Way. Each, 27c 100 lots \$24.00
 4R7447—Double Pole. Each, 27c 100 lots \$24.00
 4R7448—Four way. Each, 92c

Standard Toggle Switch



- 4R7449—Single Pole. Each, 17c 100 lots \$15.20
 4R7450—Double Pole. Each, 27c 100 lots \$24.00
 4R7451—Three way. Each, 27c 100 lots \$24.00

Knife Switches



Our knife switches are all N. E. C. with high jaws and clean slate base.

- | Fused, ea. | Not fused |
|----------------------|----------------------|
| 4R7626—2P-30A \$0.69 | 4R7632—2P-30A \$0.49 |
| 4R7627—2P-60A 1.28 | 4R7633—2P-60A .89 |
| 4R7628—2P-100A 2.65 | 4R7634—2P-100A 1.87 |
| 4R7629—3P-30A 1.10 | 4R7635—3P-30A .98 |
| 4R7630—3P-60A 1.88 | 4R7636—3P-60A 1.35 |
| 4R7631—3P-100A 3.89 | 4R7637—3P-100A 3.00 |

Feed Thru Switch



Permits convenient control of electrical appliances. Black moulded composition with knurled tumbler indicating thumb button.

- 4R6268—Each, 28c 10 Lots \$26c

Combination Pendant Switch and Current Tap



Attaches to three wire drop cord. Has outlet in base for standard attaching plug cap. Controls light and provides outlet for extra appliance.

- 4R6269—Each, 59c 10 Lots \$7c

Beaver Pendant Switch



Handy and useful for same fixtures. Shug. wt. 6 lbs.

- 4R6252—Brass shell. List, 50c. Net, 31c 10 Lots \$29c
 4R6253—Porcelain shell. List, 50c. Net, 31c 10 Lots \$29c

Vapor Proof Receptacle

For use in damp places. Prices are for complete receptacle.

- 4R7051—With Pendant Pull. Each, 80c
 4R7052—With 3/4-inch thread top. Each, \$1.01
 4R7053—With 1/2-inch Outlet box fitting. Each, \$1.08
 4R7054—With 4-inch Outlet box fitting. Each, \$1.13
 4R7055—Wire protection guard extra. Each, 41c

Switch and Receptacle Plates

Switch and receptacle plates furnished in two finishes; Old gauge, everlasting, non-tarnishing brass; and mahogany color sand blast effect bakelite. Screws to match furnished with plates. 100 gauges can be assorted for quantity price.

Push Switch Plates

- | No. | Ggs. | Fin. | Net 100 Lots |
|--------|------|------|----------------|
| 4R7038 | 1 | B.B. | 6 1/2c \$ 6.08 |
| 4R7039 | 2 | B.B. | 13c 12.21 |
| 4R7612 | 1 | Bak. | 9 1/2c 7.36 |
| 4R7613 | 2 | Bak. | 19c 14.70 |

Toggle Switch Plates

- | No. | Ggs. | Fin. | Net 100 Lots |
|--------|------|------|--------------|
| 4R7047 | 1 | B.B. | 7c \$ 6.08 |
| 4R7048 | 2 | B.B. | 13c 12.21 |
| 4R7614 | 1 | Bak. | 9 1/2c 7.36 |
| 4R7615 | 2 | Bak. | 19c 14.70 |

No Door Receptacle Plate

- | No. | Ggs. | Fin. | Net 100 Lots |
|--------|------|------|----------------|
| 4R7015 | 1 | B.B. | 6 1/2c \$ 6.08 |
| 4R7656 | 1 | Bak. | 9 1/2c 7.36 |

Duplex Receptacle Plate

- | No. | Ggs. | Fin. | Net 100 Lots |
|--------|------|------|----------------|
| 4R7449 | 1 | B.B. | 7 1/2c \$ 6.47 |
| 4R7617 | 1 | Bak. | 9 1/2c 7.36 |
| 4R7618 | 2 | Bak. | 19c 14.70 |

Flush Receptacle

Take either parallel or tandem blades.

- 4R7057—Each, 13c 10 Lots \$12c

Duplex Receptacle

Take either parallel or tandem blades.

- 4R7452—Each, 16c 10 Lots \$15c

Flush Receptacle

New pony convenience outlet double standard one piece contacts and binding posts. Side wired.

- 4R6250—Each, \$ 0.14 100 Lots \$12.98

Pony convenience outlet side wired one piece. Contacts and binding posts.

- 4R6261—Each, 20c 100 Lots \$18.98

Bull's Eye Receptacle

This receptacle acts as a warning device indicating that the circuit is closed.

- 4R6236—Receptacle with 2 C.P. 125 volt lamp. Each, 82c 10 Lots \$8c
 4R6237—Complete with plate Bull's Eye and lamp. Each, 98c 10 Lots \$9c
 4R6238—Extra Lamp Each, 32c 10 Lots \$3c
 4R6239—Extra Lamp and door receptacle plate. Each, 25c 10 Lots \$23c

Low Lite Socket

Gives five different degrees of light. Ideal for bedrooms, halls, etc. Satin brass finish. For all 110-220 volts current. Shug. wt. 13 oz.

- 4R6879—Net, Each, 59c 10 Lots, Each, 57c

Flashers

Suitable for signs, show windows and where off and on action is wanted. Fit Edison base socket. Shug. wt. 8 oz.

- 4R6880—50 Watt, Each, 50c

Hersh Duplex Signal

A superior grade 21/22 bell and buzzer combined in a totally closed unit. It combines bell for front door and buzzer for back door. Dust and bug proof—cuts installation costs and sure to please your customers. Costs less than inferior bells and buzzers.



4R6884—Each 75c
10 lots 65c

RAWLPLUGS

Fibre Screw Anchors

HOLD SCREWS FAST

No.	Screw Size	Length in.	Net ea.	C. Lots
3R6851	8-9	1 in.	2a.	\$1.35
3R6852	10-11	1 in.	2c	1.54
3R6853	12-13	1 in.	2c	1.84
3R6854	12-13	1 1/2 in.	2 1/2	2.21
3R6855	14-15	1 1/2 in.	3c	2.62
3R6856	16-17	1 1/2 in.	3 1/2	3.07

Portable Reflector Guard



Takes 50-watt or smaller lamps. Strong heavy frame, nickel plated. Reflector keeps light out of eyes. Thumb switch switches current on or off conveniently.

4R7498—Each \$1.47
Ten lots. Each \$1.39

Portable Lamp Guard



Made of heavy steel coppered wire. Very rugged and substantial. Takes 50-watt or smaller lamps.

4R7499—Each 87c
Ten lots. Each 85c

Loxon Lamp Guards

Prevents stolen lamps as well as prevents breakage. One key included with each dozen lamps.

4R7500—Fits brass socket. Takes lamps up to 60-watt. Each, 19 1/2c. Dozen \$2.16
4R7501—Fits brass socket. Takes lamps up to 100-watt. Each, 25c. Dozen \$2.26
4R7502—Fits weatherproof socket. Takes lamps up to 60-watt. Each, 20c. Dozen \$2.16
4R7503—Fits weatherproof socket. Takes lamps up to 100-watt. Each, 25c. Dozen \$2.26
4R7504—Extra key. Each, 5c. Dozen 40c

Protector "O" Lamp Guards

With open bottom. Takes 60-watt and smaller lamps.

4R7505—Fits regular sockets. Each, 17c. Dozen \$1.77
4R7506—For W. P. sockets. Each, 17c. Dozen \$1.77

Porcelain Steel Reflectors

Shallow Type
Best quality flat type reflector for Nitrogen Type "C" lamps. Green or blue porcelain enamel outside and non-discoloring white porcelain enamel inside. Sixteen-inch has 3/4-inch holder; other sizes, 2 1/2-inch.

Article	Diam.	List	Each	Ten Lots
4R7480	10	\$0.95	\$0.55	\$5.4
4R7481	12	1.15	.65	6.4
4R7482	14	1.50	.90	.88
4R7483	16	1.90	1.21	1.17

Porcelain Steel Reflector

R. L. M. Standard
Dome type. Most efficient. Green or blue porcelain enamel outside and non-discoloring white porcelain enamel inside.

All have 2 1/2-inch holders.

Number	Watt	Diam. In.	Each	10 lots
4R7494	50	12 4/8	\$1.23	\$1.13
4R7495	75	12 5/8	1.52	1.39
4R7496	100	14 8/8	1.82	1.39
4R7453	200	16 7/8	2.21	1.74

Automatic Time Switches

"Reliance" and "Racine" Time Switches equipped with 8-day time clocks, throwing circuit on or off. Double or single pole. "Reliance" open face for indoor, solid front door for outdoor. "Racine" only with solid door for in or outdoor use. Approved by Underwriters.



250 Volts or Less, AC or DC
Reliance Switches

No.	Capacity	Style	List	Each
4R6866	10	Indoor	\$28.00	\$21.95
4R6867	10	Outdoor	28.00	21.95
4R6868	20	Indoor	30.00	23.52
4R6869	20	Outdoor	30.00	23.52

Racine Switches

No.	Capacity	Style	List	Each
4R6870	10	In-outdoor	19.50	15.28
4R6871	20	In-outdoor	23.00	18.03
4R6872	30	In-outdoor	26.00	20.39



Tork Time Clocks

For controlling lighting in store windows, on electric signs, poster boards, automatic oil burners, etc. AC or DC supplied in many types for any voltage or amperage—operate on and off daily when wound weekly.

Type 115 S. P. 15 amp. 125 Volts, Indoor use.
Type 130 D. P. 30 amp. 250 Volts, Indoor use.

No.	Type	List	Each
4R6873	115	\$20.00	\$13.72
4R6874	130	25.00	17.15

Royal Crystal Fuse Plug

Instantly Known When Blown
Underwriters Approved



The Royal Crystal Fuse represents a real improvement in plugs, made of a specially molded glass, possessing unusual properties of strength and durability. Advanced methods make the plug a single rugged unit. This glass also prevents shocks and enables you to see absolutely if your fuse is blown. 100 to display carton. Shipping weight, 7 pounds.

No. Amps.	Each	Per Hundred	List
4R6857 10	3 1/2 C	Five Hundred	\$2.85
4R6853 15			
4R6859 20			
4R6861 25			
4R6862 30			



Mica Fuse Plugs

A quality fuse plug with clear mica windows. The 10 amp. and 15 amp. size comes with the new Octagon window as required by underwriters.

4R7530—6 Amp.	Each	3c
4R7531—10 Amp.	Per Hundred	\$2.55
4R7532—15 Amp.		
4R7533—20 Amp.		
4R7534—25 Amp.		
4R7535—30 Amp.		

Any assortment.

Cartridge Fuses

Underwriters' Approved Standard
FERRULE ENDS

4R7536—10 amp.	4R7547—35 amp.
4R7537—15 amp.	4R7548—40 amp.
4R7538—20 amp.	4R7549—45 amp.
4R7539—25 amp.	4R7550—50 amp.
4R7540—30 amp.	4R7551—55 amp.
4R7560—60 amp.	4R7560—60 amp.

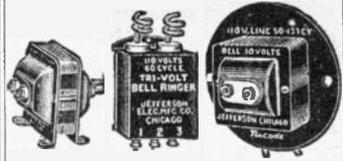
Each 5c
Per 100. \$4.50
Each 9c
Per 100. \$8.00

KNIFE BLADE ENDS

4R7541—65 amp.	4R7561—110 amp.
4R7542—70 amp.	4R7562—125 amp.
4R7543—75 amp.	4R7563—150 amp.
4R7544—80 amp.	4R7564—175 amp.
4R7545—90 amp.	4R7565—200 amp.

Each 27c
Per 100. \$25.40
Each 57c
Per 100. \$54.00

Jefferson Transformers



Best quality transformers. Reliable. Use so little current they hardly register on meter. Underwriters' approved. Flexible A secondary leads. Attach to 100-120-volt AC. Capacity, 25 watts, 60 cycle. For signal work and door openers.

Number	Primary	Secondary	Each	Ten Lots
4R7487	Wizard	10 volts	71c	69c
4R7488	Tri-volt	6-8-12	76c	74c
4R7489	Nu-Code	10 volts	78c	76c



All Brass Push Buttons

Fine quality one-piece brass pushes in a fine satin brass or oxidized copper finish.

Number	Type	Finish	Each	Per 100
4R7490	Round	S.B.	9c	\$ 7.84
4R7491	Round	O.C.	9 1/2c	8.70
4R7492	Card holder	S.B.	19c	17.00
4R7493	Card holder	O.C.	23c	21.00



Standard Iron Box Bells

Standard quality iron box bells. Gives loud clear ringing that can be heard at comparatively great distances.

Number	Style	Inch	Each	Ten Lots
4R7484	Buzzer	2 1/2	28c	27c
4R7485	Door Bell	3	34c	28c
4R7486	Door Bell	3	39c	32c

Flat Head Wood Screws

No.	Net	Per Gross
4R6808—No. 6	1 1/2 in.	19c
4R6809—1 1/2 in.	21c	
4R6810—1 1/2 in.	26c	
4R6811—2 in.	30c	
4R6812—No. 8	1 1/2 in.	21c
4R6813—1 1/2 in.	24c	
4R6814—1 1/2 in.	28c	
4R6817—2 in.	35c	
4R6818—2 1/2 in.	41c	
4R6819—No. 10	1 1/2 in.	31c
4R6821—2 in.	38c	
4R6822—2 1/2 in.	47c	

Round Head Wood Screws

No.	Net	Per Gross
4R6823—No. 6	1 in.	32c
4R6826—1 1/2 in.	39c	
4R6827—2 in.	47c	
4R6828—No. 7	1 in.	36c
4R6829—1 1/2 in.	41c	
4R6831—2 in.	51c	
4R6832—No. 8	1 in.	38c
4R6833—1 1/2 in.	43c	
4R6834—2 in.	53c	

Solid Brass Round Head Machine Screws

Length	No.	6/32	No.	8/32
1/4 in.	4R6835	16c	4R6842	25c
3/8 in.	4R6836	18c	4R6843	28c
1/2 in.	4R6837	20c	4R6844	32c
5/8 in.	4R6838	25c	4R6845	39c
3/4 in.	4R6839	32c	4R6846	45c
7/8 in.	4R6840	41c	4R6847	55c
1 in.	4R6841	52c	4R6848	66c



Trio Tap

A three way pintype cluster with standard Parallell prongs to fit into any flush receptacle.
4R7334—Each 9c
10 lots 8c

Two-Way Plug

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



4R7284—
Each 16c
100 lots \$14.70



Extra Tap

Designed to double the capacity of a single Pintype receptacle made of fine polished composition.
4R7287—Each 12c
100 lots 11c

Triple-Duty Socket

Triple duty socket with extra appliance outlet. Sturdy interior construction; inside of a high test composition polished casing.
4R7285—Each 48c
10 lots 45c



Two Piece Attachment Plug

A sturdy well designed, good quality plug. Brass blades with beveled ends. Ample space for wiring.
4R7283—Each 5 1/2c
100 lots 4 1/2c

Pull Socket Extension

Make a pull socket out of any key or keyless socket.
4R6229—Each 64c



Current Tap

With screw adapter cap the pull chain operates the socket and the current is always live.
4R6248—Each 74c
10 lots 72c



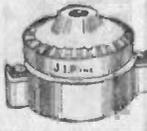
Porcelain Rosette

High grade cenealed Rosette. Snap cap. Easily wired and assembled.
4R7031—Each 9c
Per 100 8c



Cleat Rosette

Easily wired and assembled.
4R7032—Each 9c
100 lots 8c



Trio Tap Connector

A connector to be used in place of ordinary connection when more than one contact is to be made. Fits on cord in same manner as any std. plug cap. A very convenient item. Ship. wt. 6 oz.
4R7288—List, 30c. Net, 15c

Armored Cap

Consists of regular plug cap, aluminum armor, finished in dull nickel. Makes a very sturdy cap.
4R7289—List, 15c.
Net 7c
Lots of ten 6c



Tri-O-Tap Extension



4R7441—6 ft. Each 35c
4R7442—0 ft. Each 40c

Extension Cord Set

Has 6 feet of No. 18 twisted pair lamp cord. Brass shell socket on one end, two piece separable plug on other end.
4R7438—Each 43c

Heater Cord Sets

Equipped with an excellent fit—all iron plug, two piece attachment plug and six foot of fine grade heater cord.
4R7403
Each 28c
10 lots, Each 27c

Armored Plug Cord Set

Same as 4R7403, but protected by plate to prevent breakage.
4R7404—Each, 45c. 10 lots, 43c
Armored plug set with phosphor bronze contacts.
4R7399—Each, 64c. 10 lots, 60c



Switch Plug Heater Cord Set

A real special in the heater cord line. Wired with Underwriter's approved plug, 6 ft. No. 18 heater cord and two piece plug. Put up in a very attractive box for ready sale. Ship. wt. 6 oz.
4R7429—
List, \$1.00.

Net 57c
10 lots 53c
Same set as above except both plugs completely armored.
4R7430—List, \$1.25.
Net 79c

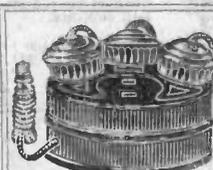


Arrow Outlet Box Porcelain

4R6240—For 3 inch Box 22c
10 lots \$1.04

Outlet Box Receptacle

Fits standard outlet boxes. Have black japan cover, porcelain receptacle with shade holder grooves.
4R6254—3 1/2-inch box, binding post.
Each 15c 10 lots 14c
4R6255—4-inch box, binding post.
Each, 16c. 10 lots 15c
4R6256—3 3/4-inch Postall.
Each, 16c. 10 lots 15c
4R6257—4-inch Postall.
Each, 18c. 10 lots 17c



The Foursome

A very neat appearing outlet for use on table or floor. Four appliances may be plugged in. Comes in six colors: Red, Green, Orange, Mahogany, Black, and Walnut. A new item that promises to be a big seller. Shipping weight, 8 ounces.
4R7431—List, \$2.50.

Beaver Utility Cord Tap

A handy device that can be fastened either to the end of a cord or at any intermediate point of its length, serving as a tap, this way it becomes a convenient outlet. Wood screws supplied.
4R7355—Each, 15c. 10 lots, 14c



Armored Flat Iron Plugs

Attractive brown plug, armored at lower end to prevent chipping and breaking. Nickel plated. Upper end free of metal to remain cool at all times. Contacts are of brass.
4R7351—Net 28c

Phosphor Bronze Contact Plug

Same as above but with heavy phosphor bronze contacts fitted with Swedish seal-end clip to prevent contacts opening too far. Shipping weight, 8 oz.
4R7353—Net 34c



Fitsall Flat Iron Plug

One of the most attractive plugs on the market. Will fit both flat and round terminals. Made of extra heavy reinforced black polished composition which will not chip or break.
4R7432—Net, 9c. 10 lots, 8c

Same plug as above but has special phosphor bronze contacts held together with Swedish steel strap, preventing stretching of terminals. Ship. wt. 6 oz.
4R7434—Net 18c
10 lots 17c

Armored Toggle Switch Plug

Underwriters Inspected. At last! A real high quality switch iron plug at a competitive price. A number of construction which you will not find in other plugs which sell anywhere near this price. Parts assembled under supervision of the underwriters.
4R7367—Net, 44c
Each 42c
10 lots 40c
Same plug but without armor.
4R7368—Net, 25c.
10 lots 21c
C lots \$20.00



Arrow Appliance Plug

Fits all standard makes of irons. Has tumbler switch which permits control without pulling plug out.
4R7306—Each 52c
10 lots 48c

Arrow Adapter Cap

Attached to any socket makes a screw in extension for Edison base socket.
4R7435—List, 27c. Net, 26c



Arrow Socket Adapters

4R7436—Mogul to Med. reducer. Net 22c
4R7437—Med. to Candelabra reducer. Net 8c
4R7439—Candelabra to miniature. Net 5c

Standard Plug Connector

The only really convenient kind of cord connector. Plug receptacle will take any std. plug cap, making it very convenient for interchanging appliances, etc.
4R7454—List, 40c. 30c



Soft Rubber Plug

The latest thing in non-breakable plugs. Made of pure black gum rubber, with brass strips supporting contacts set directly into the rubber. A very good selling item. Useful for everyone.
4R7369—Net 15c
Lots of 10 13c



Beaver Handle Cap Plug

Extremely handy for making connections to inaccessible outlets.
4R7418—Long handle. 15c
List, 25c. Net 14c
Lots of 10 14c
4R7455—Short handle. 15c
List, 28c. Net 15c

American Switches and Meter Fittings

UNDERWRITERS APPROVED. Highest Grade of Materials Used in the Construction of AMERICAN SWITCHES AND METER FITTINGS

AMERICAN ADMITS NO SUPERIOR

Combination Meter Test Type Switches with Branch Circuits, 125 Volts 30 Amperes



Equipped with test blades and one fuse for each branch circuit. Shutter type trim furnished with each switch. Non-Interlock Type Service

fuses accessible at all times. Twistouts on every switch to take trough.

No.	Cir-uits	No. Fuses	No. Poles	Ship. Wt. Lbs.	Net. Each
4R6907	2	2	2	8 1/4	\$2.25
4R6908	2	1	2	8 1/4	2.25
4R6909	2	1	3	8 1/2	2.75
4R6910	2	2	3	21 1/2	2.75
4R6911	4	1	2	13	2.75
4R6912	4	1	3	13	3.25
4R6913	4	1	3	13	3.00

Standardized Meter Test Type Switches 125 Volt 30 Amperes



Equipped with standard meter trims. Various size knockouts provided. Service fuses alive when switch is open. Twistout on both sides for trough.

No.	Poles	Fuses	Ship. Wt. Lbs.	Net. Each
4R6914	2	2 Plug Fuse	7	\$1.65
4R6915	3	2 Plug Fuse	7	1.75
4R6916	2	1 Plug Fuse	7	1.59
4R6917	3	1 Plug Fuse	7 1/4	2.00
4R6918	2	2 Cart Fuse	6	1.75
4R6919	3	2 Cart Fuse	6	2.00

Standardized Meter Test Switch—Positive Make—250 V—Quick Break



Combination series Meter Test Block, and Switch. Slate Base, Type C construction.

Type C Service Switch—Positive Make—250 V—Quick Break

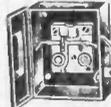


Type C construction. Non-Interlock type. Slate Base. Convenient knockouts on all sides and back. Takes standard cartridge fuses.

— FUSED —				
No.	Amperes	Poles	Ship. Wt. Lbs.	Net. Each
4R6941	30	3	15 lbs.	\$ 2.80
4R6942	60	3	16 lbs.	4.60
4R6943	100	3	35 lbs.	7.80
4R6944	200	3	48 lbs.	14.40
4R6945	400	3	125 lbs.	40.00
4R6946	600	3	150 lbs.	55.00

— SOLID NEUTRAL —				
No.	Amperes	Poles	Ship. Wt. Lbs.	Net. Each
4R6947	30	3	15 lbs.	\$ 2.80
4R6948	60	3	16 lbs.	4.60
4R6949	100	3	35 lbs.	7.80
4R6952	200	3	48 lbs.	14.40
4R6953	400	3	135 lbs.	40.00
4R6954	600	3	150 lbs.	55.00

Service Switches—125 Volts



For use as entrance switch on all small jobs. Equipped for use with standard plug fuses. Knockouts provided on all sides and back for convenience.

No.	Amperes	Poles	Ship. Wt. Lbs.	Net. Each
4R7553	30	2	4 1/2 lbs.	\$1.00
4R7554	30	3	5 1/2 lbs.	1.35

Non-Interlock type. Generally used in installation of Electric Ranges. Knockouts on all sides and back. Takes standard cartridge fuses. Meter trim furnished with each switch.

No.	Amperes	Poles	Ship. Wt. Lbs.	Net. Each
4R6923	60	3	25 lbs.	\$9.00
4R6929	100	3	48 lbs.	12.50
4R6930	200	3	60 lbs.	17.00

Fuse Panels

Takes the place of old style cut-out box. Very convenient to tenant and electrician in changing fuses. No wires exposed. Very durable and neat in appearance.

No.	Sig. Crts.	Dbl. Crts.	Fuse No.	Shpg. Wt. Lbs.	Net. Each
4R7556	2	0	3	3 1/2	\$1.00
4R7557	4	2	7	7	1.50
4R7558	6	3	8	8	2.50
4R7559	8	4	14	14	3.20

Same Arranged for Toggle Switches

No.	Sig. Crts.	Dbl. Crts.	Fuse No.	Shpg. Wt. Lbs.	Net. Each
4R6901	2	0	6	6	\$1.50
4R6902	4	2	12	12	2.50
4R6903	6	3	13	13	4.00
4R6904	8	4	15	15	5.00
4R6905	10	5	22	22	6.00
4R6906	12	6	23	23	7.50

Sectional Loom Boxes

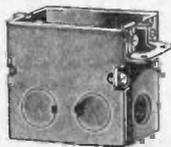


Two popular grades of sectional switch boxes. Easily ganged. None better. Nos. 4R7176 and 4R7164 are rated as the highest grade on the market. No. 4R7174 and 4R7175 Loom boxes while low in price are very popular with the trade and are fully guaranteed.

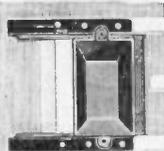
No.	Type	Each	C
4R7174	Light without clamps	6 1/2c	\$6.10
4R7175	Light with loom clamp	7 1/2c	7.15
4R7176	Heavy without clamp	8c	7.50
4R7164	Heavy with loom clamp	9c	8.50

Conduit or BX Box

Well built. Has square ends. 1/2 in. knockouts. For use with rigid iron conduit or BX. Adjustable ears. Sides removable for ganging. Heavy steel. Underwriters' approved.



No.	Type	Each	100 Lots
4R7358	2 1/2 in. deep	9 1/2c	\$8.00
4R7359	2 in. shallow	10 1/2c	9.00



Flush Boxes

With Extended Ears and Lath Supports. All boxes are 3 in. long and 2 in. wide. Gang easily with regular switch boxes. Channel shaped steel lath supports.

No.	Clamps	Each	100 lots
4R7360	Loom, no clamps	13c	\$11.85
4R7361	Loom with clamps	14c	12.95
4R7362	B. X. with clamps	16c	14.85
4R7363	Conduit	15c	14.25

Octagon Outlet Boxes

1 1/2 inches deep. Standard in depth and diam. Easy Knockouts, heavily enameled.



No.	Diam.	Kind	Each	Per 100
4R7154	4 in.	With ears...	7 1/2c	\$6.57
4R7155	3 in.	With ears...	6c	5.25

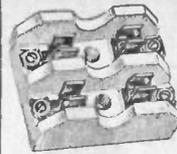
4-In. Square Black Outlet Boxes

1 1/2 inches deep, 1/2-inch knockouts.



No.	Each	Per 100
4R7160	8 1/2c	\$7.60

Fuse Cut-Outs



Cartridge Fuse Cut-outs, Porcelain Bases, Underwriters' Standards

No.	Description	30 Amp. Each	60 Amp. Each
4R7597	Single Pole Main Line	\$0.19	
4R7598	Double Pole Main Line	.27	
4R7600	Triple Pole Main Line	.40	
4R7600	Two Pole Single Branch	.34	
4R7601	Three Pole Single Branch	.62	
4R7602	Two Pole Double Branch	.62	
4R7603	3 to 2 Pole Double Branch	.75	
4R7604	Three Pole Double Branch	1.10	

No.	Description	60 Amp. Each
4R7605	Double Pole Main Line	\$0.67
4R7606	Triple Pole Main Line	.95
4R7607	Two Pole Single Branch	.79
4R7608	Three Pole Single Branch	1.43
4R7609	Two Pole Double Branch	1.82
4R7610	3 to 2 Pole Double Branch	1.98
4R7611	Three Pole Double Branch	2.80

Plug Fuse Cut-Outs



High grade standard makes only. Smooth glazed porcelain blocks with heavy copper fittings.

No.	Description	Each
4R7566	Two pole main line	\$0.12
4R7567	Three pole main line	.19
4R7568	Two pole, single branch	.13
4R7569	Two pole, double branch	.23
4R7570	3 to 2 wire, double branch	.30
Per 100		\$27.93

Plug Fuse Entrance Switch



Glazed porcelain block. Heavy copper parts are used with brass screw shells. Made with reversible blades for top or bottom fusing. 30 ampere.

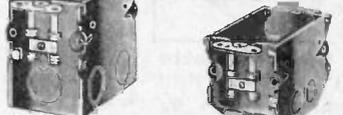
No.	Description	Each
4R7571	2-pole	\$ 0.34
4R7572	3-pole	31.50
Per 100		56.60

Porcelain Base

For plug fuses. If a reversible blades, 20 ampere.

No.	Description	Each
4R7573	Single branch, 2 to 2 wire	\$0.60
10 lots		.55
4R7574	Double branch, 2 to 2 wire	\$1.35
10 lots		1.28
4R7575	Double branch, 3 to 2 wire	\$1.45
10 lots		1.38

Paine Sectional Switch Boxes

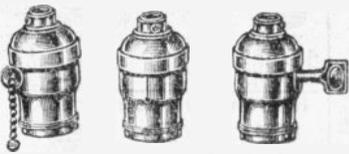


Something entirely new. New patented galvanized clip on ends more easily adjustable than the old type. Easy to gang. No screw adjustments. Just snaps on. A knockout. Can be reinserted in box to the satisfaction of the electrical inspector. Use them and save time.

No.	Description	Each	Per 100
4R6998	Loom box without clamps	9c	
100 lots			\$7.76
4R6999	Loom box with clamps	10c	
100 lots			\$8.89

No.	Description	Each	Per 100
4R7000	Deep	10 1/2c	\$10.10
4R7001	Shallow	10 1/2c	\$10.10

Electrical Sockets and Parts



Association Sockets

Brushed satin brass finish. Complete shell cap and body with 1/2-inch cap.

4R6191—Key	Each 25	100 Lots	100 Lots
4R6192—Keyless	13c	14c	\$12.60
4R6193—Pull Chain	19c	12c	10.74
4R6194—Key	5c	14c	\$12.60
4R6195—Keyless	3c	12c	10.74
4R6196—Pull Chain	9c	18c	16.96

Independent Brass Shell Sockets

The construction of the shell and interchangeable locking arrangement makes the lock absolute and gives great holding surface. Each 2 1/2 Lots

4R7003—1/2 Cap Key Socket	14c	13 1/2c
4R7004—1/2 Cap Keyless Socket	14c	13c
4R7005—1/4 Cap Pull Chain Socket	18c	17c
4R7006—Pendant Cap Key Socket	14c	13 1/2c
4R7007—Pendant Cap Keyless Socket	14c	13c
4R7008—Pendant Cap Pull Chain Socket	18c	17c

Arrow Interchangeable Bodies



4R6200—Key	Each	100 Lots
4R6201—Keyless	11c	\$ 8.68
4R6202—Pull Chain	9c	7.00
	15 1/2c	13.14

Interchangeable Caps Only

4R6197—1/2 Cap	Each	140 Lots
4R6198—Pendant Cap	4 1/2c	\$3.78
4R6199—3/4 Cap	4 1/2c	3.78
	7 1/2c	6.08

Arrow Bases for Brass Shell Socket Bodies



4R6219—Slotted Porcelain Base	Each	10 Lots
	16c	15c
4R6221—Cleat Porcelain Base	Each	10 Lots
	21c	20c
4R6220—Brass Covered Base	4 1/2c	33c
	32c	

Arrow Weatherproof Aluminum Keyless Socket With Cord Grip Cap

4R6246	Each	45c
	10 lots	43c

Arrow Cap with Armored Cord Grip

4R6259	Each	14c
	10 lots	13c

Arrow Grip-Tite Socket Cap

4R6260	Each	14c
	100 lots	\$13.40

Pull Chain Cord Extension

4R6247	Each	8c
	100 lots	\$7.00

Outlet Box Receptacle

Brass covered porcelain base. Pull chain body. Fits 3-3/4-inch outlet box.

4R7028	Each	60c
	10 lots	56c
4R7029	Each	80c
	10 lots	78c

Wall Receptacle

Brass shell wall receptacle, porcelain concealed base.

4R7024	Keyless, Ea.	18c
	10 lots	17c

Brass Shell Receptacle

Key receptacle with porcelain slotted base and side screws. Diameter of base 2 1/4 in.

4R7025	Each	28c
	10 lots	21c

Cleat Base Socket

Porcelain cleat base brass shell pull chain socket.

4R7027	Each	48c
	10 lots	46c

Arrow Weatherproof Keyless Socket

4R6242	3/4-inch Cap	Each 10 Lots
		47c 44c
4R6243	1/2-inch Cap	47c 44c
4R6244	2 1/4-inch Aluminum holder	18c 17c
4R6245	3 1/4-inch Aluminum holder	27c 26c

Arrow Porcelain Socket Bodies and Caps

Make any combination desired with caps listed below.

4R6208	Key Body	Each 10 Lots
		19c 18 1/2c
4R6206	Pull Chain Body	43c 42c
4R6207	Keyless Body	16 1/2c 15 1/2c

Make any combination desired with bodies listed above.

4R6208	Pendant Cap	8c 7c
4R6209	1/2-inch Cap	14 1/2c 13 1/2c

Receptacle

Screw ring Receptacle with covered terminals. For open work or outside wiring.

4R7022	Each	10c
	100 lots	\$9.00

Sign Receptacle

Two piece screw clamp with leads. Standard type.

4R7023	Each	10 1/2c
	10 lots	\$9.85

Interchangeable Porcelain Socket Bodies, Caps and Bases

All bodies are interchangeable. High quality is your assurance of complete satisfaction.

4R7009	Pull Chain Body	Each 10 Lots
		35c 34c
4R7010	Keyless Body	14c 13 1/2c
4R7011	Key Body	16c 14c

Interchangeable Caps for Porcelain Bodies

4R7012	Pendant Cap	Each 10 Lots
		7c 6 1/2c
4R7013	1/2-inch Aluminum	24c 22c
4R7014	3/4-inch Brass Cap	12c 11c
4R7015	3/4-inch Brass Cap	14c 12c

Interchangeable Bases

4R7017	Small Cleat Base	Each 9c
4R7018	Concealed Base	8c
4R7019	4-inch Base	24c
4R7016	3 1/4-inch Base	18c

Arrow Porcelain (Sign) Receptacle



Fit ceiling rings, or box cover.

4R6203	With wire leads, shallow body	Each 10 lots
		18c 17c
4R6297	Screw terminals without leads	Each 100 lots
		\$12.95 14c
4R6204	Pull chain type with 8-inch chains and 6-foot cord	Each
		37c 35c

Porcelain (Sign) Receptacle



Fits ceiling ring or box cover.

4R7020	Slotted base, short back	Each
		9c \$7.35
4R7033	Each	11c
	100 lots	\$9.65

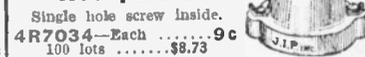
Cleat Receptacle



Porcelain cleat receptacle; two outside screw holes for outside wiring.

4R7034	Each	9c
	100 lots	\$8.73

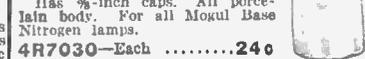
Porcelain Cleat Receptacle



Single hole screw inside.

4R6222	Each	48c
	10 lots	

Mogul Base Socket



Has 3/4-inch caps. All porcelain body. For all Mogul Base Nitrogen lamps.

4R7030	Each	24c
--------	------	-----

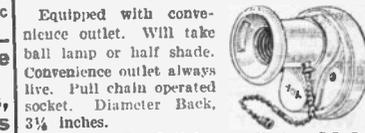
Porcelain Outlet Box Receptacle



With porcelain 2 1/2-inch shade holder. Complete ceiling unit equipped with pull chain socket. Nickel chain and 6 foot cord. Porcelain throughout furnished with fixture strap and screws to fit 3 1/4 or 4 inch outlet boxes.

4R6262	Each	\$1.35
	10 lots	\$1.32

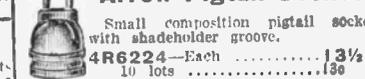
Porcelain Bracket



Equipped with convenience outlet. Will take ball lamp or half shade. Convenience outlet always live. Pull chain operated socket. Diameter Back, 3 1/4 inches.

4R7329	For Ball Lamp, Each	\$0.98
4R7330	With Opal Half Shade, Each	1.27

Arrow Pigtail Socket



Small composition pigtail socket with shadeholder groove.

4R6224	Each	13 1/2c
	100 lots	13c

Freeman Porcelain Pull Chain Receptacle



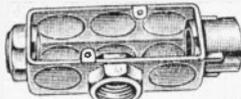
Two piece with long cord. For signs, ceiling lights and outlet box covers. Has long skirted removable rings which insulates the screw shell from metal fittings.

4R7021	Each	30c
	10 lots	29c

A. S. E. Conduit Bodies and Fittings

A time and money saving line of fittings designed to take the place of similar and more awkward conduit bodies and fittings.

With the one body and as many couplings as are necessary, any combination of handy boxes may be made at a great reduction in cost. Same box may be used for both 1/2 in. and 3/4 in. conduit.



4R7307—Body 3/4x1 1/4x1 1/2	Each	10 lots	17c	16c
4R7308—Flat cover with 1/2 in. K. O.			7c	6c
4R7309—Flat, pendant with 3/8 in. eyelet—pushing			11c	10c
4R7310—Porcelain with 1 wire hole			9c	8c
4R7311—Porcelain with 2 wire hole			9c	8c
4R7321—Porcelain with 3 wire hole			10c	8c
4R7312—Porcelain with 4 wire hole			10c	8c
4R7313—Coupling for 1/2 in. conduit			10c	9c
4R7314—Coupling for 3/4 in. conduit			15c	14c

Paine Hangers

For fixtures and outlet boxes. Insert through ceiling, automatic wings fold over. Three-eighths threaded nipple complete with locknut.

4R6875—Each	14c
100	\$11.75

Loom and Cable Box with Bar Hanger

Adjustable to any position on bar. Has 3/4 in. fixture stud, four knockouts for loom or armored cable, all provided with clamping screws.

4R7364—Each	13 1/2c	100 lots	\$11.96
-------------	---------	----------	---------

Set Up Boxes

All 1/2 in. deep. With a straight bar. 3/4 in. stud full adjustable to any position on bar.

4R7420—Loom, no clamps	Each	100 lots	14 1/2c	\$13.55
4R7421—Loom with clamps			16c	14.21
4R7422—Loom with clamps and ears			18 1/2c	17.45
4R7423—1/2 in. conduit, no ears			14c	12.25
4R7424—1/2 in. conduit, with ears			17 1/2c	16.25

Universal Hanger

For side wall or ceiling outlets on new work. By nailing a cross front of studding, an absolutely flush position for box is always secured.

4R6956—Each	5 1/2c
100 lots	\$4.12

Old Work Bar Hanger

For mounting any type of box in old building already plastered. Requires hole in plaster just large enough to pass bar through.

4R7419—Each	9 1/2c
100 lots	\$8.25

B. X. Connectors

For Numbers 14 and 12 B. X. 2 or 3 Wire. Heavily galvanized, good locknut, prevents puncture of cable.

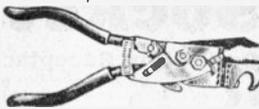
4R7195—Straight	Each	Per 100	3c	\$ 2.15
4R7196—45 degree angle			13c	11.76
4R7197—90 degree angle			16c	14.25
4R7162—Slip-in type			3c	2.40

Duplex B X Connector

Allows two cables in one knockout.

4R7163—Each	8c
Per 100	\$7.50

Armored Cable Tool



Strips single strip armor from cable; 14-2, 14-3, or 12-2 without injury to wire. Cuts cable, wire or loom up to 1/2 in. Has auxiliary pliers with extra leverage. A real labor saver.

4R7058—Each	\$6.86
-------------	--------

Shallow Ceiling Boxes and Plates

4R7156—4 in. diam. with ears. Loom 1/2 in. K. O. Each	6c
Per 100	\$5.39
4R7157—4 in. diam., no ears. Loom 1/2 in. K. O. Each	4 1/2c
Per 100	\$4.27
4R7158—4 in. diam., plate, 1/2 in. K. O. Each	5c
Per 100	\$4.07
4R7159—3 in. diam., plate, 1/2 in. Loom. Each	3 1/2c
Per 100	\$3.25

Closed Raised Steel Covers

4R7169—For 3 1/4 inch Box. Each	3c
100 lots	\$2.50
4R7170—For 4-inch Box. Each	3 1/2c
100 lots	\$3.14

Round Box Cover

Raised for sign receptacle.

4R7165—Fits 3 1/4-inch Box. Each	4c
100 lots	\$3.47
4R7166—Fits 4-inch Box. Each	4 1/2c
100 lots	\$3.70

Drop Cord Cover

Raised with 3/8-inch drawn hole for cord.

4R7167—Fits 3 1/4-inch Box. Each	3 1/2c
100 lots	\$3.04
4R7168—Fits 4-inch Box. Each	4c
100 lots	\$3.14

Plaster Ring

4R7161—Fits 4-inch Box. Each

100 lots	\$3.63
----------	--------

Flat Cover for Snap Switch

No bolts included.

4R7171—Fits 3 1/4-inch Box. Each	4 1/2c
100 lots	\$3.61
4R7172—Fits 4-inch Box. Each	4c
100 lots	\$4.02

Covers for Square Box

Raised Box cover 3/8-inch drop cord hole. Fits 4-in. square box.

4R7201—Each	6c
100 lots	\$5.30

Switch or Receptacle Covers

No.	Gang	Each	100 lots
4R7204	1	5 1/2c	\$5.20
4R7207	2	8c	6.96

Blank Square Box Cover

4R7173—Each

100 lots	\$4.10
----------	--------

Raised Square Box Cover

Has 2 1/8-inch opening for 4-inch box.

4R7203—Each	5c
100 lots	\$4.70

No-Bolt Fixture Stud

Excellent for new work—a big time saver.

4R7177—Each	3 1/2c
Per 100	\$2.80

3/8-Inch Fixture Stud

Clean cut threads.

4R7198—Each	2 1/2c
Per 100	\$1.90

Solderless Fixture Connectors

For all connections. Ideal on fixture work. No soldering. Take 3 size 14 wires on a side or 2 size 12.

4R7552—NOTORCH Connectors. Each	2 1/2c
Per 100	\$2.00

Enconolet Entrance Fittings



Type F is a small, light and durable service fitting. Prices include 3-wire porcelain covers.

Number	Size	Each	25 Lots
4R7396	1/2 in.	20c	19c
4R7397	3/4 in.	26c	25c
4R7398	1 in.	36c	35c

National House Bracket



These galvanized iron brackets have glazed porcelain knobs securely fastened, making them ideal insulators. They are handy and much more desirable than the old style wood brackets and insulators.

No.	Description	Each	10 Lots
4R7582	One Wire	14c	\$1.35
4R7583	Two Wire	32c	3.10
4R7584	Three Wire	45c	4.50

Screw House Bracket

This one-point bracket has a 2-inch No. 20 screw securely fastened to base.

4R7585—Each	14c
-------------	-----

Nail Knobs

Thick heavy cap and body, will not break, assembled with 3/4 in. 12 penny nails, leather washer on top, steel washer below. Nails will not bend. Finest quality glazed.

4R7586	Per 100	\$1.23	
Per 1000		\$10.20	
in barrel lots of 3200,		per 1000	9.75

Porcelain Tubes

Per 100	Per 1000	
4R7576—3 inch	\$0.44	\$ 3.50
4R7577—8 inch	2.30	21.50

Solid Porcelain Knobs

No. 5 1/2 Standard

4R7580—Per 100	87c
Per 1000	\$8.00

Porcelain Cleats

Per	1000 Pr.	1000 Pr.
4R7578—2 Wire	\$1.20	\$10.39
4R7579—3 Wire	1.20	10.50

Locknuts

Heavily sherardized. Clean, deeply cut threads.

No.	Size	Per 10	Per 100
4R7178	3/8 in.	\$0.06	\$0.57
4R7179	1/2 in.	.07	.66
4R7180	3/4 in.	.08	.74
4R7181	1 in.	.13 1/2	1.28
4R7182	1 1/4 in.	.27	2.56
4R7183	1 1/2 in.	.45	4.27

Bushings

Well made sherardized bushings that will stand the gaff of rough handling.

No.	Size	Per 10	Per 100
4R7187	3/8 in.	\$0.09 1/2	\$0.91
4R7188	1/2 in.	.13 1/2	1.23
4R7189	1 in.	.31 1/2	3.02
4R7190	1 1/4 in.	.48	4.56
4R7191	1 1/2 in.	.60	5.70

One Screw Conduit Clamp

Made of steel, are substantial, and hold securely.

Number	Size	Each	Per 100
4R7400	1/2 in.	2c	\$1.62
4R7401	3/4 in.	2 1/2c	1.95
4R7402	1 in.	5c	3.96

Conduit Straps

Strong, heavy, galvanized.

Number	Size	Lb.	10 lbs
4R6885	1/2 in.	9c	75c
4R6886	3/4 in.	9c	75c
4R6887	1 in.	9c	65c
4R6888	3/4 in.	9c	65c
4R6889	1 in.	9c	65c
4R6890	1 1/4 in.	9c	65c
4R6891	1 1/2 in.	9c	65c



Solid Single Braid Rubber Covered Wire

Number	Size	Per 100 ft.	Per 1000 ft.	Ass't Lots 5000 ft.
4R6270—Black	14	\$0.95	\$ 5.36	\$ 5.25
4R6271—White	14			
4R6272—Red	14			
4R6273—Black	12	1.25	10.54	10.35
4R6274—White	12			
4R6275—Red	12			
4R6276—Black	10	1.65	13.87	13.68
4R6277—White	10			
4R6278—Red	10			
4R6279—Black	8	2.20	20.34	19.85
4R6280—White	8			
4R6281—Red	8			

Standard Double Braid Rubber Covered



Number	Size	Per 100 ft.	Per 1000 ft.
4R6282—Black 8		\$ 2.70	\$ 25.75
4R6283—Black 6		3.73	36.45
4R7085—Black 4		5.25	51.40
4R6284—Black 2		7.55	73.45
4R6285—Black 1		9.75	95.90
4R6286—Black 0		12.85	125.00
4R7513—Black 00		15.44	149.50
4R7514—Black 000		18.53	179.00
4R7515—Black 0000		22.15	213.50

Duplex Solid Rubber Covered Wire



Number	Size	Per 100 ft.	Per 1000 ft.
4R7516	14	\$ 2.15	\$18.87
4R7517	12	2.75	25.97

Triple Braid Weather Proof Wire



Full coils (about 1000 ft. to coil) take 100 lb. price.

Number	Size	Weight Per 1000 ft.	Per 100 lbs.
4R7518	18	16 lbs.	38c
4R7519	14	25 lbs.	29c
4R7520	12	35 lbs.	21c
4R7521	10	53 lbs.	14c
4R7522	8	75 lbs.	10c
4R7523	6	112 lbs.	7 1/2c
4R7524	4	164 lbs.	5c

Lead Covered Cable



Number	Size	Description	Per 100 ft.	Per 1000 ft.
4R6288	14	Single Solid	\$3.34	\$25.53
4R6289	14	Duplex Solid	5.20	36.71
4R6290	12	Single Solid	4.27	28.42
4R6291	12	Duplex Solid	8.27	61.41
4R6292	10	Single Solid	5.84	41.16
4R6293	10	Duplex Solid	10.68	64.93

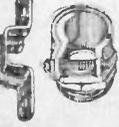
Super Service



The Thick Belt of rubber that covers the conductors is made of smooth oil resisting abrasion proof high quality rubber. This Flexible waterproof oil resisting non-sinking cord is just the thing for hard service.

Number	Size	Per 100 ft.	Per 250 ft. Coil
4R7642	18-2 Wire Light	\$4.27	\$ 9.26
4R7643	18-2 Wire Heavy	7.50	16.25
4R7644	16-2 Wire Heavy	8.85	19.17

Romex Fittings



4R7624—Clamp for 14, 12 and 10 sizes.	50 for	9c
Per 1000		\$1.65
4R7625—Connector for 14 and 12 sizes.	50 for	\$ 1.50
Per 1000		\$25.48



Black Iron Conduit

Best quality. Underwriters approved.

Number	Size	Per 100 Ft.	Per 1000 Ft.
4R7064	3/4 in.	\$ 5.65	\$ 53.95
4R7065	1 in.	6.60	73.50
4R7066	1 1/4 in.	11.30	108.00
4R7067	1 1/2 in.	15.30	147.00
4R7068	2 in.	17.95	171.00
4R7069	2 1/2 in.	24.25	230.00
4R7070	3 in.	39.00	375.00
4R7071	3 1/2 in.	51.00	489.00

Galvanized Iron Conduit

Number	Size	Per 100 Ft.	Per 1000 Ft.
4R7072	3/4 in.	\$ 7.20	\$ 61.80
4R7073	1 in.	8.25	78.40
4R7074	1 1/4 in.	11.95	117.90
4R7075	1 1/2 in.	16.90	161.00
4R7076	2 in.	20.20	197.00
4R7077	2 1/2 in.	27.15	266.00
4R7078	3 in.	43.00	411.00
4R7079	3 1/2 in.	56.25	540.00

Cotton Lamp Cord



Size No. 18. Used for portable wiring and drop lights. Tightly woven, cotton covered over live rubber insulation.

Number	Color	Per 250 Ft.	Per 1000 Ft.
4R7639	Green and Yellow	\$2.94	\$9.31
4R6227	Twisted Black	2.94	9.31

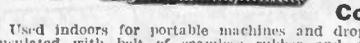
Parallel Silk Lamp Cord



New code insulation lamp cord. Consists of two conductors laid parallel and covered with braided silk. The nearest cord for portable lamps, extension lights in homes, etc. Size 18 1/2 only.

Number	Color	Per foot	Per 1000 ft.
4R7526	Olive Green	2 1/2c	\$4.34
4R7527	Old Brass	2 1/2c	\$4.34
4R7528	Brown	2 1/2c	\$4.34
4R7619	Maroon	2 1/2c	\$4.34
4R7660	Pearl Gray	2 1/2c	\$4.34

Reinforced Cord



Used indoors for portable machines and drop cord insulated with belt of seamless rubber and covered with glazed cotton braid size No. 18.

Number	Color	Per 250 Ft.	Per 1000 Ft.
4R7640	Heavy Reinforced	3c	\$5.00
4R7641	Light Reinforced	2c	3.88

Asbestos Covered Cord



Stranded annealed copper wire, cotton wrapped, insulated with rubber, protected by a braid of long asbestos fibres and covered by glazed cotton yarn. Finished in two colors, gray or black. Specify color wanted.

Number	Size	Per 250 Ft.	Per 1000 Ft.
4R7645	Twisted No. 18	3c	\$5.05
4R6294	Braid Overall No. 18	2 1/2c	4.32
4R6295	Twisted No. 16	3 1/2c	6.47
4R6296	Braid Overall No. 16	3c	5.30



Brewery Cord

Twisted flexible stranded wires, covered with heavy rubber compound over which is a weatherproof braid. Suitable for use in damp places and for extensions.

Size	Per 100 Ft.	Per 250 Ft.	Per 1000 Ft.
4R7638	1 1/2 c	\$2.90	\$10.78



Romex Non-Metallic Cable

A new system of wiring. Cable is sheathed in successive layers of heavy rubber, a tape jacket and tough cotton braids, all saturated with fire and moisture resistant compounds. This construction permits installations in residences and similar buildings of frame or semi-frame construction without the necessity of using conduit, loom, portulac or other insulation. Not intended for use in barns, laundries, public garages or other "damp locations." Saves time and labor and makes a high grade permanent job.

Number	Size	Length of Coil	Price Per 1000 Ft.
4R7620	14/2	250 ft.	\$ 7.31
4R7433	12/2	200 ft.	8.26
4R7621	10/2	200 ft.	10.97
4R7622	8/2	125 ft.	10.03
4R7623	12/2	200 ft.	9.27
4R7649	12/3	200 ft.	13.10

Conduit Elbows

Number	Size	Each	10 Lots
4R7122	1/2 in.	\$0.09	\$0.08
4R7123	3/4 in.	.13	.11 1/2
4R7124	1 in.	.19	.17
4R7125	1 1/4 in.	.25	.23 1/2
4R7126	1 1/2 in.	.34	.31 1/2
4R7127	2 in.	.59	.57 1/2
4R7128	2 1/2 in.	.99	.95

Number	Size	Each	10 Lots
4R7130	3/4 in.	\$0.11	\$0.10 1/4
4R7131	1 in.	.16	.14
4R7132	1 1/4 in.	.22	.20
4R7133	1 1/2 in.	.29	.27
4R7134	2 in.	.38	.36
4R7135	2 1/2 in.	.61	.56
4R7136	3 in.	1.15	1.10

Conduit Couplings

Number	Size	Each	10 Lots
4R7138	3/4 in.	\$0.06	\$0.05 1/2
4R7139	1 in.	.09	.08
4R7140	1 1/4 in.	.11	.10
4R7141	1 1/2 in.	.15	.14
4R7142	2 in.	.19	.17 1/2
4R7143	2 1/2 in.	.25	.23 1/2
4R7144	3 in.	.37	.34
4R7145	3 1/2 in.	.53	.50

Number	Size	Each	10 Lots
4R7146	3/4 in.	\$0.07	\$0.06
4R7147	1 in.	.10	.09
4R7148	1 1/4 in.	.12	.11
4R7149	1 1/2 in.	.17	.16
4R7150	2 in.	.21	.19
4R7151	2 1/2 in.	.40	.37 1/2
4R7152	3 in.	.47	.44
4R7153	3 1/2 in.	.59	.55

Flexible Armored Cable (B.X.)



For new or old work, saves time and labor. Assures permanency of installation. Combines great flexibility with strength. No "springiness"—it is limp and stays "put." Bears Underwriter's label.

Number	Size	No. of Conductors	Per Ft.	250 Ft. Coils
4R7407	14	2	4c	\$ 7.80
4R7408	12	3	6 1/2c	11.48
4R7409	12	3	9c	11.82
4R7410	12	3	8c	16.03
4R7411	10	2	9c	16.47
4R7412	10	3	11c	...

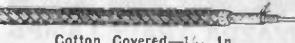
Flexible Non-Metallic Conduit "Loom"



Extremely flexible and durable. Fishing is easy, saves time and money in installations. Kink or twist comes back to its original form. Has Underwriter's label.

Number	Size	In.	Ft.	Per 1000 Coils
4R7413	2/8	7/32	150	\$3.65
4R7414	1/4	5/16	350	3.98
4R7415	3/8	250	8.95	32.40
4R7416	1/2	250	9.65	33.20
4R7417	3/4	150	10.85	64.80

No. 18 Fixture Wire



Cotton Covered—1/4 In. Single conductor—N. C. Easy to wire through loops, etc.; 18 gauge. On 1000 ft. spools.

No.	Color	Per 100 Ft.	1000 Ft.
4R6958	Oak Tan	51c	\$4.12
4R6957	Brown	51c	\$4.12
4R6959	18 Gauge, 1/2 In. Oak Tan	61c	\$5.35
4R6962	Brown	61c	\$5.35

No.	Color	Per 1000 Ft.	1000 Ft.
4R6963	Brush Brass	66c	\$5.25
4R6964	White	66c	\$5.25
4R6971	18 Gauge, 1/2 In. Brush Brass	82c	\$7.06
4R6972	White	82c	\$7.06

Greenfield Conduit



No.	Size	Per Ft.	C. Ft.
4R6287	3/4 in.	7c	\$5.59
4R6298	3/4 in.	10c	8.04
4R6299	1 in.	17c	14.46

Highway Flashing Signal

A rugged new automatic twin flashing light. Heavy cast metal base, imitation concrete supports. Red enameled base; cross-arm and upright blue, with gilt top. Shield etched in solid brass. Two automatic red lights flash as train passes. Ship. wt. 2 1/2 lbs.

15R14571—Narrow Gauge. List, \$4.50. Net, \$3.40
15R14572—Wide Gauge. List, \$4.75. Net, \$3.80



Automatic Crossing Gate

Arms lower and rise again as train passes. Black and red base with green and white crossing arm. 10 1/2 inches high. Shipping weight, 2 pounds.

15R14573—Wide Gauge. List, \$4.75. Net, \$3.55

15R14574—Narrow Gauge. List, \$4.50. Net, \$3.40

15R14574

List \$4.50

\$3.40

Net

Double Arm Telegraph Pole

Finished in an attractive green and orange enamel with gold tip. A very effective piece. Height 12 inches. Shipping weight, 1 1/2 pounds.

15R14575 List, 25c. Net, 19c



Water Tank

Structural base, ladder and waterpout which raises and lowers, and is finished in black Japan. Tank is red enamel and shows water gauge on side in clear black and white marking. A very real-looking tank. Shipping weight, 1 1/2 pounds.

15R14576 List, 85c. Net, 64c

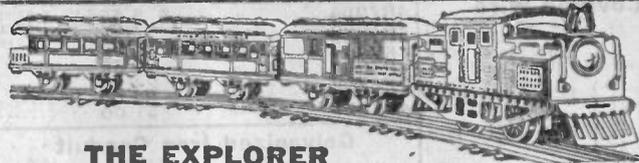


MAZDA TRAIN LAMPS

15R7813—8V. Clear for N. Gauge. Net, 20c
15R7814—14V. Clear for wide gauge. Net, 20c
15R7819—18V. Clear for wide gauge. Net, 20c
15R7824—14V. Frosted for arc lamps. Net, 30c

ELECTRIC TRAINS

AND ACCESSORIES



15R14565

List \$8.00

\$6.40
Net

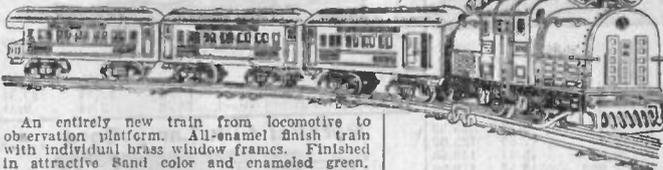
THE EXPLORER

One of the finest 3-car electric trains at a popular low price. Finished in two-tone Emerald green. Cars and locomotive equipped with journal boxes. Total length 3 1/2 in. Locomotive has brass trim and hand decorated windows and ventilators; imitation bell and pantograph. Uses a very high class motor. Caboose car has sliding doors. Pullman and observation cars are single truck with stiles decorated

on solid steel. 6 1/2 in. long. Observation car has brass platform railing and train sign. Total trackage 8 ft. 4 in., consisting of 8 curve and 2 straight sections, forming an oval 37x27 inches. One of the outstanding values of the American Flyer line. Ship. wt., 8 1/2 lbs.

15R14565—With non-reversing locomotive. List, \$8.00. Net, \$6.40
 We recommend 50 or 75 watt transformer.

THE POTOMAC



15R14566

List \$15.50

\$12.40
Net

An entirely new train from locomotive to observation platform. All-enamel finish train with individual brass window frames. Finished in attractive Sand color and enameled green, with solid brass trim throughout. Big Northwestern type locomotive, 9 1/2 inches long. Two headlights and all-brass trim and etched nameplates. The heavy cast iron pilots on underframe are hand decorated. Three cars, each 8 inches long, each car having six solid brass etched nameplates. Individual brass windows with transparency openings. Finished in hand-sprayed enamel and lighted with genuine Mazda lamps. Club car has sliding doors, 12 ft.

track, of 8 curved and 6 straight sections, making an oval 27x57 inches. Ship. wt., 11 lbs.

15R14566—With automatic track reverse locomotive. List, \$15.50. Net, \$12.40

15R14567—With remote control reverse locomotive. List, \$19.50. Net, \$15.60
 We recommend 75 watt capac. transformer.

THE TRAIL BLAZER



15R14568

List \$18.00

\$14.40
Net

Greater length and a stronger motor at less money than any other train set made. Finished in sprayed-on enamel with brass decorations on embossed side and roofs. Total length 4 ft. Pioneer type locomotive, 12 in. long. Brilliant Sunset Red finish, solid brass etched nameplates and fittings. Gilt decorated window frames. Extra long sand car and caboose, with interchangeable automatic couplers. Each car

14 inches long. Sand car finished in Emerald green. Caboose has ivory body and Khaki brown roof. Track length 13 ft. 5 in., of 8 curve and 2 straight sections, making an oval 37x9 in. by 4 ft. 11 in. Ship. wt., 21 lbs.

15R14568—With hand control reverse locomotive. List, \$18.00. Net, \$14.40

15R14569—With remote control reverse locomotive. List, \$23.00. Net, \$18.40
 We recommend a transformer of 75 watt capac. or more.

THE HAMILTONIAN



15R14570

List \$39.75

\$31.80
Net

The lowest priced De Luxe train. 5 feet 3 inches long, finished in beautiful 3-tone sprayed-on enamel, principal color Victory Red. Brass frames on all windows and doors with individual transparencies. Great Northern type locomotive, big and powerful, with all-brass decorations and ringing bell. Club car, Pullman and observation cars are 14 inches long, red body, dark red roofs and French gray under carriage. Individual brass windows. Solid brass fittings throughout. All cars brilliantly lighted

with genuine Mazda lamps. Observation car has brass rail train sign and platform canopy. Self-closing doors. Automatic mail bag set. Track 19 feet, of 8 curve and 6 straight sections, forming an oval 3 feet 9 inches by 7 feet 3 inches. Shipping weight, 35 pounds. Locomotive has Remote Control Reverse. We recommend a 100 watt transformer.

POCAHONTAS DE LUXE BIG 4-CAR PASSENGER TRAIN



15R14577

List \$49.75

\$39.50

Net

A wonderful train. Rookie Tan body, green roofs and French gray undercarriage 6 feet 7 inches long. Powerful St. Paul locomotive. All four cars are 14 inches long, with individual brass window frames and transparencies; self-closing brass doors and fittings and etched name-plate. Train and observation platform are fully illuminated. Red and green rear markers. Auto-

matic couplers and mail bag set. All cars finished in most minute detail. A handsome train, quality throughout. Track is 24 feet of 5-inch width; has 8 curve and 8 straight sections, forming an oval 4 feet 11 inches by 7 feet 3 inches. Ship. wt. 37 lbs.

15R14577—With Remote Control Reverse Locomotive and Automatic Ringing Bell. List, \$49.75. Net, \$39.50

Automatic Danger Signal



Bell rings and red light flashes as train approaches and continues until train has passed. Base is red. Stand is yellow. Warning sign etched in solid zinc. A wonderful attention getter. Height 9 3/4 in. Ship. wt., 2 1/2 lbs.

15R14550—Narrow Gauge, List. \$2.69 \$3.50, Net.
15R14551—Wide Gauge, List. \$2.95 \$3.80, Net.

Automatic Train Control

Red light stops the train and the green light permits it to proceed. Base is red, while upright and light housing is in white enamel. Height 10 1/2 in. Ship. wt., 2 lbs.

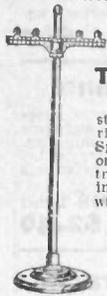
15R14552—Narrow Gauge, List. \$4.32 \$5.00, Net.
15R14553—Wide Gauge, List. \$4.32 \$5.00, Net.



Telegraph Pole

Die-cast heavy base, strongly constructed upright and cross arm. Specially built for use on wide gauge electrical trains. Entirely finished in green enamel. Ship. wt., 1 1/2 lbs.

15R14554—Single Post only, List. \$1.00, Net. **69c**



Double Arm Lamp Post

Has 1-inch frosted Mazda lamps. Finished in attractive green and orange enamel with gold tip. Height 12 inches. Ship. wt., 3 lbs.

15R14555—List. \$2.75, Net. **\$1.95**



Single Arm Lamp Post

Single arm lamp post finished in attractive two-tone Rolls-Royce Blue enamel. Frosted Mazda lamp. Height 10 1/2 inches. Ship. wt., 1 lb.

15R14556—List. \$1.75, Net. **\$1.28**



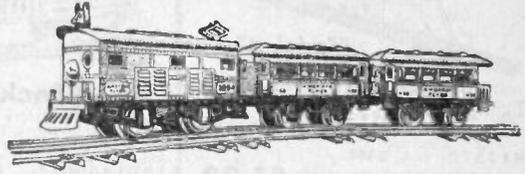
ELECTRIC TRAINS

AND ACCESSORIES

"THE SCOUT" NARROW GAUGE TRAIN

American Flyer Electric Trains

For over twenty years these fine little trains have been considered the best the market offers. Each train is mechanically and electrically perfect, and, with reasonable care, will give years of satisfactory service, and perhaps outlive its owner's playtime age. Each train and accessory is beautifully finished in appropriate colors and makes a fine appearance.



One of the snappiest looking little electric trains on the market. Total length 21 in. "New Haven" locomotive, 7 in. long, in Sunset Red and Ivory. Pullman and observation cars 5 1/2 in. long, same color as locomotive, with red roofs. Ship. wt., 5 1/2 lbs. 8-section track forms circle 27 in. diameter.

15R14558—With non-reversing locomotive, List, \$5.50. We recommend 25 to 50 watt transformer.

\$3.95 Net

Track forms oval 32x57 inches

15R14559 List \$17.75

\$13.95 Net

A luxurious train, all enameled in brilliant two-tone Rolls-Royce blue. Locomotive is N. Y. Central type 10 inches long, with two headlights and solid brass decorations. Cars are 9 1/2 inches long, made with heavy embossing on sides and roof and finished in two-tone sprayed-on enamel. Each car has transparent individual windows, six solid brass etched nameplates, brass steps, and journal boxes, and



lighted with genuine Mazda lamps. Club car has sliding door with brass knobs, followed by Pullman and observation car with brass railings and train sign with open end door. 8-section track 12 1/2 ft. long makes oval 32x57 inches. Ship. wt., 15 lbs.

15R14559—With automatic track reverse locomotive, List, \$17.75, Net. **\$13.95**

15R14560—With remote control reverse locomotive, List, \$21.75, Net. **\$16.75**

We recommend a 75 watt capax. transformer.

THE BROADWAY

Oval Track 27x57 inches

15R14561 List \$14.75

\$11.75 Net

A complete railroad system. A 31-in. train finished in Azure Blue, with reversing type locomotive of Penn. Type, 9 1/4 in. long. Chassis is rigidly made of heavy gauge steel. Brass etched nameplates, bell, pantograph and hand rails. Automatic track or hand reverse control lever. Cars have double trucks and are 6 1/2 in. long.



Baggage car has sliding door. Pullman and Observation have interior lighting. Outfit includes station, 15 in. tunnel and a single arm semaphore. 12 ft. track of 8 curve sections and 6 straight makes oval 27x57 in. Ship. wt., 15 lbs.

THE SENATOR

Track forms oval 3' 8" x 6' 1"

A beautiful train in combination two-tone orange with blue trim and French gray undercarriage. Train is 61 in. long, and consists of locomotive, two Pullmans and observation car. "Daniel Webster" Locomotive, 12 in. long, finished in Golden Orange enamel. Solid brass fixtures and etched nameplates. 2 non-reversing headlights. 14-inch Pullman and Observation cars, lighted inside with genuine Mazda lamps. Solid brass journal boxes, air tanks, and steps. Observation car has brass platform railing, train signs, can-



opy and green and red side markers. 16 ft. of track of 8 curve and four straight sections makes an oval 3 ft. 8 in. by 6 ft. 1 in.

15R14563—With Ant. Track Control Reverse Locomotive, List, \$27.00, Net. **\$21.60**

15R14564—With Remote Control Reverse Locomotive, List, \$31.50, Net. **\$25.20**

We recommend 100 watt transformer.

"THE COMMERCIAL LIMITED" AMERICA'S FINEST MINIATURE FREIGHT TRAIN



A husky big freight train, wide gauge track, train full 7 ft. 10 in. long. 15-in. engine in sprayed-on blue enamel. Automatic ringing bell, twin reversible headlights and triple action remote control. Individual brass windows and brass fittings throughout. Cars are 14 in. long, with French gray undercarriage and etched nameplates. Tank car is cream, blue and gray. Sand car is green enamel. Machinery car is golden orange with

blue sidebars. Auto car is Rookie Tan and blue trim and sliding doors. Two-tone red caboose. Large Mazda lamps in each car. 19-foot track of 8 curve and 6 straight sections, making oval 3 3/4 x 7 1/4 ft.

15R14567—With remote control reverse locomotive and automatic ringing bell, Ship. wt., 35 lbs. List. **\$36.95**

\$45.00, Net. We recommend a 100 watt transformer.

15R14557 **\$36.95** Net

Ship. wt., 27 lbs.

We Pay Freight As Per Offer Given on Page 260

Electric Train Equipment

TRESTLE BRIDGES



**Model 212
Illustrated**

Model 212. Strongly built of wood and heavy gauge steel with wire struts. Structural work in red enamel; approaches in green. Brass nameplate. Length 50 1/2 inches. Shipping weight, 5 pounds.
15R14578—List, \$4.00.
 Net **\$3.20**
 Narrow gauge.

Model 4219

Same high quality construction and finish as No. 15R14578 listed above, but 56 inches long. Built specially for wide gauge tracks. Shipping weight, 8 pounds.
15R14579—List, \$4.50.
 Net **\$3.40**

Model 4220, an extra long and sturdy trestle bridge, 70 1/2 inches long. Wood girders and heavy gauge steel. Structural work painted red; approaches in green. Telegraph pole at each end red. Mazda lamps at each approach. Shipping weight, 10 pounds.
15R14580—List, \$7.50.
 Net **\$5.90**



Stations

**\$3.35
NET**

Terminal Station

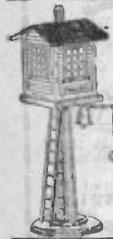
Two lights. Orange enameled roof. Green chimney and corner window. Base is red enamel. 12 inches long, 7 1/2 inches wide, 7 inches high. Shipping weight, 4 pounds.
15R14581—List, \$4.50.
 Net **\$3.35**



Kenilworth Station

**\$1.69
NET**

One outside frosted light, red roof and gray base. Realistic sides. 5 inches long, 5 1/2 inches wide, 5 1/2 inches high. A very attractive station. Shipping weight, 2 1/2 pounds.
15R14582—List, \$2.35.
 Net **\$1.69**



Watchman's Tower

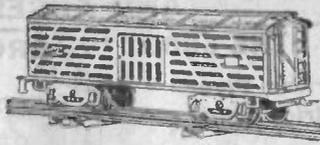
Just like real ones. Sides lithographed in full color, with all details. Roof is green enamel. Sturdy upright and wide base. Has ladder and real brass bell, hand operated. 10 inches high. Shipping weight, 1 1/2 pounds.
15R14583—List, 78c
 \$1.00. Net

Transformers



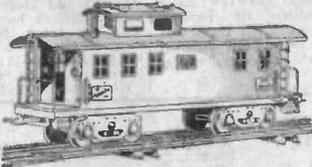
Produces from 5 1/2 to 18 1/2 volts, according to size. They step down from 110 volt, 60 cycle AC current to the proper voltage and allow speed control of trains in half-volt steps. Well made and absolutely safe. No electrical knowledge necessary. Shipping wt., 3 to 6 lbs.
15R14584—2 1/2 Watt size, 4 speeds. List, \$2.85. Net, \$2.10
15R14586—50 Watt size, 6 speeds. List, \$3.35. Net, 2.47
15R14587—75 Watt size, 18 speeds. List, \$3.80. Net, 2.84
15R14588—100 Watt size, 24 speeds. List, \$6.00. Net, 4.58
15R14589—150 Watt size, 30 speeds. List, \$7.50. Net, 5.37

RAILROAD TUNNELS



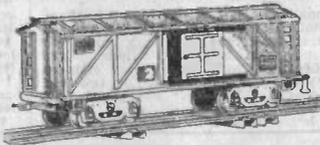
Stock Cars

A big 14-inch stock car, spraved with attractive Rolls-Royce blue. Solid brass fittings; automatic couplers. Sliding doors. Shipping weight, 3 1/2 pounds.
15R14590—List, \$4.25.
 Net **\$3.10**



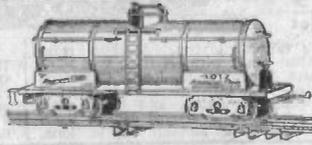
Caboose

14 inches long. Finished in brilliant two-tone Victory red. One interior electric light. Automatic couplers. Shipping weight, 4 pounds.
15R14591—List, \$5.50.
 Net **\$4.20**



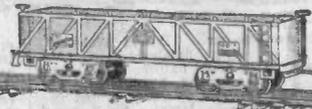
Automobile Cars

14 inches long. Body finished in Rookie Tan enamel with Turquoise blue top and sliding door. Shipping weight, 4 pounds.
15R14592—List, \$4.25.
 Net **\$3.25**



Tank Cars

Finished in 3 colors, tank in cream, floor and platform in military blue, undercarriage in French gray. All details in bright brass. Shipping weight, 4 pounds.
15R14593—List, \$5.00.
 Net **\$3.85**



Sand Cars

A big husky sand car with automatic couplers. 14 inches long. Brass fittings. Heavily reinforced and finished in sprayed-on green enamel. Big trucks. Shipping weight, 4 pounds.
15R14594—List, \$3.25.
 Net **\$2.45**



Machinery Cars

Finished in beautiful golden orange enamel with Turquoise blue side bars. Brass fittings. Automatic couplers. 14 inch long. Shipping weight, 4 pounds.
15R14595—List, \$3.00.
 Net **\$2.15**



Narrow Gauge Tunnels

These miniature American Flyer railroad tunnels are very realistic in design and finish. Built entirely of heavy paper-mache and scientifically molded under great pressure. They are unusually strong, and able to stand the roughest kind of handling. All the tunnels are rough and mountainous in appearance. Hand decorated colors are applied, making them fade-proof and nearly wear-proof, and giving them a very realistic landscape effect.

15R14596—Hoosac Model, 11 inches long. Shipping weight, 3 pounds. List, \$1.00. Net, 78c
15R14597—Moffat Model, 15 inches long. Shipping weight, 5 pounds. List, \$1.25. Net, 96c

Wide Gauge Tunnel

Constructed similar to the narrow gauge size but of slightly heavier material, and made more attractive with imitation shrouding, fences and imitation stone masonry arches with brass nameplate for the Keystone at each entrance.

15R14598—Allegheny Model, 18 1/2 inches long. Shipping weight, 6 pounds. List, \$3.00. Net, \$2.40

Electric Train Tracks

Straight Tracks

Narrow gauge track. Length 10 inches each. Shipping weight, 1 pound.
15R14599—Set of 12 pieces. List, \$1.80.
 Net **\$1.20**



Wide gauge track. Length 14 inches each. Shipping weight, 1 1/2 pounds.
15R14549—Set of 12 pieces. List, \$3.60.
 Net **\$2.40**

Curved Tracks

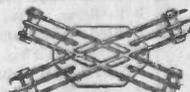
Narrow gauge. Each piece 10 inches long. Shipping weight, 1 pound.
15R14548—Set of 12 pieces. List, \$1.80.
 Net **\$1.20**



Wide gauge track. Each piece 14 inches long. Shipping weight, 1 1/2 pounds.
15R14547—Set of 12 pieces. List, \$3.60.
 Net **\$2.40**

Electric Train Cross-overs

Narrow gauge track. Shipping weight, 1 pound.
15R14546—List, \$1.00.
 Net **79c**

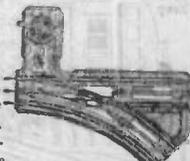


Wide gauge track. Ship. wt., 1 1/2 lbs.
15R14545—List, \$1.35.
 Net **\$1.08**

Switches

These switches operate either automatically or by hand, as specified. Made of heavy gauge steel, tin coated. Automatic narrow gauge electric switch. Shipping weight, 1 lb.

15R14544—Pair, as shown. List, \$3.00.
 Net **\$2.40**



Wide gauge hand operated switches in pairs. Shipping weight, 3 1/2 pounds.
15R14542—List, \$5.00.
 Net **\$3.95**

Choose Your Football from Our Complete Stock



Low-Priced Practice Ball
Just the Ball for Youngsters

This is a regulation size football. Lighter in weight than the higher priced ones on the right, it makes an ideal practice ball for youngsters as well as older boys. Made of pebble grained split cowhide leather, it is well sewed and will give satisfaction. Stem type rubber bladder. Lacing needle and leather lace included. Ship. wt., about 1 1/2 lbs. **Price Each \$1.18**
 11F13021

Valve Type Practice Ball

A better quality of practice football than the one listed above. Made of heavier pebble grained split cowhide and reinforced inside with a heavy lining. This ball has the new valve type bladder. You will very seldom see a football with this improved bladder at our very low price. Ready laced for you to inflate. This ball is regulation size of course and makes a great practice ball. **Price Each \$2.20**
 11F13019 Shipping weight, about 1 1/2 lbs.

Regulation Valve Type Practice Ball

Here is a real value. A regulation size and shape practice football for \$2.83. And with the new valve type bladder at that. You will be wise to avail yourself of this bargain. Made of heavy, durable, tough pebble grain leather, fully lined, and stitched with strong linen thread. A real heavy rubber bladder. Ball is already laced with rawhide, ready to inflate. **Price Each \$2.83**
 11F13018 Ship. wt., 1 1/2 lbs.

Guaranteed Official Inter-collegiate Football
Our Price Is Low for This Quality

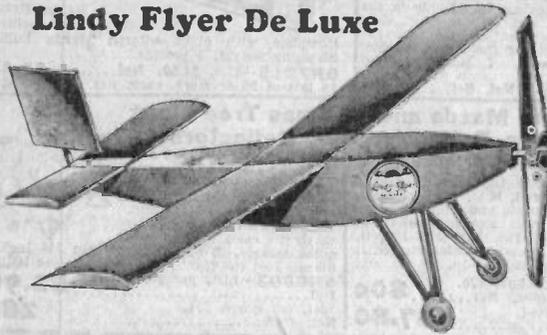
Absolutely the finest football procurable anywhere. Guaranteed official for use in football games. This is the same ball as is now being used by many of the leading colleges in the country. Made of best grade, carefully selected English pebble grain leather. Has double lacing and valve type bladder ready to inflate. Best quality, too rubber only is used in making this bladder. Sewed with waxed linen cord and reinforced at both ends of opening with hand sewing. Complete with inflating and deflating tool. Ship. wt., 1 1/2 lbs. **Price \$11.35**
 11F13020



High Quality Regulation Football

Regulation in size and shape. An excellent value. A real football that will take a lot of abuse and still keep its shape a long time. Made of selected pebble grain cowhide, lined with strong drill for added wear. New valve type stemless bladder of good quality rubber. Ready laced for inflation. Complete with necessary fittings. Ship. wt., 1 lb. **\$6.35**
 11F13022

Lindy Flyer De Luxe



YOU Build It—It flies by itself!

The best way to keep a boy's mind healthy is to give him a construction toy. This ultra-modern toy is welcomed with keenest delight by every youngster. Start the low building this fascinating aeroplane model, and see how interested and happy he is. It fits right into his thoughts for every boy is full of the subject of aviation. Give him a chance for creative expression along this line. Let him learn for himself how an aeroplane is constructed.

Nothing is more educational than this Lindy Flyer De Luxe, for the boy builds it from the propeller to the rudder according to specifications like those of a big plane. This model aeroplane will positively fly from 500 to 5000 feet. It will do straight flying and, with slight adjustments, will do some flying. It can be adjusted for height, for duration of flight, or for flying in circles. The wings are also adjustable to allow for varying air conditions. The plane can take off from the ground by its own power. The landing gear is of special shock-absorbing construction to give extra protection and resiliency to the entire plane. Contrary to planes using silk and light wood, the Lindy Flyer De Luxe uses Chinese bamboo and rice paper. This construction is superior in every way for it will not break or warp out of shape. The propeller, landing gear, nose piece, tail piece, spar sleeves, and all the ribs in the wings, rudder and stabilizer are made of aluminum which cannot break. This assures you of a plane that is both light and strong. The reason for all these special features is that this aeroplane was designed by expert aeronautical engineers who have had actual flying and mechanical experience. They designed this model on the exact principles of the big aeroplane.

Instructions for the Lindy Flyer De Luxe are complete and simple to understand. Any boy who can read can build the plane himself quickly and easily. All the parts necessary are neatly packed in a substantial case with a place for everything. The Lindy Flyer De Luxe is durable and will furnish good, wholesome sport for a long time. **List \$5.00 Net \$3.97**
 15F14511

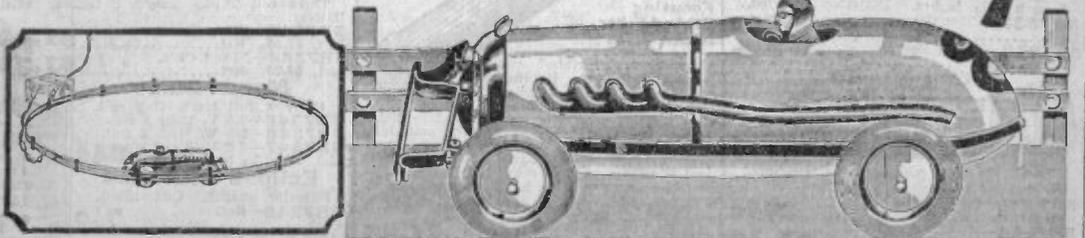
Whizzing Speed in the New Electric Racing Car!

Here is a real toy for the modern American boy. An Electric Racing Automobile. The Electric is an exact copy of the finest racing cars. It is so well made that it has the recommendation of one of the most famous builders of racing cars in the world. He says that the workmanship and design of the Electric are much superior to those of ordinary toys of this type. The Electric is three times faster than any other electrical toy. It is specially built to withstand this lightning speed. A patented steering arrangement keeps it to the fence, regardless what its shape is. You can run

the car on the outside or the inside of the fence. An ordinary toy transformer operating from the light socket furnishes the power. Twenty feet of flexible steel fence is included. It is in two pieces, tin plates to withstand rust. No tools to assemble. The fence can be stepped on without damage. Give your boy this new, better toy.

15F14510 In sturdy, permanent box. Ship. wt., 8 lbs. List \$10.00

Net \$7.73



All Prices Quoted Are Net—There Are No Further Discounts

Christmas Tree Electric Colored Lights

Get your supply now of these nationally advertised Noma Sets. Every home is a prospect. Nothing is more cheerful than a lighted Christmas tree. These outfits give all the cheerful decoration needed with safety. Endorsed by the Board of Underwriters. No danger of fire as compared to the old fashioned candle. Weatherproof, they can be used either outside or inside with perfect results. 8 colored 15-volt Mazda or Carbon lights to the set. Be sure to specify which kind of bulb you prefer when ordering. No transformer is necessary as these sets can be connected directly to your light socket. A special connector for adding another set of lights, or an electric train, or any other appliance using the same voltage is included. For all 110-120 volt 60 cycle current. Shpg. wt., 2 lbs.

5R7225—As described above, with twisted cord leads. **\$1.45**
List, \$2.50. Net.

5R7210—Same as above but with parallel cord leads and sliding head over cord just under socket. Very easy to put lights on branches with this outfit. Superior quality, well worth slight difference. List, \$2.70. Net. **\$1.57**

CARBON XMAS LIGHT OUTFIT

5R7211—Same general construction as above outfit but with 8 carbon lamps. **75c**
List, \$1.25. Net.

Electrically Lighted Tree Holder

A beautiful tree holder that will enhance the appearance of every tree. Will light even in the darkest parts. Inside basin can be filled with water to keep tree fresh, and prevent the shedding of needles all over floor. Equipped with parallel leader cord, so that the burning out of one light will not affect the others. Complete with 8 colored Mazda bulbs.



5R7213—List, \$5.25. Net, each... **\$3.92**

Noma Twinkling Outfit

New and better. You can control these lights to either twinkle or burn steady as desired. The multiple connection is a feature found only in the better sets. Burning out of one light does not affect the others. Weatherproof throughout, permitting use either inside or outside. Has tri-plug attachment. 7 Mazda colored bulbs.



5R7214—List, \$6.50. Net, Set... **\$3.86**

8 Genuine Mazda Bulbs Assorted Colors



5R7225
List \$2.50
\$1.45
Net Set

Connect to any Socket

Noma Multiple Outfit



One of the finest Christmas tree lighting outfits made! One light burned out does not affect balance of lights. Bakelite sockets.

Complete with eight colored Mazda bulbs. Shipping weight, 4 pounds.
5R7215—List, \$4.50. Net..... **\$2.68**
In lots of 50 or more, each, net..... **2.62**

Xmas Wreaths

A popular Christmas decoration for home windows, offices, stores, etc. Well made. Covered with red woolen henille roping. Pine and flower design shaft of Silver and green drift effect candle.



5R6849
List, \$2.00. Net, each... **\$1.16**

Extra Mazda and Carbon Bulbs for Xmas Tree Outfits

These are the genuine Mazda. Come in red, blue, canary, green, orange, purple and white in boxes of 10. Also assorted colors in cartons of 100. All are 15-volt. Be sure to specify color wanted if ordering boxes of 10.



5R6800—List, each bulb 12c. **80c**
Carton of 100. Any color. Net..... **\$7.80**
Carton of 100. Assorted. Net..... **\$7.80**

Xmas Tree Light Reflectors

Attractively designed copper reflectors that will double the brilliancy of the electric bulbs on the tree. Inexpensive, quick selling. Buy a quantity and be ready to cash in on these quick movers. These reflectors are 3 1/2 inches diam. Just the right size for Xmas tree bulbs.



5R6803—List, per gross \$5.00. **\$2.96**
List, per dozen 75c. **28c**
Net, Dozen..... **28c**

The "ULTRA"

A compact clean lighter. Easy to operate. Works consistently. Made in two styles.



18R7216—Platinoid. List, \$3.50. Net. **\$2.15**
18R7217—Gold Plate. List, \$4.00. Net. **\$2.48**
18R7218—Leather covered. List, \$5.00. Net. **\$2.76**

"Automatic"

The latest and one of the best lighters made. Just flip it open and it lights. Stays lighted until closed. Made in three attractive styles.



18R7219—List, \$5.00. Platinoid finish. Net. **\$2.76**
18R7220—List, \$6.00. Gold plated finish. Net. **\$3.18**

2-Cell Regular Style

Length 7 1/2 inches. Batteries included.



5R7337—Fiber Case. Each. **89c**
5R7338—Nickel Case. Each. **95c**

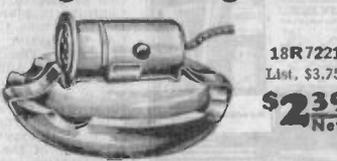
2-Cell Miners

2 1/2 inch Octagon head. Complete with two cell battery.



5R7333—Fiber Case. List, \$1.25. Net. **95c**
5R7334—Nickel Case. List, \$2.05. Net. **\$1.10**

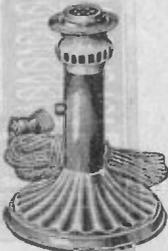
Cigar and Cigarette Lighters for the Home



A neat serviceable combination of lighter and blue tinted glass ash tray of generous size and weight. Finished in nickel silver. Shipping weight, 1 pound.

18R7222—Extra Heating Element. List, 75c. Net. **48c**

Complete with six feet of cord and separable plug for use on any 105 to 120 volt AC or DC. Antique finish. Base 7 1/2 in. in diam. 5 in. high.



18R7224—List, \$2.00. **\$1.55** NET
Artistic Model 1. Sterling silver plate same size as above.
18R7223—List, \$3.75. Net. **\$3.05**

Our Special Flashlight Bargain



\$1.33 Net Complete

500 Foot Focusing Ribbed Fiber Nickel Trim

Heavy duty fiber ribbed focusing flashlight. By turning the head of the flashlight you can change the beam from a narrow piercing ray to a diffused white light. Made throughout of best quality materials. Non-short circuiting. Special built-in shock absorber protects lamp against rough handling and insures a positive contact. 2 1/2 inch octagon head prevents flashlight from rolling. Also includes one bulb and battery, complete. Ship. wt. 2 lbs.

5R7341—Retail Value, \$3.00. Net. **\$1.33**

2-Cell Focusing

Throws 200 foot ray. Fits pocket. Length 7 inches. Battery included.

5R7339—Fiber Case. List, \$1.75. Net. **95c**
5R7340—Nickel Case. List, \$2.55. Net. **\$1.08**
Three cell type. Length 9 inches. With Battery.
5R7343—Fiber Case. List, \$2.95. Net. **\$1.60**
5R7344—Nickel Case. List, \$3.20. Net. **\$1.70**

Mazda Bulbs

Carry a full stock—they sell.

5R7345—2 1/2 V. Baby 2 cell. **84c**
5R7346—2 1/2 V. Reg. 2 cell. **84c**
List, 12c. In lots of 100.

Eclipse Batteries

Superior quality. Guaranteed.



5R7349—Net. **7c**
Each. Lots of 10, 7c

BIG BARGAINS FOR OUTDOOR MEN

\$4.45

These garments are especially suited for every type of outdoor use. Men who spend any amount of time outdoors will certainly like them. They are the most popular type, made of finest materials, and heavily reinforced for long, hard service. The knee pad and seat reinforcements on the breeches add to their sturdiness and wearing quality. Be sure to give sizes wanted when ordering. This is important.



\$4.45

Suede Lumberjack

Here is your opportunity to buy a fine quality winter garment at an extremely low wholesale price. A blouse like this usually retails for \$7.50. Made of specially processed cloth that looks like suede leather and wears almost as well. An exceptionally well made garment that will give long, hard use and stand repeated washings. Tan color. Two patch pockets, and close-fitting knit worsted bottom completely windproof. Notched collars. Button front. Sizes, 14½ to 17, shirt size. Sizes, 18, 19, and 20 are oversize. State size when ordering. Ship. wt., 1½ lbs.
11R12915—Sizes, 14½ to 17. **\$4.45** Each, Net.
11R12926—Sizes, 18, 19, 20. **\$4.85** Each.



All-Wool Plaid Lumberjack

A fine, heavy-weight garment for cold-weather wear. Made of finest 24 ounce all-wool fancy plaids, in three attractive color combinations. Two large patch pockets. Snug-fitting elastic bottom. A mighty popular outdoor garment that is made for rugged wear. Big notched collar. Double-stitched throughout. Will stand repeated washings. Worsted knit bottom. Button front. Cut full and roomy. Sizes, 18 to 20, shirt size. Sizes, 18, 19 and 20 are oversize. Colors: Red plaid; blue plaid; brown plaid. Be sure to state color wanted. Shipping weight, 1½ lbs. Sizes, 15 to 17.
11R12921—Retail value, **\$4.45** \$7.50. Each, Net.
11R12927—Sizes, 18, 19, 20. Each, Net. **\$4.85**

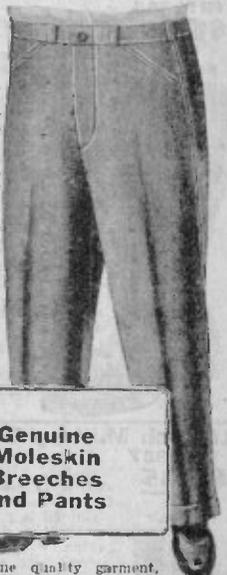


Blue Corduroy Breeches
11R12918
 Retail Value **4.95**
 \$7.50 **NET**
 WHOLESALE

Made from very fine grade thickest Blue Corduroy. Reinforced crotch and seat. Double reinforced knees. Regular pockets. Double stitched throughout. A fine match for our blue Corduroy slough-lined Coat, No. 12905 on page 236. Sizes, 28 to 42 waist measure. Length, 26 inches. Ship. wt., 3 lbs.
11R12917—Retail Value, \$6.00. Net, wholesale. **\$3.50**
11R12918—Same as above with horsehide reinforced knees. Retail value, \$7.50. Net, wholesale. **\$4.95**

Full Length Pants

Forest green color. Genuine heavy moleskin. Regular pockets. Extra high cut. Reinforced at all strain points. Cut full and roomy. Sizes, 30-42 waist; 28-34 inseam measure. State size. Ship. wt., 3 lbs. Retail value, \$4.00.
11R12922
2.75 **NET**
 WHOLESALE



Genuine Moleskin Breeches and Pants

An extra fine quality garment, made of heavy-weight, genuine moleskin cloth. Will stand hard service and repeated washings. Both of these garments are well tailored, cut full and roomy, and strongly reinforced at all strain points. Our low wholesale prices show you a big saving.

Breeches

Forest green color. 2-button flap back. 2 front and 1 change pocket. Reinforced seat and seatline. Genuine leather. Inseam pads. 28-42 waist; 56 in. in seam. Wt., 3 lbs.

11R12923
 Retail for \$7.50.
4.65
NET

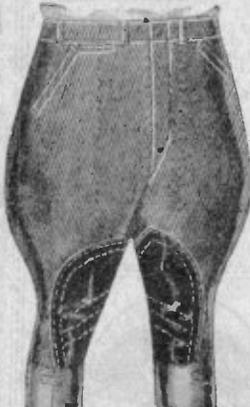


Genuine Front Quarter Horsehide Leather Breeches

An extremely dressy and serviceable breech, made entirely of selected first quality, front quarter horsehide leather, which is soft and flexible, as well as wind, cold and water proof. Extra warm heavy flannel lining from top to bottom. Popular laced bottom style. Two back pockets; two large front pockets and change pocket. Belt loops. Nothing could give greater service or satisfaction.

11R12916
11.50 **NET**
 Sizes, 30 to 42 waist measure. Inseams 26 inches. State size. Ship. wt., 4 lbs.
11R12916—Retail Value, \$18.00. Net wholesale. **\$11.50**

Twill-Cord



Made of extra heavy, long wearing Twillcord, a ribbed cloth that will give extremely long, hard service. Double reinforced knees. All models have two back pockets with flaps; two regular front and one change pocket. Two colors: Tan Twillcord, and Oxford Gray. State color wanted. Sizes, 28 to 42 waist, 36 inch inseam. Shipping weight, 3 lbs. Regular retail value, \$6.50.
11R12919—Tan.
11R12924—Gray.
 Each, whole sale. **\$2.75**

Twill-Cord Breeches
11R12920
 Retail Value **3.95**
 \$6.50 **NET**
 Wholesale

11R12920—Tan.
11R12925—Gray.
 Same as above with genuine horsehide leather reinforcements. Retail value, \$6.50. Net, whole sale **\$3.95**

We Pay Freight As Per Offer Given on Page 289

Hunting and Outdoor Clothing

Popular Styles

Worn by
Outdoor Men
Everywhere

Be Sure
to State
Sizes
Wanted



Medium Weight Hunting Coat

A moderate priced hunting coat of medium weight forest-brown water-repellent regimental duck. An excellent weight for early fall shooting or fishing. Has all the features necessary for your comfort. Top of shoulders and three-quarter back duck lined. Comfortable corduroy collar; large all around game pocket with front and rear entrances. Outside entrance covered with flaps. Reinforced shoulders and adjustable corduroy faced cuffs. Double stitched seams throughout. Makes a good coat for general outdoor use. Ship. wt., 5 lbs. Even sizes: 36 to 46 inch chest measurement. Be sure to state sizes wanted.

IR12893
Price, \$5.00.
\$3.45
Net Price

Watershed Slicker Interlined

Here is a coat guaranteed to give satisfactory service. Made of a special heavy weight, best quality forest-brown waterproofed duck, full lined with heavy material and interlined with a good quality allover cloth. Makes coat absolutely windproof and rainproof. Two extra large bell shaped shell pockets, double breast pocket and three large game pockets with front and rear entrances. Fine-rib extra wide corduroy collar with auto-lock fastener. Adjustable corduroy faced cuffs. Reinforced shoulders with ventilated gussets under arms. Match granular inside of rock. Extra well made. All seams stoutly sewed and reinforced. Ship. wt., 5 lbs. Even sizes: 36 to 46 inch chest measurement. State sizes wanted.

IR12897
List Price, \$8.50.
\$5.35
Net

Same coat as above except no slicker interlining. IR12884—List, \$8.50. Net.....**\$4.35**

14-Inch Box Toe Blucher

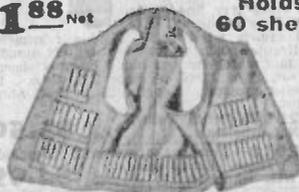
IR12885
\$8.95
Net, pair



Solidly built for hard wear. The right boot for garage men, road men, surveyors, and others who do not need the 16-inch boot. Well made of oil-dressed No. 1 calf, chocolate color. Same process of waterproofing as used on some high-priced boots. The solid leather single sole, the full leather lined vamp, the whole rubber heel, the wide reinforced back stay, (in and out), the steel stud heels, and the leather laces are features that insure greater comfort and longer wear. Goodyear welt and full grain leather inside. Sizes, 5 to 12. Half sizes. Wide width. Be sure to state size wanted. Shipping weight, 4 pounds.

Water-Proof Shell Vest

\$1.88 Net Holds 60 shells



This snug fitting, warm Shell Vest is made of special waterproof repellent medium heavy weight fine quality forest-brown duck. Size button style to fit close up to neck. Has an upper row of shell loops on right front side, two upper rows on left front side, and a lower row around entire width of vest. Holds 60 shells. Sizes 36 to 46 inch chest measure. Even sizes only. State size wanted. Shipping weight, 1 pound.

IR12889—List Price, \$3.00. Net.....**\$1.88**

Similar to the above except that it has a two button front and capacity of 85 shells. Same size as above. State size wanted. Shipping weight, 1 pound.

IR12890—List Price, \$2.50. Net.....**\$1.28**

16-Inch Waterproof—All Leather

IR12886
\$11.50
Net, pair



Sturdy—Comfortable—Waterproof—Moccasin Style Toe. All these mean a great deal to the fisherman, hunter, prospector, lumberman, camper, bus driver, or stamp-service station man. Chocolate color. A great boot for all kinds of rugged work or play. Sturdy but easy on the feet. Every part of it, upper, sole, heels, inner sole, is made of finest selected leather. Hand-sewed, leather-lined vamp and quarter. Goodyear welt and full grain gusset. Hand blind sewed back seam with reinforced back stay (in and out). The waterproof welt, steel stud heels, full bellows tongue are additional quality features. Sizes, 5 to 12. Half sizes. Wide width. State size and width wanted.

16-Inch Military Style Toe

IR12887
\$9.25
Net, pair.



A comfortable, well fitting boot that will give lasting service. Preferred by many for its dressy black color and plain military toe. Practical for hunting, fishing, touring, hiking, camping, as well as general hard work on roads, trucks, in garages or workshops. An excellent riding boot. Thick solid leather sides, heels and lining sides. Whole rubber heels. Reinforced in and out back stay. Genuine Goodyear welt construction. Full bellows tongue and tan rubber welt help keep out the dirt and moisture. A special quality all-purpose boot that is both dressy and serviceable. Sizes, 5 to 12. Wide width. State size wanted. Shipping weight, 6 pounds.

Popular
Deer-
stalker
Model
\$1.05
Net



Forest-brown waterproof army duck. Half of crown turns over to the opposite side, exposing red flannel inner lining. Inside curved bands, stitched unbreakable view. Head sizes 7 1/2, 7 3/4, 7 7/8, 7 7/8. State size wanted. Shipping weight, 3/4 pound.

IR12891—List Price, \$2.00. Net.....**\$1.05**

16-Inch Waterproof Boot—Specially Priced

Finest quality waterproof boot. Will stand the roughest wear. Built on the comfortable, popular Moccasin Toe style in attractive, soft, pliable, chocolate colored leather. Solid leather upper, sides, heels and inner sole. Leather lined vamp and full grain Goodyear welt. Steel stud heels and rubber laces. Goodyear welted. Reinforced back stay inside and out. Has waterproof welt as added moisture protection. As fine a boot as anyone would want and at an excellent value. Sizes, 5 to 12. Half sizes. Wide width. State size wanted. Ship. wt., 6 lbs.

IR12875
\$16.75
Net, pair

Designed by Old Time Hunters



Cut Extra Full—
The Utmost
in Comfort
and
Quality

**State
Sizes
Wanted**

Special Lightweight Shooting Coat

Our lowest priced hunting coat is ideal for early fall shooting when the weather is moderate. Comfortable and well made, with many of the features usually found only in the higher priced coats. Made of good quality forest-brown standard duck. Arm holes are cut full to prevent binding. Reinforced shoulders. Three-button front with unbreakable buttons. Ventilated gunsets under arms. Two large game pockets, two double shell pockets and the breast pocket are all reinforced with leather stays. You will find this coat to be very popular with those wanting an inexpensive outfit. It is also fine for outdoor work and fishing. Shipping weight, 5 pounds.

11R12880
List \$5.00

\$2.45

State size wanted.
11R12880—Retail Value, \$5.00.
Net Price



All Weather Hunting Coat

If you wear this splendid coat you will be ready for the coldest winds or hardest rains. Made of heavy weight forest-brown regimental duck, full lined with medium weight forest-brown duck. Two large bell-shaped flap pockets give ample room for your shells. Twelve shell holes on each side are covered with flaps to keep out rain. Three large game pockets with front and rear entrances. Reinforced shoulders and full cut arm holes. Comfortable ribbed corduroy collar with auto hook fastener, adjustable cuffs with corduroy facing inside. Ventilated gunsets under arms. All strain points reinforced. A coat that will win your friendship in the field. Size: 36 to 48-inch. Even sizes only. State sizes wanted. Shipping weight, 5 pounds.

11R11281
List \$10.00

\$5.35

11R12881—Retail Value, \$10.00.
Net Price



Water-Proof Laced Bottom Breeches

Large roomy seat and legs for freedom of motion. Knee laces eliminate binding when you kneel to shoot. Made of best quality medium heavy weight forest-brown duck. Two front-top pockets. Two hip pockets and a watch pocket. Seat and knees reinforced with rubberized drill to keep out moisture. Legs laced in front.

Made to stand a lot of abuse.
Size: 32 to 42-inch waist. Even sizes only. State waist measurement. Shipping weight, 2 pounds.
11R12893—List Price, \$3.40
Net

Light Weight Breeches

Same style pants as listed above except without rubberized reinforced seat and knee weight material. Same size as above. State sizes wanted.

11R12894—List, \$5.00.
Net



De Luxe Heavy Weight Hunting Coat

The De Luxe is one of the finest and most practical hunting coats on the market today. Made of the finest grade special water-repellant forest-brown heavy weight regimental army duck. Full lined with same regimental duck. Tailored to fit. Fine rib extra wide corduroy collar with auto-hook fastener. Corduroy faced cuffs are adjustable. Shoulders are reinforced and padded. Ventilated gunsets under arms. Four non-breakable buttons. Two large double shell pockets, double breast pocket and three large game pockets the full width of the coat are protected by tape. Front and rear entrances to game pockets are strongly huckled to prevent tearing. You will find this coat places the most critical of hunters. Ship, wt., 5 lb.

EVEN SIZE: 36 to 48-inch chest measure.
State sizes wanted. No odd sizes.
11R12882—Retail Value,
\$12.00. Net Price

\$6.45

Water-Proof Full Length Trousers

Full length hunting pants of special heavy weight forest-brown water-proofed army duck. Two side and two hip pockets protected with button flaps. Side watch pocket. Double reinforced seat and knees reinforced with rubberized drill to keep out moisture. An extra well made pair of pants that will give plenty of wear. Shipping weight, 2 1/2 pounds.

Size: 30 to 34 inseam; 32 to 42-inch waist measure. State sizes wanted.

11R12895—Retail Value, \$6.00. Net,

\$3.30

11R12896—Retail Value, \$4.00. Net,

\$2.45



Hunting Hat-Cap

11R12898
List \$1.75

Net 98c

A splendid hat-cap made of the waterproof khaki with rubber interlining. Brim can be turned down to protect neck, or may be worn turned down in front as cap. Inside plush band turns down to protect ears. Ship, wt., 3 lb. Head Sizes: 6 1/2; 7; 7 1/2; 7 3/4; 8.

11R12898—List Price, \$1.75. Net Price

98c

Improved Style Hunting Cap

11R12899
List Price \$1.25

78c Net

Here is an inexpensive hunting cap that gives plenty of protection. Made of heavy weight forest-brown standard duck. Plush-lined full case with tapes to tie in front. Case keeps ears warm and protects neck. Ship, wt., 3 lb. Head Sizes: 6 1/2; 7; 7 1/2; 7 3/4; 8.

11R12899—List Price, \$1.25. Net Price

78c

All Prices Quoted Are Net—There Are No Further Discounts

Now the Popular Hit!

Men's Navy Blue Corduroy Sheeplined Coat

Wonderful Value at Our Low Wholesale Price!

If you feel you'd like something extra attractive, order this good looking smart coat of fine narrow wale navy blue corduroy. Among outdoor men this is one of the most popular of all coats. Wears well; keeps its shape, and does not readily show soil.

Extra Warm Sheepskin Lining

For warmth, it has a heavy, genuine bark tanned sheepskin lining. Warm heavyweight sleeve lining. Strengthened under arm pits with shields to prevent breaking at this usual strain point. Snug-fitting knit wristlets. Loop and button keep the warm beaverized sheepskin collar close to face and neck. Two warm mull pockets with flaps, all lined with fine grade fleeced cloth. Double breasted. All-around belt with buckle. Length, full 36 inches. Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Take measure over vest. Be sure to state size when ordering. Shipping weight, 9 lbs. Our wholesale prices are lowest.

IRI 2906—
Retail Price, \$15.00.
Wholesale Price,

\$9.45



How to Measure for Clothing

Always take chest measurement over vest. Place the tape all around the body, close up under the arms, and draw it forward across the chest. Let your arms hang straight at the sides, naturally. Do not take this measurement too tight, and do not let the tape slip down in the back. Above all, make no allowance, as our garments are all made to fit measurements taken over the vest.

Sheepskin Collar and Lining



OUTDOOR MEN!

Our wholesale prices show big savings; the quality is guaranteed to be exactly as stated. For hunting, outdoor work, and general sports use, our selection of finest quality wearing apparel is complete, correctly cut and finely tailored. The styles are the very latest, and can be depended upon to be right up to the minute.

Sporting Goods

Our line of athletic and sporting goods has been selected from the best offerings of the leading manufacturers in each line—goods that are nationally known; articles that have years of quality reputation back of them. Foot ball; basket ball; base ball; tennis; golf; skating; valley ball; indoor base ball; playground balls—a full selection of each, priced right.

Popular Priced Moleskin Coat

Chamois Suede Leather Jacket



State Size When You Order

IRI 2907—
Retail value, \$8.00.
Wholesale Price,

\$5.80
Net

Here is a coat that will surprise you for its warmth and quality at our special popular price. It is made of heavy, long-wearing moleskin cloth, and lined with fine quality warm sheepskin. The shawl collar is of deep, warm genuine beaverized clipped sheepskin, and can be brought close to face and neck with loop fastener. Pockets are large and roomy, with leather reinforced openings and fleeced cloth lining. Sleeves have extra warm and heavyweight lining and knit wristlets. The double-breasted feature makes this coat snug and windproof across the chest. A coat hard to equal unless you pay a good deal more. Length is 32 inches, a convenient size for general use. Ship. wt., 4 1/2 lbs. Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Be sure to state chest size when ordering.

For Sports and Outdoor use, this is the dressiest of all garments, and is worn by everybody for golf, tennis, hiking, fishing, hunting, and all athletics. Makes an ideal covering for all but the most severe weather. Made of selected chamois suede skins, golden brown color, and fitted with worsted close fitting knit wristlets, collar and belt. Two large patch pockets with button down flaps. Lining is a very fine quality brown satin. Armholes have ventilating eyelets and are cut full and roomy for ease of movement. Single breasted style. The clinging knit belt keeps the jacket close to the body. Collar can be buttoned up close. Even sizes of chest, 36, 38, 40, 42, 44, 46, 48. State size. Ship. wt., 3 lbs.

IRI 2908—
Retail Price, \$25.00.
Wholesale Price,

\$13.50
Net

You buy this big coat at lowest wholesale here. Retail for \$15.00 to \$25.00

Men's 36-Inch Sheepskin Lined Leatherette Coat

A Big, Roomy Coat at a Wonderful Price!



When a dealer walked into our store the other day and saw this coat, he said: "Mau! What a peach of a coat! But I'll bet it will cost me twenty bucks." When we told him the price, he took six for a starter. "I can sell these easy for \$17.50," he said.

Full 36 Inches Long

Just one look at this wonderful coat will likewise convince you. Full 36 inches long. Made of heavy black leatherette, a material as waterproof as rubber, and soft and pliable for easy body movement. Lined with thick, warm, selected bark-tanned sheepskin pelts, with genuine, beaverized clipped sheepskin collar with loop fasteners. Four big pockets; lower pockets have flaps. Wide all-around belt. All seams double stitched and securely reinforced at all strain points.

Extra Warm Lining

This coat is cut extremely full, giving the wearer full freedom of movement. It is a tremendous value for the money, one that marks it as an outstanding bargain. Unbeatable for sport or work use; something that will appeal to any man looking for an all-purpose coat. Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Be sure to give size when ordering. Take measure over vest. Shipping weight, 7 lbs.

No. 11 R 12904
 Retail for \$15.00 to \$25.00
 Wholesale Price Net

\$11⁵⁰

Be Sure to Give Correct Size

Boys' Corduroy Sheeplined Coats

Corduroy coats for the boys are more popular than ever this year.

This model is an excellent, closely ribbed, thick-set navy blue corduroy, with a warm body lining of selected, bark-tanned, genuine sheepskin. The double-breasted feature and the large shawl collar of genuine beaverized, clipped sheepskin will assure any boy complete protection in wind or snow. Warm heavy sleeve lining. Close-fitting knit wristlets. Arm shields. Made same as men's coat 11R12906 shown on page 201.

Four big pockets. Sizes, 8 to 18 years. Be sure to state size when ordering. Shipping weight, 4 lbs.



No. 11R12909
 Retail at \$9.00

Wholesale Price Net Each
\$6⁷⁵

Boys' Cold and Wind-Proof Moleskin Sheepskin Lined Coat

What boy wouldn't be proud to own one of these husky big coats? Built just like our men's special in every way. The lining is heavy, warm, selected bark-tanned sheepskin, and the sleeves are lined with extra tough, long-wearing cloth. Knit wristlets keep out snow and cold. The big genuine beaverized sheepskin shawl collar can be buttoned up close to the face and neck. Reinforced arm shields. Four big pockets; bottom two with flaps. All-around belt. All seams double stitched. Here is a coat that will stand all the rough usage a boy will give it in chore work, play, or school. Sizes, 8 to 18 years. Be sure to state size. Shipping weight, 4 1/2 lbs.



A Coat Any Boy Will Be Proud to Own

No. 11R12905
 Retail at \$8.00
 Wholesale Price Net Each
\$5²⁵

Here's a Coat
Hard to Equal
for Quality
and Value!



Back to "Pre-War" Quality!!

Full Length; No Skimping!

Every Coat 36 Inches Long

Men's Sheepskin Lined Heavy Moleskin Coat

Considering the price, this is unquestionably the finest sheep lined coat on the market today. It is tremendously popular because, in materials, workmanship and generous size, it is Back to Pre-War Quality. The proof of this is the selected first quality bark-tanned sheepskin body lining, which comes almost out to the edges of the coat at the sides, giving you the same protection as a coat made with sheepskin to one edge—a complete covering for the entire body. Most coats of this price are lined only up to 7 inches of the front, leaving the chest unprotected, the very place where you need the lining most.

Extra Full Sheepskin Lining Covers Your Entire Body

Every sheepskin that goes into the lining of this coat is carefully graded for longest fleece and perfect skins. Every lining is made from fresh selected bark-tanned pelts, cut and fitted by hand. Compare it with other sheep lined coats and you will see how much more sheepskin is used, and how it comes closer to the edges, giving you 100% protection against cold and wind.

The long, genuine beaverized clipped sheepskin shawl collar is crumpled full of snugg, warm comfort. Over 6 inches deep. Thick, heavy, and wear resisting, with strong tabs to keep it close and warm around the throat.

11R12900
Retail Value, \$12.50.
Net, Wholesale, Each

\$9⁵⁰

Strongest Tested Quality Moleskin

The moleskin used is much better than usually found in coats wholesaling at a third more. The fabric is tested, closely woven, 10-ounce moleskin, a fabric that is extremely tough and wear proof.

Coat has four big pockets, heavily lined. Warm muff pockets reinforced with genuine leather. The two lower pockets are also leather reinforced and are provided with flaps. The extra strong wool mixed sleeve lining will wear the life of the coat. Arm shields. Snug-fitting wrists keep out all cold wind.

These coats are extra big and roomy. Easy on and easy off. Wide armholes. Wide overlap of double breasted front gives full chest protection. Double sewed, non-rip seams. Every coat is 36 inches long. Even sizes, chest over vest, 36, 38, 40, 42, 44, 46, 48.

Be sure to state size wanted when ordering. Shipping weight, 7 pounds.

Made to Our Special Order

This coat is of superior quality. It is made over our own specifications, with full lining across the double breasted front, and extra deep collar. We insisted on a coat that would be storm and cold proof, with plenty of roominess and full cut all around, just like they used to be in the good old pre-war days. Here is a garment that is an outstanding value.

Be Sure to
Give Correct
Size When
Ordering

"Big Boy" Moleskin Coat 36 Inches Long; 4 Big Pockets

Guaranteed to be the very finest sheepskin lined moleskin coat. In spite of the extremely low price it is full 36 inches long, giving full coverage, with plenty of room for walking and working.

Made of tough, long wearing heavy dark brown moleskin cloth. The sheep lining is of the finest selected bark tanned pelts, giving snug warmth and complete body protection. The big, wide shawl collar is genuine beaverized clipped sheepskin, and closes up snug and tight with loop and buttons. The sleeve lining is much better and heavier than is found in most coats of this price class. Arm shields. Warm, snug-fitting knit wristlets keep out cold and wind. Four full size pockets, lower pockets with flaps, all reinforced.

You will appreciate the unusual warmth of the double breasted front, which closes with buttons and loops. Wide all-around belt holds coat tight to the body.

The entire coat is cut full and roomy, making it easy to slip on or off, and giving full freedom of movement in every direction. The long fleece heavy lining comes far down the back, giving you "fireside" warmth and comfort in the coldest weather.

ORDER YOUR COAT NOW!

When cold weather sets in you will find the "BIG BOY" a wonderful standby. Settled into its deep, warm depths, and all buttoned up snug, you can laugh at the wind and weather. That's the real test; and you will find "BIG BOY" on the job!

Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Take measure over your vest. Be sure to state size when you order. Average shipping weight, 6½ lbs.

11R12901
Retail Value, \$10.00.
Net, Wholesale, Each

\$6⁷⁵



Our Big Leader!

Genuine Front Quarter Horsehide Coat

If you have never had a garment of horsehide leather, you have overlooked the best wearing material ever put into work or sport clothes. This big 30-inch length coat is a rare combination of wearing quality and cold weather protection that suits every need. When you see this coat, you will say what so many others have said: "How can it be done for the money?" And you will certainly agree that it is worth a lot more than our low price.

Best-Wearing Clothing Leather

Nothing but the best grade Horsehide leather has gone into this coat. It is made only of first quality front quarter horsehide, which is the cream of the entire hide, and is unequaled by any leather for softness, pliability, toughness and durability. The collar is also horsehide.

WARM LINING

The body is lined with 22-ounce wool melton cloth, about 70% wool, the best material known for lining of this kind of coat. Even the sleeves are lined with heavy, warm fleeced twill cloth.

All seams are double-stitched. Extra strong and reinforced at all points of strain. Ventilating eyelets under arm pits.

THREE BIG POCKETS

Coat has three pockets, two lower pockets and one left breast pocket. The wide leather tabs at the back are adjustable, so you can make the coat snug or loose, just as you prefer. Two-button adjustable cuffs, heavily lined, and adjustable to fit the wrists in extreme weather.

A real he-man, big, roomy garment that will please you enormously with the great service and satisfaction it will give.

Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Take measure over vest. Be sure to state size when ordering. Average shipping weight, 6 pounds.



Horsehide is the finest clothing leather—it is wind and rainproof.

left breast
RR12902—
 Retail Value,
 \$18.00.
 Net, Each.,
 Wholesale.

Each
\$12⁷⁵

The heavy Lining and Sheepskin collar make it a garment proof against any kind of weather.



Be Sure to Give Correct Measure When Ordering

Genuine Selected Front Quarter Horsehide! Weatherproof—Rain-proof—Wind-proof! Oil Resisting

Boy! What a champion of a coat! It easily stands head and shoulders above any coat anywhere near the price. It will stand the severest wear you could possibly give any garment. It is bigger, better, roomier. Here is a coat of blast-furnace comfort and warmth, and so generously big that it can't possibly cramp you in any direction. And for added warmth and protection it is lined with 85% wool, blue plaid mackinaw, a lining that will last as long as the coat, and will not bind or "drag" on the garments underneath.

BIG BEAVERIZED COLLAR

Made full 30 inches long, of finest quality genuine front quarter black horsehide. Lining of body is extra heavy 20-ounce mackinaw; sleeves have full Seltia lining. Collar is long shawl style, full genuine beaverized clipped sheepskin, coming far down the front for full body coverage. Fastens at throat with snug-fit button and loops. Two large lower pockets with button down flaps.

Note the wide all-around belt for dressiness. This coat, with a pair of work-and-sport breeches, will give you an outfit second to none. Arm pits have ventilating eyelets. Adjustable sleeve cuffs have double button fasteners that fit up close to the wrists in extreme cold.

DRESSY—ROOMY—PLIABLE

This husky big coat is snappy and dressy looking. It shows class in every inch of its makeup. And combined with its style, it is cut extra full and roomy, especially in the shoulders and under the arms, giving the ease and comfort that every man appreciates. No binding. Made of genuine front quarter horsehide, the most pliable and flexible leather obtainable. Only front quarter horsehide is used in these coats, insuring that they are superior in every way; the best you could possibly buy.

If you were to write us a special request for the finest coat we could possibly furnish, we would immediately send you this coat. The man who owns one can look forward to cold weather with a smile.

Even sizes, chest, 36, 38, 40, 42, 44, 46, 48. Be sure to give size when ordering—take measure over vest. Average shipping weight, 6½ pounds.

RR12903—
 Retail Value, \$25.00.
 Net Price, Wholesale

\$17²⁵

Boxing Gloves for Young and Old

9-Ounce Boxing Gloves Corbett Pattern

Full 9-ounce gloves of wine colored select Napa leather with good quality canvas lining. An excellent glove for all around use. Double row stitching. Well stuffed with finest grade curled hair. Wide padded wrist and stuffed rolled finger grip. Shipping weight, set, 3 pounds.

11R12995—Set of four gloves. List, \$8.00. Net..... **\$4.85**



12-Oz. Training Glove Double Wrist

Double wrist training gloves, full 12-ounce weight. A fine glove for the gym or friendly bout. Made of finest quality Napa leather, green colored, well stuffed with highest grade curled hair. Padded finger grips with extra pad on side of palm. Leather binding and leather lined wrist. Shipping weight, set, 2 pounds.

11R12996—Set of four gloves. List, \$14.50. Net..... **\$7.75**



10-Ounce Boxing Glove U. S. Gov't Pattern

Full 10-ounce glove of fine quality tan Napa glove leather. A fine glove for exhibitions and for the gymnasium. Similar to the gloves used in the Army and Navy bouts. Stuffed with fine curled hair. Canvas lining. Double stitched throughout and rolled leather binding. Well padded wrist. Ship. wt., set, 3 lbs.

11R12997—Set of four gloves. List, \$9.00. Net..... **\$6.75**



\$3.80
Net

7-Ounce Boxing Gloves

Light weight, 7-ounce glove for the ring or hard practice bouts. Of finest quality tan glove leather, made correct in every detail. Canvas lined and stuffed with highest grade curled hair. Well padded laced wrist. Improved style finger grip. An unusually good value. Shipping weight, set, 3 lbs.

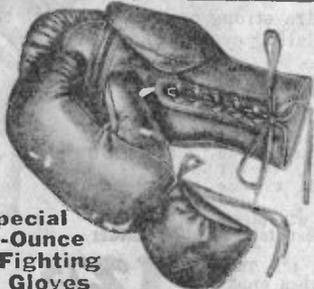
11R13001—Set of four gloves. List, \$5.50. Net..... **\$3.80**



Special 6-Ounce Fighting Gloves

Special 6-ounce fighting glove of specially fine grade wine colored soft glove leather. White leather welled seams, reinforced thumb, 1 1/2" padded wrists for added protection. Leather lined, white rolled leather binding, stuffed with best quality curled hair. Large roony thumb with plenty of play for folding over. Double stitched throughout. Same style as used in championship fights. Will stand a lot of hard usage. Ship. wt., set, 2 pounds.

11R13000—Set of four gloves. List, \$9.00. Net..... **\$6.50**



Youth's Boxing Gloves 5-Ounce

Boys' boxing glove designed by a well known fighter. Of wine colored Napa leather. Well stuffed with good grade hair and canvas lined. Laced wrist style. Fine for youngster just learning to box. Shipping weight, set, 3 1/2 pounds.

11R12998—Set of four gloves. List, \$5.50. Net..... **\$3.39**

4-ounce juvenile boxing gloves. Of good grade glove leather, canvas lined and hair filled. A good size glove for the small fellow. Makes a fine present. Shipping weight, set, 2 1/2 pounds.

11R12999—Set of four gloves. List, \$4.50. Net..... **\$2.73**

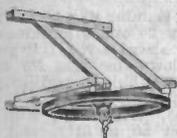


Striking Bag Gloves

These striking bag gloves are made of high grade sheepskin, well padded back. Padded finger grip and elastic wrist strap. A special protection to the user in training or for exercise. Shipping weight, 1 pound.

11R13007—List, \$2.25. Net, per pair..... **\$1.35**

Striking Bag Platforms

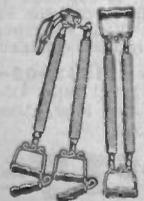


For single end bags. Sturdy ash frame with black enameled pressed steel rim. Adjustable rope swivel.

Very easy to put up for use. Can be shipped by freight or express only. Shipping weight, 13 pounds.

11R13008—List, \$7.50. Net..... **\$3.60**

Three-in-One Exerciser



Springs of tempered music wire. All metal parts nickel plated. Chart included. Three tensions.

11R13009 Medium. List, \$4.50. Net..... **\$2.00**

11R13010 Heavy. List, \$4.75. Net..... **\$2.10**

Striking Bags

For the Home or Gym



Single end bags are shipped complete with pure gum bladder and rawhide lace. Have extra strap rolled, sewed and riveted hanging loops and very large flap to protect bladder. Usually used with a platform. Double end bags are finished with pure gum bladder, elastic cord, hooks and lace. Can easily be installed from ceiling to floor or in a doorway. Elastic cord allows speed of bag to be varied. Bags are carefully designed for speed and balance and made to stand plenty of wear.



Model A Professional

Full size, of heavy weight cream horsehide leather, full lined with triple welled taped seams, turned leather binding. Shipping weight, 2 pounds.

11R13002—List, \$7.00. Net..... **\$4.65**

Model B. Medium size. Slightly smaller than Model A. Select grade wine color Napa leather. Full lined with white welled taped seams, triple stitched. Weight, 1 1/2 pounds.

11R13003—List, \$5.00. Net..... **\$3.35**

Model C. Youth's Striking Bag. Select sheepskin. Slightly smaller than Model B. A fine bag for the youngster to play with. Shipping weight, 1 1/2 pounds.

11R13004—List, \$3.50. Net..... **\$2.48**

Gymnasium Model

Double End Striking Bag. Full size, full lined and made of very high grade black leather. Triple wire welled seams. Large leather inside flap protects bladder. Heavy white leather rolled hanging loops on top and bottom are sewed and riveted. A fine bag for the gym. Ship. wt., 2 lbs.

11R13005—List, \$6.00. Net..... **\$3.75**

Amateur Model, Medium Size Double End Striking Bag of good quality tan Napa leather. Straight seams. Large flap protects bladder. Straps sewed on a p leather boys top and bottom. Shipping weight, 2 pounds.

11R13006—List, \$4.50. Net..... **\$2.75**

"Fore" Economy Golf Outfit

Our "Fore" golf outfit is designed for the beginner or one who wants a low priced set for an occasional game. Consists of brassie, midiron, mashie and putter. Bag of heavy duck in gray, tan and olive, steel stayed and with metal top and bottom. Cowhide leather carrying strap and trimmed with imitation leather. Reinforced grip and full ball pocket. Clubs are shafted of good grade hickory with bell top, red calfskin grips. Heads of forged steel. Persimmon head on brassie. Furnished for either men or women. Ship. wt., complete, 12 lbs. State color of bag wanted and if for men or women.

11 R 12815
Complete outfit.
List Price, \$11.80

\$7⁶⁵
Set
Net



Country Club Golf Outfit

The "Country Club" outfit is one of the most popular sets made. Our price gives you a real saving. Sets like these are excellent for holiday trade, as they are suitable for any golfer. Set consists of the favorite Speedway brassie and three hickory shafted Speedway irons, midiron, mashie and putter, with big roomy 5-inch bag, 35 inches long. Bag of heavy grey duck with black inner cowhide leather top and bottom cuffs. Rustproof metal bottom. Heavy cowhide carrying strap. Large ball pocket and new fitting handle. Clubs have popular bell tops with carefully wound calfskin grips, and are graduated for length, balance and weight. All clubs are hickory shafted. Furnished for men or women. Shipping weight, complete, 14 lbs.

11 R 12816,
List Price,
\$15.00
Each Set

\$9⁸⁶
Set
Net



"Par-Play" Outfit

Here is a golf outfit that any golfer will be proud to own. Makes a fine gift. Set consists of Regal hickory shafted driver and brassie, Regal and Princess Pat second growth hickory shafted midiron, mashie and putter with men's 5-inch or ladies' 4½-inch bag. It is one of our best golf values. Bag is made of heavy water-proofed duck in tan, olive or brown. All leather trimmed, extra large ball pocket, wide cowhide leather carrying strap, steel stayed and the genuine Burr-Key rustproof metal top and bottom. We cannot recommend this set too highly. Furnished in either right or left hand clubs. State whether men or ladies' style and right or left hand clubs wanted. Shipping weight, 15 pounds.

11 R 12817
List Price,
\$26.00 per set

\$17⁴⁶
Set
Net



Bentley Autograph Tennis Racket

\$9⁰⁰
Net



The Bentley Autograph racket is equal to the best racket on the market. Oval frame of second growth white ash in two sections with fibre inlay running around frame. Shoulders reinforced with orange covered nuroid and wound with colored silk windings. Strung with best quality lamb gut. Double center stringing with reinforced cross stringing. Throat reinforced with strip of heavy rawhide. Every racket is carefully inspected and guaranteed to be in perfect condition. Ship. wt., 2 lbs.

11 R 12675—Light weight.
11 R 12676—Medium weight.
11 R 12677—Heavy weight.
List Price, \$15.00. Net Price..... **\$9.00**

Dayton Steel Racket Medium

\$6⁹³
Net



Dayton steel racket finished in silver over-shot with blue at top and throat. Tubular frame, grooved at the top to protect strings. Full size and finely shaped. Six sided handle covered with cork to insure firm grip. This racket is nationally advertised and is extremely serviceable, as it is not affected by rain. The steel wire strings do not require the attention that a gut strung racket does. Accurately balanced. Ship. wt., 2 lbs. Medium weight only.

11 R 12679—List, \$10.00. Net.. **\$6.93**

Climax Racket

\$3⁰⁰
Net



Our Climax Tennis Racket has proved to be the most popular racket. Designed for the beginner, but strong enough for the more experienced player who does not play so often. It is a quality racket in every respect. Frame beveled on inside and made of the finest grade Canadian white ash. Throat and shoulders are reinforced to give additional strength. Double center stringing of good grade oriental gut. Colored Duco shoulder bindings add beauty to the racket. Full size cedar handle. Leather butt band. This will prove to be one of your best holiday items. Shipping weight, 2 pounds.

11 R 12663—Light weight.
11 R 12664—Medium weight.
11 R 12665—Heavy weight.
List Price, \$5.00. Net Price..... **\$3.00**

Charley Root Model Popular Fielders' Glove

A very popular glove made to the exact specifications of Charley Root of the Chicago Cubs, and bears his autograph. Made of selected oil treated horsehide, leather lined throughout, welted seams, rawhide laced heel, and adjustable rawhide lace between thumb and forefinger. Correctly felt padded to form deep natural ball pocket. An exceptionally fine glove in every detail. Ship. wt., 1½ lbs.

11 R 12940—List, \$5.00.
Net **\$3.65**



Fielders' Gloves

Professional model fielders' glove of fine oil treated tan horsehide. Full size and full leather lined. Welted seams and rawhide laced heel. Adjustable rawhide lace between thumb and first finger. A well made glove. Shipping weight, 1½ pounds.

11 R 12941—List, \$4.75. Net **\$2.65**

Full size fielders' glove of black horsehide with welted seams, leather web between thumb and finger and laced heel. A very good value. Ship. wt., 1½ lbs.

11 R 12942—List, \$2.75. Net **\$1.97**



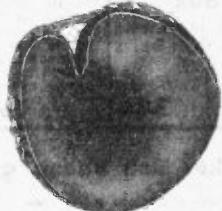
Catchers' Mitts

Professional model catchers' mitt made of genuine cream cowhide, rawhide laced edge and forefingers. Heavily padded natural ball pocket. Leather strap and wrist buckle. The glove is very carefully made and will please any player. Shipping weight, 2¼ pounds.

11 R 12943—List, \$6.00. Net **\$2.60**

Junior professional model. Here is a glove that any boy will be proud to play with. Medium size and made of black sheepskin. Rawhide laced all around. Well padded and deep ball pocket. Shipping weight, 1¾ pounds.

11 R 12944—List, \$4.00. Net **\$1.75**



Genuine Stanley Vacuum Bottles

Non-break steel vacuum bottle. Keeps contents hot 18 hours or cold 36 hours. Black enamel finish with nickel plated cup and base. Guaranteed unbreakable. Makes a very good holiday item and is a good steady seller the year around.

11 R 12576—Pint size. Shipping weight, 3 pounds. List, \$7.00. Net **\$5.65**

11 R 12577—Quart size. Shipping weight, 4 pounds. List, \$8.00. Net **\$6.60**

11 R 12578—Two-Quart size. Shipping weight, 6 pounds. List, \$10.00. Net **\$8.50**



We Pay Freight As Per Offer Given on Page 260



Valve Type

"Piggie" Lambert Official Basket Ball

"Piggie" Lambert Official Intercollegiate Basket Ball. Made of the finest quality English leather with valve type stemless bladder and rawhide laced, ready to inflate. Designed by the famous coach of championship basket ball teams at Purdue University, and are guaranteed official for any contest. All seams inside are rounded and flattened down. We do not know of any better ball made. Bladder easily replaced. Ship. wt., 1 1/2 lbs.

IR12953—List, \$21.00. Net, \$14.00

Official Basket Ball—Valve Type of finest quality select tanned Gunnison leather, canvas lined. Complete with heavy pure gum four piece bladder. Ship. wt., 1 1/4 lbs. Net, \$9.35

Regulation Basket Balls

Regulation Basket Ball of a very good grade of leather in eight sections. With valve type stemless bladder and rawhide laced, ready to inflate. An unusually good ball at this price. Shipping weight, 1 1/4 lbs.

IR12951—List, \$9.00. Net, \$6.50

Regulation Basket Ball of pebbled cowhide leather with stem type bladder and lace. Shipping wt., 1 1/4 lbs.

IR12952—List, \$4.50. Net, \$3.00

Dubow DB9 Official size but slightly lighter in weight. Heavy canvas lining, waxed linen thread stitched, guaranteed satisfactory in every way, made in eight sections. Complete with four-piece pure gum bladder, rawhide lace and lacing needle.

IR12945—List, \$7.00. Net, \$4.35

Dubow 432—Regulation size of pebbled cowhide leather, lined with good strong lining, well made up and correct in shape. Complete with pure gum bladder and lace.

IR12946—List, \$4.50. Net, \$2.78

Dubow 431—Slightly smaller than regulation, but made of finest pebbled grain cowhide. This ball knows how to make baskets, at all times.

IR12947—List, \$3.25. Net, \$1.96



Sweat Sox

Cotton inner sox to be worn with footless shoe. Ship. wt., 3 oz. Sizes, 9 to 12.

IR13038—List, Pair, 50c. Net, Pair, 32c



\$1.95 Net

These shoes are made especially for us by a company known the country over for the excellence of their athletic shoes. Superior wearing qualities and are designed to give the utmost in comfort. Suitable for outdoor wear as well as basketball. Ship. wt., per pair 3 lbs. Sizes: 5 to 11 1/2. State sizes wanted.

Basket Ball Shoe

Blucher style, white heavy duck uppers. Pressure cured soles. Very durable. Dark grey double gum forcing. Double toe strip. Extra long heel. Won't slip. Positive grip. Ship. wt., 2 1/2 lbs.

IR12969—List, \$3.50. Net, \$1.95

5 pair or more. Net, \$1.88.



Outdoor Basket Ball

Official Outdoor Basket Ball of English tanned leather in four sections with cowhide ends. Sewed with heavy thread and designed for outdoor use. Will stand up under hard wear. Stem type bladder of extra heavy pure para rubber. This ball is extra well made and is official for use in playgrounds using an outdoor ball. Each ball packed with rawhide lace and Stall and Dean No. 1.

IR12955—List, \$15.00. Net, \$9.35

Regulation Outdoor Basket Ball. Made of good quality tanned pebble grained cowhide. Complete with bladder, lace and needle. A good ball for outdoor practice.

IR12956—List, \$10.00. Net, \$6.60

Training Shirts



Training or sweat shirt. Of good grade cotton with full fleece lining. Brown-gray color only. Low collar with long sleeves. An excellent shirt for athletic training purposes and outdoor work. Ship wt., 1 1/2 lbs.

EVEN SIZES: 28 to 44-inch chest. State size wanted.

IR12961—List, \$1.50. Net, \$1.10

Training Pants

Fleeco lined sweat or training pants. Brown-gray color only. Medium weight cotton. Drawstrings at top and bottom. Very good for general training, especially basket ball and track. Shipping weight, 1 1/2 lbs. Sizes: Small (30 to 31-inch waist), Medium (34 to 38) and Large (38 to 44 waist). State size wanted.

IR12962—List, \$2.75. Net, \$1.85

Colored Athletic Hose

Popular footless style hose of finest quality wool. Heavy ribbed knit. In two styles: 2 inch calf stripe and 1 inch stripes above and below or half and half pattern. Suitable for football or basketball. Ship. wt., pair, 1 lb.



Navy blue and white Maroon and white Black and orange Kelly and white State color and pattern. IR13037—List, \$2.00. Net, \$1.30

Basket Ball Shoes \$3.38 Net



Airwave Basket Ball Shoe

Form fitting, light as a feather, non chafing. May longer without tiring. Brown upper reinforced with saddle strap. Ankle patch. Full length back stay protects tendon in heel. Armstrong Korzole insole. Pliable rubber sole. Non-skid, instant grip. Last for several seasons. Won't rip or pull apart. Ship. wt., 3 lbs.

IR12970—List, \$5.00. Net, \$3.38

5 pair or more. Net, \$3.10.

Striped Athletic Shirts

Colored basket ball shirts of highest quality medium weight worsted. Popular double V neck style of contrasting color and with one inch stripe above and below four-inch stripe. Cut and fashioned to give the correct fit. Cut low under arms with long body which fits well down into pants. Carried in the following colors: Navy Blue and White stripe, Maroon and White stripe, Black and orange stripe, Kelly green and white stripe. Even sizes: 28 to 42-inch chest measurement. State size and color. Shipping weight, 1 1/2 lbs.



IR12957—List, \$3.75. Net, each, \$2.25

Solid Color Shirts

Colored basket ball jersey of heavy weight mixed worsted. Round neck style. Low cut arms. Long body fits well into pants. Carried in the following colors: Navy Blue, Orange, Kelly Green and Cardinal. Even Sizes: 28 to 42-inch chest. State color and size wanted.

IR12958—List, \$2.25. Net, each, \$1.50

Basket Ball Pants



Regulation Basket Ball Pants. Made of special khaki cloth with loose hanging hip pads sewed at waist band. Loose fitting, fly front, with belt buckle attached to pants. Very serviceable. Ship. wt., 1 lb. EVEN SIZES: 26 to 38 inch waist measure. State size wanted.

IR12963—List, \$1.75. Net, Pair, \$1.20

Varsity Basket Ball Pants. Same style as above, except made of the popular suede cloth. Ship. wt., 1 lb. Carried in following colors: Navy Blue, Maroon, Kelly Green and Orange. EVEN SIZES: 26 to 38 inch waist. State size and color.

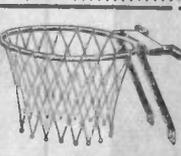
IR12964—List, \$2.25. Net, Pair, \$1.50

Flannel Basket Ball Pants. Same style as above. Of extra fine grade wool flannel. Ship. wt., 1 lb. Carried in same colors and sizes as IR13054. State size and color wanted.

IR12965—List, \$3.50. Net, Pair, \$2.35

B. B. Goals Regulation Size. Heavy gauge iron frame. Complete with woven net. Ship. wt., 15 lbs.

IR12959—List, \$6.50. Net, \$5.75



B. B. Goals Regulation Size. Heavy gauge iron frame. Complete with woven net. Ship. wt., 15 lbs. IR12959—List, \$6.50. Net, \$5.75

REFEREE'S WHISTLE

Loud shrill tone for referee, police, etc. Heavy nickel plated. Ship. wt., 3/4 lbs. IR12960—List, 45c



Basket Ball Knee Pads

Roll style knee pad of black Napa leather with top and bottom elastic supporting bands. Ship. wt., 1 lb. IR12967—List, \$3.75. Net, \$3.00.

Of fine brown leather with soft yielding elastic lining. Absorbs shocks. Fits snugly without binding. Wide elastic bands at each end. Ship. wt., 1 lb. IR12966—List, \$3.00. Net, Pair, \$2.25



Planert's Winner Tubular Skates

\$5⁴⁰

Pair
NET



Best Quality
Leather Shoes



Light Weight—
Strong and
Speedy



Men's Racers

Planert's Winner Racing skates are made of the finest materials and guaranteed to give satisfaction. Electrically welded and reinforced throughout. No open seams. Shoes of select grade leather with webbed reinforcements and long inside counters. Felt padded tongue. Shipping weight, 4½ lbs. Order a half to one size larger than regular shoe. Sizes 5 to 11. No half sizes.

IRI2971—Aluminum Frame, List, \$8.00, Net, pair..... **\$5.40**
IRI2930—Nickel Plated Frame, List, \$9.50, Net, pair..... **\$6.60**

Men's Hockey

Planert's Winner Hockey skates are one of the most popular skates in the country. Electrically welded and soldered throughout. No open seams. Shoes of select grade leather with webbed reinforcements and long inside counters. Felt padded tongue. Ship. wt., 4½ lbs. Order a half to one size larger than regular shoe. Sizes 5 to 11. No half sizes.

IRI2972—Aluminum Frame, List, \$8.00, Net, per pair..... **\$5.40**
IRI2931—Nickel Plated Frame, List, \$9.50, Net..... **\$6.60**

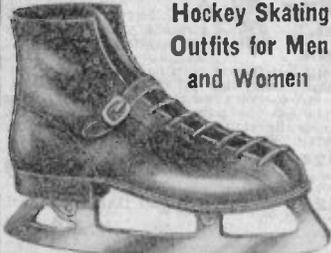
Women's Hockey

Planert's Women's Hockey skates are the same as men's except for high top shoe. Ship. wt., 4½ lbs. Order a half to one size larger than regular shoe. Sizes 3 to 8. No half sizes.

IRI2973—Aluminum, List, \$3.00, Net, per pair..... **\$5.40**
IRI2932—Nickel Plated Women's Racing Skates, Frame, List, \$9.50, Net, per pair..... **\$6.60**

Some as men's racing skates except for high uppers. Ship. wt., 4½ lbs.
IRI2974—Aluminum Frame, List, \$3.00, Net, per pair..... **\$5.40**
IRI2933—Nickel Plated Women's Racing Skates, Frame, List, \$9.50, Net, per pair..... **\$6.60**

Hockey Skating Outfits for Men and Women



Skate of specially hardened steel, nickel plated and buffed. Hockey style. Shoes in of soft black pliable leather with strong Goodyear welt sole. Felt padded tongue; web tape reinforcements. Ankle straps attached. The ¾ inch heel places the foot in natural position. Ship. wt., per pair, 4½ lbs. EVEN SIZES: 1 to 12. State shoe size wanted. No half sizes.

IRI2975—List, \$7.00, Net..... **\$3.85**
For Women and Girls
Same as above except high top shoe. Sizes 1 to 9. No half sizes.
IRI2976—List, \$7.00, Net..... **\$3.85**

Skate Guards



Patented adjustable skate guard. Of highest grade leather. Rear strap has adjustable fastener. Guard protects the blade. Ship. wt., ½ lb.
Furnished in three lengths: 12, 14 and 16 inches. State length wanted.

IRI2977—List, \$1.50, Net..... **75c**

Boys' Leather Skating Helmets



Made of finest soft glovo leather with warm lining. Adjustable chin fastener. Just the thing for the young boy. Ship. wt., 3 lbs.

Sizes: Small, medium and large. State size wanted.
IRI2978—List, \$3.00, Net..... **\$1.45**

Official Indoor Balls

Horseshoe cover with best grade curled hair. Shipping weight, 1 lb.

IRI2981—11 inches, List, \$2.50, Net..... **\$1.87**
IRI2982—11-in., List, \$2.00, Net..... **\$1.25**



Official Playground Ball

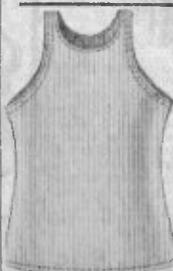
Official outseam ball of new construction with cork center and cork wound on it, covered with horseshoe. A very lively ball. Ship. wt., 1 lb.
IRI2983—14-inch, List, \$2.25, Net..... **\$1.60**
IRI2984—12-inch, List, \$2.00, Net..... **\$1.28**



Official Indoor Bat

Second growth ash, regulation bat, natural finish with taped handle. Light and strong. Shipping weight, 2 pounds.
IRI2989—List, \$1.00, Net..... **72c**

Plain White Athletic or Gym Shirts



Fine quality shesolun plain white shirts with double stitch and heavy hemming. Low cut under arms and neck. Plenty of live springy stretch. Even sizes 28 to 42-inch chest. State size shipping wt., each, 12 oz.
IRI2939—List, \$1.00, Net, each..... **45c**

Clamp Skates



Hockey style clamp skates of cold rolled steel top plates and screw clamps. Polished steel blades. Screw clamps at toe and heel. This is a very popular skate with the youngsters. Shipping weight, per pair, 4½ pounds.

Sizes: 8 to 12 inches. State length of shoe in inches from heel to toe.
IRI2979—List, \$2.00, Net..... **\$1.15**

Clamp Skates for Women and Children

Hockey style skates with high leather heel band with strap and buckle to protect the ankle. Top plate and screws of cold rolled steel with polished steel runner. Shipping weight, pair, 4½ pounds.

Sizes: 9 to 11 inches. State length of shoe in inches from heel to toe.
IRI2980—List, \$2.50, Net..... **\$1.45**

Volley Balls



Regulation volley ball of high grade select white leather with valve type seamless bladder. Laced ready to inflate. Excellently well made. Ship. wt., 1½ lbs.

IRI2991—List, \$8.00, Net..... **\$4.55**

Regulation ball as to size and weight of drab horseshoe. Complete with pure gum bladder, leather lace and lacing needle. Shipping weight 1½ pounds.
IRI2992—List, \$6.50, Net..... **\$3.90**

Volley Ball Net

Official Volley ball net, 27 feet long. Of good grade cotton twine. Shipping weight, 1½ pounds.
IRI2993—List, \$2.50, Net..... **\$1.45**

Gym or Running Pants

Regulation track or gym pants of fine white cotton. With fly front and lace back. Ship. wt., pair, 12 oz.
EVEN SIZES: 26 to 38-inch waist measure. State sizes wanted.
IRI2994—List, 75c, Net..... **50c**



Soccer Balls



Regulation Soccer Ball, 12 pieces of highest grade American rebbed cowhide, in eight sections. Complete with pure gum bladder lace and lacing needle. Ship. wt., 1½ lbs.

IRI2985—List, \$10.00, Net..... **\$6.45**

Regulation soccer ball of finest grade American rebbed cowhide, in eight sections. Complete with pure gum bladder lace and lacing needle. Ship. wt., 1½ lbs.
IRI2986—List, \$8.00, Net..... **\$5.25**

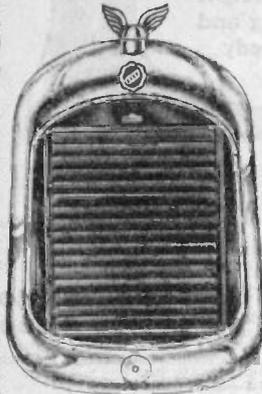
Soccer ball same as IRI2985 except of rebbed sheepskin. Shipping wt., 1½ lbs.
IRI2988—List, \$4.50, Net..... **\$3.40**

Genuine "Bike" Supporter



The most popular supporter on the market. Strong, elastic, weighing a bout 3 lb., wide. Suitable for all athletic games. Ship. wt., 8 oz. Carried in small, medium and large sizes. State size.
IRI2990—List, 75c, Net..... **40c**

Radiator Shutter



Here is one of our shutters on a Chrysler radiator with the vanes closed. The neat, built-in appearance makes this sturdy shutter an improvement to the beauty of any car.

Built Right—for All Cars

A cold weather driving necessity—it checks the flow of cold air through the radiator, heats the motor and maintains the most efficient driving temperature. The motor runs better; gas is saved; the use of the choke is practically eliminated; crankcase dilution is lessened and excessive carbon is prevented.

Finished in baked-on black enamel, durable and easy to keep clean. Frame vanes are all stamped; of highest quality cold rolled steel. The patented bearings are solid brass and cannot rust or stick.

Clamp-on Dash Control

Regulated by a clamp-on dash control. A flexible galvanized cable, entirely hidden, passes from control to shutter. Self locking to eight different positions; an adjustment for every weather condition.

Stream Line Vanes

Only our shutter possesses the distinctly advanced streamline vanes of cold rolled steel. Non-sticking, non-rattling. Their construction eliminates all wind-flutter.

Shutters Make Driving More Pleasant

More and more shutters are being sold each year for motorists have learned their great value far exceeds the small cost.

Striking beauty characterizes our line of shutters. It has that built-in appearance, even in the finest cars. A decided improvement to the beauty of any car.

Cat. No.	Car—Model	Year	List	Net
8R9846	Bulck—All 1929	1929	\$10.00	\$7.85
8R9901	Bulck Std. 6	1926-27	10.00	4.96
8R9900	Bulck Master 6	1926-27	10.00	4.96
8R9847	Chevrolet H A 4	1927	7.00	4.58
8R9848	Chevrolet A 4	1928-29	7.00	5.60
8R9903	Chevrolet KV4	1925-26	6.00	2.35
8R9849	Chrysler 65	1929	10.00	7.85
8R9834	Chrysler De Soto	1929	10.00	7.85
8R9905	Chrysler 58-60	1925-28	8.00	4.96
8R9906	Chrysler 70	1926-28	10.00	4.96
8R9907	Chrysler 70	1927	10.00	4.96
8R9908	Chrysler 50	1926-28	8.00	3.55
8R9909	Dodge—Senior 6	1927	10.00	6.53
8R9815	Dodge 4 Cyl. Std.	1929	10.00	7.85
8R9816	Dodge 6 Cyl.	1928	10.00	6.53
8R9817	Dodge—Vic.	1928	10.00	6.53
8R9818	Dodge—Truck	1927-28	10.00	6.53
8R9917	Dodge 4 Cyl.	1923-27	7.50	3.35
8R9919	Erskine-6	1927	7.50	4.96
8R9820	Erskine-6	1928	7.50	4.96
8R9821	Erskine-6	1929	9.00	6.53
8R9822	Star Durant	1928	10.00	7.85
8R9823	Ford Model A	1928	6.50	5.22
8R9324	Hupmobile 6	1929	10.00	7.85
8R9915	Hupmobile A6	1926-28	10.00	4.96
8R9916	Hupmobile K8	1926-28	11.00	5.15
8R9825	Nash-Ajax Light 6	1926-27	8.00	5.22
8R9826	Nash—Spec. 6	1926-27	8.00	5.22
8R9917	Nash Light Six	1928	8.00	5.22
8R9918	Nash Spec. 6	1928	8.00	5.22
8R9919	Nash Advanced 6	1928	10.00	6.53
8R9827	Nash Advanced	1926-27	10.00	6.53
8R9828	Nash Standard	1929	10.00	7.85
8R9829	Nash Special	1929	10.00	7.85
8R9830	Nash Advanced	1929	11.00	8.79
8R9923	Oakland	1926-27	10.00	6.53
8R9831	Oakland	1928-29	10.00	6.53
8R9925	Overland 91-92 4 Cyl.	1925-26	7.50	3.35
8R9926	Overland 93-6	1926-27	7.50	3.35
8R9919	Moon 60-6	1926-27	10.00	4.96
8R9924	Oldsmobile	1926-27	10.00	6.53
8R9832	Oldsmobile	1928	10.00	6.53
8R9929	Packard—6 Cyl.	1927	12.00	7.84
8R9833	Packard—6 Cyl.	1928	12.00	7.84
8R9932	Paige—6 Cyl.	1927	8.00	5.22
8R9932	Paige—6 Cyl.	1927	10.00	6.53
8R9933	Pontiac—6 Cyl.	1926-27	10.00	4.96
8R9805	Pontiac—6 Cyl.	1928-29	8.00	5.22
8R9806	Plymouth (Chrysler)	1929	10.00	6.53
8R9934	Reo (and speed wagon)	1926-27	10.00	6.53
8R9935	Reo Flying Cloud	1927-29	10.00	7.85
8R9936	Reo Wolverine	1927-29	10.00	7.85
8R9937	Star—4 and 6 Cyl.	1926-27	7.50	4.96
8R9938	Studebaker—Std. 6	1926-27	12.00	7.84
8R9939	Studebaker—Spec	1926-27	12.00	7.84
8R9940	Studebaker—Big Six	1925-27	12.00	7.84
8R9807	Studebaker—Dic. and Com	1928	10.00	6.53
8R9808	Studebaker—President	1928	11.00	7.18
8R9909	Studebaker Dic.	1929	11.00	8.79
8R9814	Studebaker Comm	1929	11.00	8.79
8R9800	Studebaker—Pres.	1929	11.00	8.79
8R9942	Whippet—4 and 6 Cyl.	1926-28	7.50	4.96
8R9801	Whippet—6 Cyl.	1929	7.50	6.05
8R9943	Willys Knight 65-66-66A-6 Cyl.	1925-28	10.00	4.96
8R9944	Willys Knight 70-70A	1926-28	10.00	4.96

Dole Leak-Proof Primer

Instant starting—even on the coldest day. One stroke of the Primer control sprays vaporized gas into the manifold and the engine starts at the first touch of the starter button.



Saves battery, oil and gas. The old fashioned "choke" is completely eliminated. A patented design which prevents leakage or syphoning of gas makes the Dole superior to other primers. Easy to install. Shipping weight, 1 1/2 lbs. State make and model of car.

8R9353—For Fords. List, \$4.50. Net, each **\$3.56**

8R9354—For all other cars. (State make and model.) List, \$5.00. Net, each **\$3.79**

Imperial Primer—for All Cars

\$3.18
Net, Each



You will get instant starting, even on the coldest days. Saves the battery and prevents flooding crankcase with raw gas. Operates by pulling out plunger—the pump does the priming and automatically shuts off absolutely tight. Easy to install. For all cars with vacuum tanks.

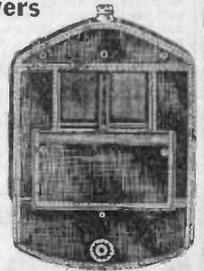
8R8249—For all Model "T" Fords. List, each, \$5.00. Net, each. **\$3.79**

8R8250—For all cars other than Ford. List, each, \$5.00. Net, each. **\$3.79**

8R8284—For Model A Ford. List, \$5.00. Net, each. **\$3.79**

Radiator Covers

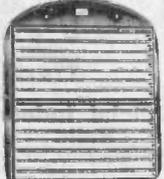
This cold weather necessity keeps a hot motor at the proper temperature. The heat is kept in and the cold is kept out by the durable water-proof, rubberized fabric which is lined with heat resisting, heavy kersey material. Ventilation regulated by two piece curtain with strongly reinforced openings. Easily attached.



Model	Year	List	Net
8R9367	Ford, 1924-25	.....	\$1.10
8R9368	Ford, 1926-27	.....	1.10
8R9369	Bulck Master 6, 1926-27	.....	2.35
8R9356	Chevrolet A. A. 1926-27	.....	2.30
8R9357	Chrysler 50, 1926-27	.....	2.30
8R9358	Dodge 4, 1924-25-26-27	.....	2.30
8R9359	Maxwell, 1922-23-24	.....	2.30
8R9360	Overland 4, 1923-24-25-26	.....	2.30
8R9361	Overland 6, 1925-26	.....	2.30
8R9362	Star 4 and 6, 1926	.....	2.30

Straight Pull Cable

No grating sound here. A gentle pull on the control places the Shutter in any position easily and quickly.



Open Until Closed

No overheating. Shutter can be kept on during summer as practically all of radiator is exposed when Shutter is open.

Alcohol and Glycerine Non-Freeze Solution



Lasts longer than alcohol, costs less than glycerine, free flowing, non-destructive. Absolutely the most satisfactory non-freeze solutions obtainable. Makes winter driving a pleasure. Ship. wt., 10 lbs. 8R9798 Gallon can. List \$2.00. Net Each **94c**

New Day Timer

Fits all Ford and Fordson Motors. Cannot jump or miss. Lasts for years. Uniform pressure, self cleaning. No oil needed. 8R9023—List, \$1.75. Net **98c**



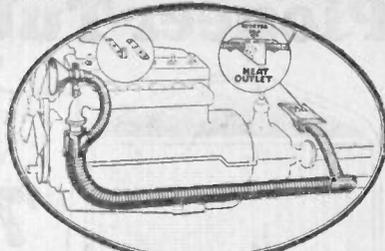
Ford Timer

Fits all "T" models, standard design. 8R9022. Net Each **37c**



Forced Draft Auto Heaters

A well known, popular type of heater for practically all makes of cars. Made on an entirely new design, these heaters produce a quick, sure, clean heat. Absolutely no gas or fumes of any kind. A flexible tubing covers the exhaust pipe. A large air-receiving funnel is attached close to the fan of the car, which forces clean, pure air to be heated over the exhaust pipe and then projected into the car. Does not interfere with the manifold in any way. A by-pass in the register box which is located under the driver's feet shuts off the heat under the car when the register is closed. Quickly and easily installed. Average shipping weight, 10 lbs.



8R9850 List, \$6.50.
 Chrysler 50, 52, 58.
 Whipplet 4, 1926-28.
 Whipplet 6, 1927.
 Whipplet 6, 1928.
 Ship. wt., 10 lbs.
Each \$4.65
 Lots of 6, Each \$3.82

8R9851 List, \$7.50.
 Buick Std. 6, 26-28.
 Chrysler 60 and 62.
 Chrysler 70 and 72.
 Oakland 1928.
 Pontiac 1927-28.
 Star 4 and 6, 25-27.
 Durant 4, 1928.
 Durant 6, 55 and 65.
 Willys 70 and 70A, 27.
 Willys 66 and 70, 1923.
 Ship. wt., 10 lbs.
Each \$4.88
 Lots of 6, Each \$4.41

8R9852 List, \$8.00.
 Star 4 and 6, 1923.
 Moon 6-60, 1927.
 Nash, Std. 6, 27-29.
 Ship. wt., 10 lbs.
Each \$5.25
 Lots of 6, Each \$4.70

8R9853 List, \$8.50.
 Auburn 76, 1928.
 Erskine 6, 27-28.
 Graham-Paige 610, 28.
 Hudson, 25-28.
 Hup 6, 1926-28.
 Marmion 8, 68 and 78.
 Olds, 1926-28.
 Stude. Std. 6.
 Stude. Dictator.
 Ship. wt., 10 lbs.
Each \$5.51
 Lots of 6, Each \$5.00

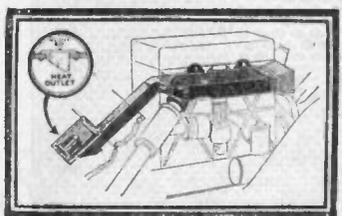
8R9859 List, \$9.00.
 Buick Master 6, 1925-26-27-28.
 Chandler Spec. 6, 28.
 Chandler Standard 6, 1927.
 Chandler Big 6, 28.
 Moon 6-72, 1928.
 Moon 8-80, 1928.
 Reo Speed Wagon, 6, 1 1/2-3 Tons.
 Reo Wolverine and Flying Cloud.
 Reo Speed Wag. 1 1/2-1 Ton.
 Stude. Com. 6.
 Ship. wt., 10 lbs.
Each \$5.88
 Lots of 6, Each \$5.29

8R9861 List, \$10.50.
 Gardner Str. 3, 75 and 85, 1928.
 Gardner Str. 8, Model 85, 1928.
 Stude. Pres. Str. 8.
 Velie 6-77, 1923.
 Velie 8-88, 1928.
 Ship. wt., 10 lbs.
Each \$6.79
 Lots of 6, Each \$6.17

8R9858 List, \$7.00.
 Dodge, All 4 and 6, 1924-28 Models.
 Ship. wt., 10 lbs.
Each \$4.60
 Lots of 6, Each \$4.12

8R9860 List, \$10.00.
 Auburn 88, 1928.
 Auburn 115, 1928.
 Peerless 6-80, 1928.
 Peerless 6-80, 1928.
 Peerless 6-91, 1928.
 Ship. wt., 10 lbs.
Each \$6.53
 Lots of 6, Each \$6.17

NOTE:—
 Be Sure to State Make, Year and Model of Car When Ordering.



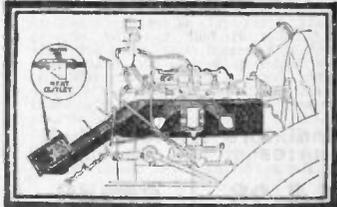
Model for All Chevrolets

Chevrolet 1924-1927
 A cast iron manifold replacement for the regular Chev. equipment. Extra big heating capacity. Ribbed outside gives a d e e d heating surface. Cannot leak or cause fumes. Ship. wt., 8 lbs.
8R9856—List, \$6.00. Each Net \$3.76
8R9857—List, \$6.50. Each Net \$3.95
 Lots of 5, Each \$3.82

An improved heater, made to match the new Chevrolet manifold for 1928, gives an abundance of clean, pure heat. Funnel close to fan forces maximum of heat into car. Heavy cast iron construction. Easily installed. Shipping weight, 8 pounds.

Model for All Fords

For Model "T" Fords
 Gives a steady supply of clean, pure air. Register is in front center of car between driver and passenger. Heavy sheet metal construction. Quickly installed. Ship. wt., 8 lbs.
8R9854—List, \$2.50. Each Net \$1.75
 Lots of 6, Each \$1.62



Makes the car very comfortable in cold weather. Each Register in floor board. Cannot leak or rattle. Heavy sheet metal construction. For all Model A Fords which house the regular manifold. Shipping weight, 8 pounds.
8R9855—List, \$3.00. Each Net \$2.10
 Lots of 6, Each \$1.92



Built Like a Steam Radiator

Genuine "Vapor" Heater

There is nothing to worry about when you install a Vapor Heater in any car. It is as dependable and as safe as the steam radiator in a home. With steam as its principle, it provides comfortable heat, quickly, in any car. There are no odors, no dirt, no poisonous fumes, no "eye smart" or headaches. The occupants of the car equipped with a Vernay, experience a delightful warmth, even in the coldest weather. The heat is easily regulated and can be shut off by arm on end of heater. The heater cannot turn on by itself.

The Best Is Always the Least Expensive

There is no substitute for quality. The Vapor has always led the field of quality heaters. The owner of a Vapor soon feels repaid for the slight extra cost in ever increasing satisfaction and comfort. This heater possesses at least ten features not found on most heaters: 1—One model for all cars. 2—Plenty of heat in a few minutes. 3—Positively odorless. 4—No valves to stick. 5—No danger of fire. 6—Uniform heat. 7—Positive shut-off. 8—Exceedingly simple. 9—No after service. 10—Installed in quick time. When you consider all these features carefully, you will realize that this is the heater to sell to your best customers.

Choice of Two Sizes

All Vapor heaters are complete with necessary fittings and instructions. Large size is 2 1/4 x 4 1/2 x 2 3/4 inches wide. Shipping weight, 10 pounds. The large size is 3 1/4 x 4 1/2 x 2 3/4 inches. Shipping weight, 8 pounds.
8R9168—Large size—List, \$22.50. Net, \$17.95
8R9188—Small size. List, \$15.00. Net, \$11.90

Famous "RAPID" Quick Heaters

"RAPID" quick heaters are acknowledged to be among the best of their type. Their patented construction permits the use of practically ALL of the exhaust gases. It also provides sufficient heating power to warm the entire inside of the car. "RAPID" heaters are known as quick heaters, and they merit their name. Very few heaters distribute the heat as quickly. They are positively odorproof and will not rattle. The control valve, of high quality, is always handy to the driver and works through the floor board of car. All "RAPID" heaters are quickly installed.



Foot-Rail Heel Board Style
 A practical, convenient, and efficient heater that adds comfort to any car. Finished in attractive, lasting black enamel. Equipped with Universal valve which fits any car regardless of size of exhaust pipe. Dimensions: 10 in. long x 4 1/2 in. wide x 2 1/4 in. high. Complete ready to install. Ship. wt., 10 lbs.
8R9868—List, \$7.50. Net, Each \$5.35



Flush Register Type
 Specially designed for coupes and small sedans. The large register lets in a tremendous supply of comforting warm air. Neat and distinctive in appearance, this heater sets flush with the floor of the car. Gives full advantage of floor space in car. Finished in durable black enamel. Dimensions: 13 1/2 in. long x 6 3/4 in. wide. Complete, ready to install. Equipped with Universal valve which fits any car regardless of size of exhaust pipe. Ship. wt., 10 lbs.
8R9869—List, \$10.50. Net, Each \$8.73



Shows Simple Installation

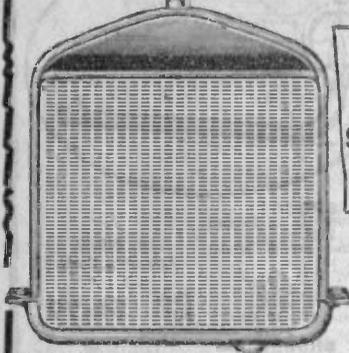
Brake and Pedal Boots



Keeps out the cold and dust. Does not hinder operation in any way. Made of Genuine Leather lined with sheep's wool, yet soft for no more than imitation leather sets. Easily installed. Simply slip over, and tighten metal band.
8R9128—List, \$1.50. Net, 95c

Pioneer Tubular Radiators FOR FORDS

Guaranteed Crack-Proof—Extra Capacity



For Ford
1917-1923
Less Shell

\$7⁸⁵
NET

Pioneer Tubular Radiators are without a doubt the finest replacement radiators made. Their superior construction, their enormous cooling capacity, and their many other superior features place them far ahead of any other radiators sold at anywhere near our low price. Compare them with any other high grade radiator and be convinced.

Pioneer Radiators are built for service. Made of the finest brass and copper with a special alloy bottom that cannot corrode or rust. The cores are guaranteed against breakage due to freezing. The new flat type tubes are single seam and double soldered. These tubes give the greatest possible cooling efficiency and allow for expansion and contraction which prevents bursting due to freezing.

Possessing all these outstanding features you can readily see why Pioneers excel them all—order yours now—get your share of the profits which only Braum can give. Be sure to state year, make and model of car when ordering. Shipping weight, about 25 pounds.

Radiators Without Shell

8R10590
For 1917-23 Fords

\$7⁸⁵
Each Net

8R10591
For 1924-27 Fords

\$8²⁵
Each Net

Radiators With Shell

8R10592
For 1923 Fords

\$8⁶⁰
Each Net

8R10593
For 1924-27 Fords

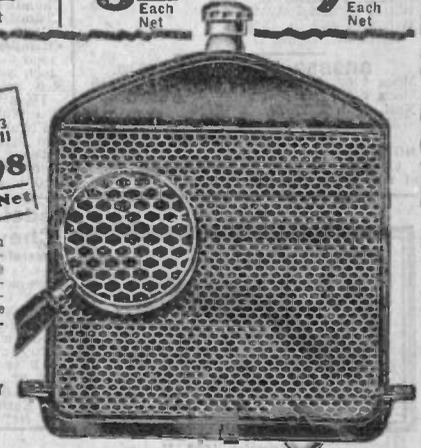
\$9⁰⁵
Each Net

Pioneer Honeycomb Radiators

For Model T Fords

In design, service and efficiency Pioneer Honeycomb Radiators stand with the leaders. They are absolutely guaranteed against damage by freezing. Their scientific construction gives maximum strength and allows for expansion in freezing weather. Their large, unobstructed water passage gives 30 per cent more cooling surface than the average radiator. They are a perfect fitting replacement of the original equipment.

For Ford
1917-1923
Less Shell
\$6⁹⁸
Net



Greater Cooling Capacity—Longer Life

Heavy brass tanks of seamless one-piece construction at both top and bottom; double lock seamed cores sealed with pure 50-50 solder inside and out; heavy-gauge reinforcements, riveted and sweat soldered; an extra number of tubes in the water chamber, yet only about half the usual number of joints; and nowhere does iron

or steel come in contact with water which completely eliminates all rust and scale rosters. All of these features go to make the finest radiator that can be built—take advantage of this exceptional quality at a price so low. Be sure to give year and model when ordering. Shipping weight, about 35 pounds.

Radiators Without Shell

8R10595
For Fords 1917-23

\$6⁹⁸
Each Net

8R10596
For Fords 1924-27

\$7⁸⁸
Each Net

Radiators With Shell

8R10597
For Fords 1917-23

\$8³⁵
Each Net

8R10598
For Fords 1924-27

\$8⁹⁷
Each Net

"X" Liquid Stops Radiator Leaks



Nationally advertised and generally regarded the best stop leak made. The sure quick way to stop leaks and repair radiators, cracked cylinders, cracked water jackets. Does the work without soldering, welding or delay. Repairs leaks in 10 minutes. Cleans out scale and rust in cooling system, and stops new rust formation. Keeps cooling system fully efficient. Insures perfect water circulation.

8R8891—Small size can. List, 75c. **50c**
Net, each.
8R8892—Standard cans. List, \$1.25. Net, each. **83c**

Solder Seal Radiator Repair and Cleaner



Guaranteed to stop radiator leaks in five minutes or your money back. The repair is permanent. Will not clog any type radiator. Seals cracks in cylinder heads, water jackets and heating systems. The only sealer with a metal base and it never falls.

8R8895—Net, each. **47c**
Lots of 6, each. **45c**

Radiator Hose



The finest materials make hose high quality hose resist heat and oil. Gives long lasting service.

IN 3-FOOT LENGTHS ONLY.

No.	Size	Net Price
8R8880	1 1/2 inches	\$0.42
8R8881	1 3/4 inches	.49
8R8882	1 7/8 inches	.56
8R8883	2 inches	.55
8R8884	2 inches (Ford Inlet)	.60
8R8885	2 inches (Ford Outlet)	.72
8R8886	2 1/2 inches	.82
8R8887	3 inches	.93

Non-Cut Hose Clamp

Here is the finest hose clamp made. One size fits all inlets and outlets of all cars. Will not cut hose and is easily adjusted. Ship. wt. 3 oz.



8R8890 **55c**
Box of 10

Honeycomb Radiators for Popular Cars



In these big, sturdy, honeycomb type replacement radiators you are assured of dependable service at worthwhile savings. All brass cores; double soldered tubes, front and back, tanks unbreakable from freezing; no iron or steel touches water eliminating all rust; perfect fitting. These are only a few of the features of this super-constructed radiator. Average shipping weight, 35 pounds. State make, year and model of car when ordering.

Number	Car	Without Shell
8R10547	Buick Std. C, 1924-27	\$24.65
8R10548	Buick Big 6, Master 6, 1926-28	24.65
8R10549	Chevrolet Model K 1925	9.75
8R10599	Chevrolet Model V 1926	9.75
8R10678	Chevrolet Model AA 1927	9.95
8R10679	Chev. Mod. AB National 1928	10.65
8R10680	Chrysler 4-cyl. 1924-27	17.90
8R10681	Chrysler 6-cyl. 1924-27	17.90
8R10682	Dodge 4-cyl. 1924-27	12.95
8R10683	Dodge, New Series 128 4-cyl. 1927-28	12.96
8R10684	Dodge Victory 6, 1928	25.65
8R10685	Dodge Standard 6, 28 1928	20.35
8R10686	Edsel 4 and 6-cyl. 1924-28	15.85
8R10687	Hudson 1917-28	21.35
8R10688	Nash 6-cyl. 1925-28	18.35
8R10689	Oakland 1926-28	21.05
8R10690	Oldsmobile 1924-26	25.35
8R10691	Pontiac 1926-28	16.35
8R10692	Star 4 and 6-cyl. 1925-28	15.75
8R10693	Studebaker Light 6	15.90
8R10694	Stude. Spec. C, 1924-28	25.67
8R10695	Studebaker Big 6, 1920-27	37.65
8R10696	Whippet 4-cyl. 1926-28	18.85

Glycerine Non-Freeze Solution

This is the same kind of distilled glycerine as is recommended by the U. S. Bureau of Standards as an effective anti-freeze. Gives 100% protection against freezing even at 75 below zero. Can be used over and over again, year after year. Mixed 4 1/2 part to 1 part water, protects at 10 below zero. Not recommended for Knight radiators or Nash 1-27 or older. Ship. wts., 20 and 37 lbs.



8R9289—2 Gallon Can. **\$4.38**
Net.
8R9290—3 1/2 Gallon Can. **7.32**
Net.

Non-Spill Radiator Filling Can

Cannot splash water. Spout extends full 12 inches. Full 3 gallon capacity. Made of heavy sheet metal with permanent galvanized finish.



8R9243 **98c**
Net, each.
Lots of 3, 95c each

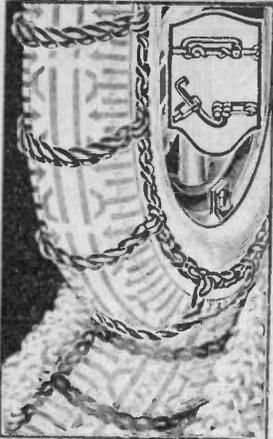


Hood Lacing

A strong woven fabric of best material, impregnated with a special compound which makes it water and oil-proof. Always soft and pliable. Not less than 100 feet sold. Per 100 feet. **75c**

8R9731 1/2 x 7/2 **75c**
8R9732 1 1/2 x 3 **89c**

Save on Pioneer Case Hardened Tire Chains



Best Possible Quality Made

Again Braun gives you the most for your money. Mr. Dealer. Never have Case Hardened Steel Tire Chains of this quality, workmanship and appearance been offered at such low prices. Take advantage of the savings offered and stock up now for the season. Pioneer chains are the heaviest, strongest, longest wearing tire chains that years of experience and testing can produce. Made of extra heavy super duty steel, deeply case hardened, they will give the longest service. Every link is carefully built of oversize material. The cross chains are case hardened by a new process in an automatically controlled furnace, then heavily plated. This double operation gives them an extra tough surface for long wear and renders them very resistant to the wearing action of road use and the destructive corrosion of mud and snow. The side chains have an aluminum-like galvanized finish, rust-proof, and attractive appearance. They are strengthened and improved with the fold-back lock-link principle which gives them additional strength and prevents them from chafing the sides of the tire.

Best Workmanship Means Longest Wear

The combination of high quality and superior finish on the Pioneer Chains makes them the longest wearing as well as the nicest appearing chains on the market. The patented sure-grip lever fasteners which never get out of order make Pioneer chains easy to get on or take off. These fasteners are the only fasteners which take up all the slack; which fit snug, and which cannot come loose. Simple in operation, they do not depend on unreliable springs or bolts that bend and refuse to work in an emergency. Pioneer Case merchandise you can depend on. Check over our requirements on the right at money-saving prices. Shipping weight, 18 to 27 pounds per pair.

Simple in operation, they do not depend on unreliable springs or bolts that bend and refuse to work in an emergency. Pioneer Case merchandise you can depend on. Check over our requirements on the right at money-saving prices. Shipping weight, 18 to 27 pounds per pair.

Sizes	Article No.	List	Net per Pair
30x3 1/2, 27x4.40 28x4.40	BR10200	\$4.50	\$2.65
29x4.40 Oversize 30x4.50	BR10209	5.00	2.94
31x4, 32x4, 31x4.40	BR10201	5.50	3.24
33x4, 34x4	BR10203	6.25	3.67
32x4 1/2, 32x4.95	BR10204	6.25	3.67
33x4 1/2, 33x4.95	BR10205	6.50	3.82
28x4.75, 29x4.75, 30x4.75	BR10210	6.00	3.53
29x4.95, 30x4.95, 31x4.95	BR10211	6.25	3.67
29x5.00, 30x5.00, 31x5.00, 32x5.00, 28x5.00, 29x5.25, 30x5.25, 31x5.25, 29x5.50, 30x5.50	BR10214	7.00	4.12
30x5.77	BR10215	7.00	4.12
33x5, 32x5.77, 33x5.77	BR10207	7.50	4.41
30x6.00, 31x6.00, 30x6.20, 31x6.20	BR10208	8.50	5.00
32x6, 33x6, 32x6.20, 33x6.20	BR10217	9.00	5.29

Heavy Duty Truck Chains

Pioneer Heavy Duty Case Hardened Truck and Bus Chains are built especially for hard and tough usage. Made of extra heavy materials to give the greatest possible traction in mud, snow, ice, or sand. Will stand up under the worst conditions. Ship. wt., 20 to 32 lbs.

Number	Single Pneumatic Sizes	List	Price Net
BR10370	32x4 1/2	\$ 9.00	\$5.29
BR10372	30x5	8.50	5.00
BR10373	33x5	10.00	5.88
BR10375	35x5	10.50	6.17
BR10376	32x6	10.50	6.17
BR10377	36x6	11.75	6.91

Single Truck Cross Chain

Standard Replacement Cross Chains for trucks and buses. Case-hardened, complete with side hooks. Ship. wt., 3 to 5 lbs. per doz.

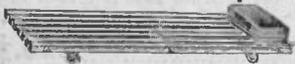
Number	Size	Price Dozen
BR10381	4 1/2 in.	\$0.95
BR10382	5 in.	1.25
BR10383	6 in.	1.85
BR10384	7 in.	2.90
BR10385	8 in.	3.45

Best Grade Mud Hooks



Stock up on these, Mr. Dealer, they so fast. Mud Hooks will get a car out of mud or a ditch quicker and easier than anything else. Easy to attach. Will not injure paint or spokes. Will give long service. Fully warranted. A quality article at a low price. Shipping weight, 3 pounds, set.
BR10435—For all 3 1/2 to 4 1/2 high pressure and 4.40 to 4.95 Balloon Tires. Net, ea., 98c. Lots of 4, Net ea., \$1.08
BR10436—For all tires not listed under number BR10435 up to Balloon size 6.75. Net, each, \$1.21. Lots of 4, Net, Each, \$1.28

Wood Auto Creeper



Constructed entirely of Oak with screws and bolts to hold cross members. Two extra braces of wood are screwed beneath to give added strength. Measures 36 inches long, 14 inches wide. Padded headrest is 9x3 inches. Good quality, strong casters.
BR9724—Net, each, \$1.15. Lots of 6, Net, each, \$1.09

Repair Cross Chains



Made of best quality case hardened steel. Each cross chain complete with side hooks.

Number	Tire Size	Price 12
BR9473	3 1/2 in.	\$0.53
BR9474	4 in.—4.40 Balloon	.63
BR9475	4 1/2 in. and 4.75	.73
BR9476	4.95 Balloon	.73
	5 in. and 5.25, 5.50	.76
BR9481	5.77 Balloon	.96
BR9482	6 in.	1.18

Quick Repair Links

Made of finest quality steel. These quick repair links are fast sellers. Do not get caught without a stock. Come in neat boxes of 20 retailing at 20c. Carton contains 12 boxes.
BR9483—Carton of 12 boxes. \$1.29



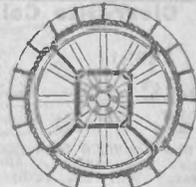
Handy Chain Tool

A ready seller. Easy to fix chains with this tool. Snaps links on or off in a jiffy. Made of good quality drop forged steel. 9 1/2 in. long.

BR9490—List, 75c. Net Price, 36c

Chain Adjusters

Nothing like these for stopping the bang and flap of chains. Hold chains tight against tire, reducing wear and preventing slipping around tire. Give more traction. Fit All Tires.



BR9468—Clim-a-x, 4 sides, as shown, List, 75c. Net, Each, 28c

BR9469—No-nox, 6 sides, with hooks to prevent jumping off. List, \$1.00. Net, Each, 43c

Emergency Chains Case-Hardened

A quality product. Sell fast. Extra heavy links (case hardened) used on all sizes. Snap into place easily. Will take car out of any mudhole. Cannot come loose. Efficient. Will not mar paint. Shipping weight, 2 pounds, set.



Number	For Tire	Each	List	Net
BR9470	3 1/2 only		45c	27c
BR9483	Special Model A Fords and Model T. Wire Wheels..		50c	30c
BR9471	4, 4.40, 4.50		50c	30c
BR9472	4 1/2, 4.75, 4.95, 5.00, 5.25		60c	30c

"SKID-GRIP" Rubber Chains

Silent—Sure-Footed—Long Lasting

Get your supply of these A-1 Quality Rubber Chains now. Our low prices save you money. Will outwear several pairs of steel chains and are far cheaper per mile of service than any steel chain.

More Silent—No more rattling on pavement or banging against fender. More Economical—Do not wear out the tire. Leave them on all season. Safer—Cannot slip or slide on any pavement or road. Hundreds of U-shaped steel wires which project slightly through the outer surface are solidly embedded in the tough rubber cross bars. The inner surface of the bars is smooth rubber. Steel wires run from end to end to prevent stretching. Skid-Grips are positively dependable under all weather conditions.

Number	Fit Balloon Tire Sizes	Net, Pair
BR10250 (A)	29x4.40, 29x4.75, 30x4.50.	List, \$8.75.
BR10251 (B)	29x4.95, 30x4.95, 31x4.95, 30x5.00.	\$ 8.45
BR10253 (C)	30x5.25, 31x5.25. List, \$9.50.	9.15
	List, \$10.95.	
	30x5.77, 32x6.00, 33x6.00, 32x6.20	9.35

Number	Fit High Pressure Tire Sizes	Net, Pair
BR10254 (D)	All 30x3 1/2 Tires. List, \$8.75.	\$ 7.25
BR10255 (E)	All 31x4 Tires. List, \$10.00.	8.75
BR10256 (F)	All 32x4 Tires. List, \$10.00.	8.72

Shipping weight 20 to 30 lbs. per pair.

Replacement Crossbars

The same high quality materials used as on the complete chains. Easy to put on. Keep a good stock of these.

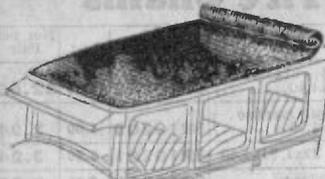
BR10257—For numbers represented by letters A, D, E, F, above. Net, each, 26c

BR10258—For numbers represented by letters B, C, above. Net, each, 32c

Sectional View of Crossbar

Showing the fine steel wires that grip the road and the three steel wires that run full length of bar and prevent stretching.

For Ford or Chevrolet



Best Quality Two-Ply Deck Covers

The finest quality material—not to be confused with ordinary inferior grades. We won't cheapen quality to give a low price. These covers are cut in one piece to fit the car specified exactly. Strong, durable, extra heavy, long grained leatheroid. Glossy black waterproof finish. Complete with necessary tacks and binding. Shipped rolled in 8 lbs. Be sure to state make, year and model of car.

8R9702—Ford Coupe	1.85
8R9711—Ford Two-Door Sedan	2.72
8R9736—Ford Fordor Sedan	3.10
8R9719—Chevrolet Coach	3.40
8R9721—Chevrolet Coupe	2.30
8R9723—Chevrolet Sedan	3.45
8R9378—For all 4-P Passenger Coupe measuring 63x90 in.	2.48
8R9379—For all 5-P Passenger Coach measuring 90x64 in.	3.62
8R9380—For all 5-P Passenger Sedan measuring 99x64 in.	3.65

Clear-Site Celluloid

8R8211

54c
Per Sheet

Sheet celluloid for mending broken curtain lights and windows. Heavy, uniform and clear. Will not easily discolor. Sheets 20x30 in.

10 Sheet Lots 52c per Sheet.

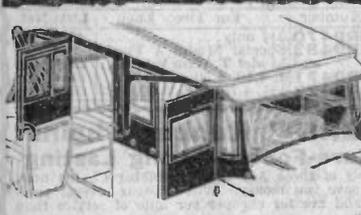
Rubberized Top Mending Fabric

8R8220 Per Yd.

67c

Extra quality heavy 32-oz. fabric, fully rubberized. For repairing tops and curtains. 64-inch rolls. Gloss grains; durable black finish.

10 Yd. Lots 69c per Yd.



Open-with-Door Side Curtains Special for Ford Cars

These Side Curtains are made of the finest quality heavy regulation fabric topping material. A good value at our low prices. The door curtains swing out with the doors. Easy to set in and out of the car. These side curtain sets are complete with special door irons which hold curtains firmly when doors are closed. Give good protection from wind, snow, rain. Heavy, clear celluloid windows in doors are closed. Give good protection from wind. State year and the model of your car when ordering to insure perfect fit.

Model and Year of Car	Number of Door Openings	Price
8R9988—Ford Touring, 1915-22	3-Door Openings	\$5.85
8R9989—Ford Touring, 1923-25	3-Door Openings	5.20
8R9990—Ford Touring, 1926-27	4-Door Openings	5.75
8R9991—Ford Roadster, 1915-22	1-Door Opening	3.20
8R9992—Ford Roadster, 1923-25	1-Door Opening	2.80
8R9993—Ford Roadster, 1926-27	2-Door Openings	2.95
8R9994—Ford Touring, 1928	2-Door Openings	6.65



The Pioneer—Improved Quality Enclosure Makes Your OPEN Ford or Chevrolet a CLOSED CAR

Without a doubt the finest enclosure made. Has all the latest improvements of the highest priced ones, yet our prices are very low. Many dealers put them on used cars for quick winter sale and save storage cost as well as make additional profit. Once installed, it stays in place and keeps its shape through many seasons. Will not rattle or come loose. Perfect ventilation provided by

side panels which slide easily in steel grooves, as easy to open as any window. Heavy clear tall size celluloid windows give unusually clear vision. Has Outside Handles just like a real closed car. No bars to open. These handles require no drilling but extend clear through for easy door opening from inside or outside. This is a patented feature not found on most enclosures.

Easy to Put on as a New Top—No Drilling Required

A screwdriver is all that is needed to put this enclosure on permanently. No drilling. Simple directions are furnished with each enclosure.

and door. A flat steel strip fastens at top, sealing the car against sleet, rain, wind. Inside of car is always comfortable in all kinds of weather. There is a ventilating window on both sides. Windows and doors are rattil-proof. Plenty of room to enter and leave car. Shipping weights: For Touring cars, 20 lbs. For Roadsters, 18 lbs.

DESCRIPTION: Strong, rigid all metal frame adjustable to height and length. This frame is securely braced to form heavy, strong, substantial, lasting support to the windows

FOR FORDS—	List	Net
8R1175—Touring, 1923-24-25	\$22.00	\$13.55
8R1176—Roadster, 1923-24-25	14.00	7.87
8R1177—Touring, 1926	29.00	13.55
8R1178—Roadster, 1926-27	14.00	7.87

FOR CHEVROLETS—	List	Net
8R1179—Touring, 1923-24-25	\$22.00	\$14.25
8R1180—Roadster, 1923-24-25	15.00	8.48
8R1181—Touring, 1927, 23.00	23.00	14.25
8R1182—Roadster, 1927	16.00	8.48



Finest Quality

SAGLESS Top Re-Covers

These beautiful top covering outfits have fashionable gypsy style back curtains. Well tailored throughout of extra heavy, long grain waterproof fabric. All edges are bound and reinforced with extra strip of fabric. All seams stoutly sewed. Top quarters are sewed together, and the straps are sewed to rear curtain for fastening. This feature gives additional strength and prevents sagging. Fitted with 6x18 inch clear vision crystal glass on black enameled rim. Comes complete with all necessary tacks, binding and fasteners. When ordering be sure to specify year and model of car.

8R9791—Ford Touring, 1915-22	Net Price, each	\$5.69
8R9792—Ford Touring, 1923-25	Net Price, each	5.69
8R9793—Ford Touring, 1926	Net Price, each	6.45
8R9794—Chevrolet all styles Touring	Net Price, each	7.25
8R9795—Ford Roadster 1915-22	Net Price, each	3.79
8R9796—Ford Roadster 1923-25	Net Price, each	3.85
8R9797—Ford Roadster 1926	Net Price, each	3.92

NEW! Durable Top for RUMBLE SEAT

Here is real comfort for the rumble seat. One of these tops on your roadster, coupe or cabriolet will make your car look twice as sporty and smart. It will give you back many times its price in terms of possession, and also tell you that you have the very latest word in a rumble seat accessory. The cost is so small that you will want to be the first in your locality to own one of these classy Rumble Seat Tops. Made of durable, gray, sport material that harmonizes well with any car. Has large 6x20 inch window of clear celluloid for rear vision. Easily and quickly attached to back of rumble seat and car top. When not in use, can be stored away in back of car in neat flat bag that keeps it clean and smooth. Shpg. wt., 12 lbs. Be sure to mention year and model of car before ordering.



Close View Showing Top Attached

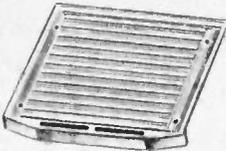
8R9381—For 1923 Ford Cars	List, \$15.50	Net Price	\$10.32
8R9382—For 1923 Chevrolet Cars	List, \$15.50	Net Price	10.32
8R9383—For 1928 Buick Roadster, Models 24 and 54; for Chrysler Roadster, Models 52, 62, and 72; for Nash Standard Six, Model 322 Cabriolet; Oldsmobile Street Coupe; Oakland Cabriolet; Pontiac Cabriolet; Rex Wolverine Cabriolet; Dodge Coupe; and Whitecap Coupe	List, \$16.00	Net	11.18

Solid Aluminum Step Plates

8R8728
List, \$1.75

80c

Each Net



This is the latest type step plate—all one-piece solid aluminum, smoothly buffed and highly polished. Heavy, sure-tread corrugated finish. No rubber mat to replace. Flts flush with running board. Size 8½x11¼ inches. For all cars. Shipping wt., 3½ lbs. per pair.

Aluminum Kick Plates



Heavy solid aluminum kick plates to match step plates listed above. Very attractive, highly polished. Prevent scuffing the car finish. Size 3¼x11¼ inches. Shipping wt., per pair, 1½ lbs.

8R8772

48c

Each Net

Aluminum Step Plate

Very highly plated and polished. The handsomest quality step plate and kick plate made. Will never tarnish. Step plate has glossy jet black mottled rubber pad 8x11½ in. in size. Shipping wt., 1½ lbs. each.

8R8629—For all cars except Ford
8R8630—Special for Fords

75c

Each Net



Genuine Durabrite Step Plates



An alloy metal of aluminum and copper—a very durable, beautifully finished plate with non-blooming rubber mat. Overall size, 9½x10¼ inches. Shipping wt., 2 lbs.

8R8632

List, \$2.00

84c

Each Net

Pioneer Double Windshield Cleaner—Hand Operated

The most practical and efficient hand operated windshield cleaner made. Cleans both outside and inside of glass at one sweep. A heavy live rubber wiper on the outside and a felt wiper on the inside insures perfect vision on the coldest days. Has three way adjustment for pressure and length of sweep. Guaranteed rust proof finish; one piece handle. Fits all open and closed cars. Shipping wt., 1 pound.

8R8752—List, 50c

Net, 29c

Lots of 6, 27c each.

8R8752

List, 50c

29c

Each Net



Standard Windshield Wiper

Attractive rust proof gunmetal finish throughout. Furnished with black rubber wiper. Each wiper packed with necessary fitting, in individual carton. Retail for \$3.00. Shipping wt., 1¼ lbs. each.

8R8784—For all cars except 1926-27 Fords.

Net, each

8R8785—Special for 1926-27 Fords

Lots of 6, \$1.14

\$1.32

Each Net

WINDSHIELD CLEANERS FOR ALL CARS AUTOMATIC

Nationally known as superiors of their class. Backed by a reputation for quality and long life they will give complete satisfaction. Here are values that you will want to take advantage of for they mean extra profits for you.

Single Hole Cleaner

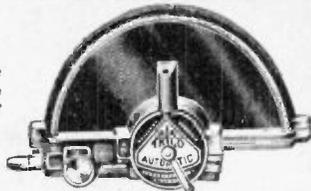
Operates by vacuum. Installed by drilling only one hole in windshield frame. Equipped with straight wiper with double adjustment. Completely enclosed wiper unit. Complete with all parts for installing. Shipping weight, 3 pounds.

8R8757—Short shaft model for all open and closed cars except Fords and cars with Fisher VV type windshields.

\$2.78

Each Net

8R8758—Long shaft model for Fords only.



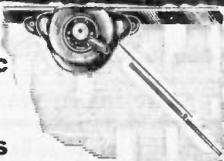
For Cars with Fisher Bodies

Same quality as at left. (Not illustrated.) For Buick, Chevrolet, Olds, Oakland, Chrysler, Moon, Chandler, Cleveland, Paerless and Velie.

8R8748—For Chevrs. only. List, \$5.00. Net, each, **\$3.85**

8R8749—For other cars listed above. List, \$6.00. Net, each, **\$4.89**

Electric Windshield Wipers



A compact sturdy Wiper that operates from the battery. Uses about the same amount of current as a tail light. Runs evenly at all times regardless of speed of motor. Lubricated by wick oil feed. Guaranteed for two years of constant service. Has ample power to drive one or two blades. Shipping weight, each, 2¼ pounds.

8R8774—Standard Model (Six volt) for all open and most closed cars except 1926-27 Ford closed cars and cars with "Fisher VV" type one piece windshield and cars having top windshield frame inaccessible. Single Blade. List, \$5.00. Each, **\$3.25**

8R8775—Same with tandem attachment. (Double Blade.) List, \$6.50. Each, **\$4.33**

8R8776—Ford 1926-27 closed model, mounts on outside of windshield; clamps to windshield frame, unnecessary to drill holes. Single Blade. List, \$5.00. Each, **\$3.25**

8R8777—Same with tandem attachment. (Double Blade.) List, \$6.50. Each, **\$4.33**

8R8778—For "Fisher VV" type windshield which raises and lowers instead of swinging out and in. Special dash switch. Wiper motor mounts outside of windshield. Single Blade. List, \$5.25. Each, **\$3.48**

8R8779—Same with tandem attachment. (Double Blade.) List, \$6.75. Each, **\$4.50**

8R8780—Special Hudson model (6 volt.) For Hudson, Essex, Chrysler 50 and Whilper closed cars. Single Blade. List price, \$5.00. Each, **\$3.33**

8R8781—Same with tandem attachment. (Double Blade.) List, \$6.50. Each, **\$4.33**

Trico 5-Ply Wiper Blades

Genuine Trico windshield wiper blades with extra-heavy 5-ply pure rubber blade. Absolutely free of chemicals. Will last as long as the car. Always sweeps clean.

23c

Each

Windshield Wiper Extension



57c

Each

Doubles the vision; doubles the safety. Works on any windshield wiper. Gives clear vision on both sides. Has bronze bearings, brass blades and turnbuckle adjustment. Shipping wt., 2 lbs.

8R8753—Special for Fisher Bodies.

8R8754—For all other cars.

Straight Across

Windshield Cleaner

The twin vertical blades of this Wiper clean the entire windshield, giving the driver 100% vision. Helps prevent many accidents—without a doubt the most practical wiper made. Full 5-ply blades park out of eye range when not in use. One model fits all cars. Easily installed. Shipping wt., 6 lbs. List, \$9.50.

8R8756

\$6.28

Lots of 3 \$5.50 Each



8R8791

\$7.45

Each Net

Double Electric Windshield Cleaner

Here is the finest Electric Windshield Cleaner made—offered to you at a price that brings you big savings. A double cleaner, strong, rigid, always in order and ready to give full vision. Electrically operated; inside mounting; simple and easy to install. Blades stay out of way when not in use—cannot drop down to obstruct view. Adjustable arms. Uses less current than a headlamp bulb. One type only; fits all closed cars with standard or V. V. sliding windshields. Shipping wt., 7 lbs.

8R8791—Net, **\$7.45**

Squeegees



Black. Finest grade rubber. Regular length. Fast movers.

8R8788—List, 15c. Net, each, **5c**

Carton of 12, **48c**

Rubber Tubing

Length, 7½ feet. The right amount for windshield wipers. A good seller. Finest quality. Shipping wt., each, 1 lb.

8R8790—List, 25c. Net, each, **9c**

Carton of 12, **89c**

Wiper Arm and Adjuster



More popular than ordinary arm. Spring steel arm with attached adjuster to regulate pressure on glass. Shipping wt., doz., 1 lb.

8R8789—List, 40c. Net, each, **18c**

Carton of 12, **\$2.04**

Automobile Trunks—Attractive and Durable

For All Popular Cars



The "Big Chief"

Attractive—turdily constructed—low priced. Made of 3-ply veneer; covered with long wearing, waterproof DuPont fabricoid. Lined with washable material. Has good sized tool compartment which may be removed when not in use. All hardware is heavy brass, highly nickel plated. Equipped with strong locks. Be sure to specify year, make and model of car.

BR12651
List \$27.00

\$18.95
Each
Net



Nickel
Plated
Fittings

The "Tukawa"

This extremely attractive trunk is custom built and highest quality throughout. Heavy brass nickel plated hardware. Straps and handles of genuine harness leather. Washable lining. Three-ply veneer construction with covering of DuPont fabricoid. Absolutely dust-proof and water-proof. Equipped with removable tool box. Be sure to specify year, make and model of car.

BR12652
List \$35.00

\$24.50
Each
Net

BR12618, Carriers for above trunks, State make, year and model of car. List \$10.50. Net \$6.37

Fine Pure Wool Auto Robes An Ideal Gift! For Auto, College, Sports, Home!

PINEHURST

Here is the special-value robe number of our line. It is the manufacturer's big production pattern, and a big favorite on account of its price, combined with unusual quality. This robe is full length such size, and in spite of its low cost is guaranteed to be all wool. It is made in attractive through-and-through plaid patterns in assorted colors of harmonizing shades. Every robe has been washed; no offensive odor. Has a heavy rope fringe. Ideal for auto, sleeping porch, winter, bed, camping, etc. Very warm and soft. Fast non-fading colors. A real value. Ship. wt., 4 lbs.

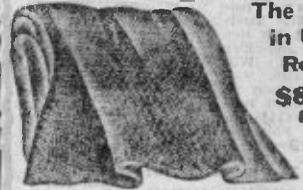
BR12615
List \$8.50

\$4.95
Each
Net



The Latest in Utility Robes

\$8.75
NET



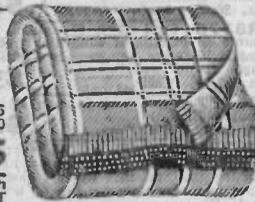
A heavy weight, exceptionally warm robe for use in motor cars, steamers, airplanes, at football games, etc. Made of finest-grade mohair, same as used in upholstery of high priced autos. Heavy clipped hair, beautiful color of chestnut brown with taupe background, without fringe. BR12640. Double Thickness 51x72. List \$18.00. Net \$8.75

FIRESIDE

A very high grade robe made in beautifully patterned, double woven silk wool fabric, plain on one side with harmonious overplaid on the other. It is soft, thick and fluffy. The colors are fast, guaranteed to keep their bright attractiveness for years. Fully 64x70 inches in size, with heavy fringe. Every robe is napped thoroughly clean in soft water, leaving it completely odorless and downy soft. A fine heavy robe at an outstandingly low price. Ship. wt., 5 lbs.

BR12616
List \$10.00

\$6.75
Each
Net

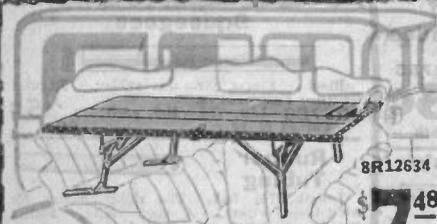
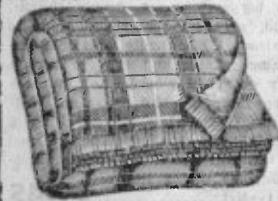


EMBASSY

The robe deluxe. Highest grade all-wool stock, fine spun and superior quality and finish. Exceptionally soft, harmonious colorings equal in attractiveness to the highest grade imported but lower in price. Plain color one side, beautiful overplaid on the other. Extra large, 66x80 inches. Fast colors. Carefully washed and deodorized. As fine a robe as you could wish. Heavy fringe. Shipping weight, 6 pounds.

BR12617
List \$15.00

\$9.50
Each
Net

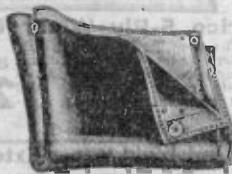


New Auto Camp Bed

BR12634

\$7.48
Net

Every tourist will want one of these convenient Auto Beds. Provides a protected and comfortable sleeping place. Easily set up in car or on the ground. Can be used in four-door sedans, roadsters or touring cars that measure 70 inches or more from windshield to rear window glass. Top of heavy khaki duck; reinforced in center with non-stretch webbing. Makes double size bed, 36 by 72 inches. Folds up compactly, 4 by 6 by 23 inches. May be used for table also. Shipping weight, 23 pounds. BR12634—List, each, \$14.00. Net Price.. **\$7.48**



Waterproof Cover or Blanket

A necessity for every car owner. May be used as radiator cover, lap robe, luggage carrier, apron when washing car, and has snaps for use as pouch. Heavily rubberized khaki color inside. Brass grommets at ends. Size, 54 by 72 inches. BR12630—List Price, \$5.00. Net, each **\$2.80**

Wedge Cushions

A perfect back rest, offered in several attractive and durable coverings. Padded with non-lumping soft filler. Strongly sewed seams. 12 x 6, a 10 x 6, 10 x 12 inches. Shipping wt., each, 4 lbs. Covered with green weather-proof fabricoid.

BR12619—List, \$2.00. Net, **95c**

BR12620—List, \$2.25. Net, each **\$1.10**

Cushions to match seat covers shown on pages 228-229. Same high quality as above.

In Supreme Quality Patterns
BR12653

92c
Net, each

In Commander Quality Patterns
BR12654

98c
Net, each

In Classic Quality Patterns
BR12655

\$1.54
Net, each

Pillow Cushions

Soft, comfortable cushions padded with extra fine filler—will not lump. Strongly bound and reinforced. Choice of coverings. Ship. wt., each, 3 lbs. Covered with blue weatherproof fabricoid. 10x14 inches.

BR12639—List, \$1.50. Net, **80c**

Cushions to match seat covers shown on pages 228-229. Same high quality as above.

In Supreme Quality Patterns
BR12638

65c
Net, each

In Commander Quality Patterns
BR12637

74c
Net, each

In Classic Quality Patterns
BR12635

95c
Net, each

Spirit of Aviation Whirl Plane

BR8441
List, \$7.50.

\$4.88
Net Each

Something new and attractive. One of the most effective radiator ornaments conceived in the last few years. A replica of the famous Wright Whirlwind Motor. Made of highly polished aluminum. Will not rust. Blade, measuring 12 inches from tip to tip, revolves on ball bearings. Will work under any condition as long as car is in motion. Be sure to state make, year and model of car when ordering. Ship. wt., 1 lb.
BR8441—List, \$7.50. Net.....**\$4.88**

The Eagle



Elegance, character, distinction mark this favored design. Unbreakable, non-rusting alloy metal with polished finish. Extra heavy—will last a lifetime. Bolt or link mount. Large in size, 4 1/2 inches high; 5 1/2 inches long. A real beauty that will make a fine leader. Ship. wt., 1 1/2 lbs.

90c Each Net

The Plane



A very timely ornament now all the rage. Made of cast aluminum with rich silver-like finish. Diving shape—top of wings is detachable. Rotating propeller; bolt mounting. Length, 4 1/2 in. Shipping wt., 8 oz.
BR8340—List, \$2.00.
Net, each.....**\$1.12**

BR8440
List, \$2.50

\$1.59
Net

Locking Winged Cap for All Popular Small Cars

A quick setting cap that cannot become loose or lost. Once put on, it stays on. A special locking device makes it theft proof. Beautifully finished in highly polished nickel. Adds a ray of appearance to any car. Be sure to state make, year and model of car when ordering. Shipping weight, 1 pound.
BR8440—List, \$3.50. Net.....**\$1.59**



Theft Proof

Keystone Locking Radiator Cap

Strikingly beautiful. A pleasing change from the conventional bar and ball type. Specify car and model wanted.
BR8400—Earlier for Fords and standard small cars. List, \$4.00.
Net, each.....**\$2.35**
Lots of 12, each.....**\$2.20**
BR8402—Earlier model for larger cars. Shipping weight, about 2 1/2 pounds.
List, \$5.00. Net, each.....**\$3.95**
Lots of 12 each.....**\$3.65**
Initial or emblem free. State initial or emblem wanted.



Radiator Cap Wings

An attractive wing ornament for any make car. Made of cast aluminum highly polished. Fits between motor and cap. Ship. wt., about 7 oz.
BR8404—List, 75c.
Each, Net.....**29c**

Booster Emblems for Radiators



Beautifully enameled in brilliant vitreous colors which will not fade. 3 inches in diameter. Official, accurate designs.
List, \$1.50.
Net, each.....**90c**

- BR8760—Shrine.
- BR8761—Blue Lodge.
- BR8762—Moose.
- BR8763—Eagles.
- BR8764—Medusa.
- BR8765—Rotary.
- BR8766—Klwanis.
- BR8767—Lions.
- BR8768—W. O. W.
- BR8769—B. F. O. E.
- BR8770—Knights of Columbus.

90c

Goddess of Speed



Very Popular

Adds a dashing appearance to any car. Made in the favored Egyptian style of non-rusting, unbreakable white metal. Highly polished nickel finish. In two sizes; link mount. Ship. wt., 1 lb.
BR8347
6 inch size. List, \$1.00. Net, each...**43c**
BR8348
8 inch size. List, \$1.50. Net, each...**56c**

Swanette Diving Girl



BR8350
List, \$1.00.

49c
Each Net

Made of strong metal alloy; polished finish. "Suit," "shoes" and "cap" air brushed in blended colors give a most striking effect. Ship. wt., 1 lb.

Racing Hound

Popular Stream-line Ornament



A graceful, attractive ornament that combines beauty and speed. Fully 7 inches long. Made of strong, unbreakable white metal, with a brilliant all nickel-polish finish.
BR8439—List, \$1.25.

45c
Net

Latest Model Rotoscope A Fast Seller



BR8399

A new design that gives the car that latest streamline effect. The four rotating cup blades are set with beautiful red, blue and green jewels. Fitted with highly polished motor-meter extension cap that fits all cars. Cups and balls are heavily plated and rust-proof. The air sets it spinning as you drive. Ship. wt. about 2 lbs. List, \$3.00.

\$1.68
Each

Attractive Flower Vase with Spray



Dress up the interior of your car at small cost. Fine quality, pressed glass Vase. Hand made spray consists of one full bloom rose and two buds with green leaves of silicon cloth. Nickel plated clamp for attaching. Ship. wt., each, 2 lbs.
BR8442—List, each \$1.00.
Net, Each.....**58c**

Safe-T-Stat Radiator Heat Indicator



A thermo-electric motor heat indicator which takes the heat directly from the motor and registers engine temperature on instrument board, where it is visible day and night. Mounts an instrument board, out of weather. Theftproof, drop-proof, out of way, operated by current from battery but uses practically no current. No wearing parts to set out of order—no exposed glass to break—requires no attention or care. Almost any one can install it in 30 minutes. Comes complete with wire and all instructions. Very popular now. All nickel plated.

Deluxe Type for large cars.
BR8423—Plain. List, \$7.50. Net.....**\$4.95**
BR8424—Illuminated. List, \$8.50. Net.....**5.36**

Universal Special, designed for such cars as Ford, Dodge, Chevrolet, Whippet, Star, Oakland, Pontiac, Essex, Oldsmobile, but can be used on higher priced cars.
BR8420—Plain. List, \$5.00. Net.....**\$3.24**

BR8422—Illuminated. List, \$6.00. Net.....**4.94**

Type RC. Clamp on type designed for new model A Ford.
BR8421—List, \$7.00. Net.....**\$4.58**

Genuine Boyce Meters



Genuine Boyce Meters are now standard equipment on practically all of the leading makes of cars. The most dependable heat indicator on the market today is placed on the radiator cap; it acts as a faithful guard over the motor. It will save many dollars in repair costs by warning the driver when his motor is too hot. Easily attached by drilling small hole in radiator cap.

List
BR8415—Midget.....\$ 3.50
BR8417—Universal.....7.50
BR8418—Standard.....10.00
\$2.33
5.00
6.67

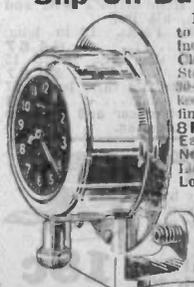
Faith Whistling Motor Safety Signal



This new improved model gives an accurate and positive check of the motor temperature. A red button rises out of the top of the signal when the motor temperature approaches danger and if it is not heeded the signal whistles. Especially useful in night driving. Rust proof nickel silver finish. Ship. wt., 1 1/2 and 1 1/4 lbs.

BR8406—Junior size. List, \$2.00. Net, each.....**94c**
BR8407—Senior (10-Lux) Size. List, \$3.00. Net, Each.....**\$1.04**

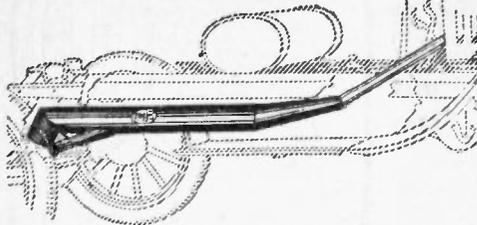
Slip-On Dash Clock



No cutting; no holes to drill. Fits all cars, including 1923 Ford. Clamp attachment. Stem wind; stem set, 90-hour. Accurate time-keeper. Polished nickel finish.
BR8365—Plain dial. Each, Net.....**\$2.40**
List, \$1.00.
Lots of 6, \$2.30 Ea.
BR8366
Radium Dial. List, \$5.00.
\$3.00
Each, Net

Genuine Taylor Combination Muffler and Loud Speaker Cut-Out

New Reduced Prices!



Here is a new, fast selling, popular item that every car owner will want to have. This combination muffler and loud speaker cut-out produces a real racing-car roar. Not a sharp, annoying crack like low priced cut-outs, but a low, rumbling growl like the most powerful racers give out. The same model fits all makes of cars. Easy to put on in five minutes. Simply cut off the tapered end to fit, and it's done. Universal bracket fits all cars without any holes to drill. This is the only muffler cut-out of its kind on the market. Eliminates back pressure and increases power of the car. Quiet and sound-proof when closed. Our prices are lower now on this number than they have ever been before. Feature this muffler cut-out and make good profits. Ship. wt., 10 lbs.

8R8602

\$6.28
Each
Net
List Price
\$8.50



8R8611
List, \$2.50.
\$1.27
Each, Net

Dash Control Cut-Out for all Cars

Clamps around exhaust pipe. Not necessary to cut pipe. Packed with asbestos to prevent any leakage. Extra large vent gives loud, clear report. Control made of brass, nickel plated, with 5-foot steel piano wire. Requires only 1/2-inch hole in dashboard to install. Ship. wt., 3 lbs.
8R8611—List, \$2.50.
Each, Net **\$1.27**



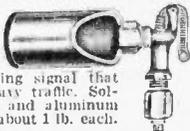
Dash Control Cut-Out for Chevrolet

8R8642
\$2.65
Each, Net

A superior cut-out for Chevrolets, and the easiest one to install. Replaces the small exhaust manifold by simply bolting on. No cutting or welding. Strong butterfly valve. Controls from dash. Long tube carries exhaust down under car. Has a hollow, ringing tone. Each report is clear and loud. Ship. wt., 4 lbs.

8R8642—
Price Each **\$2.65**

Exhaust Whistle



An efficient warning signal that can be heard in heavy traffic. Solidly built of bronze and aluminum polished. Ship. wt., about 1 lb. each.

8R9410—For 1/2-in. complete **\$1.20**
8R9411—1/4-in. adapters, **\$1.20**
Net **32c**
8R9412—3/8-in. adapters, Net **25c**

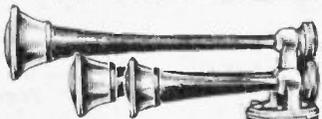
Four-Tone Exhaust Horn Genuine Fulton Aermore

Beautiful four-tone, pipe organ effect. Penetrating, attention getting, but agreeable. Made for all cars. Measures 15 inches. Nickel finish brass. Will last a long time. Easily and quickly attached to the exhaust pipe between the manifold and the muffler. Complete with lever, clamp-on valve which operates from driver's seat, and wire cable. Ship. wt., 6 1/2 lbs.
8R9413—Special for Fords. 13 in. long. Net **\$4.67**
8R9414—For small size cars, length 15 in. Net **\$6.67**
8R9415—For medium size cars, length 17 in. Net **\$7.98**
Give make and model of car and diameter of exhaust pipe when ordering.

Steering Post Horn Button 138



A low priced quality button. Several million now in use. Mechanically perfect. Splendid value. Shipping wt., 8 oz.
Carton of 10.....**\$1.70**
8A9174 List 35c Each Net **18c**



Sparton Bugle "At-tention!"

Uncle Sam's own regulation trumpeted command—the crisp, clear call to AT-TENTION—is the newest Sparton VOICE. Rich, vibrant, with military snap and precision, the new Sparton Bugle hurls its amazing signal far ahead. The horn that actually plays the regulation army "ATTENTION" bugle call and does it automatically, at one quick touch of the button. This horn is electrically driven by a powerful high speed electric motor that operates on a 6 or 12 volt direct battery current. The openings of the three projectors are protected by wire screen. Extreme dimensions: height 13 1/4 inches; length 13 inches. Ship. wt., 29 lbs.
8R9402—List, \$35.00.
Net **\$22.90**

8R9402
\$22.90

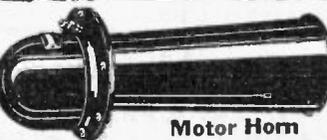
Each
Net

Two-Tone Sparton Chime

A wonderful, new Sparton signal that does not startle, but charms and chimes your way through traffic. Sounds two melodious, sharply harmonious notes at the same time. Has extra large never miss motor sealed in heavy metal case. Finished in enduring black enamel, with highly polished bell ends. The ends of the two projectors are covered with wire screen. Sound carries far, yet is pleasant to hear. For all 6-8 or 12 volt systems. Ship. wt., 11 lbs.
8R9406—List, **\$14.63**
8R9406—List, **\$19.50.** Net **\$11.46**

8R9406
\$14.63

Each
Net



Motor Horn

A mighty fine, sturdy, dependable motor driven horn that equals many horns sold at double the price. Has unique diaphragm. Has a full, round tone, pleasantly persistent, that carries far. Full 12 inches long, with 5-inch bell. This is a real Braun Special that you can't feature to advantage. List, \$2.50. Ship. wt., 3 lbs.

8R8601
\$1.98

Each
Net

Lots of 3.

\$1.89

Each



Famous No. 5

A fine quality horn at an amazingly low price. Motor driven type, with special diaphragm. Sturdy brass bearings, outside lubrication and adjustment. Heavy steel frame, baked black enameled. Ship. wt., 3 1/2 lbs. each.

8R9401
List, \$3.50

\$1.85

Each, Net

wt., 3 1/2 lbs.

Bosch Horns

Bosch Electric Horns are perfect in design and construction. They are trouble-proof; never require adjustment or retuning. The sharp tone commands immediate attention. Curved horn is suitable for 6-volt battery. Straight horn is suitable for all cars. Ship. wt., 6 lbs.



Curved Model Straight Model

8R9426—
List, \$17.25

\$9.80 Each
Net

8R9427—

List, \$11.50

\$5.50 Each
Net



S. O. S. De Luxe Multitone

8R9416
List, \$17.50.
\$9.15

The most remarkable and powerful auto-horn ever built. Of the SOS magnetic type with super strength and over-size diaphragm, producing a mighty roar that dominates the road. Furnished with special adjustable supporting bracket. Largest diameter, 6 inches. Length, 17 in. Ship. wt., 8 lbs.

Each, Net

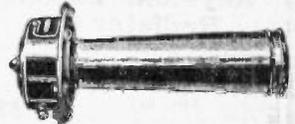


Traffic Signal

\$2.50

A traffic splitting signal of remarkable volume and carrying power. Finished in black enamel and fitted with supporting bracket. Length, 11 1/4 inches. Largest diameter, 4 1/2 inches. Wt. 2 1/2 lbs.
8R9403—List, \$3.75.
Net **\$2.50**

Model No. "75"



It Gets You By! NORTHEASTER A Real Magnetic Horn

The horn that clears a lane through any crowd! The kind that has become so popular on taxicabs everywhere. Selected for this use because of its reliability and its commanding yet pleasant B-E-E-P-B-E-E-P! Quick action, ease and permanence of adjustment, long life, high reputation and unmatched price value make it America's most popular magnetic motor horn. Black enameled finish, 5 1/2-inch diaphragm. Ship. wt., 5 lbs. each.

NORTH-EASTER

No. 75

8R9422

6-Volt

List, \$7.50

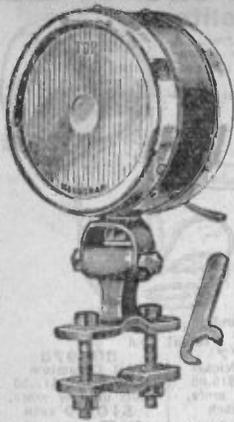
\$4.89 Each
Net

De Luxe Ditch Lite

The construction of the exceptionally fine reflector makes this high quality Ditch Lite preferable by those who want the best. The all brass highly polished nickel reflector projects a piercing shaft of strong clear light. Has focusing screw in back. The latest type improved bracket is adjustable so light can be permanently set in any direction. Waterproof construction throughout with felt gasket under lamp door. Generous in size—4½ in. in diameter. Baked-on black enamel finish with two heavily nickeled brass bands. Fits to tie rod, bumper, fender or chassis. A wrench furnished. Complete with 21 c. p. 6-8 volt bulb and 6 feet waterproof cable. Shpg. wt., 3¼ lbs.

SR8337
List \$5.00
\$1.95
Each
Net

Lots of 3
\$1.89
Each



Bullet and Drum Shaped Headlights Ford, Chevrolet and Other Light Cars

Your choice of Bullet or Drum shaped headlights at a great saving. Fluted with Victor Brown reflector which throws a wide flat beam of light across the road. Plain glass lens. Legal every where. Shipping wt., per pair, 10 lbs. Black enamel bodies, nickel plated rims.

BULLET TYPE

BR8307—For Chevrolet 1925-27 and other light cars with S. A. E. mounting. Per pair, List, \$8.00. Per pair, Net, **\$4.48**
BR8318—For Ford 1925-27. Per pair, List, \$8.00. Per pair, Net, **\$4.48**
BR8352—For Ford early 1926, including special bracket. Per pair, List, \$8.50. Per pair, Net, **\$4.85**
BR8360—For Ford 1915-25, including special bracket. Per pair, List, \$8.50. Per pair, Net, **\$4.85**

DRUM TYPE

BR8308—For Chevrolet 1925-27 and other light cars with S. A. E. mounting. Per pair, List, \$7.25. Per pair, Net, **\$3.65**
BR8309—For Ford 1925-27. Per pair, List, \$7.25. Per pair, Net, **\$3.65**
BR8310—Universal bracket for cars not equipped with S. A. E. mounting. Holes over lamps fit any car. Per pair, List, \$4.25. Set, Net, **\$2.06**



Bullet Ditch Light

Waterproof construction throughout. The all brass, silver plated reflector is extra deep and with the special McKeelite lens gives a perfect driving light. All wiring secured in closed. Heavy black enamel finish with nickeled brass band. May be attached to tie rod, bumper, apron or through radiator by special all way bracket. Diameter, 4½ inches; depth, 5½ inches. Shipping wt., 3½ pounds. **SR8306**—List, \$4.00. Net, each, **\$1.89**



Running Board Searchlight

There is nothing that will add more to the attractiveness of your car than one of these Running Board Driving Lamps. Latest in design—superior in construction—truly the spotless lamp accessory ever made. Mounts on running board directly ahead of the front door within easy reach of the driver. Sturdy bracket attaches to side of car. Solid brass construction, heavily nickeled with special silver plated reflector that is designed to throw piercing beam of light long distance ahead. Fits all cars, open or closed, and stands high enough to throw light over the hood. Height over all, 23 inches; depth of lamp, 8 inches; 7 inch lens. Complete with 10 feet armored cable and dash switch. Shipping wt., 9 lbs.

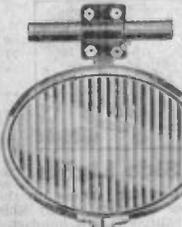


35 In. High List, \$10.00

SR8957
\$6.20
Each
Net

Oval Driving Light

This new oval design is the latest development in Driving Lights. Throws a broad stream of penetrating light across the entire road. Heavily silver plated solid brass reflector. Finished in lustrous baked-on black enamel and nickel. Bracket is adjustable to ¼ to 1½ inches in diameter. Attaches to tie rod between regular headlights. Legal in all states.



SR8311
List \$10.00 Net **\$5.18**

Big Value Spotlight



78c Each
Net

Possesses many features found only in much higher priced spotlights. Equipped with high grade silver plated reflector which throws a more powerful beam than the nickel plated kind. Controlled by switch in handle, and is easily focused by turn of screw. Finished in black enamel and nickel plated. Fits all cars. Cord and bulb included. Shipping wt., 2 lbs. **SR8313**—Net, each, **78c**

Visor Roadlight



One of the most practical and perfect Driving Lights sold. High grade silver reflector gives long penetrating light. Beautiful, black enameled cold rolled steel shell. Universal bracket and adjustable visor allows light to be focused just where you want it. Attaches to tie rod, fender or other suitable place. Bulb and 5-foot cord furnished. Shpg. wt., 2½ lbs.

SR8305—List, \$7.75. Net, **\$1.59**

Delta Road Light

For 1928 Fords and Other Popular Cars



Here is a perfect match for the headlights of 1928 Ford, Chevrolet, Buick and many other popular cars. An extremely high quality light offered in two finishes; all nickel or nickel and black enamel. A full brass lamp reflector. Rust-proof steel universal bracket and lens connecting arm. Equipped with special ¼ inch monomram lens, and Mazda 18-21 c. p. bulb. **SR8333**—Black and nickel. List, \$3.00. Net, each, **\$1.36**
SR8334—All nickel finish. List, \$4.00. Net, each, **\$2.05**

List \$3.00
\$1.36
Each

Black and Nickel Finish

All Nickeled Trouble Lamp

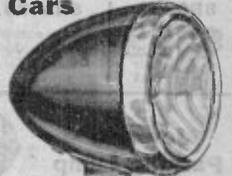


An extremely convenient trouble light for tourists and campers. Made of all metal, heavily nickel plated. Wide, nickel plated reflector throws large beam of white brilliant light. Glass lens. Has 2-foot flexible cord and standard connecting plug. 1-8 2 c.p. bulb. Switch in handle. Shpg. wt., 1 lb.
SR8453—Single contact. List, each, \$1.75. Net, each, **74c**
SR8454—Double contact. List, each, \$1.75. Net, each, **74c**
Lots of 3, 70c each.

74c Each
Net

Bullet Headlight for All Cars

These are real quality lamps not to be confused with ordinary so-called "Bullet" head lamps. Have standard S. A. E. mounting, 9 inches in diameter, 10 inches in length. Victor Brown Universal reflector. Improved lens. Black with nickeled door. Single contact bulbs included. Shipping wt., 15 lbs. pair.
BR8954—List, \$13.00. Pair Net, **\$6.59**
BR8955—Full nickel finish. List, \$18.00. Pair Net, **9.15**
BR8956—Universal Bracket to fit any standard S. A. E. headlamp. Net, Each, **75c**



Stop Light Bargain!

Rare Value

Never before sold at this low price. Genuine "Beacon" Stoptlight at manufacturers' cost. A real big, beautiful light, with deep ruby stop lens 4 1/4 inches in diameter. This light is complete with universal mounting bracket. Finished in attractive, durable baked-on black enamel. This is a dependable stop light that will give long, satisfactory service. Only a tremendous purchase from the factory makes our extremely low price possible. Order at least a dozen today because they are fast sellers. Remember that our price is about 50 per cent below the regular dealer cost for this same quality light.



8R8456
Only

42c Each
Net
Dozen Lots
40c
Each

Combination Tail and Stop Light—Legal Anywhere



The handy light. Two lights in one. The front of the light is made of brass, finished in attractive hand polished nickel. The word "STOP" is moulded in the glass. The body and the bracket are made of heavy steel, with a high gloss black baked-on enamel finish. The tail lamp has semaphore lens with glass window to illuminate the license plate. Conforms with all regulations, everywhere. Special silver bronze reflector. Complete with six 8-volt bulbs, and switch. Ship. wt., 3 lbs.

8R8331—Complete with License Plate Bracket as shown. Red Stop Lens. **\$1.58** Each
Lots of 3 **\$1.55** Each
8R8332—Same with Green Stop Lens.

Bullet Style Side Lamp



Designed to match Bullet or Torpedo type head lamps. They give the car that last finishing touch of beauty and distinction. Brilliant black enamel finish with polished nickelled rims. Length, 3 in.; diameter, 2 1/2 in. Fits on cow. Complete with 2 C. P. 6-8 volt bulbs, wire and fittings. Ship. wt., 3 1/2 lbs. List, \$3.00.

8R8324
Net, pair
\$1.50

Drum Style Side Lamp

Beautifully finished in high lustrous black, baked-on enamel with nickel plated rims. Jeweled side lens. 2-inch diameter, one green, one red. Semaphore frosted front lens. 2 inch diameter. Complete with 6-8 volt 2 C. P. bulbs and 2 1/2 feet wire. Requires only 3/4-inch hole and locks on. Shipping wt., 2 lbs. List, \$2.00.



8R8322 **\$1.55** Pair Net
8R8323 Same except plain sides, no jewels. **\$1.05** Pair Net

Jeweled Parking Lamp

THREE JEWELS. Small and neat appearing. Beautifully finished in high gloss black. Fitted with three ground jeweled lenses that reflect the light in red, green and white. Complete with 6-volt bulb and switch. Ship. wt., 4 oz.



8R8353
List, \$1.50
64c
Ea.

Genuine Inner Control Auto Reelite

The only Reel Spotlight. A big seller at a good profit for you. A powerful spotlight, and a superior trouble light all in one. Controlled from inside. On and off switch in operating rod. With patented inside handle, light can be pointed in any direction except at illegal height at left of center of road. This spotlight is legal in all states. Complete with new 32 C. P. corrugated Mazda lamp. Fitted with adapter which can be cut to fit corner post of practically all cars. Reel models are detachable for use as a trouble light, and have 11 feet of cord around reel, enough to reach any part of the car. The reel is in the shell of lamp, back of the reflector, and can be quickly detached. Comes in two finishes; black and nickel trim; and all nickel. All models have focusing set screw at back of lamp. Shipping weight, 8 pounds.



With Reel
8R8970 Black and Nickel List Price, \$17.50 Lots of 6 or more, \$10.39 each **\$11.14** Each Net
8R8976 All Chromium List Price, \$20.00 Lots of 6 or more, \$11.76 each **\$11.14** Each Net
Without Reel
8R8977 Black and Nickel List Price, \$15.00 Lots of 6 or more, \$8.82 each **\$9.55** Each Net
8R8978 All Chromium List Price, \$17.50 Lots of 6 or more, \$10.39 each **\$9.55** Each Net

Automatic Guide Light



\$6.95
Each
Net

Combines Automatic Right-Left Signal with Stoptlight and Tail Light

At last here is a positive, automatic Guide light that signals right or left turn at the slightest turn of the steering wheel. Avoid the danger and awkwardness of signalling by hand by installing one of these improvements on your car. Also combines an effective and dependable tail and stop light, a great boon when driving at night, in rainy weather or snow-storm. When motor stops, only tail light operates. Made of solid Bakelite parts. Easy to attach, no holes to drill. Fits bolts on lamp bracket of any car. Attractively nickel-plated frame. Complete with diagram and easily understood instructions for installing.

8R8288—List, \$10.00. Net **\$6.95**

Rainbow Jewel Dash Lamp Cap

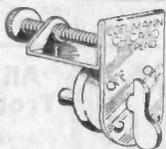
The snappy, multi-colored lamp cap. Dresses up the entire instrument board. Fits over bulb of oil dash lamp. Made of long-wearing nickel-plated white metal. Studded with nine (9) bright, sparkling, colored jewels. Really a beautiful accessory for the car. These lamp caps are fast sellers. You see them on many cars. Ship. wt., 3 oz.



8R8361
List, 75c
48c
Each

New Clamp-On Dash Switch

New and more handy. Clamps on to any dash without the use of a single tool. Side-to-side lever controls current on or off. For use with tail, side or auxiliary lamps of any kind. Full nickel finish. Will outlast the car. List, 35c.



8R8341
17c
Each, Net



Stop Light Switch

Highest quality workmanship—most dependable and efficient stoplight switch made. Non-rustable alloy metal parts. Wiping type contact insures perfect operation.

8R8369
13c
Ea.

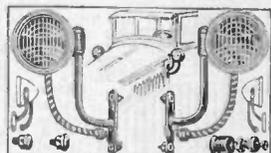
\$2.30

EACH
NET



Jeweled 3-Way Light

This is the real combination light. A Stoptlight (Green Lens), a Tail Light (Red Lens) and a Backing Light (White Lens). The backing light protects you from the many dangers of backing up. It shows you the way behind clearly, and guards you from the hazards and expense of backing in ditches, fences, garage doors, etc. This beautiful unit is embellished with three (3) beautiful, colored jewels, to comply with certain state laws. Heavy nickel trim. Complete with all installation accessories, including dash switch. A guaranteed product. At our low price this combination light is a tremendous value. Ship. wt., 5 lbs. List price, \$5.00.
8R8459—With Universal Bracket... **\$2.30**
8R8460—With License Plate Bracket **2.30**



Beautiful Side Lights

Add class to that new car. Dress up the old car to make it look like new. Many high priced 1928 cars are equipped with handsome side lights of this kind. Can be installed on cars already equipped with stud type side lamps as we furnish two nickel plated and polished oval head bolts to fill up holes left by removing these lamps. Designed to conform with the popular bullet type head lamps. Can easily be put on by anyone. The lamp bodies are made of brass, and the brackets are made of nickel silver. All brilliantly nickel plated and polished. All accessories and instructions included. Lamps are wired. For all cars except 1928 Ford. List, \$12.50. **8R8499—Net price, \$7.36** per pair.



Simplicity Dash Lamp

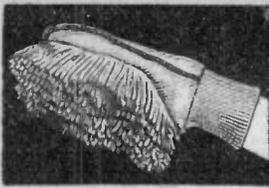
Brightly nickel plated. For all cars. Fits metal or wooden dash. Individual switch. Very easy to install, requiring only one 3/8-in. hole. Shank 1 inch long. Ship. wt., 5 oz.

8R8461
32c
Ea.
Lots of 3
31c Each



Dash Switch

Push-pull type. Neatly nickel-plated. 1-inch shank. Ship. wt., 4 oz. List, 30c. **8R8371—(Lots of 3, 11c Each.)** 12c



Slip-On Dust Mitt

Just the thing for polishing cars, glass, furniture, nickel, etc. Slips on like a mitt. Keeps the hands clean. Soft yarn chemically treated to absorb the dust. Will not scratch. Can be easily washed. Sells on sight. Shipping weight, 8 ounces.

8RB674 Each Net **24c** Doz. Lots, Each **22c**



Canvas Gloves

Per Pair **18c**

Well made, close fitting canvas gloves for working around the car or house. Heavy, long-wearing Twill Canton Flannel. Soft nap inside. 3-seam back. Knit wrist. Shipping weight, pair, 3 ounces.

Doz. Lots, Pair **15c**

Top and Cushion Dressing

A flexible waterproof preservative for pants, ote, leather, etc. Guaranteed not to peel, harden or crack. Dries to a beautiful jet black gloss in thirty minutes. Ship. wt., 1/2 pint, 1 lb.; pint, 2 lbs.

8RB277—1 pint, each net **53c**
8RB285—1 quart, each net **98c**



Black Tire Dressing

It keeps the tire fresh, stops the harmful effects of sunlight on rubber, and dresses up the car. Ship. wt., 1/2 pint, 1 lb.; pint, 2 lbs.
8RB275—1/2 pint, each net **21c**
8RB276—1 pint, each net **30c**

Top Patch Outfit

Quick way to repair torn tops and cushions easily and permanently. Contains strip of patent coated patching material, 3x3 1/2 in. and 1/4 in. tube of extra adhesive cement. Makes the men as good as new. Sbgp. wt., 8 ounces.

8RB083 List, 50c. Carton of 12 **28c** Each Net **\$3.00**

Graphited Penetrating Oil

Used largely on springs and for silencing body squeaks. Also splendid for loosening "frozen" nuts and bolts. Not affected by temperature changes. Not become gummy. Cuts rust quickly. Ship. wt., 1 lb. and 1 1/2 lbs.

8RB080 1 pint, List, 50c. **30c** Each
8RB082 1 quart, List, 75c. **58c** Each
Box of 12 **\$3.36** Box of 12 **\$6.99**



Orange Shellac Gasket Compound

A solution of pure orange shellac combined with finest far eastern gums cut in highest proof alcohol. Ready for use on all gaskets, whether metal, leather, paper, asbestos, canvas, fibre, rubber or otherwise. Ship. wts., 4 oz., 1/2 lb., and 1 1/2 lbs.

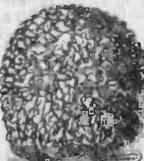
8RB036 2-oz. bottle **9c** Ea.
8RB037 1/2-pt. can **28c** Ea.
8RB038 1-pt. can **50c** Ea.
Dozen Lots **8c** Each Doz. Lots **27c** Each Doz. Lots **45c** Each



Finest Quality Chamols

Extra quality chamols, selected from finest skins. Each in dustproof envelope. Priced very low. A much better grade than ordinarily sold. Shipping weight, about 8 ounces each.

8RB278 12x14 in. **29c** Ea. Net
8RB279 16x21 in. **\$1.05** Ea. Net
8RB280 19x25 in. **\$1.24** Ea. Net



Sheep Wool Sponges

First quality soft sheep wool sponges of very strong texture. Will give long service. Free from grit. Well washed. All fresh new stock. Close mesh; no holes. Ship. wt., 8 oz.

8RB256 About 6 1/2 in. Diam. **35c** Ea. Net Dozen Lots **26c** Each
8RB257 About 7 1/2 in. Diam. **46c** Ea. Net Dozen Lots **33c** Each

Auto Body Polish

A polish of first quality. Can be applied either with spray outfit or cloth. It cleans as it polishes, restoring the original lustre of finish, and leaving a hard dry, oil-free surface. Keeps the car looking new. For Duco, lacquer and enamel finishes. Ship. wts., 1 1/2 lb. and 1 lb.

8RB266—1/2 gal., each net **\$0.40**
8RB267—Quarts, each, net **.65**
8RB268—Gals., each, net **1.45**



Genuine Duco No. 7 Auto Body Polish

Developed by the makers of Duco finish. Wonderful results when applied with a soft cloth. Gives a hard dry finish. Removes the "traffic film." Restores the finish of the car perfectly. Absolutely non-injurious. Ship. wt., 1 1/2 and 3 lbs.

8RB681—1 pint, List, **70c**
\$1.30. Net
8RB683—1 quart, List, **\$1.10**
\$2.00. Net



Simonz Wax or Kleener

Known the world over for its fine quality. Makes old cars look like new and keeps them that way. A big seller everywhere. Ship. wt., 8 oz.

8RB281—Polishing Wax, Each, Net **38c**
8RB282—Simonz Kleener, Each, Net **38c**
Dozen Lots, either kind, Each **37c**



Clover (Paste) Nickel Polish

Keeps the nickel on your car looking new, without an equal for regular nickel plating as well as the new Chromium plating. Not only takes off rain spots but prevents them from forming. Every car owner wants to keep his nickeling shiny and bright. 4-oz. cans. Ship. wt., 1/2 lb.

8RB684 Lots of **35c** Ea. Net **34c** Ea.



Steel Brush

A handy brush for removing rust from wheels, fenders and engine parts. Four rows of steel wire bristles. 10 in. long; 1 in. wide. Ship. wt., 1 lb.

8RB251

Spoke Brushes



24c Ea., Net

Especially suited for cleaning wheels. Handle cannot pull off or turn. Very stiff center. 12 inch brush of white Tampico fibre. 18 in. long over all. Ship. wt., 1 lb.

Doz. Lots, **22c** Ea.



Fender Brush

Smooth polished hardwood handle. Stiff palm-leaf brush, 4 1/2 inches. Ship. wt., 1 lb. each.

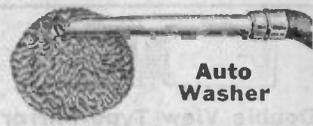
8RB252—20-in. long, **37c** Net, Each
8RB253—10-in. long, **25c** Net, Each

Auto Spray Brush



Quickly attached to any hose connection. Water sprays uniformly over entire brush. Easy to reach into small spaces.

8RB254—List, \$1.25. Each **69c** Net



Auto Washer

Consists of a one-piece specially designed 9-inch nozzle, made of polished aluminum, to which is attached a sheep's wool sponge. Attached to regular garden hose and sprays through sponge. Constant water flow prevents grit accumulation in sponge. Makes car washing easy. Ship. wt., 1 lb.

8RB258 List, \$2.50. Each **\$1.76** Net



Soap Holding Auto Washer

Here is something new and practical. A patented two-piece nozzle that holds soap flakes. The ideal nozzle for your hose, when you are washing your car. Made in two separate sections. By unscrewing the soap containing section, the nozzle can be used for rinsing car, spraying lawn, etc. This is the only nozzle that has three different adjustments. It throws either a straight stream, or a spray, or a mist. Whichever you desire. Sells on sight. Ship. wt., 1 1/2 lbs.

8RB287—List, \$2.50. Each, Net **\$1.25**

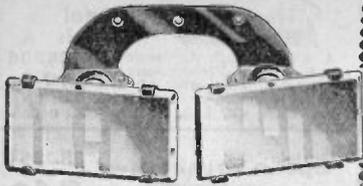
Knit Polishing Cloth Handy—Economic



Softer than cheesecloth and much more lasting. Holds polish better than any other cloth—used by car manufacturers in polishing up new cars. Big values at these special prices. Shipping weight, 5 yards, 1 pound.

8RB259—5 yd. roll, List, 50c. Each, Net **26c**
8RB260—35 yd. roll, List, \$3.00. Each, Net **\$1.68**

**PIONEER GOLD STANDARD
Twin-View Mirror**



The driver gets complete view of rear and both sides of the road with these Twin View Mirrors. A genuine 24-karat gold underlay under the silvering insures long life brilliance. Give a perfect image yet positively eliminate all blinding glare. The bevels of the two heavy genuine plate glass mirrors are highly polished. Special ball-joint bracket for attaching to all cars. Each mirror can be adjusted separately. An extremely low price for such high quality. Shipping weight, 2 pounds.

BR8919
List, \$2.50
96c Each Net
Lots of 6,
90c Each

**Two-Sided Mirror for Day or
Night Driving**

A new safety mirror with crystal mirror on one side and anti-glare darkened mirror on reverse side. Turns in socket pivot of bracket to show either side. Newest type, heavily silvered. Full nickel-plated fittings. Beveled edges. Size 2 1/4 x 8 inches. Can be removed and passed around car for vanity mirror. Fits all cars. Shipping weight, 1 1/2 pounds.



BR8940
List, \$1.50
Lots of 3,
76c Each
78c Each Net



Double View Type Mirror

Permits all occupants of front seat to have clear wide-range rear vision. Vibrationless, easily adjustable. Movable to any angle. Two high-grade plated glass beveled mirrors. Heavy, rigid nickel plated universal bracket fits all cars. Special hand adjustment. Retail at \$1.50. Shipping weight, 2 lbs. In lots of 3, each, 29c

BR8320
73c Each



Single Mirror

This silver polished plate glass mirror gives clear vision. Size 2 1/4 x 7 inches. Latest improved bracket is adjustable. Easy to install. Shipping weight, 1 1/2 pounds.

30c
Each Net

BR8382
List Price, 50c



Truck Mirror

BR8386
List, \$1.00.
Lots 6
69c Each

71c Ea. Net

Constructed especially for trucks and open cars. Clamps adjustable to any position. Extension arm 18 inches long. Clear vision mirror 4 1/2 inches in diameter. Ship. wt., 1 1/2 lbs.



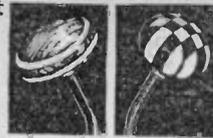
**Fulton
Look Under
Glare Stop**

Completely blots glare of approaching driver's headlights and leaves road clearly visible. Unlike any other device of this type, you look under it -- not through it. Guaranteed to give satisfaction. Highly nickel-plated steel frame attaches above windshield and swings out of the way when not in use. Easily installed. Shipping weight, 1 lb.

BR9052
List \$1.50
\$1.35
Each Net

**"Velwood" Black Walnut
Gearshift
Knobs**

Black walnut and light maple inlaid harmoniously. Will not crack or sweat. Bushings will not loosen. Adapters to fit all cars. State make and model when ordering. Ship. wt., 8 cc.



BR8896—Inlaid Model. List, \$1.00
BR8897—Checker Model. List, \$1.50.
Net 97c

**Beautiful Genuine Onyx
Gearshift Balls**



Rich, brilliant coloring. Will not chip or break. State make and model of car.
BR8473—Oval. Net, 78c
BR8475—Round. 78c
Net 78c
Crystal Onyx Ball
Clever, scientific imitation.
BR8445—Round. List, 75c.
Net 19c
BR8898—Oval. List, 75c.
Net 19c

Gear Shift Extension

For All Popular Cars



Makes gear shifting much easier. Fitted with 1 1/4-inch genuine onyx ball. For all cars. Ship. wt., 1/4 lb.
State name and model of car.

BR8466 Complete, 3 1/2 in. size
95c
BR8467 Complete, 5 in. size
97c

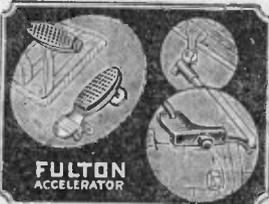
Extension only, no balls included
BR8468—Length, 3 1/2 in. Net, 18c
BR8469—Length, 5 in. Net, 18c

**Fulton
Universal
Accelerator
Pad**



For All Cars

Nickel plated. Thick live rubber pad holds foot steady. Easy to install. Shipping weight, 1 1/2 pounds.
BR9071—List, \$1.00. Net, each, 60c



For All Fords
BR9070
List \$1.00
60c
Each Net

The new improved type operates evenly and smoothly. The foot pedal is covered with thick, live rubber, with nickel plated binding. Easy to install.



**Cigarette
Humidor and
Dispenser**

This new Dispenser is extremely practical. It keeps cigarettes fresh and serves them with a single turn of the knob on the end. The only dispenser with a built in humidor. Clamps on steering column. Ship. wt., 1 lb.
BR8899—List, \$3.00.



**Dashboard
Cigar Lighter**

Reliable electric lighter, nickel plated finish. Several feet of cord, terminals clamp and screw with instructions for installing.

BR8476
63c Ea. Net

De Luxe Cigar Lighter

Beautifully finished in nickel and walnut. Lighter has long cord which winds on automatic reel entirely enclosed. Ash receptacle removable. Nickel chrome wiring heating element guaranteed one year. Each, List, \$5.00.



Shipping weight, 1 1/4 pounds.
BR8477—For 6-volt battery. **\$2.73** Net
BR8478—For 12-volt battery. **\$2.79** Net

Wireless Cigar Lighter

The latest in lighters; no reels or cords to contend with. The heating unit is removable and



BR8920
Lots of 6
\$1.52
List \$2.50
\$1.89 Net

may be passed around the car. Beautiful polished bakelite. Lighter attaches to side of seat or instrument board. Comes complete with clamp-on bracket, thumb screw, and battery connections. Assorted colors of black, brown, pear, and mahogany. Shipping weight, 1/4 pound. 6-vol only.

Clamp-On Lighter

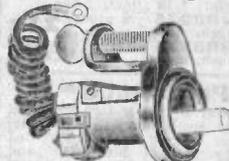
A reliable, clamp-on type lighter, priced low. The 60-inch cable reels in metal case which is concealed by the dash. Exposed parts are brass, nickel plated. Current switches on and off automatically.



BR8474
List \$2.00
\$1.42 Ea. Net

May be used as trouble light by replacing heating unit with bulb. Makes neat installation; does not mar dash. Shipping weight, each, 1 1/2 pound.

Self Lighter

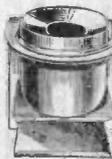


BR8364
List \$2.50

\$1.65 Ea. Net
Lots of 6
\$1.60 Ea. Net

Merely insert cigarette in this lighter and in a few seconds it is ready to smoke. No cords to bother with—works entirely automatically. Lights while you drive; no need to take hands off the wheel or eyes off the road. Clamps on dash. Complete with insulated electric connection. Shipping weight, 1/2 lb.

**Clamp On Ash Tray and
Match Holder**

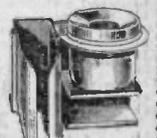


This handy Ash Tray and Match Holder is made of heavy brass, highly nickel-plated. Clamps on dash. Shipping weight, each, 1/2 pound.

BR8470
Lots of 6, 33c each
37c Each Net

Clamp On Ash Tray, Cigarette and Match Holder

Compact and practical. Cup easily removed to empty ashes. Made of heavy brass, nickel plated. Ship. wt., 1/4 lb.



BR8472
Lots of 6, 78c each
84c Each Net

"World Beater" Spark Plugs Will Make Big Profits for You!



These heavy, husky spark plugs, with their carbon-free electrodes and crack-proof shell are an easy 50¢ seller, and for service and long life are the equal of many plugs wholesaling at twice our special price. Buy them in 100 lots. You can sell them fast at a profit of 100 per cent and still meet all competition.

Guaranteed for the Life of the Car! The World-Beater is a finely made plug. It is fully protected against shorting and carbon-forming by the complete flash-point shell. Heavy porcelain-like insulator will not crack or break from heat or vibration. Easy to take apart for cleaning. Double-grip screw connectors for terminals.

8R8523— $\frac{1}{2}$ in. Long.
8R8525— $\frac{1}{2}$ in. Regular.
8R8524— $\frac{1}{2}$ in. Long.
8R8526— $\frac{1}{2}$ in. Regular.

Any Size

27¢ ea.

27¢
Each

Lots of 24, 26¢ each.
Lots of 100, 25¢ each.
Shipping Weight, 8 oz. each

Nationally Advertised Spark Plugs

AC Champion Splittorf

AC
Net,
40¢
And Up



Net,
52¢
And Up



Net,
37¢
And Up

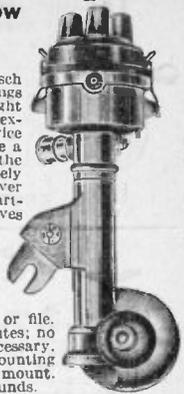


Three of the finest Spark Plugs made—known the world over for their superiority and the satisfactory service they give—offered to you at prices that give effective savings and make larger profits. You will find the car, make and model listed in the column at the left and the number of the brand plug you wish in one of the three columns at the right. Shipping wt. each, 8 oz.; 100 assorted, 25 pounds.

Car and Model	A. C.	Champion	Splittorf	Car and Model	A. C.	Champion	Splittorf
Price for Model T Fords. List.	50c	75c	50c	Price for Model T Fords. List.	50c	75c	50c
NET EACH	40c	52c	37c	NET EACH	40c	52c	37c
Lots of 100, each	34c	41c	31c	Lots of 100, each	34c	41c	31c
For 1928 Ford "A" and All Other Cars. List Price	75c	75c	50c	For 1928 Ford "A" and All Other Cars. List Price	75c	75c	50c
NET EACH	53c	53c	32c	NET EACH	53c	53c	32c
Lots of 100, each	50c	50c	30c	Lots of 100, each	50c	50c	30c
Ajax.....	8R8560	8R8581	8R8949	Oldsmobile '27... 8R8562	8R8569	8R8590	
Buick to 1924... 8R8649	8R8569	8R8587	8R8949	Overland 4..... 8R8990	8R8580	8R8949	
Buick 1925-27... 8R8563	8R8569	8R8537	8R8581	Overland 4..... 8R8565	8R8570	8R8581	
Cadillac..... 8R8566	8R8580	8R8949	Inclusive..... 8R8560	8R8580	8R8949	8R8949	
Chandler to 1923 8R8568	8R8560	8R8588	Palme..... 8R8560	8R8568	8R8949	8R8949	
Chandler 1924-27 8R8564	8R8581	8R8588	Pearless..... 8R8560	8R8568	8R8949	8R8949	
Chevrolet..... 8R8573	8R8581	8R8535	Pierce Arrow... 8R8990	8R8580	8R8949	8R8949	
Chrysler..... 8R8560	8R8580	8R8949	Pontiac..... 8R8649	8R8581	8R8588	8R8588	
Cleveland..... 8R8649	8R8581	8R8538	Reo to 1927... 8R8555	8R8570	8R8584	8R8584	
Dodge, 4 cyl.... 8R8564	8R8581	8R8538	Reo Flying Cloud 8R8566	8R8568	8R8590	8R8590	
Dodge, 6 cyl.... 8R8989	8R8568	8R8538	Rickenbacker... 8R8563	8R8569	8R8587	8R8587	
Essex..... 8R8567	8R8577	8R8931	Star 4..... 8R8560	8R8568	8R8588	8R8588	
Erskine..... 8R8990	8R8581	8R8930	Star 6..... 8R8560	8R8568	8R8949	8R8949	
Ford, Model T... 8R8572	8R8579	8R8584	Studebaker Std. 1920 on... 8R8562	8R8578	8R8980	8R8980	
Reg. 1/2 inch... 8R8989	8R8991	8R8539	Studebaker Big 6 1920-27... 8R8989	8R8581	8R8980	8R8980	
Fordson Tractor 8R8572	8R8579	8R8584	Stutz 4..... 8R8560	8R8578	8R8590	8R8590	
Gardner..... 8R8562	8R8578	8R8949	Stutz 6..... 8R8989	8R8581	8R8590	8R8590	
Hudson to 1921 8R8560	8R8568	8R8949	Willis Knight 4... 8R8990	8R8568	8R8539	8R8539	
Hudson, 1921-28 8R8567	8R8577	8R8931	Light Six Model 8R8562	8R8568	8R8588	8R8588	
Marmon through 1924... 8R8562	8R8568	8R8590	Willis Knight 8R8560	8R8580	8R8589	8R8589	
Marmon (little) 8R8562	8R8578	8R8590	Model 66A and 70A... 8R8560	8R8580	8R8589	8R8589	
Maxwell..... 8R8560	8R8580	8R8949	Whippet 4 and 6. 8R8560	8R8580	8R8949	8R8949	
Moon..... 8R8560	8R8580	8R8949					
Nash A. & S... 8R8563	8R8569	8R8587					
Spec. 6..... 8R8560	8R8580	8R8949					
Hupmobile 4 & 8 8R8560	8R8581	8R8588					
Hupmobile 6..... 8R8560	8R8568	8R8589					
Jewett..... 8R8990	8R8568	8R8949					
Jordan..... 8R8560	8R8568	8R8949					
Kiesel 6..... 8R8560	8R8568	8R8949					
Lincoln..... 8R8560	8R8568	8R8949					
Nash Light 6... 8R8560	8R8568	8R8590					
Oakland to 1924 8R8563	8R8569	8R8588					
Oakland from 1924... 8R8649	8R8581	8R8588					
Oldsmobile 8... 8R8560	8R8580	8R8590					
Oldsmobile 18 to '28... 8R8563	8R8569	8R8590					

Genuine Bosch Ignition At Way Below Market Prices!

The famous Bosch FI-600 Ignition brings the Model T Ford right up to date and our exceptionally low price enables you to make a big profit. Makes the spark control absolutely automatic; spark lever is not needed for starting. Ends stalling; saves gas; adds power to the motor and makes it run smoother at all times. Eliminates the four regular Ford coils—no contact points to foul or file. Installed in 20 minutes; no drilling or fitting necessary. Special block mounting bracket with coil mount. Shipping wt., 20 pounds.



8R8963—With coil Net. \$16.80 each... **\$9.98**
8R8964—Without coil. List \$11.80. Net. each... **\$6.48**

Bone Dry Distributor Cap Cover

This flexible rubber cover completely covers and protects the distributor cap keeping it absolutely dry. Gives absolute protection for the ignition system against short circuits as no rain, snow, water or moisture can enter with this cover installed. Pays for itself in the savings of time and annoyance; every car needs one. Ship. wt., 8 oz.



8R9091—For 4 cylinder cars. List, 76c. **21c**
8R9092—For 6 cylinder cars. List, \$1.00. **22c**

Wiring Assemblies

For Fords

Replacement wire assemblies made to interchange with the genuine assemblies furnished by the Ford Motor Company.



8R9029—4 wire for 1926. Each 22c
8R9030—5 wire..... 22c
8R9031—6 wire..... 30c
8R9032—7 wire..... 43c
8R9033—Set 4 spark plug wires up to 1926. 17c
8R9034—Spark plug wires for 1926, set of 4..... 16c

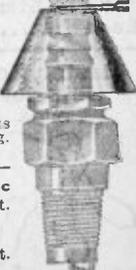
Spark Plug Wrench

Machined from solid bar stock with size of socket opening stamped on each end. Beautifully knurled, blue mottled finish, case hardened and tempered. Swivel type handle is very convenient in tight places. Fits all A. C., Champion and other popular spark plugs. Length over all 3 1/2 ins. Shipping wt., 8 oz.

8R9635—1 1/2 and 1 3/4. List, 70c. Net, each... **34c**

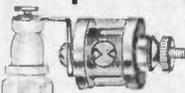
Spark Plug Umbrella

The best "short stop" ever put on a motor. Merely slip umbrella on spark plug pin. Protects plug against oil, grease, and water. Stops the shorts; insures even firing. Keeps the motor running smoothly under all driving conditions. Fits any make or type of plug.



8R9074—Set of 4 21c per set net.
8R9075—Set of 6 30c per set net.
Lots of 6 19c per set.
Lots of 6 27c per set.

Spark Intensifier



8R8582
List 35c

24c Each
NET
Lots of 24, 13c ea.

An adjustable cap in this Intensifier makes plugs fire at all times when they are missing on account of soot or other trouble. Shipping wt., 1 lb.



Hollow Handle Hand Drill

Has wide, heavy single gear 3/4 in. disc wheel finished in blue enamel. Bright nickel plated steel shaft with fully polished steel chuck, having three hardened jaws for holding drills up to 1/2 in. in diameter, inclusive. Large handle is hollow with screw top, and holds a number of drills. Length over all, 10 1/2 in. Ship. wt., 3 lbs.

BR9718—List, \$2.50. Net, each... **\$1.35**

Goodell-Pratt Precision Breast Drill



A fine quality 2-speed drill with a chuck capacity range from 0 to 1/2 inch drills, inclusive. Ball-bearing at end of spindle makes steady, easy running. Steel cut gears. Disc wheel finishes in dark blue. Drill chuck fully polished with three hardened jaws. Black enamel adjustable breast plate. Tooth wheels are enameled. Length, 18 in. Black lacquer frame. Shipping weight, 7 pounds.

BR9722—List, \$5.00. Each, net... **\$2.95**



Goodell-Pratt Automatic Drill

A nationally advertised, very popular drill. Cuts quickly and makes clean holes in eight different sizes, 1/16 to 11/64. Drills contained in handle—each in separate numbered compartment. Front portion of tool is of hollow brass tubing and works inside on the spiral-driven principle. All exposed metal parts highly polished nickel plated. Length, 19 in. Ship. wt., 1 lb.

BR9733. List \$2.50. Each, net... **\$1.68**

Twist Drill Sets

Straight shank carbon steel twist drills of a very fine quality. Fully polished, semi-high speed type. Every drill is guaranteed to give satisfactory service. Set consists of sixty drills put up on a strong paper folder for counter selection. Drills range in size from No. 1 (about 1/22 inch) to No. 60 (about 1/64 inch). (Base block illustrated is not furnished.) Shipping weight, 1 pound.

BR9730—List, \$4.50. Net, each... **\$2.10**

Same quality drills as above in set of nine: 1/64, 5/64, 3/32, 7/64, 1/4, 9/64, 5/32, 11/64 and 3/16 in. Shipping weight, 8 ounces.

BR9728—Set of 9 Drills. List, 75c. Net, each... **38c**

Cleveland Drill Sets

All sizes straight shank drills, steel wire gauge, from 1 to 60, inclusive. Each hole numbered for drill, even on one side, odd numbers on the other. Genuine Cleveland quality.

BR9374—Drills Only Per set... **\$4.85**

BR9375. Stand Only Each Net... **\$1.82**

Master Key Sets for Fords



A necessity for every garage and service station. This set of four keys will operate all ignition switches on all Ford Model T cars.

BR9079
27c
Each, Net



Standard equipment on many General Motors cars. Entirely new and improved ring construction. Absolutely guaranteed to stop oil pumping and piston slap. Give perfect cylinder lubrication without waste. Better material; less crimps per ring; broader and more flexible. Order the same size as piston rings. Require no cutting or trimming. Fit all size piston ring grooves up to 3/8 in. wide or 5 in. diameter. Add pep and power. Prevent flooding and carbon accumulation.

BR8733—1/4 in.
BR8732—3/16 in.
BR8731—1/8 in.
List Price, each, 20c.
Gross Lots, each, 9c

8c
Each, net



Hastings Slotted Rings

Many engineers claim this to be the most practical type of oil control ring. The oil in the slots forms an additional seal to the piston, while all surplus automatically runs back into crank case through the holes in piston grooves. This feed back of oil occurs on down stroke, leaving only the required thin film on the cylinder walls.

BR9325—Sizes 2 3/4 to 4 1/2 inches, inclusive. List, 35c. Net, each... **21c**
In lots of 25-100 rings, each... 17 1/2 c
In lots of 100 or more, each... 15 1/2 c
Supplied in all standard sizes or following oversizes: .005; .010; .015; .025. State size.



Dubl-Test Power Rings

Perfectly circular, uniform in tension and with a turned edge for quick seating, and absolutely accurate in size. Step cut. Each joint twice milled with medium sharp points to form perfect circle when closed in. Average shipping weight, each, 6 ounces.

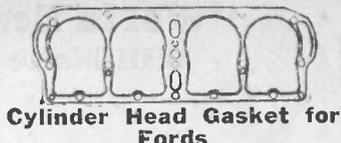
BR9323—Sizes 2 1/2 to 4 1/2 inches, inclusive. List, 25c. Net, each... **13c**
In lots of 25 to 100 rings, each... 12 1/2 c
In lots of 100 or more, each... 10c
BR9324—Sizes 4 1/2 to 5 inches, inclusive. List, 30c. Net, each... **15c**
In lots of 25 to 100 rings, each... 15c
In lots of 100 or more, each... 13c
Supplied in all standard sizes or following oversizes: .005; .010; .015; .025. State size.

Genuine Ampeco Pistons for Fords and Chevrolets

Finest grade light grey iron. Accurately ground. Complete with Bunting Bronze Bushings and fitted Pins. Average shipping weight, 2 1/2 pounds.

For Ford—28 cc.
BR9334—Standard.
BR9335—.0025 O. S.
BR9336—.005.
BR9337—.010.
BR9338—.015.
BR9339—.03125.
Net, each... \$1.15

For Chevrolet
BR9340—Standard.
BR9341—.003 O. S.
BR9342—.005.
BR9343—.010.
Net, each... \$1.24



Cylinder Head Gasket for Fords

Superior in every way to the ordinary gasket. Outer wall of tough malleable copper. The edge of the asbestos is not exposed but is completely covered and overlapped with heavy copper. Shipping weight, each, 1 1/2 pounds.

BR9108
16c
Each Net



Flanged Gaskets for Fords

2-in-1 type. For intake and exhaust manifolds. Fit perfectly. Heavy copper reinforced center ring. Lots of 100... \$1.60

BR9112
2c Ea.

Special Ratio Gear for Fords

Nationally known Milwaukee make. Considered the standard Ford replacement gears. Exceptionally large rolling surface. No noise. They are accurately formed. Shipping weight, each, 4 pounds. BR9011—3 to 1 ratio. List, \$7.50. Each, net... **\$3.65**



Speed Gear and Pinion for Chevrolets



Spiral ring gear and pinion for Chevrolets. Finest high carbon drop forged steel. 34-tooth spiral gear and 20-tooth pinion for Superior model (late 1921 to early 1925). Accurately machined. Teeth sharply cut. Ship. wt., 5 lbs.

BR8792—List, \$10. Net... **\$4.69**

Air Cleaner for all Fords

Type A Ford Model, consists of a metal cylinder, attached to the carburetor intake. Filled with chemically treated filter, which prevents dirt entering carburetor. Will last life of car. Easy to clean, simple to attach. Ship. wt., 1 lb.

BR8782—List, \$2.00. Net... **\$1.28**

For the Model T
BR8783—Whirlwind type. List, \$2.50. Net... **\$1.73**

Generator Cut-Out

Complete with cover and mounting bracket. Prevents overcharging. Extra heavy throughout. Fits all Fords. Ship. wt., 2 lbs.

BR9044—List, \$1.00. Each, net... **38c**

Generator Brush Holder

A perfect replacement for Ford part No. 5132C. Accurately made, insures smooth, unbroken service.

BR9037—Net, 19c
Each, net... 18c
Box of 10, each... 18c

Brushes for Ford Generator and Starter

BR9058
Graphite, 13/16 x 3/8 x 1-1/8 concave face, ring terminal (Two needed.) **6c**

BR9059
Graphite, 13/16 x 3/8 x 1-1/8 concave face—ring terminal, control. (One needed.) **6c**

BR9060
Metal starter brush. (Four needed.) **11c**

BR9597
List, \$3.00

\$1.48

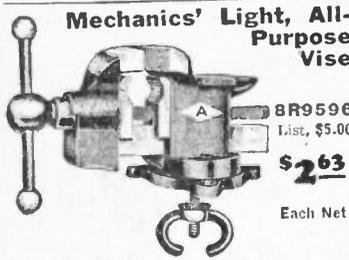
Each Net



Solid Base 9-lb. Vise

A big special value. Seldom do you see a vise of this weight and quality at such a low price. Built for real heavy garage or home service. Finished in green and red. Similar to a high priced vise. The 3 1/2-inch red-faced jaws are knurled and highly polished. Opens 3 1/2 inches. Has 5/8-inch steel screw with machine cut thread. Solid base for bolting to work bench. Heavy duty handle. Ship. wt., 10 lbs.

Mechanics' Light, All-Purpose Vise



BR9596
List, \$5.00

\$2.63

Each Net

Quick bench clamp attachment. Has broad, substantial swivel base. Can be turned in any position parallel with bench. Pin-in-hole locked, for rigid, solid hold on bench. Will positively stay put. Heavy jaws, in red finish. Body and base enameled black. Heavy anvil top. Machine cut screw thread. Sturdy slide. Accurately aligned. 3 1/2-in. ; opens 3 in. Weighs 18 lbs.

Piston Alignment Jig



With standard Ford size bushings. Will save its cost on one job. Bushings can be furnished for all makes of cars in following sizes: 1 1/2, 1 3/4, 1 7/8, 1 13/16, 1 15/16, 1 7/8, 1 13/16, 2, 2 1/16, 2 1/8, 2 1/4, 2 1/2, 2 3/8, 2 1/2, 2 5/8, 2 3/4, 2 7/8. Column is close grained cast iron, machined and hand scraped to within .0005 inch. Arbor is chrome nickel steel, hand ground—a form-perfect guide square with the face of the column. V groove fits any size piston pin. Ship. wt., 20 lbs.

BR9420
\$9.98

Each Net

BR9421
Extra Bushings \$1.15
Each Net

Crucible Steel Punch Set



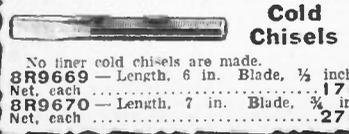
Body is made of finest Crucible steel, spring tempered and polished. Handles of 3/4 in. round steel, knurled and case hardened. Set consists of 4 pin punches and one center punch in the following sizes: Pin Punches, 1/8 in., 3/16 in., 1/4 in., and 5/16 in. Length over all, 7 3/4 in. Center Punch, 3/16 in. Length over all, 6 in. All in neat leatherette roll.

BR9637 Each Net

List, \$2.50

\$1.39

Cold Chisels



No finer cold chisels are made.

BR9669—Length, 6 in. Blade, 1/2 inch. Net, each **17c**

BR9670—Length, 7 in. Blade, 3/4 in. Net, each **27c**

Perfect Handle Type Screw Driver



Made of one-piece drop forged steel of high quality, carefully hardened the entire length. Handle is of hardwood with varnished finish. The finest screw driver made. Average ship. wt., 12 oz.

No.	Size	Net, each
BR9676	4 in.	18c
BR9677	5 in.	24c
BR9678	6 in.	27c

BR9668

49c

Per Set



Screw Driver Assortment

The best and lowest reasonably priced screw driver assortment on the market. A driver for every purpose. Best high grade steel, nickel plated. 12 assorted screw drivers on handsome colored display card. Ship. wt., 3 lbs. List Price, \$1.20.

Standard Screw Driver

Black rubberoid, fluted handle. Hardened and well tempered steel blade fully polished. Ferrule is nicked and riveted through the blade. Average shipping wt., 8 oz.

BR9671	4 in. Net, each	8c
BR9672	5 in. Net, each	9c
BR9673	6 in. Net, each	10c
Package of 12 assorted		96c

Crescent Pattern Wrenches



This adjustable 22 3/4° angle wrench is drop forged and heat treated according to special process. Has strong thin handle and jaws that hold and grip like a vise.

Ship. wts., 1, 2, 2 1/2 lbs.	BR9655	BR9656	BR9657
	35c	44c	55c
	EA. Net 6-in. List, 75c	EA. Net 8-in. List, \$1.00	EA. Net 10-in. List, \$1.10

Stillson Pattern Wrench



Made of fine tempered tool steel, drop forged, with case hardened jaws. Has springs with release jaws when pressure is removed. Ship. wt., 3 lbs.

BR9650—6 in.	List price, \$1.25.	45c
BR9651—8 in.	List price, \$1.35.	48c
BR9652—10 in.	List price, \$1.45.	55c
BR9653—14 in.	List price, \$2.00.	77c

Thin Wrenches Chrome Vanadium Steel



Especially intended for those who know tools and demand the best. Positively guaranteed not to break or spread. No finer wrenches made. Extremely long and light—the jaws thin and narrow to get into close quarters. Drop forged from finest chrome-vanadium steel heat treated. Nickel finish. Ship. wt., 1 lb.

	Open- ing Sizes	S. A. E.	U. S. Nuts	U. S. S. Cap Scr.	U. S. S. Bolt Hds	Net Ea.
BR9674	7/16	3/8	3/8	3/8	3/8	40c
BR9675	9/16	7/8	7/8	7/8	7/8	45c
BR9676	5/8	1 1/8	1 1/8	1 1/8	1 1/8	48c
BR9677	3/4	1 1/4	1 1/4	1 1/4	1 1/4	52c
BR9678	7/8	1 3/4	1 3/4	1 3/4	1 3/4	54c

"S" Wrenches



Double-end, drop forged steel wrenches, semi-finished with polished heads. U. S. Standard, S. A. E. and A. L. A. M. Standard. Ship. wt., ea., about 1 lb.

BR9644—3/8 in.	Net, each	12c
BR9645—1/2 in.	Net, each	19c
BR9646—5/8 in.	Net, each	24c
BR9647—3/4 in.	Net, each	29c
BR9648—7/8 in.	Net, each	36c
BR9654	Set of 5 Wrenches in canvas roll as illustrated. Complete. Net.	85c

Sextet Wrench Set



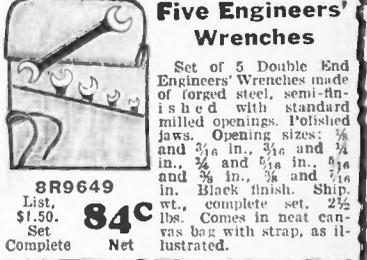
All held together with a knurled head thumb screw. Thin, yet strong and durable. Designed for the adjustment of generator bolts and carburetor parts and valve tappets. Made of an excellent grade of steel 1/10 inch thick.

The six wrenches have twelve openings as follows: 1/32 in., 1/16 in., 1/8 in., 3/16 in., 1/4 in., 5/16 in., 3/8 in., 7/16 in., 1/2 in., 5/8 in., 3/4 in., 7/8 in. Nickel plated and highly polished.

BR9659 **EA.**

List, 75c
19c

Five Engineers' Wrenches



Set of 5 Double End Engineers' Wrenches made of forged steel, semi-finished with standard milled openings. Polished jaws. Opening sizes: 7/8 and 3/4 in., 3/4 and 1/2 in., 1/2 and 3/8 in., 3/8 and 1/4 in., 1/4 and 1/8 in. Black finish. Ship. wt., complete set, 2 1/2 lbs. Comes in neat canvas bag with strap, as illustrated.

BR9649
List, \$1.50.
Set **84c**
Complete Net

Turner No. 30 Gasoline Torch



A fine low priced single needle blow torch for all general repair work. 1 qt. capacity. Made with one piece brass tank and corrugated funnel shaped bottom. Removable soldering hook. Single needle burner of closed generator type. Easy to handle. A big seller for your trade. Ship. wt., 3 1/2 lbs. List, \$7.95.

BR8845—
Net, each..... **\$3.43**

Turner No. 45 Master Blow Torch



Extra quality. Special carburetor type air adjusting tube insures perfect combustion of all fuels. Converts lowest type gas or kerosene into a hot, dry gas, giving 400 degrees more heat with a minimum of fuel. Automatic safety valve and hand fitting pistol grip. Heavy gauge, highly polished one-piece brass tank, positively leak-proof. Removable soldering hook. Guaranteed for life against defects. Capacity, 1 full quart. Ship. wt., 4 1/2 lbs. List, \$13.60.

BR8846—Each, Net..... **\$5.81**

Genuine Turner Acetylene Torch



Ready the instant you light it. Requires no oxygen. The perfect torch for radiator repairing. Complete with three tips. Long tip for reaching radiator flanges. Small tip for brazing wires, or where intense heat is needed on a very small surface. Large tip for heating soldering coppers, sweating joints, etc. Can be attached to any make of acetylene or welding equipment. Uses acetylene only. Ship. wt., 2 lbs. List, \$7.50.

BR8847—Net, each..... **\$4.41**

All Prices Quoted Are Net—There Are No Further Discounts

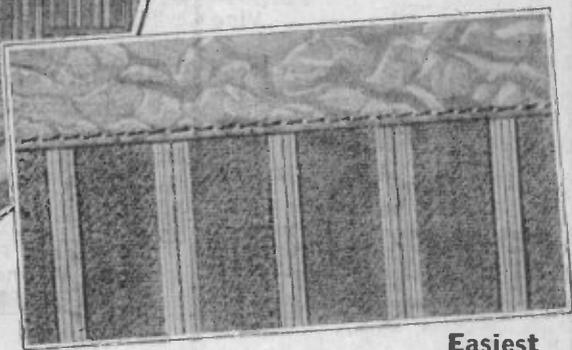
Sell Pioneer

Guaranteed to Fit

Pioneer Seat Covers, at our low, money-saving prices, are by far the best value offered anywhere. Every set of Pioneers is guaranteed to fit perfectly. Every set, including Ford and Chevrolet, has glove fasteners attached, ready to snap on. All edges are bound, and all seams are reinforced. They not only cover the cushions and seats, but also the backs of all front seats. Pioneer seat covers are tailored to exact measurements, and fit the car they are ordered for, without a wrinkle. There are no loose, flappy ends. Be sure to read "How to Order" on the opposite page. By giving us all the information asked there, you are assured of getting a set of neat, close-fitting seat covers that will be a source of pride to the car owner.



**CHEV.
COACH**
1924-28 Inclusive
\$6³⁵
Ea.
Net
Supreme Grade
Pattern No. 1
Shown



**Easiest
to Put On**

A Quality for Every Purse

There are three qualities of Pioneer seat covers. Supreme: A regular priced grade. Equal in quality to many so-called "Deluxe" Commanders. A quality as good as the finest. Remember this when comparing prices. Classic: The best possible quality obtainable. The same as used on the most expensive cars.

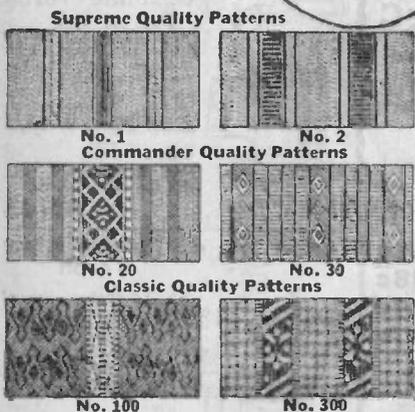
- Supreme Quality Patterns**
- No. 1—Medium tan background with green and purple stripes outlined in black. Bright and colorful. In very good taste.
- No. 2—Rose tan background with alternating blue, green, and red stripes. Harmonizes well with a new interior. A good seller.
- Commander Quality Patterns**
- No. 20—Rich rose tan, and Dutch-blue background, with rose purple and white checker stripes. Very popular and good looking.
- No. 30—Tan and gray background with light diamond checks. Broad blue and black stripes with rose colored center figures.
- Classic Quality Patterns**
- No. 100—Purple brown background with broad yellow stripes and diamond all-over pattern. Enhances the appearance of any car.
- No. 300—Rose background with deep blue stripes, richly patterned to resemble rare tapestry. A big favorite with many.



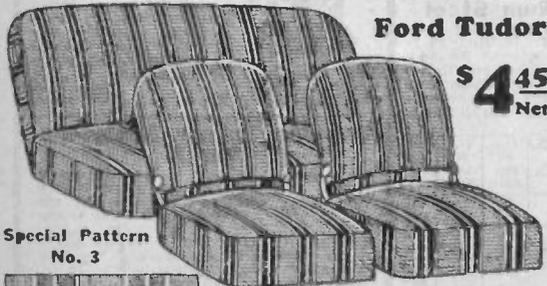
Slip "Snap-On" into upholstery. It stays put



Snap the glove fastener over the button, and it's done.



Be Sure to Specify Pattern Number When Ordering



Ford Tudor

\$4⁴⁵
Net

Special Pattern
No. 3



A colorful blue-gray background with two stripes of brown equally spaced by three fine blue stripes. This attractive combination will harmonize well with almost any color upholstery.

Attractive Slip-On Covers For FORDS and CHEVROLETS

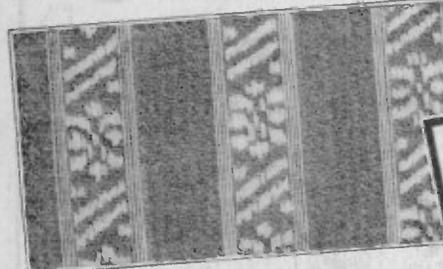
Neat appearance, combined with durability and low price, make these Slip-On Seat Covers for Fords and Chevrolets an exceptionally good value. They will protect the upholstery against wear and dirt over a long period of time, and will add refinement to the car. Carefully tailored to individual order for each model of car, they will fit perfectly. The material is our Special No. 3 Pattern, described below at left. These slip-on covers protect the cushions, back rests, and back of front seats. All edges are bound, and all seams are reinforced. Of a color that does not show dirt easily, they are easy to remove for dry cleaning when desired. Full instructions are included. Be sure to read "How to Order" on the facing page. Only with all this information can we assure you of getting perfect-fitting seat covers.

8R10238	For Ford Roadster, 1915-28, inclusive.....	\$2.08
8R10239	For Ford Coupe, 1915-28, inclusive.....	2.33
8R10240	For Ford Touring, 1915-28, inclusive.....	3.98
8R10241	For Ford Tudor Coach, 1923-28, inclusive.....	4.45
8R10242	For Ford Fordor Sedan, 1923-28, inclusive.....	3.98
8R10243	For Chevrolet Roadster, 1923-28, inclusive.....	\$2.45
8R10244	For Chevrolet Coupe and Cabriolet, 1923-28, incl.....	2.75
8R10245	For Chevrolet Coaches, 1926-27-28, inclusive.....	5.21
8R10246	For Chevrolet Landau and Sedan, 1926-28, incl....	5.00

Seat Covers

All Cars Perfectly

It is real economy to equip a car with Pioneer Complete Seat Covers. They help preserve the new appearance of the car and add many dollars to its resale value. Moreover, they protect every part of the upholstery, including the door panels, sidewalls, seats, cushions, and the back of all front seats down to the floor. On cars without pockets, front door covers are made with two pockets. On cars with pockets, slits and flaps in the cover permit easy access to the pocket. All Pioneer seat covers, regardless of price or grade, have glove fasteners attached, ready to snap on.



HOW TO ORDER SEAT COVERS

We guarantee perfect fit and satisfaction if you will give ALL of the information below when ordering Pioneer Seat Covers:

- 1—Make of Car.
- 2—Style of Body (Coach, Sedan, etc.).
- 3—Year of Car.
- 4—Model of Car (Chrysler 50, 60, etc.).
- 5—Number of Cylinders.
- 6—Has car solid or divided front seat?
- 7—Passenger Capacity.
- 8—Has car arm rests or not?
- 9—Serial No. (Motor or Chassis No.).
- 10—Number of doors.*
- 11—Has car wood panels or doors?
- 12—Be sure to give first and second choice of patterns wanted in the grade your customer selects.

Same Day Shipments

You get immediate service here on seat covers. All Ford, Chevrolet, and popular car covers are carried right here in stock. No waiting; no delay. For seat covers for other cars allow 6 days for making. It takes time to cut these patterns accurately, and we will ship only covers that ARE accurate.

Easy to Attach

Anyone can attach Pioneer Seat Covers and do a perfect job. With our patented glove fasteners, it is impossible to mar the upholstery or tear the seat covers. ALL Pioneer covers have the genuine No-Tip Patented glove fasteners already attached, ready to snap on.

Pioneer Complete Seat Covers—Be sure to give Pattern Number—Also Make—Year of Car

Car and Model	Supreme Grade		Commander Gr.		Classic Grade	
	Patterns	1-2	Patterns	20-30	Nos. 100-300	10-40
Roadster	8R10470	\$3.20	8R10303	\$4.48	8R10329	\$10.40
Coupe	8R10471	3.15	8R10304	4.75	8R10330	10.40
Touring	8R10472	5.95	8R10305	8.30	8R10331	19.95
Tudor Sedan	8R10473	5.85	8R10306	8.95	8R10332	19.95
Fordor Sedan	8R10474	6.45	8R10307	9.70	8R10333	19.95

For All 1924 to 1928 (Inclusive) Cars Listed Below

Car and Model	Supreme Grade		Commander Gr.		Classic Grade	
	Pattern No. 1-2	20-30	Patterns	20-30	Nos. 100-300	Nos. 100-300
Essex Sedan	8R10465	\$7.35	8R10317	\$9.80	8R10343	\$20.55
Essex Coach	8R10466	6.80	8R10318	9.55	8R10344	20.55
Hudson Sedan	8R10487	7.35	8R10319	9.75	8R10345	20.55
Hudson Coach	8R10488	6.80	8R10320	8.65	8R10346	20.55
Star Sedan	8R10489	7.35	8R10321	9.80	8R10347	20.55
Star Coach	8R10490	6.80	8R10322	9.55	8R10348	20.55
Whippet Sedan	8R10491	7.35	8R10323	9.80	8R10349	20.55
Whippet Coach	8R10492	6.75	8R10324	9.55	8R10350	20.55

FOR NEW 1928 MODEL FORDS

Roadster	8R10475	\$3.35	8R10308	\$4.48	8R10334	\$11.45
Coupe	8R10476	4.05	8R10309	4.75	8R10335	11.45
Touring	8R10477	6.15	8R10310	8.30	8R10336	20.25
Tudor Sedan	8R10478	6.10	8R10311	8.95	8R10337	20.25
Fordor Sedan	8R10479	6.65	8R10316	9.78	8R10337	20.55

For All Cars not Listed Above (1924 to 1928 Inclusive) Models Only

All 2 and 3 Passenger Coupes	8R10493	\$4.45	8R10325	\$5.40	8R10351	\$11.65
All 5 Passenger Sedans	8R10494	8.10	8R10326	11.95	8R10352	21.95
All 5 Passenger Coaches	8R10495	7.55	8R10327	10.40	8R10353	20.55
All 4 and 5 Passenger Coupes	8R10496	7.55	8R10328	10.95	8R10354	21.95

FOR CHEVROLET—1924 to 1928 Inclusive

Roadster	8R10480	\$3.75	8R10312	\$5.85	8R10338	\$11.65
Coupe and Cab	8R10481	3.80	8R10313	5.20	8R10339	11.65
Touring	8R10482	6.40	8R10314	8.95	8R10340	20.25
Coach	8R10483	6.35	8R10315	9.15	8R10341	20.25
Sed. and Landau	8R10484	6.70	8R10316	10.27	8R10342	20.25

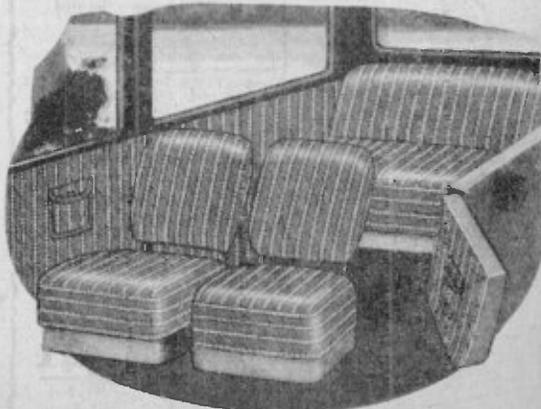
Special Complete Seat Covers For FORDS and CHEVROLETS

Here is real value. Long wearing, carefully tailored, perfect fitting Seat Covers. Made from our Special No. 7 Pattern material. The background of blue gray has diagonal stripes of black. Straight blue stripes edged with fine lines of black form the decoration. A quiet pattern that will appeal to everyone. Neatly trimmed and steadily sewed. Complete with Quick-On pin fasteners. Cover every part of the upholstery. Front door covers are made with pockets or with slits and flaps depending on car. Be sure to read "How to Order" above.

Ford Models—1915-27	Ford Model A 1928
8R10221—Roadster . . . \$2.95	8R10227—Roadster . . . \$3.28
8R10222—Coupe . . . 3.19	8R10228—Coupe . . . 3.19
8R10223—Touring . . . 5.95	8R10229—Touring . . . 6.12
8R10224—Tudor . . . 5.85	8R10230—Tudor . . . 5.85
8R10225—Fordor . . . 6.44	8R10231—Fordor . . . 6.44

Special Pattern No. 7 For All Chevrolets, Including 1928

8R10233—Roadster . . . \$3.15
8R10234—Touring . . . 6.38
8R10235—Coupe . . . 3.55
8R10236—Coaches . . . 6.30
8R10237—Sedans . . . 6.72



All Prices Quoted Are Net—There Are No Further Discounts

EVERTITE

Automatic Take-up Connecting Rod Bolts



For Fords and Chevrolets

Guaranteed to eliminate connecting rod bearing knocks for 50,000 miles. If crankshaft is out of round no regrinding is necessary when EVERTITES are installed. Makes a smooth-running, quiet motor. As bearing wears a special coil spring automatically takes up all the play. Installation is simple and easy, no need to scrape bearings. Every set positively guaranteed for 50,000 miles. Shipping weight, 6 pounds.

8R9119—Set of 8 3/4x2 1/2 in. bolts for all Fords, Chevrolets, 1925-27, Pontiac, Studebaker Big 6 and other cars. List, \$3.75. Net, \$3.25

Hub Lubricator Caps

Special alloy in a brightly polished and finished in carmine, supplied with genuine Alemite fittings. High pressure lubrication in two minutes. Every Ford and Chevrolet car needs a set. Ship. wt., 1/4 lbs.

8R9158—For Fords. List, each 85c. Net, each 80c.

8R9160—For Chevrolet. List, each 95c. Net, each 90c.

32c

35c

Leak Proof Grease Retainer

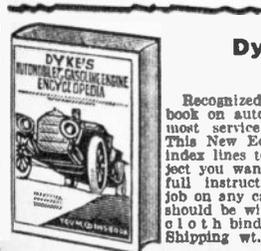
Asbestos packing ring is automatically held tight against axle shaft by a coil spring and a cork gasket makes end of housing grease-tight. Installed simply by pulling off old dust cap and felt washer and slip on this retainer. Shipping weight, 3 ounces.

8R9140—For all Fords. **8R9141**—For Ford trucks. Each, \$1.00. Net, \$0.63

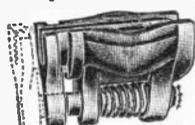
Hub Caps

8R9140 List, 25c. **8c** Ea. Net

Exactly like standard Model T Ford equipment. Finest brass heavily nickel plated with cut in threads. Fits all models. Shipping weight, each, 8 oz.



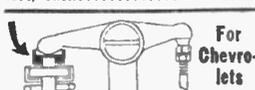
Evertite Automatic Center Bearing Cap Stops End Play



Replaces regular cap, and once installed requires no further attention or adjustment. Crank shaft is automatically pushed forward as wear occurs, keeping it snug and in perfect alignment. Starting is made easier. Pistons, rings, wrist pins, bushings, cylinders all give longer service. Easily installed—no special tools or skill needed. Ship. wt., 4 lbs.

8R9132—For Model T Fords. List, \$3.50. Net, each, \$2.06

8R9133—For Chevrolets. List, \$4.00. Net, each, \$2.35



Genuine Tex-Oil Silencers

Prevent direct contact of metal against metal of valve stems, thus killing annoying tappet noises. Set of 8 fiber discs countersunk to fit valve stems as shown in illustration. Will last indefinitely. Anyone can quickly install. Shipping weight, 1 lb.

8R8687—List, \$1.80. Net, \$1.59. Set of 8 pieces

Piston Pins for Ford and Chevrolet

A real quality part; guaranteed accurate. Carefully ground and calipered to exact measurement. Shipping weight, 3/4 pound.

For Model T Fords

8R9346—Standard. List, each 40c. Net, each 35c.

8R9348—003 O. S. List, each 40c. Net, each 35c.

8R9347—010 O. S. List, each 40c. Net, each 35c.

For Chevrolets

8R9348—Standard. List, each 40c. Net, each 35c.

8R9349—003 O. S. List, each 40c. Net, each 35c.

8R9350—005 O. S. List, each 50c. Net, each 45c.

8R9351—010 O. S. List, each 50c. Net, each 45c.

Muffler Flange for Model T Fords



Replaces broken flange on muffler exhaust pipe. Keeps fumes from car. Takes place of asbestos. Just slide in new flange and tighten nut. Ship. wt., 2 lbs.

8R9145—List, 35c. Net, \$0.21

In lots of 12—190 each.

Dyke's Automobile Encyclopaedia

Recognized as America's Standard reference book on automobiles and gas engines. Used by most service stations and automotive experts. This New Edition has 4,200 pictures and 1,500 index lines to locate the subject you want. You will find full instructions to do any job on any car. No mechanic should be without one. Heavy cloth binding; 1,840 pages. Shipping wt., 4 lbs.

\$4.41 Net Each

Counterbalanced Crankshafts For Model T Fords

Made of one piece drop forged alloy crank steel. Counter balances are integral part of shaft itself. Perfect running balance, eliminating vibration and motor noises. Assures you of a smooth running engine under all conditions. Shipping weight, 25 lbs. List, \$15.00. Special Price, \$9.80 Net Each



Pioneer Crankshaft For Model T Fords

Heavy drop forged of the finest steel. Machined to precision accuracy. Guaranteed to be a perfect fit. Thoroughly tested for correct size. A profitable repair shop item. Our low price saves you most! Shipping weight, 25 pounds.

8R9104 List, \$15.00. **\$5.62** Net Each



Connecting Rod For Model T Fords

Duplicate of Model T Ford Part No. 3024. Drop forged. Correct weight. Properly machined. Babbitt bearing. Fits perfectly. Ship. wt., 2 1/2 lbs.

8R9113 **87c** Net Each



Spring Clips For Model T Fords

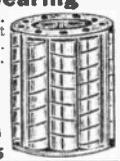
Extra long 9 and 10 lead springs need them to prevent breakage. Complete with castellated nuts. **8R9103**—Front. **8R9103**—Rear. Doz. Lots, Each, 27c. Each, 28c. Net



Roller Bearing For Model T Fords

Replaces part No. 2508. Axle shaft roller bearing. Ship. wt., 2 1/2 lbs. each. List, 75c. **8R9111** **44c** Net Each

Box of 10 \$3.75



Adjustable Bearing Cap For Fords

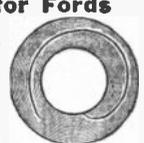
Provides instant takeup of wear, absolutely eliminating all end play in crank shaft. Improves ignition. Ship. wt., 3 1/2 lbs. each. List, \$2.75. **8R9090** Each, Net, \$1.65



Differential Thrust Plate for Fords

Replaces part No. 2528-A. Bronze metal. Ship. wt., 3/4 lb. each. List, 35c. **8R9107** **17c** Net

Box of 10 \$1.50



Valves for Fords

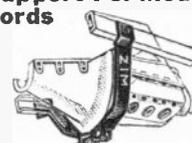
High grade valves for Ford. Heat treated. Fit perfectly and will give excellent service. Shipping wt., each, 8 oz. **8R9118**—List, 25c. Each, 20c. Net, 19c. Box of 8, 65c



Genuine ZIM Engine Support For Model T Fords

Replaces part No. 2803B. Complete assembly, roller bearings. Ship. wt., 7 1/2 lbs. each. List, \$1.80. **8R9109** Net Each **94c**

Box of 6 **\$5.40**



Front Hub For Model T Fords

Replaces part No. 2803B. Complete assembly, roller bearings. Ship. wt., 7 1/2 lbs. each. List, \$1.80. **8R9109** Net Each **94c**

Box of 6 **\$5.40**



Wrench for Model T Fords

Duplicate of Model T Ford standard equipment. Specially designed for spark plugs and cylinder head bolts. Drop forged. Ship. wt., 1 1/4 lbs. each. List, 40c. Net Ea. **8R9187** **20c**



Spindle Arm Bushing For Model T Fords

To replace Model T Ford part No. 2714B, made of bronze. **8R9134**—List, 5c each. Net box of 10, \$0.27c



Spindle Body Bushing For Model T Fords

Replaces Ford part No. 2718. Bronze. Ship. wt., 8 oz. each. List, 10c. **8R9105** Each, Net, \$0.7c

Box of 10, 50c



Spindle Con. Rod Bolt For Model T Fords

Replaces part Ford No. 2718A. Without oiler. Tapped for grease cup or Alemite point. List, 12c. **8R9101** Net, \$0.9c

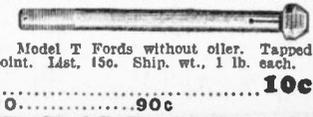
Box of 10, 80c



Spindle Bolt For Model T Fords

Replaces part No. 2710A. Model T Fords without oiler. Tapped for grease cup or Alemite point. List, 15c. Ship. wt., 1 lb. each. **8R9100** Each, Net, \$1.10c

Box of 10, \$9.0c



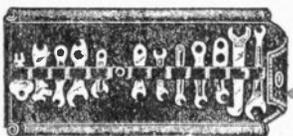
Imperial Cleaners for Motors, Oil and Gasoline Lines

The quickest and most effective way to clean motors, gas and oil lines with kerosene and compressed air. To operate merely attach air chuck to compressed air line, fix hose to cleaner and place other end in kerosene can. After cleaning, shut off kerosene and you have a regular air gun for cleaning and blowing out gas and oil lines. Furnished with permanent air line and 6 feet of compressor hose. Long nozzle fits into tight places. A real profit producer. Shipping weight, 3 pounds.



8R8624
List, \$7.50
\$3.85
Ea. Net

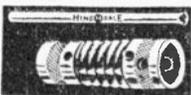
Ignition Tool Set



This handy folding Wrench Kit has been on the market only a short time although it has won great favor among the repair and garage men, for they find it a great seller.

This kit contains the following wrenches: Mea Magneto, Bosch Magneto, Eiseeman Magneto, Spiltorf Magneto, K. W. Magneto, Connecticut Distributor, Deleo Distributor, Delco Old Style Distributor, Remy Distributor, Remy Cam Lifter, Ford Switch Key, Thickness Gauges. In neat Leather Kit. Ship. wt., 1 lb.

76c
Each



Steel Spark Plug Wrench

An all-steel wrench, milled from solid steel bar stock, accurately machined and heavy nickel finished. In two sizes for all spark plug measurements. Ship. wt., 3 lbs.

Net Each
29c

8R8545— $\frac{7}{16}$ x 1 inch.
For Fords
8R8546— $1\frac{1}{2}$ x $1\frac{1}{2}$ inch.

Lots of 6,
28c Each

Accurate Thickness Gauge



8R8800
49c
Each Net

Genuine Goodell-Pratt. Sets valve tappets, timers, spark gaps; gauges shims, clearances, etc. 6 leaves from .002, .003, .004, .005, .010 and .015 inches. Leaves are $2\frac{1}{4}$ x $1\frac{1}{2}$ inches with binding screw and nut. Ship. wt., 8 oz.

Popular Priced Type

For Fords.

A good, accurate gauge; vest pocket size. Swivel rivet for easy use. Measures from .002 to .035 inches. Ship. wt., 2 oz.

8R8797
11c
Each Net

Piston Ring Compressor

Adjustable to fit all size rings from $2\frac{1}{4}$ to $4\frac{1}{2}$ inches. Works equally as well whether valves have been removed from engine or not. Cannot break ring as it presses with equal force on all points of ring. Ship. wt., $1\frac{1}{2}$ lbs.



8R8538
List, 60c
29c
Each



Steel Tool Box

A strong and durable running board tool box, priced to save you most. Size, 22x7x9 inches; long enough to hold pump and most all other tools. Fitted with good lock and catches. Black enameled finish. Ship. wt., 8 lbs.

8R9726
List, \$2.50
\$1.30
Each Net

Ford Wrist Pin or Piston Pin Bushing Reamers

Waterliet made of highest grade tool steel, specially treated. Spiral fluted. Every one guaranteed. Shipping wt., 1 lb.

8R8807—No. 3022 $\frac{1}{2}$ —Standard.....**\$1.33**
8R8808—No. 3022 $\frac{1}{4}$ —.....**1.45**
8R8809—No. 3022 $\frac{1}{8}$ —.....**1.45**
.005 oversize.....**1.45**
8R8810—No. 3022 $\frac{1}{2}$ — $.010$ oversize.....**1.45**
8R8811—No. 3022 $\frac{1}{2}$ — $.015$ oversize.....**1.45**

Ford Spindle Body and Arm Bushing Reamers

A two-in-one reamer—smaller diameter for reaming the two spindle body bushings and the larger diameter fits No. 2714 spindle arm bushing. We recommend the 8 flute type for better results. Shipping wt., 1 lb.

8R8805—No. 2713-14, Six Flute. List, \$1.90. Net, each.....**\$1.00**
8R8806—No. 2713-14, Eight Flute. List, \$2.50. Net, each.....**1.32**



Ford Bushing Remover

Will remove every bushing on any Ford. A different remover for every type bushing.

8R8547—Type SBI, Spindle Body Bushing Remover.....**17c**
Each Net
8R8548—Type SAI, Spindle Arm Bushing Remover.....**48c**
Set Net

8R8549—Type PBI, Piston Bushing Remover.....

Repairmen's Reamer No. 704

Waterliet made and guaranteed. Shank fits ordinary brace. Straight flute. Shipping wt., 8 oz.

8R8868—No. 5; $\frac{1}{2}$ in. diameter; small end, $\frac{1}{2}$ in. large end; $\frac{3}{4}$ in. flutes. Net, each.....**\$1.32**
8R8869—No. 6; $\frac{3}{16}$ in. diameter; small end, $\frac{1}{2}$ in. large end; $\frac{3}{4}$ in. flutes.....**\$1.65**

Coil Point Files

Very high grade 6-in. files, especially made for filing tungsten and iridium points. Packed in boxes of 12. Ship. wt., 8 oz. each.

8R8803
List, 15c
7c
Each

Four-in-One Screw Driver



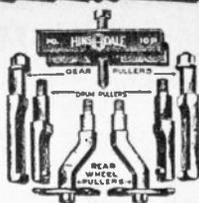
Four fine tool steel screw drivers in one. A necessity for every car owner, home or workshop. A compact, handsome tool; 6 inches long, $\frac{3}{8}$ inch thick. All highly polished and heavily nickel plated. Finely ground and hardened blades. Four tools for the price of one. Shipping wt., 1 lb.

8R3909
48c
Each Net
Lots of 6,
39c Each

Master Puller

8R8561
List, \$16.50

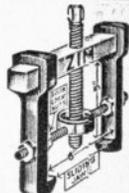
\$5.65
Each Net



Pulls everything on the car. 3 sets of jaws for all types of work. Pulls gears up to 6 inches diam., timer, magneto, starter and generator. Removes brake drums, steering wheels, stud bolts, Ford clutch drums, and wheels. Great for Chevrolet clutch assembly. Built for heavy duty service. Extra heavy unbreakable steel arms. Weighs 10 lbs. A complete, compact, all-around gear puller that does the work of any three others at one price. Ship. wt., set, 10 lbs.

Zim Gear Puller

You'll find this Gear Puller to be highly efficient. It is used by many of the largest manufacturers of motors. Strongly constructed of finest steel with slotted head. Especially designed for taking out gears which are drilled and threaded for removing and can be extracted only by stud bolts. Cross beam, 6 in. White nickel finish. Our low price makes an effective saving for you. Shipping weight, 3 lbs.



8R9742
\$3.87
Each Net

Lightning Sleeve Puller

8R9593
List, \$3.50

\$2.09
Each Net



The fastest working sleeve puller made: works with or without the axle in the housing. A two-in-one tool, as small end pulls Ford Model T pleasure car sleeve and other end pulls Ford one-ton truck sleeve. Saves cost and bother of having two separate tools. Made of high quality steel with detachable lever handle as shown. Shipping wt., 7 lbs.

All-Car Wheel Puller

21c

Each Net



Positively will not burr or damage the threads. Made of special cold rolled steel, heat treated. For quick work, use it with a ratchet wrench.

8R8599—Fits Ford, Star and Chevrolet 490.

8R8556—Fits Chevrolet F. B., Superior and 1925 Model K Dort, Franklin, Maxwell and Moon.

8R8557—Fits Chalmers, Chandler, Cleveland, Columbia, Dodge, Empire, Essex, Ford, Ton Truck, Grant, Hudson, Lexington, Monroe, Mitchell, Nash, Oakland, Oldsmobile 6, Paige, Rover, Stephens, Studebaker, Templar, Velie, Westcott.

21c
Each Net

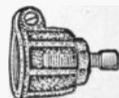
8R8558—For all other cars not listed above.

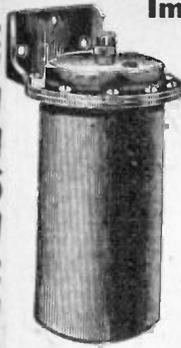
Lots of 6,
20c Each

Wheel Puller for Fords

For removing rear wheels on Ford Cars. To prevent stripping of threads puller is split and fitted with a binding screw.

Shp. wt. 2 lbs. 8R9189
List, 50c
31c
Each Net





Improved Oil Filter

For Dash or Motor Insures a Positive Constant Supply of Clean Oil

Cleans oil faster than any other make. Over 500 inches of filtering area. One-piece drawn steel body. Extra long filter chamber with fine woven white flannel filter rings. Complete filter unit easily removed for cleaning. Easily and quickly attached to dash or motor back board on any car having full pressure oil system. (Will not work on Hudson, Essex or Ford cars.) Helps the regular oiling system. Stops all troubles; insures longer motor life. No dirt can pass it. Shipped complete ready to connect up. Ship. wt., 3 lbs.

BR8380
List, \$5.50
\$3.23
Each Net

oil system. (Will not work on Hudson, Essex or Ford cars.) Helps the regular oiling system. Stops all troubles; insures longer motor life. No dirt can pass it. Shipped complete ready to connect up. Ship. wt., 3 lbs.

For All Cars



Spring Oilers

Needed on every car to stop squeaks, prevent spring breakage and make cars ride easier. These Spring Oilers are used automatically to insure perfect spring lubrication on any car. Coil springs hold free oiling pad against auto spring leaves; absolutely no rattling, slipping or losing. Instantly attached—just clip on spring. Shipping wt., 2 lbs.

BR8498
Set of 4.
List, \$1.50
79c
Net Per Set

use any kind of oil and feed it automatically while you ride. No bother, no minute a month insures perfect spring lubrication on any car. Coil springs hold free oiling pad against auto spring leaves; absolutely no rattling, slipping or losing. Instantly attached—just clip on spring. Shipping wt., 2 lbs.

Mechanic's Shop Assortment



Contains about 230 pieces of assorted car screws, set screws, nuts, stove bolts, cotter pins, rivets, wood screws and other parts. Standard size S. A. E. and U. S. S. threads. For all auto and farm machinery use. Much handier.

BR8795
69c
Ea. Net
Lots of 6; 67c Each

economical than buying larger lots of each item. Assorted according to usual demand for the different items.

Cotter Pins

Extra strong spring cotter pins. Assorted sizes. Ship. wt., 3 lb. each.

BR8802
7c
Box
Dozen boxes, 72c



Lock Washers

Good quality blue steel lock washers. Assorted sizes.

BR8801
8c
Box
12 boxes, 84c

All Purpose Steel Wool

BR8692
1 lb. Rolls
39c
Each Net
Fine quality No. 2 steel wool. For all general work on cars, in garages, paint shops, and in the household. Comes in handy 1 lb. rolls. List, 75c.
Doz. Lots 37c per roll

Genuine ALEMITE Lubricators

Compressor C-600 suitable for car owner and small service stations. Known for their fine quality. Holds enough to grease the standard car complete without refilling. One turn of handle pushes fresh grease through most stubborn points. Ship. wt., 5 lbs.



BR9689—Compressor No. C-600
\$2.35
Net Each

BR9697—Standard Flexible Hose, about 14 inches long. Complete with nozzle for regular Alemite fittings. Ship. wt. 1 1/2 lbs.
Net, Each **\$1.55**
BR9698—Straight Fittings, 1/8 inch pipe thread. Shipping wt., six, 1 lb. Carton of six. Net **\$0.53**
Box of 25 **2.21**
BR9699—Elbow Fittings, 1/8 inch pipe thread. Ship. wt., six, 1 lb. Box of 10 **\$1.77**

Speedy Differential and Transmission Grease Extractor

Helps you sell more oil and grease. Saves time and labor. Does a quick, clean job. Takes old oil out of differential housings in a jiffy. Has long flexible steel hose with powerful suction nozzle. Reaches in every direction. Heavy gauge steel barrel, with extra heavy connections. Special shape, long-lasting leather valves. Red enameled. 27 inches long.
BR9741
List, \$2.50
\$1.38
Ea. Net

Oil and Grease Gun

An exceptionally well made and durable grease gun made of solid brass throughout. Gun 9 inches in length, 1 1/2 inches in diameter.
Doz. lots, each **42c**
BR9714
68c
Each Net

Grease Ram

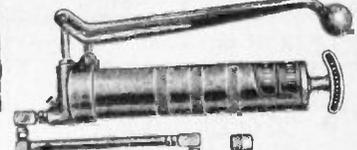
An absolute necessity for the garage and service station. Will get new grease in, and push out old grease from any frozen shackle bolt and king pin. Merely remove nipples or cup (either oil or grease) from bolt and screw in the Pioneer Grease Ram. Ram should be previously filled by using any grease gun with female connection, filling until plunger stops. Then give a few light taps with hammer and the grease goes through.
BR9740—List, \$2.50.
77c
Ea. Net

Abrasive Cloth

For repair and machine shops and car owners' use. Made of hard, sharp grits glued to heavy cloth. Gets into places a file couldn't reach. 10-yard rolls, 1 inch wide.
6 rolls
BR8718 00
BR8719 0
BR8720 1/2
BR8721 1
58c **56c**
Per Roll Per Roll

Dependable Ever-Ready High Pressure Lubricators

Everready High Pressure Grease Guns are recognized as the best on the market today; yet their price is extremely moderate. All are equipped with adapter for Pin fittings. Adapters for other fittings are listed below at small cost. Guaranteed to make a positive seal on any fitting.



Model JJ Hand Gun

The ideal gun for quick, efficient, chassis lubrication. Leak-proof swivel release, the strain and make it easy to reach all fittings. Air vents quickly eliminate air pockets in booster chamber and reservoir. A special packing gland prevents leakage and loss of pressure. The heavy duty Booster Handle produces 9,000 lbs. pressure. Easy Grip filling handle. A 1/2-in. pipe thread adapter is furnished for use when bearings are clogged. Capacity 1 1/2 lbs. Ship. wt., 7 lbs.
BR9750—List, \$18.00.
Net, Each **\$13.23**



Model CP for Car Owner

Simple and efficient. Develops high pressure. Made of seamless steel tubing. Capacity 1 1/2 lb. Ship. wt., 3 1/2 lbs.
BR9751—List, \$4.00.
Net, Each **\$2.94**

Hand Model L30—Floor Portable

The strongest and most powerful lubricator on the market. Especially suited for garages, filling stations, etc. Has few working parts and no valves. Equipped with all-metal high pressure hose of the finest quality. Has air pocket eliminator. Capacity 10 lbs. Ship. wt., 32 lbs.
BR9753—List, \$60.00.
Net, Each **\$44.10**

Everready Booster Nozzle

For use with Model L30 listed above. Develops 20,000 to 25,000 lbs. pressure at the fitting. This extra pressure is developed in nozzle booster and does not increase the pressure in the hose. Handy for frozen fittings. Ship. wt., 2 lbs.
BR9157—List, \$7.50.
Net, Each **\$5.51**

Everready Pin Fittings

For use on all 1/2-inch connections. Straight Fittings: List, 14c ea.
BR9763—Lots of 12. Net **\$1.06**
Angle Fittings: List, 25c ea.
BR9763—Lots of 12. Net **\$1.80**

Everready Gun Adapters

BR9156—For Pin Fittings, Each, \$2.25
BR9154—For Dot Fittings, Each, 2.25
BR9155—For Cone Fittings, Each, 2.25

Replacement Hose

BR9177—For Model JJ—9-in. steel tube with Pin fitting adapter. Net, Ea. ... **\$4.50**
BR9178—For Model L30—8-ft. flexible tube with Pin fitting adapter and 1/2-in. pipe thread adapter. Net, ea. **\$13.50**

Oil Measure

Heavy steel, thickly copper plated. Long, flexible spout. Patented non-spill top. One thumb-control to regulate pouring speed. Reinforced bottom. Meets all state laws.
BR9245—1 qt. size. Each, Net, ... **\$1.82**
BR9246—2 qt. size. Each, Net, ... **\$2.05**
BR9247—1 gal. size. Each Net, ... **2.74**



Cotton Waste

Clean, fresh cotton waste stock, put up in handy 1-lb. packages. Convenient for the repair man, mechanic and car owner.
BR9789
22c
Each, Net
Lots of 10
20c ea.

Genuine Chanson Shock Absorbers

An absolute guarantee for the life of the car is mailed to each purchaser of Chanson Shock Absorbers by the manufacturer. This is our proof that these shock absorbers will give unequalled satisfaction under all conditions. They are positively the best made. Once installed, they require no further attention. Built on an entirely new principle, there cannot be any spring or strap breakage. Instantly check the most vicious rebound with a smooth, velvety, positive action. Stop all the galloping and bouncing. Absolutely noiseless in action. Require no oiling or greasing. Prolong the life of the car and make it easy and safe to speed up on rough roads. Complete with brackets and instructions. Made in two sizes: Small size for all model Fords, Chevrolet, Essex, Dodge 4, Whippet 4 and 6, Chrysler 52, Star 4 and 6, Erskine, Pontiac, Oldsmobile. Large size for all other cars. Be sure to give make, year and model of car when ordering. Shipping weight, small size, 12 lbs. per pair. Large size, 15 lbs. per pair.

8RB627—Small size pair. Front or rear. List Price, \$11.00. Per Pair, **\$6.47**
8RB628—Large size pair. Front or rear. List Price, \$15.00. Per Pair, **\$8.82**



Guaranteed for the Life of the Car!



Chicago Water Pump For All Fords—Best Quality

You will find this pump in great demand. It is the most popular and the most satisfactory one on the market. A mechanically perfect pump of correct design. Fully guaranteed. Large double flanged pulley. "Bunting" bronze bushing. Easy to install. Complete with brass packing gland bolts to attach to motor. Also bolts for attaching horn to pump on late models. Finished in two coats green. Instructions included. Ship. wt., 4 lbs.

8R9139—List, \$5.00. **\$1.95** Each
 Lots of Three **\$1.92** Each



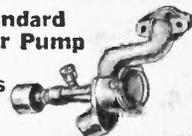
Metalic Pump Packing

Metallic with fabric core. Same as used by most car manufacturers. Fits all pumps. One pump takes about 2 1/2 ft. Ship. wt.,

3 and 8 oz.

8R8759—Coil 5 ft. List, 75c. Net, Each... **38c**
8R8786—Coil 15 ft. List, \$1.50. Net, Each... **87c**

Standard Water Pump For Fords



A good quality pump that has been extensively tested in laboratories and on the road. Prevents excessive evaporation of alcohol and water. Perfect circulation assured at all speeds. Ship. wt., 2 lbs.
8R9137—List, \$2.75. **89c** Net, Each
 Lots of 6, Net, Each, .94c

RED-CAP Shock Absorbers



These shock absorbers are made only of the best materials. They are guaranteed by the manufacturer to give entire satisfaction and to add greatly to the riding ease of any car. Work on a new principle which does not interfere with flexibility of springs. Installed under the front springs, and on top of the rear springs. Give a nice, easy action to the car over the roughest roads. Furnished for the following cars: Star, Chevrolet, Whippet, Essex, Pontiac, Chrysler 50 and 58, Maxwell, Erskine, Oakland, Flint, Nash 4, Studebaker light 6. Ship. wt., 4 lbs.

8RB750—Per Pair **\$1.72**
8RB751—Per set of 4. Net **\$3.37**

Visible Gas Filter

A good quality filter at a low price. Will quickly pay for itself. Saves repairs. Six square inches of fine gauze holds back all dirt and lint from carburetor. Fits under vacuum tank out of way. Easily cleaned. Ship. wt., 2 lbs. List, \$1.75.

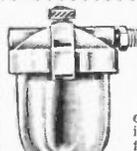
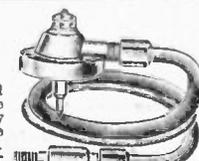


8RB620—For cars with vacuum tanks. **89c**
8RB621—For 1926-1927 Fords. Net, Each **89c**

Oiling System FOR FORD CARS

A real force-feed system. No more uncertain gravity feed. No more burnt-out bearings. Can't clog up or fail when climbing steep hills. Pumps plenty of oil regardless of the grade. Feeds oil even when regular Ford oil tube is completely out of commission. Keeps up the supply at all speeds. Prevents all the old oiling system troubles. Installed in 15 minutes.

8RB300—Left side for Fords prior to Sept., 1925. **8RB302**—Left side for Fords 1926-27. Each **38c** Net
8RB301—Right side for Fords up to 1925. **8RB303**—Right side for Fords 1926-27. Each **43c** Net
 Lots of 6, **35c** ea. Lots of 6, **40c** ea.



New APCO Gas Filter

Fits Most Cars

Saves its cost many times over. A big seller. Incoming gasoline is required to flow bottom to top through filter. Thus all heavy particles of dirt and foreign matter drop to bottom of chamber, being stopped by the mesh. Easily dismantled for cleaning. One style fits all cars, including Fords. Shipping wt., 1 lb.

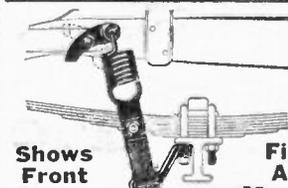
8R9123—List, \$1.75. **\$1.24** Ea. Net
 Lots of 3, **\$1.20** Ea.

Genuine Biflex Oil-O-Stat



Automatically stops the flow of gasoline to the motor the moment anything goes wrong with the oil. Always works. Saves many expensive repair bills. A most indispensable for breaking in new cars, as it automatically mixes, when desired, the proper amount of oil with the gasoline. Oilostat is a wonderful gasoline filter. Traps all impurities. Prevents carburetor flooding.

Oilostat can be attached in a few minutes to any standard make car having high pressure lubricating system. All connections included. Ship. wt., 4 lbs. **8RB799**—List Price, \$10.00. Net, Each **\$6.50**



Shows Front Check Fits All Models
Chevrolet Rebound Check

Gives Chevrolets a smooth, easy riding, big car action. Snubs the rebound at the start. Checks side sway. Great for ballroom tired cars. Installed in a few minutes with simple tools. Built heavy and strong, for toughest usage. Each pair complete with fittings. State model when ordering.
8RB619—1923 Chevrolet. List **\$3.25** Per Pair
8RB612—1925-27 models. List **\$3.25** Per Pair
8RB613—1923-24 models. **\$1.54** Net

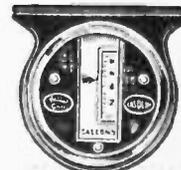
Pioneer All Car Rebound Checks



Stop Bouncing, Side Sway and Galloping
 Pioneer shock absorbers cushion the rebound at the start and smother it completely. They are built on an entirely new principle and will hold any car from galloping. They have been tested under severest conditions. The heavy, unbreakable web strap and drum act like a brake, increasing the resistance in proportion to the rebound. Once adjusted, they require no further attention. No oiling; no wearing parts. Will last the life of the car. Simple to install; no holes to drill. Complete fittings and instructions. Furnished for all cars. State make, year and model of car. Ship. wt., 1 1/2 lbs. List, \$10.00 pair.
8RB635—Set of 2, one front, one rear. Fords 1926-27.
8RB636—Set of 2, for all Fords up to 1926.
8RB637—For all other cars. Front.
8RB638—For all other cars. Rear.

\$4.95 Per Pair Net

KIRSTIN Dash Gas GAUGE Guaranteed Three Years



Accurate, dependable and beautiful. Operated by the weight of the gasoline in the tank—no danger, no leakage. Nothing to break or rattle. A useful ornament. Very neat and compact. Can be quickly installed under instrument panel without cutting or drilling through the dash. If desired, Black and nickel finish. Try it for 30 days at manufacturer's risk! Ship. wt., 2 1/2 lbs.

8RB659—For Fords 1926-1927, except Fordor. List, \$3.50. Net, Each **\$2.40**
8RB660—For Chevrolet, 1924-1927. List, \$5.00. Net, Each **\$3.43**
8RB665—For 1923 Chevrolet. List, \$5.00. Net, Each **\$3.43**
8RB661—For all late model Buick, Dodge, Oakland, Pontiac, Chevrolet, Whippet, Star, Falcon-Knight and Chrysler 50 cars. State Make and Model. **\$4.18** Net
 List, \$6.00

All Prices Quoted Are Net—There Are No Further Discounts

Genuine Pexto Fender Repair Kit



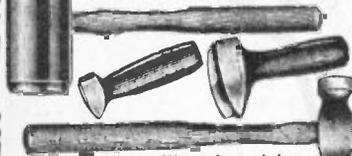
A good quality, medium priced fender repair set that will soon pay for itself. Two dolly blocks of special composition metal that is best suited for the purpose. Designed especially for fender work. Will fit almost any shape surface. The 12-inch long hammer has a high grade drop forged double head. It can also be used to fit wrist pins, generator or starter bearings, set lathe tools, reamer pilots, etc. Handy for many other uses as well. Ship. wt. per set, 5 lbs. List, \$3.20.
BR9142—Complete set. Net.....\$2.23

Handy Dolly Block
 Made to fit palm of hand. Invaluable for seaming all irregular shaped metal work. Also for straightening fenders. Sharp and beveled edges.
BR9064
 Net, each.....**\$1.29**



Genuine Shur-Kut Metal File
 A flat, flexible, double faced file with curved teeth. Will stay sharp a long time. Made of best materials.
BR9066—14 or 16 in.
 Net.....**93c**

PIONEER Fender Repair Outfit



This is the quality set used by professional fender repair men. A new and complete tool outfit for all fender and body repair work. Consists of:
 Large Mallet 2 1/2 x 3 1/2
 Hand-shaped anvil
 Small dolly for close work. Large dolly 14-oz. bumping hammer
 Dollies have hand-fitting grips, and are accurately finished and polished.
BR9095
 Net. per set.....**\$3.39**

Body Workers' Spoons



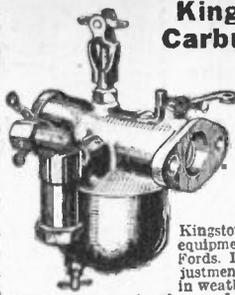
Made of hand forged steel, with polished face and black finish handles.
BR9048—Narrow spoon, 10 in. long; 1 in. wide. Weight, 1 lb.
 Each, Net.....**74c**
BR9049—Wide spoon, 9 in. long; 2 in. wide. Weight, 1 lb.
 Each, Net.....**87c**

New Style "ZIM" Valve Grinder

Four different bits to handle all size valves. Does the work of highest priced grinders. Smooth and fast working. Rotates back and forth by continuing forward cranking. Ball bearing spindle. Minimum friction. Long reach. Ship. wt., 1 lb.
BR9500—
 Each, Net.....**69c**

Ten Day Free Trial on Radio Sets. See Page 4.

Kingston Carburetor



For All Fords
BR9005
\$2.86
 Each Net

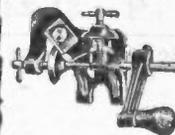
Kingston is standard equipment on most Fords. It needs no adjustment for changes in weather or altitude.
 Handles any grade of gas. Increases mileage; adds power; reduces carbon. Saves its cost in a thousand miles travel. Includes special gasoline strainer that filters gas before it enters the manifold. Easily taken off for cleaning. Shipping weight, 4 pounds.

Simmons Super-Power Carburetor For All Fords



Has electric heating unit to pre-heat gas for better mixing and quicker starting. Connects with switch on dash board. Shoots a big volume of vapor. Doubles gas discharge when starting. Increases mileage; keeps motor running smooth and powerful. Great for hills; takes them in high. Doubles the pep and power. Saves its cost in a month. This is the new better model that is going into thousands of cars. Ship. wt., 3 1/2 lbs.
BR9130—List, \$5.00.
 Each.....**\$2.63**
 Lots of 6, \$2.40 each

Valve Refacing Lathe



BR9512
 List, \$2.50.
\$1.86
 Ea. Net

For all size valves. Puts a clean, true seating surface on any valve in a few minutes. A rigid clamp holds valve in perfect alignment. Set screw in the crank has a pivoted shoe which prevents all defacing of valve stems. Cutter can be reground or replaced, and has fixed stops which hold it at exactly 45 degrees. Refacer is held in handiest position for turning the crank and watching the job. Made of selected materials, and has bright steel and black enamel finish. Shipping weight, 1 1/2 lbs.

Valve Lifter

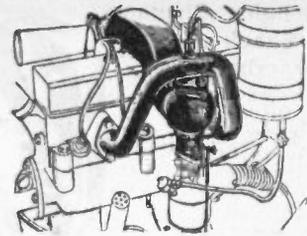


Standard Type valve lifter. Stamped from heavy gauge steel. Has locking ratchets with spring tension. Black enamel. Ship. wt., 2 lbs.
BR9734—List, 40c.
 Each, Net.....**17c**

Bit Brace Valve Grinder



Adjustable for all sizes and types of valves. Fitted with reversible, case hardened Bit, pivoted to shank as illustrated, making it possible to grind valves at an angle or in inaccessible places.
BR9643—List, 40c.
 Net, each.....**24c**



Guaranteed Economy Vaporizer

For All Chevrolet and Ford Cars and Trucks

A combination intake and exhaust manifold. Prolongs life of car. Keeps motor sweet and clean. Handles any grade of gasoline. Increases mileage 25 to 50 per cent. Adds power and smoothness of operation. Cuts down crank case dilution. Completely vaporizes the mixture for easy firing. Stops fouling of plugs. Makes starting easier; prevents needless choking and flooding. Saves its cost many times over. Shipping weight, 20 pounds.
BR9966—List, \$10.50.
 Chevrolet up to 1928. Each, net.....**\$6.49**
BR9978—List, \$10.50.
 Chevrolet 1928. Each, net.....**\$6.49**
BR9836—All "T" Fords.
 List, \$8.00.
 Each, net.....**\$5.65**

Double guarantee: We and the maker guarantee the Economy Vaporizer to give entire satisfaction, or your money back within ten days from date of sale. Any defective Vaporizer replaced free of charge, at once.

Improved Duro Valve Grinder



Especially fast, easy running valve grinder. Fitted with ball-bearings, so that little effort is required to do a quick, efficient job. Reaches every valve; grinds smoothly and evenly and will last a lifetime. Chuck attachment, as shown, with extra fittings. Shipping wt., 2 lbs.
BR9727—List, \$2.50.

BR9727
 List, \$2.50
\$1.34 Each Net

Valve Seat Reamer For All Cars



Produces a perfect valve seat with less time and labor. Hardened steel cone absolutely limits the depth of cut so there can be no digging into valve seat. Will always hold to a perfect circle. The single tool steel cutter can be easily ground or replaced. Can not clog or chatter. Keeps the correct roundness and angle of the valve seat better than any tool with a number of cutters. Reams all sizes of valve seats. Shipping weight, 3 pounds.

BR9513
\$1.24 Each Net

Sunnen's Adjustable Valve Lifter



New, improved style. Jaws are adjustable to any size spring and raise practically parallel; will not wedge on valve stem. Lock holds at any height; no lost motion. Jaws extra thin at ends, allowing easy removal of pins. Fits all cars. Shipping weight, 1 1/2 pounds.
BR9511
 List, \$2.50.
\$1.76 Each Net



Pioneer Brake Lining **12c** Per Foot and Up

For a Lining that will give greatest resistance to wear under the most trying conditions Pioneer has no equal. Made to our exacting specifications by one of the oldest manufacturers of Brake Lining. Each strand is of finest quality, carefully selected asbestos fibre—it cannot burn. A fine brass wire is interwoven into every strand to give greatest strength. Every foot of this Lining goes through a special treatment to insure protection against oil, dirt, grit and water. Will not glaze, chatter nor harden easily. The finest made—and our low prices ease you most.

Thickness	5/32 in.	3/16 in.	1/4 in.
1 1/4 in.	BR9769 12c Foot	BR9776 13c Foot	Guaranteed For Service
1 1/2 in.	BR9770 13c Foot	BR9777 15c Foot	BR9783 18c Foot
1 3/4 in.	BR9771 16c Foot	BR9778 17c Foot	BR9784 20c Foot
2 in.	BR9772 17c Foot	BR9779 18c Foot	BR9785 23c Foot
2 1/4 in.	BR9773 19c Foot	BR9780 20c Foot	BR9786 25c Foot
2 1/2 in.	BR9774 20c Foot	BR9781 21c Foot	BR9787 28c Foot
2 3/4 in.	BR9775 22c Foot	BR9782 23c Foot	BR9788 30c Foot



BR9385
\$238
Each
Net

Riveting Machine for Re-lining Brakes

One blow and the rivet is clinched. For tubular and semi-tubular rivets. Cast iron base, high-grade steel base. Shipping wt., 4 pounds.

C. R. & S. Riveting Pliers

Just the tool for a time-saving efficient job. Rivets all brake, transmission and clutch lining. Sets split or tubular rivets up to 1/4 inch inclusive. Shipping wt., 1 1/2 pounds.



BR9386
List \$2.50
\$1.67
Each, Net

Brass Split Rivets 100 IN EACH BOX (All Sizes) For Brake Linings. Heads fit snugly against steel bands without projection. Sizes for all cars. State Size.

No. BR9190 1 1/4" 11c BOX	No. BR9191 1 1/2" 12c BOX	No. BR9192 1 3/4" 13c BOX
No. BR9193 1 1/2" 14c BOX	No. BR9195 1 3/4" 16c BOX	No. BR9196 2" 17c BOX



Detachable Transmission Bands for Fords

Made of heavy spring steel and lined with one of the best grade linings. Easily installed. Shipping wt., per set of 3, 5 lbs.

BR9161—For models up to 1925. Set of three. Net, each **\$1.48**
BR9162—For models 1926-27. Set of three. Net, each **\$1.93**

Genuine "DURO" Brake Bands For Chevrolet and Pontiac



Easy to install. All adjustments on the outside, in easy reach. Bands are cut wide and true—insuring exact fit. Lined with finest quality, long wearing lining. Finished in baked on black japan. Average shipping wt. per set, 3 pounds.

BR8607—Chevrolet 1925 Model K. Net. **\$1.77**
BR8608—Chevrolet 1926-27. Superior V. List, \$4.60. Net. **\$2.24**
BR8610—Pontiac 1926-27. List, \$4.60. Net. **\$2.24**

38c Net Each Freeze Meter

Gives the exact alcohol content there is in the radiator and tells at what temperature the radiator will freeze. Works with any type anti-freeze solution. Shipping weight, 1 1/2 pounds.
BR8894—List, 75c. Net, Each **38c**

Transmission Lining

Your choice of two grades. Pioneer (not illustrated) is a close woven lining treated to withstand oil, heat and grit without chatter. Textford (illustrated) is our finest. Woven of long fibre materials and treated with a wax oil which gives smooth positive action and long wear. Both grades ready cut, rivets included. Ship. wt., per set, 1 lb.



Prices for Pioneer Grade
BR9147—F o r Fords up to 1926 Per Set. **29c**
BR9148—F o r Fords 1926-27. Per Set. **31c**

Prices for Textford Grade
BR9143—F o r Fords up to 1926. List, \$1.75. Per Set. **89c**
BR9144—F o r 1926-27 Fords. List, \$2.00. Per Set. **\$1.04**

Pioneer Spray Gun

For Spraying Duco, Lacquer, Top Dressing

BR8374
\$4.10 Ea. Net

Complete with Glass Jar



Easy to operate, easy to clean, does a perfect job. The heavy brass tubes for liquids are adjusted to discharge a large continuous spray. Improved brass thumb trigger valve in handle automatically controls the output. The cast aluminum top and handle are riveted to top of Mason jar which can be screwed to jars of various colored paints for quick change of colors and speedy operation. Three feet of reinforced rubber tubing with Schrader valve connection which fits all standard air connections. Shipping wt., 3 lbs.

Vaco Spray Gun Operates off Vacuum Cleaner



BR9387
List \$4.50

\$3.35

Net Ea. Lots of 3 \$2.66

The most practical Spray Gun for home use we have ever seen. Its many uses in spraying lacquers, enamels and disinfectants make it extremely desirable. Fits all makes of vacuum cleaners, adjustable to different air forces. Pistol grip and trigger control make easy handling. Self cleaning. Mason top on jar—easily changed from one liquid to another. Shlp. wt., 6 pounds.

Rogers Lacquers for Brushing or Spraying



an hour to one hour. Has an excellent hard gloss, and very little odor. Rogers Lacquers can be had in the following colors. Color chart sent free. Ask for it.

- White, and Flat White
Black
Indian Yellow
Orange
Russet Tan
Chinese Red
Carmine
Rich Wine
Ivory
Sahara Sand
Sage Gray
Rattan
Oak
Cinnamon Brown
French Gray
Slate
Turquoise
Rich Blue
Forest Green
Stem Green
Lettuce Green
Jade Green
Clear

Be sure to specify color wanted.

Number	Size	List	Net Price
BR9388	— 1/4 Pint.	\$0.40	\$0.27
BR9389	— 1/2 Pint.	.65	.46
BR9390	— 1 Pint.	1.10	.78
BR9391	— 1 Quart.	1.95	1.48

Rogers Lacquer Thinner

BR9392—1/4 Pint. List, 35c. Net, 21c
BR9393—1/2 Pint. List, 55c. Net, 33c
BR9394—1 Pint. List, 95c. Net, 57c

Varnish Remover

BR9395—1/4 Pint. List, 30c. Net, 17c
BR9396—1/2 Pint. List, 55c. Net, 30c
BR9397—1 Quart. List, 85c. Net, 49c

High Pressure Spray Gun

Durable Efficient
BR9372
List \$54.00

\$34.30 Net Each



A handy, compact, fast working Spray Gun that will quickly pay for itself. The Ideal High Pressure Spray Gun for the shop or the home. Can be used with smooth or crackle finish lacquers on either wood or metal. Simple in operation and construction, there is nothing to get out of order. The powerful electric motor is enclosed directly above the handle, in order to furnish, direct, forceful pressure to assure a fine even spray. Perfectly balanced throughout, the pistol grip handle further assures effortless operation. There is nothing new to learn, simply follow the easy instructions furnished with each gun. Complete with 20 feet of heavy rubber sheeted cord. Weighs only 5 pounds.
BR9372—Net, Each. **\$34.30**

Quick-Dry Touch-Up Enamel

An all-purpose, fast drying Black Enamel that leaves a durable, glossy finish. For touching up fenders, radiators, bumpers or metal spotted by wear or rust.
BR9384—1 Pt. Net, 95c. **53c**
BR9398—1 Qt. Net, \$1.75. **98c**
BR9399—1 Gal. List, \$4.35. Net. **\$2.50**



Matchless Auto Bulbs General Electric Licensed



Dependable bulbs of the highest quality. Manufactured under General Electric License. Will give a clear, brilliant light. Thoroughly tested for quality. Built according to all the newest engineering principles. Sold only in boxes of 10. Two candle powers means two filaments. Candle

No.	Contact	Volts	Power	List Price	Net Price
FOR REAR AND DASH—				Each	for 10
8R8480	Single	3-4	2	\$0.20	\$1.10
8R8481	Single	6-8	3	.18	.83
8R8482	Double	6-8	3	.18	.83
8R8489	Single	12-16	3	.22	1.21

FOR SIDE LIGHTS—

8R8483	Single	6-8	6	.22	.88
FOR HEADLIGHT AND SPOTLIGHT—					
8R8484	Single	6-8	21	.35	1.39
8R8485	Double	6-8	21	.35	1.39
8R8490	Single	12-16	21	.40	2.20
8R8491	Double	12-16	21	.40	2.20

FOR HEADLIGHTS—

8R8486	Double	6-8	21&21	.45	1.58
8R8487	Double	9	27	.40	2.20
8R8488	Double	6-8	2&21	.38	1.53

BLUE GLASS HEADLIGHT AND SPOTLIGHT

8R8845	Single	6-8	21	.45	2.28
8R8846	Double	6-8	21	.45	2.48

BLUE GLASS HEADLIGHT—TWO FILAMENTS—

8R8847	Double	6-8	2&21	.50	2.75
--------	--------	-----	------	-----	------

Emergency Lamp Kit for Fords



For models up to and including 1927 models. Metal box contains three Mazda bulbs. One 6-8 volt 2-1-2 candle double contact and two 6-8 volt 3-candle power single contact. Safely stored away.

8R8622	—Set as above.	Net.....	40c
8R8623	—Standard Set, consisting of two 6-8 volt 3 C. P. and one 6-8 volt 21 C. P. single contact. Set.	Net.....	37c

Kingston Coils



For all Ford cars. A guaranteed replacement. Strong, dovetailed, oiled maple cases. The core, windings, and specially designed contact points are the finest quality. Will stand all kinds of jolting and bumping. Ship. wt., 3 lbs. List, each, \$1.50.

8R9035	—	\$1.07
Net, each.....		
In lots of 10 or more.		
Each.....		\$1.03

Starter Switches



Made of the best materials. Guaranteed perfect in every way. Fully sherdized.

8R9087	—No. W405A to fit all Chevrolets.	
8R9088	—No. W410 to fit all Autolite Systems.	
8R9089	—No. 998 to fit all Ford models.	
Each Net		28c
Lots of 6		35c Each

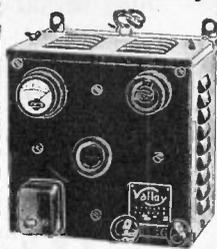
Dash Ammeters for Popular Cars



Fine quality, sensitive instruments that eliminate the need for strong magnetic control or mechanical damping. Not affected by road motion or motor vibration.

8R9055	—For 1925 and older Fords.	33c
8R9056	—For 1927 Fords.	35c
8R9002	—For Chevrolet.	48c
8R9014	—For Hudson-Issex 1927.	48c
8R9019	—For Overland-Whippet '26-'27.	48c
8R9024	—For Pontiac-Oakland '27.	48c
8R9028	—UNIVERSAL TYPE. Will fit almost any car not listed above.	48c

NOW! Valley Battery Chargers on EASY PAYMENTS



We believe this offer will be a great convenience to our customers. The Valley G15 Battery Charger is designed for garage and battery service station work. Has a capacity of 1 to 15 batteries, but will charge 1 or 2 almost as economically as when operating at full capacity. Automatic in operation, it is equipped with overload circuit breaker that assures bulb protection. Has toggle switch that gives two different ranges. The one for charging 1 to 7 batteries; the other for charging 8 to 15 batteries. The charging rate is 6 amperes. All complete with Genuine Tungar Bulb. Dimensions: 13 1/4 in. high x 12 1/2 in. wide x 10 1/2 in. deep. Ship. wt., 70 lbs.

8R1020—110 Volt, 50 and 60 Cycle. **\$65.00**
Cash Price.....

Easy Payments—\$19.50 with order, balance \$10.00 a month. Easy Payment Price..... **\$69.50**

8R1021—220 Volt, or 25, 30, 40 Cycle. **\$71.00**
Cash Price.....

Easy Payments—\$25.50 with order, balance \$10.00 a month. Easy Payment Price. **\$75.50**

"Handy" Service Station Battery Chargers



The outstanding feature of these fine chargers is the economical current consumption, so that even on a 50¢ charging fee a good profit may be made by the station.

These chargers are guaranteed for one year against defective parts and workmanship.

They are of transformer type and no current consuming resistance is used. Rotary quick break switch control. Handle on front panel provides means of setting charging rate to desired point. AC leads are brought through protected conduit and the chargers are unusually compact, convenient and safe. Mounts on wall. Weston ammeters are used. Chargers are finished in Brewster green. Duo. Equipped with standard Tungar or Heetigon bulbs. Complete instructions accompany each.

The model "6-B" has a capacity of six batteries, and the "15-B" (illustrated), 15 batteries. Ship. wts., 96, 120, 112, 142 lbs.

8R1022—Model 6-B. Capacity, 6 batteries; 6 ampere rate; for 110-220 volt; 50 or 60 cycle current. Net..... **\$44.10**

8R1023—Model 6-B. For 110-220 volt; 25, 30 or 40 cycle current. Net..... **\$53.90**

8R1024—Model 15-B. Capacity, 15 batteries; 6 ampere rate; for 110-220 volt; 50 or 60 cycle current. Net..... **\$68.60**

8R1025—Model 15-B. For 110-220 volt; 25, 30 or 40 cycle current. Net..... **\$78.40**

Service Station Battery Charger Capacity 17 Batteries



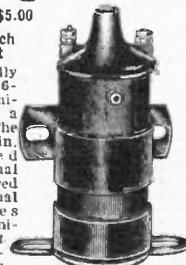
Charges all makes of auto, radio or lighting batteries. Easy to install and operate. Automatic cutoff turns charge off in case of line current failure, and on when current comes back on. Batteries cannot discharge accidentally. Price includes rectifying bulb. Ship. wt., 24 lbs.

2R1043	—For 60 cycle current	\$49.75
Net		
2R1044	—For 25 cycle current	\$56.75
Net		

Universal Ignition Coil

8R9080—List, \$5.00
\$2.55 Each Net

Replaces practically all coils on any 6-volt system. Eliminates all need for a resistance unit. The condenser is built in and may be used where the original condenser was placed in standard original equipment. Comes complete with 2 universal brackets that enable you to attach coil in any position, at any angle. Each coil has hook-up diagram.



SPECIAL FOR CHEVROLETS
This coil replaces regular 8R9082 Chevrolet coil equipment, and is guaranteed to give perfect service. Fully up to standard of the original coil in every way in quality and performance. Each Net \$2.49
Packed complete with base plate. List, \$5.00

LOW TENSION LIGHTING OR PRIMARY CABLES

Single conductor rubber insulated single braid, for wiring head, tail, side, dash, dome and parking lamps.

8R8921	—18-gauge, 16x30 strand, per 100 ft. spool	95c
8R8922	—16-gauge, 19x29 strand, per 100-ft. spool	\$1.10
8R8923	—14-gauge, 19x27 strand, per 100-ft. spool	\$1.21

PRIMARY CABLES—DOUBLE

Two conductors, each Para rubber insulated, one braid over all.

8R8924	—16-gauge, 19x29 strand, per 100-ft. spool	\$2.67
8R8925	—14-gauge, 19x27 strand, per 100-ft. spool	\$3.38

HIGH TENSION PLAIN RUBBER SECONDARY CABLE

Per 100 ft. spool

8R8926	—16-5MM-gauge, 19x29 str.	\$1.40
8R8927	—16-7MM-gauge, 19x29 str.	1.98
8R8928	—16-9MM-gauge, 19x29 str.	2.78

ARMORED LIGHTING CABLE

Per 100-ft. spool

8R8929	—Single, 16-gauge	\$1.75
8R8930	—Single, 14-gauge	2.03
8R8931	—Double, 16-gauge	3.39

HIGH TENSION BRAIDED SECONDARY CABLE

Per 100-ft. spool

8R8932	—16-gauge, 19x29 strand...	\$2.10
8R8933	—14-gauge, 19x27 strand...	2.65

BRAIDED STARTING CABLE

Black, saturated braid. Per foot

8R8934	—2-gauge, 133-23 strand...	1.2c
8R8935	—3-gauge, 49-21 strand...	10c
8R8936	—4-gauge, 49-23 strand...	7c

PLAIN RUBBER BATTERY OR STARTING CABLE

Per foot

8R8937	—2-gauge, 133-23 strand...	14c
8R8938	—4-gauge, 49-21 strand...	11c
8R8939	—6-gauge, 40-23 strand...	8c

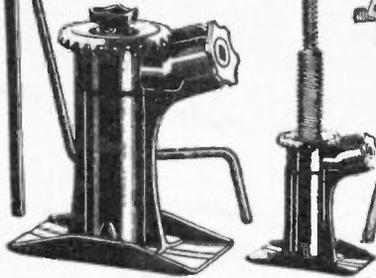
8R10520

\$1 64
Each
Net

5 1/2 in.
Lifts to
13 inches.
Weight,
7 3/4 lbs.

Here is a real value hard to beat in a ball bearing double screw jack. Will easily and quickly lift any car. Gets down low. Cup-shaped steel cap insures positive grip on axle or spring. The inner screw is 3/4 inch thick and the outer screw 1 1/4 inches. Body is solidly welded together. Folding handle measures 38 inches. Sled type base makes jack easy to slip under car. A dependable jack at a low price.

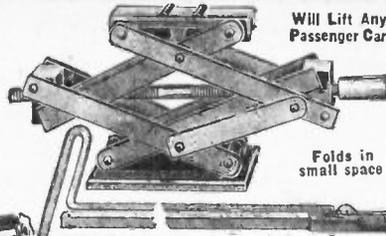
Double Screw Ball Bearing Jack
Full 4,000 Lb. Capacity



The oversize ball bearings are enclosed. Folding handle measures 38 inches. Sled type base makes jack easy to slip under car. A dependable jack at a low price.

A REAL JACK—GETS DOWN LOW—LIFTS HIGH

Will Lift Any Passenger Car



Folds in small space

Will Get Under Axle of Any Car and Lift it 17 Inches

Here it is, Mr. Dealer, the outstanding jack value on the market. Strong and easy to operate. Will lift the heaviest car as easily as a Ford. Gets down real low, 4 1/2 inches, and lifts ANY CAR 17 inches off the ground. There is no other jack on sale that will give your customer more satisfaction or more for his money. Absolutely unbreakable. Folds small and compact; takes little room in the car. The large sled-type base has turned edges so that the jack slips under the car easily. Swivel joint and long handle makes it easy to operate from any position. No soiled clothes.

BRAUN SPECIAL VALUE

8R10510
Lots of 3
\$2.90 each
\$2.95
Each Net

E-Z HYDRAULIC JACK—Lifts 5,000 Pounds

At last, here is a dependable hydraulic jack for the price of a good power kind. Called the "E-Z" and it is. So simple a child can operate it. Can be used on any car with any kind of tires. Nothing else like it for speed of lifting and ease of operation. Strongly made of the best materials, it will give long, satisfactory service under all climatic conditions. Will easily lift up to 5,000 lbs., and quickly! Starts at 7 1/2 inches and lifts clear up to 14 inches, with extra flip for additional height. Complete with folding handle. Now is the time to stock up with this jack, as the demand is steadily growing. People are beginning to realize what a time saver and labor saver a Hydraulic Jack is, and are more than willing to get one at a low price. Ship. wt., 7 lbs. List. \$5.50.

8R10523

\$2.89
Net

Lots of 6.

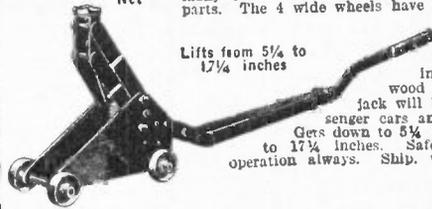
\$2.75
Each
Net



ALL-CAR SERVICE AND CURB JACK

8R10521
\$13.23
Each
Net

A fast working jack for the busy garage man. Handy for changing balloon or cord tires at the curb or in the garage, replacing springs, adjusting wheels or brakes, crank case service and many other uses. All-steel body and working parts. The 4 wide wheels have large, easy-roll bushings. Extra hardened c.p. Folding 52-inch handle has wood grip. This jack will handle all passenger cars and light trucks. Gets down to 5 1/2 inches and lifts to 17 1/4 inches. Safe and sure in operation always. Ship. wt., 44 lbs.



Lifts from 5 1/2 to 17 1/4 inches

PIONEER PUMP
Guaranteed 5 Years



8R8029
Lots of 6,
42c each

44c
Each
Net
20 1/4 Inches High

Look this bargain over. A good pump to sell at a low price. Big capacity barrel, 1 1/4 in. diam., made of heavy gauge steel. Pump 20 1/4 in. high. 20-in. hose. 6 1/2-in. handle. Air-tight washers. Finish, black enamel. Ship. wt., 2 1/2 lbs. List Price, \$1.00.

5-Year Balloon Pump

8R8048
1 1/2 inch
99c
Ea.
Net
List, \$2.00.

8R8049
1 3/4 inch
\$1.09
Ea.
Net
List, \$2.50.

This big, strong balloon tire pump is guaranteed for 5 years! Does not leak. Has self-oiling washers. Hinged foot rest. 2 1/2 in. black enameled barrel. 1 1/2 or 1 3/4 in. diam. 2-ft. hose. Snap-on connector. Wt., 4 lbs.



22 1/2 inch barrel, 1 1/2 inch diam.

8R10514
\$4.75
Each

RELIABLE GARAGE JACKS
FULL 1-TON CAPACITY



Attention, Mr. Dealer! Here is a real time and labor saver that every garage man and service station man will want. Made with extra heavy steel frame, this jack will easily lift up to one ton. Starts as low as 12 1/2 inches and lifts clear to 20 inches. Easy rolling casters. Long handle. Weighs 25 lbs.

8R10514
\$4.75 each

TIP-OVER HEAD
2,000 LB. JACK

8R10515
52c
Lots of 6,
50c each

A Good Quality Low Priced Jack



Think of it! A 2,000-lb. jack for only 52c. Will lift all light cars with either balloon or standard tires. 14-in. handle can be used as tire tool. All-steel. Black enameled. Wide base. Height 7 1/2 in. Flip head 2 inches. Lifts to 13 inches. Weight 6 lbs. List, \$1.25.

EXTRA STRONG TRUCK JACK
LIFTS 5 TONS!

A big heavy jack. Has no superior for lifting trucks with any kind of tires. Extra powerful leverage for heavy duty. Strong malleable steel body. Accurate machine cut gears. Large non-tip base. Pull 1 1/4 in. screw. Long adjustable handle. Starts at 10 inches; raises to 15 1/2 inches. Flip cap adds 2 more inches. Ship. wt., 12 lbs. List. \$5.00.

8R10522
\$3.19
Each
Net



Hercules RIM TOOL
A Real Necessity

Our best rim tool. It is the most powerful and efficient rim tool made and is equally suitable for the car owner or the small repair shop. Shrinks and expands all rims. One tool takes them all. No adjustments. Nationally advertised. Guaranteed against flaws or mechanical defects. Made from special steel with extra heavy screws and gears. Requires little effort due to powerful leverage. Wt., 8 lbs.
8R8065—Car Owner's. **\$2.07**
List, \$3.75. Net
8R8066—Shop Size. **3.46**
List, \$6.00. Net

HIPOWER RIM TOOL
A Good Medium Priced Tool



Makes tire changing easy. Breaks, shrinks and expands all makes of split automobile rims in a jiffy. Automatically locks shrunken rim so the rim can be taken off and put back on tire with the utmost ease and safety. Folds up flat when not in use. A practical rim tool at a moderate price.
8R8173—For Standard Tires. Either High Pressure or Balloon. **\$2.49** Each Net
One size fits all rims.



QUICK-OFF RIM TOOL—Low Price

Quick-on and Quick-off. This is the big feature of this rim tool. Strongly made of malleable iron. Has enough leverage to contract any rim with little effort. Handle and shaft can be locked in any position. Folds flat when not in use. Ship. wt., 7 lbs.
8R8098—List, \$2.50. **\$1.39** Net



NOW!
Guaranteed 2 Years
Against Breakage

CHROMIUM-PLATED GROOVED TWO-BAR BUMPERS

This new, popular style of Pioneer Bumper is now standard equipment on many cars. The Pioneer Chromium Plated Grooved Two-Bar is thick, live and sturdy. Ever ready to absorb stiff jolts and hard knocks. Chromium is the hardest metal possible to plate on other metals. It is harder and better than the finest steel. Metal plated with Chromium will not tarnish, will not rust. Features of this Superior Bumper: 1—Guaranteed 2 Years. 2—Chromium Plated. 3—Made from selected, oil-tempered spring steel. 4—Bars full 1 1/2 in. wide. 5—Easy to attach, no drilling. 6—Two upright clamps instead of one. 7—Deep, black-enamelled groove in center of bars.

8—Two back bars, adding to resiliency of center of bumper. 9—Ends curved to prevent hooking. 10—Back bars, brackets, and fittings finished in baked-on black enamel. 11—Complete with fittings. Ship. wt., per pair, 20 lbs. Furnished for cars listed below only. Be sure to state make, model and year of car, and whether front or rear.

Ford, 1927-28
New Model A Ford
Chevrolet, 1927-28
Dodge 4, 1927-28
Essex, 1927-28
Chrysler 4—1927-28

Hudson, 1927-28
Hupmobile 6—1927-28
Pontiac, 1927-28
Oakland, 1927-28
Oldsmobile, 1927-28
Whippet, 1927-28

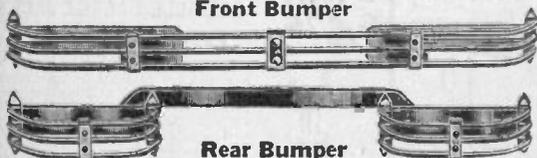
8R9799—
Special Combination
Price. Front bumper
and pair rear
bumperettes complete with
fittings.

8R9802—
Front or Rear

\$14²⁵

\$7⁷⁴
Net

Front Bumper



Rear Bumper

Harvey Spring Steel Bumpers

A new style bumper of less weight and more strength. Built to withstand the severest shock, these bumpers are very light and exceedingly attractive in appearance. They possess that built-in look which is so popular with car owners now. Harvey Bumpers are made of genuine finest quality oil-tempered spring steel. The back bars are also made of spring steel. All trim is full rustproof nickel steel. No clipping or rust on a Harvey Bumper. Combining beauty and elegance with sturdiness and ruggedness, they are seen on fine passenger cars as well as on thousands of trucks. They will absorb the impact of a severe collision and immediately spring back in shape. Shipping weight, per set, 25 lbs. List, \$22.50.

1/2-inch bars in 3-bar style for:
Chev. 1926-27
Ford 1926-27
New Model A Ford
Overland 1925-26,
model 91
Whippet 1927
Star 1926-27, all
4 and 6

Complete with special brackets for each model. Be sure to give make, year and model of car

8R9889—Set of front bumpers and rear bumperettes for cars listed. List Price, \$22.50.

8R9890—Set of full front and rear bumpers, 1926-27 models. List Price, \$22.50.

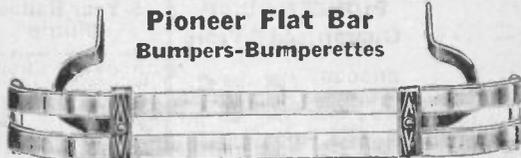
Per Set

\$13²³
Net

Per Set

\$13²³
Net

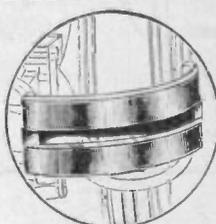
Pioneer Flat Bar
Bumpers-Bumperettes



For All Popular Cars Protection for Yourself and Car at Low Cost

A value that is hard to beat. This quality bumper is strongly made with heavily nickel plated 1/2-inch bars of finest grade oil-treated steel. The spring steel attachment bars are tested to stand hard knocks. The heavy cross bars and the no-hook ends are additional quality features. A complete set consisting of Front Bumper, Pair of Rear Bumperettes, comes neatly packed with all fittings, ready to put on car. Ship. wt. per Set, 27 lbs. Made for the cars listed below. Be sure to state make, year, and model of car when ordering.

Ford, 1927-28
New Model A Ford
Chevrolet, 1927-28
Chrysler 4, 1927-28
Dodge 4, 1927-28
Essex, 1927-28
Hudson, 1927-28
Hupmobile 6,
1927-28
Pontiac, 1927-28
Oakland, 1927-28
Oldsmobile, 1927-28
Whippet, 1927-28



8R9803
Front
bumper
or pair rear
bumperettes

\$4⁹⁵
Each Net

8R9804
Combination
Front
bumpers and pair
bumperettes

\$9⁴⁵
complete

Best Drawn Steel Tubing Bumpers—Now in Colors!

No other bumper will stand as much abuse or give as much complete collision protection as this one. Made of the finest drawn steel tubing, it offers tremendous resistance to bending and kinks. This is the same kind of bumper as used on the most expensive cars. Nickel-plated center strap and end caps. Special center truss and rebound plates. Size of bars: Small cars, all bars 2 1/2 in.; large cars, front 3 in., rear 2 1/2 in. Black and nickel shipped unless another color is ordered.

8R9810
Front Tubular
Bumpers.

8R9811
Rear Tubular
Bumperettes

\$6⁷⁴ Each
Net
Front or rear.

8R9812
Combination Offer
Black and nickel.
Front and rear
set, complete with
all fittings.

\$12⁶⁵ Complete
front and
rear set

BE SURE to state make, year and model of car when ordering. See list at left. Unless otherwise ordered, all bumpers are shipped in black and nickel only.



Close Up
View of One
Rear Bumperette

Ford, 1927-28
New Model A Ford
Chevrolet, 1927-28
Dodge 4, 1927-28
Essex, 1927-28
Chrysler 4, 1927-28
Grh. Paige 610
Willys-Knight 70-A

Hudson, 1927-28
Hupp, 6, 1927-28
Pontiac, 1927-28
Oakland, 1927-28
Oldsmobile, 1927-28
Star 4 and 6
Whippet 4,6, 1927-28

8R9813
Front or rear sets. In colors to match any car. Extra \$1.00 Allow 2 days extra.

Guaranteed, Dependable PIONEER SUPER-POWER

Guaranteed 2 1/2 Years



Truly a Giant. Not only in Power, but also in Size and Performance. Regardless of selling price, this big, husky, all-powerful battery is the best, longest life, and most satisfactory battery made for any car. Use it on your own car and see for yourself how much extra power there is in it. See how easily and readily it turns heavy motors even on cold mornings. The Super-Power is made of only the very highest grade materials. The extra-size plates inside are alive with high power. We do not hesitate to recommend the Super-Power to anyone who wants the absolute Best in Quality, Performance, Durability, and Appearance. Save the big difference in price between what others ask for the same quality and what Braun sells them for. And remember, we Guarantee every Super-Power for TWO and a HALF YEARS, not the usual 90 days. Prices are lowest now, the saving is yours.

PIONEER Super-Power Prices

Every One Guaranteed 2 1/2 Years

SR10786	6 volt, 11 Plate	\$7.29 Net
SR10787	6 volt, 13 Plate	8.44 Net
SR10788	6 volt, 15 Plate	9.95 Net
SR10789	6 volt, 17 Plate	11.28 Net
SR10790	12 volt, 7 Plate	10.45 Net

Super-Powers Give Most Service

Extra Quality

QUALITY—that was the one specification we gave to the manufacturer. Quality in every detail of the Super-Power. It is the result of the best battery manufacturing efforts. Nothing was spared toward making a battery that will give you trouble-free service, at all hours, in all seasons, year after year. The leads and oxides are double-tested; the Port Orford separators are of the straightest grain, perfect wood. The connectors, plate straps, and terminals are finished to special accuracy. The extra-heavy genuine Ebonite boxes are one-piece, acid-proof, and moisture-proof.

Prompt Shipments From a Point Near You

Our battery service saves freight for you. We ship from stock at Chicago, Brooklyn, Kansas City, Milwaukee, Memphis, Boston, Detroit, Cleveland, Columbus, O., St. Louis, Minneapolis. For 75c extra we will also ship from Atlanta, Dallas or Denver.

Guaranteed 2 1/2 Years

PIONEER Super-Power Batteries are guaranteed to give the user Two and One Half (2 1/2) Full Years of service under all reasonable conditions, if not neglected or willfully abused. Any Super-Power that fails to do this will be replaced by us, the user paying only for the actual length of service he has received. We are so sure that Super-Power batteries have the extra built-in Quality that we give this liberal guarantee.

Be Sure to State Make, Year and Model of Car

Car	Year	Models	Type	Super Power	Super De Luxe
Ajix	1925-26	All Models	6-11	\$7.29	\$6.10
Auburn	1923-27	6-43, 6-66, 6-44	6-11	7.29	6.10
Auburn	1924-27	8-63, 8-88, 4-44, 1926	6-13	8.44	7.35
Buick	1921-24	4 Cyl.	6-11	7.29	6.10
Buick	1921-24	6 Cyl.	6-13	8.44	7.35
Buick	1925-28	Stand. 115	6-11	7.29	6.10
Buick	1925-28	Master 120-128	6-13	8.44	7.35
Cadillac	1920-28	All Models	6-19	15.90	13.35
Chandler	1919-26	All Models	6-13	8.44	7.35
Chandler	1927-28	Special 6	6-11	7.29	6.10
Chandler	1927-28	Big 6, Royal 8	6-13	8.44	7.35
Chevrolet	1921-27	All Models	6-13	8.44	7.35
Chrysler	1925-28	58, 60, 62, 70	6-13	8.44	7.35
Chrysler	1926	80; 1927, 72	6-15	9.95	8.96
Chrysler	1927-28	80	6-17	11.28	9.95
Chrysler	1927-28	50, 52	6-11	7.29	6.10
Cleveland	1919-26	All	6-11	7.29	6.10
Dodge	1915-26	All 12 Volt	12-7	10.45	9.45
Dodge	1925-27	6 Volt	6-13	8.44	7.35
Dodge	1918-25	All	6-11	7.29	6.10
Eclair	1926-27	4 and 6 cyl.	6-11	7.29	6.10
Eclair	1925-27	8 Cyl.	6-13	8.44	7.35
Esser	1922-25	All	6-11	7.29	6.10
Erskine	1927-28	All	6-11	7.29	6.10
Ford	1919-27	All	6-11	7.29	6.10
Franklin	1916-22	All	12-7	10.45	9.45
Franklin	1923-28	All	6-15	9.95	8.96
Gardner	1920-27	4 and 6 Cyl.	6-11	7.29	6.10
Gardner	1925-27	8 Cyl.	6-17	11.28	9.95
Graham Paige	1928	All	6-13	8.44	7.35
Gray	1922-26	All	6-11	7.29	6.10
Hudson	1917-28	All	6-13	8.44	7.35
Hupmobile	1918-21	All	6-11	7.29	6.10
Hupmobile	1922-27	All but 8 Cyl.	6-13	8.44	7.35
Hupmobile	1925-27	8 Cyl.	6-17	11.28	9.95
Jewett	1925-27	All	6-13	8.44	7.35
Jordan	1921-27	All but 8 Cyl.	6-13	8.44	7.35
Jordan	1925-27	8 Cyl.	6-17	11.28	9.95
La Salle	1927-28	All	6-13	8.44	7.35

BATTERY TESTING SUPPLIES

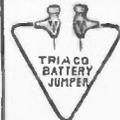


Hoyt Junior Cell Tester 8R8536 \$5.88 Net Each



Terminal Puller 8R9443 \$1.90 Net

A real effective Terminal Puller. The only tool that does not have to go under the terminal. Cannot damage the battery cover. Pulls the toughest terminal quickly. Strongly made of good quality drop forged steel. A handy tool to have. Ship. wt., 2 1/2 lbs.



Triaco Battery Jumper \$1.35 Net

Large head, properly balanced. Special tempered sharp pointed pins. No. 14 gauge copper, rubber covered cable, which cannot pull out. Shipping weight, 1 pound. 8R8598—List, 20c. Net, each, \$1.35. Box of 10, \$12.50.

A reliable and accurate storage battery Tester. Equipped with moving type coil meter, held by bracket in easy-to-read position. Simply place prongs on cell terminals in succession and read the condition of each cell. Gives voltage to two-tenths of a volt. This is a very accurate reading. This tester will last a long time and soon pay for itself. Ship. wt., 5 lbs. List, \$15.00.

BATTERIES at Lowest Prices!

Super DE LUXE Guaranteed 2 Years

The Super-DeLuxe is the battery for all year round. Peppy, Flashing, Dependable Service at a low cost. It has all the advanced improvements of the Super-Power, but is not as heavy in construction. It is made of the same, finest quality materials as the Super-Power. The Super-DeLuxe compares favorably with so-called standard batteries. Many dealers sell the same size as oversize. It will take a heavy charge and hold it a long time. It will turn heavy motors easily at all times, in all kinds of weather. The heavy genuine Ebonite box is one-piece, acid-proof, and moisture-proof. Every Super-DeLuxe is guaranteed for Two (2) Full Years. Order one for your car. Now, and be convinced that the Super-DeLuxe will do all we claim it will. Weight for weight, plate for plate, dollar for dollar, it is an amazing battery value.



New Low Net Wholesale Prices

Car	Year	Models	Type	Super Power	Super De Luxe
Lincoln	1920-28	All	6-19 long	\$15.90	\$13.85
Maxwell	1920-25	All	6-13	8.44	7.35
Moon	1923-27	Light 6	6-11	7.29	6.10
Moon	1923-27	Special 6	6-13	7.29	6.10
Nash	1919-24	4 Cyl.	6-11	7.29	6.10
Nash, 1925-28	Lt. 6	Std. 6, Spec. 6	6-11	7.29	6.10
Nash	1919-28	Big 6, Adv. 6	6-13	8.44	7.35
Oakland	1921-27	All	6-13	8.44	7.35
Oldsmobile	1921-23	All	6-13	8.44	7.35
Oldsmobile	1924-28	All	6-11	7.29	6.10
Overland	1918-23	All	6-11	7.29	6.10
Overland	1924-28	All but 93, 93A	6-11	7.29	6.10
Overland	1926-27	93, 93A (6 Cyl.)	6-13	8.44	7.35
Packard	1921-28	6 Cyl.	6-13	8.44	7.35
Packard	1924-28	8 Cyl.	6-17	11.28	9.95
Paige	1921-22	All	6-13	8.44	7.35
Paige	1923-25	All	6-17	11.28	9.95
Paige	1926-27	All	6-13	8.44	7.35
Peerless	1918-22	All	6-15	9.95	8.96
Peerless	1923-28	8 Cyl.	6-17 long	11.28	9.95
Peerless	1924-26	6 Cyl.	6-15	9.95	8.96
Peerless	1927	6-60	6-11	7.29	6.10
Peerless	1927-28	6-60, 6-80, 6-72	6-13	8.44	7.35
Peerless	1927-28	6-91	6-15	9.95	8.96
Pontiac	1926-28	All	6-17	7.29	6.10
Rco	1921-28	All	6-13	8.44	7.35
Star	1922-28	All 4 Cyl.	6-11	7.29	6.10
Studebaker	1919-27	Spec. 6, Big 6	6-13	8.44	7.35
Studebaker	1920-28	Light 6, Std. 6	6-11	7.29	6.10
Velle	1922-25	All	6-11	7.29	6.10
Velle	1926	All	6-13	8.44	7.35
Velle	1927	50	6-11	7.29	6.10
Velle	1927	60	6-13	8.44	7.35
Whippet	1927-28	4 Cyl.	6-11	7.29	6.10
Whippet	1927	6 Cyl.	6-13	8.44	7.35
Willys-Knight	1920-23	20, 20A	6-17	11.28	9.95
Willys-Knight	1924-27	64, 65, 66, 66A, 67	6-17	11.28	9.95
Willys-Knight	1926-27	70, 70A	6-15	9.95	8.96

Pioneer Super-De Luxe Prices Every One Guaranteed 2 Years

8R-10780	6-Volt—11-Plate	\$6.10 NET
8R-10781	6-Volt—13-Plate	\$7.35 NET
8R-10782	6-Volt—15-Plate	\$8.96 NET
8R-10783	6-Volt—17-Plate	\$9.95 NET
8R-10784	12-Volt—7-Plate	\$9.45 NET

ON DEPENDABLE BATTERY SUPPLIES



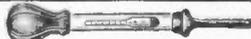
Solid Brass Terminals

One-piece Fit—All solderless Terminals. Heavily Electro-lead plated throughout. Fits all posts in all cars including Cadillac and Lincoln. Shpg. wt., 8 oz. List, 45c.
8R8597—Net, each 13c
Box of 10.....\$1.20



Battery Filler

For storage battery use. Has an 8-oz. capacity bulb of all-rubber construction. Shpg. wt., 1/2 lb. List, 75c.
8R8535—Net, each 35c



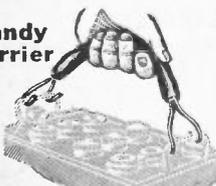
Pioneer Hydrometer

High grade rubber bulb, nozzle. Moulded jar, accurate float gauge. List, 75c.
8R8531—Net, ea. 32c

Leader Hydrometers

Have accurate reading, beaded floats which are practically unbreakable, well made, dependable, accurate, large size is suitable for battery stations and for dealers' testing purposes, being of special, almost unbreakable construction with rubber shock absorber and practical, unbreakable beaded float.
2R2818—Large size, excellent value. List, 75c. Net. 45c
2R2819—Extra large size, service station model. List, \$3.50. Net. \$1.45

Handy Carrier



Battery Carrier

Heavy chain with rubber covering. Lead coated terminal hooks. Shpg. wt., 1 lb. List, 75c.
8R8541—Net, each 29c

2 Years' Guarantee

Every PIONEER Super-DeLuxe battery is guaranteed to give the user 2 full years of service under reasonable conditions, if not abused or neglected. We will replace on a service basis any Super-DeLuxe that fails to give this service.

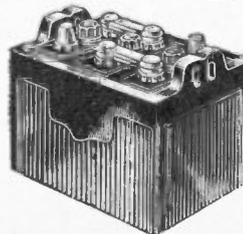
Important!

Every PIONEER battery is shipped to you fully charged, ready to use. Sturdy Wooden house-carts, O. K.'d by the Am. Express Co., insure safe delivery in perfect condition. ALL NEW FRESH MATERIALS. PIONEER BATTERIES are made only from new, fresh materials. No used or reclaimed stock goes into Pioneers.

BIG LEADER SPECIAL BATTERIES

8R10785
6 Volt—11 Plate
Each Net \$6.25
Net Each

8R10791
6 Volt—13 Plate \$7.29
Each Net
Standard Ford and Chevrolet Size Replacement Battery



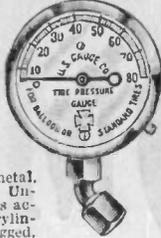
Guaranteed 1 1/2 Years

For the person who is looking for low-priced batteries there is nothing better than this special. Guaranteed for 1 1/2 years (18 months), these batteries will give good service for the money spent. They are strictly a price battery made to meet the demand for this class of merchandise. With these you can meet all competition. Only made in the one size quoted. The best selling size. For real quality and long life we recommend our Super-Power, listed on the facing page. The next best is our Super-DeLuxe listed above.

U. S. Tire Gauge. Very Accurate

For balloon and high pressure tires. Dial is easily read, and is graduated by pounds up to 80 lbs. Hand remains at pressure indicated until released by push pin on side of gauge.

Case is of heavy metal, beautifully nickel plated. Unbreakable crystal. Always accurate, easily read—no cylinders to twist or turn. Rugged, durable, dependable. Non-corrosive construction throughout. Comes in charming pocket case. Shpg. wt., 4 oz.
8R8023—Net price, each.....\$1.10



Schrader Tire Pressure Gauge



A simple, well constructed and guaranteed tire gauge for use on all high pressure tires. Shpg. wt., 4 oz.

8R8020

Net price, each.....\$1.15



Schrader Balloon Tire Gauge

For use on all types of wheels using balloon tires. Registering in 1 lb. units up to 42 lbs. Recommended by all tire manufacturers. Shpg. wt., 4 oz.

8R8021—Net price, each.....\$1.20



Schrader Bus Tire Gauge

The only practical gauge for Bus tires. Specially built with 6-inch extension for easy access to the inside tire on dual tired wheels. Works on the direct action principle, no delicate mechanism to break or get out of order. Shpg. wt., 8 oz.

8R7717—Truck Tire Gauge. List, \$2.50. Net, each.....\$2.00

8R7718—Bus Balloon Tire Gauge. List, \$2.30. Net, each.....\$1.80

8R7719—High Pressure Tire Gauge. List, \$2.20. Net, each.....\$1.70

8R7724—Balloon Tire Gauge. List, \$2.30. Net, each.....\$1.80

Schrader Valves

8R7725—For 30x3 and 30x3 1/2 high pressure tubes and 27x4.40 and 29x4.40 balloon tubes. Also Ford drop center rim wheels with latter size. Each, net.....**24c**

8R7726—For use in 32x3 1/2 and all 4, 4 1/2 and 5-in. high pressure tubes—sizes 6.75 and 7.00. Can also be used in place of No. 724 in balloon tubes—sizes 4.75, 4.95, 5.25, 5.77, 6.00 and 6.20. Each, net.....**26c**



Genuine Schrader Bent Valves

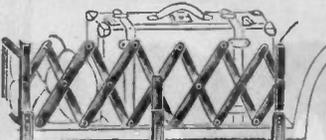
8R8026—For use with all 3 1/2 and 4 in. also 3 1/2 x 1 1/2 and 3 1/2 x 1 1/2 high pressure tubes, all 4.40, 4.75, 4.95, and 5.05 x 2.5 balloon tubes, when mounted on 4-inch rims. Each, net.....**28c**

8R8027—For use in 20x1 1/2, 32x 4 1/2, 34x1 1/2 and all 5-in. high pressure tubes, 31x5.25, all 5.77, 6.00, 6.20, 6.75 and 7.00 balloon tubes. Each, net.....**30c**

Wedford Air-Tite Valve Insides

Fully guaranteed and offered to the trade as an improvement over other designs. Easier to insert, allow rapid inflation of tire and last longer. Come five in a box. List, 25c.

8R8016—Box of five. Net price per box.....**20c**
 Carton of 20 boxes.....**\$3.89**



Luggage Carrier

This is a very popular type running board luggage carrier. Adjusts instantly to any size running board. Fastened by means of three thumb screws. Especially well made with extra heavy braces of steel. When not in use can be folded up and placed in tool box. Shpg. wt., 10 lbs.
8R8729—List, \$1.50. Dozen lots.....59c Ea.

Luggage Carrier

Collapsible, made of crossed steel strips. Riveted joints allow free play but do not rattle. Clamps to running board by two easy turning wing nuts. Painted black, rust resisting. Long life. Folds up into space 45 inches long. May be stored under rear seat. Holds two full size suitcases, 45 inches long and 10 inches high. Shpg. wt., 7 lbs.
8R7727—List, \$1.50. Net.....78c

Adkins' Luggage Carrier

Strap at yoke carrier. Clamp fastened. Can be permanently attached. 72 in. worn straps. Shpg. wt., 3 1/2 lbs.
8R8441—List, \$3.00. Net, per pair.....\$2.00

Garage Door Holders

All steel, galvanized to prevent rust. Easily attached with screws. Adjustable to any height. Hold swinging doors open at any angle. Shpg. wt., 3 lbs.
8R8298—List, \$1.00. Net, per Pair.....60c

Approved Dayton Fire Extinguisher 1-Quart Capacity

Most efficient fire extinguisher made. Throws a stream of liquid 25 feet. Operates with air pressure pump. Made with heavy brass shell. Many patented features found in no other extinguisher. Cannot easily be dented. Will not break or get out of working order from ordinary fall. Bears the full endorsement of Underwriters' Laboratories. Keeps air pressure permanently until released. Simple, positive, cannot fail in action. No evaporation; no leakage. We recommend this extinguisher to every garage and service station as absolutely reliable. Complete with fill of liquid (1 quart). Shpg. wt., 8 lbs.
8R9738—List price, \$2.00. Each, net.....\$1.00
8R9739—Extra charge of extinguisher liquid. Shpg. wt., 3 lbs. List, \$1.50. Each, net.....**\$1.00**



Schrader Valve Insides



For use on all valve stems, whether low or high pressure. The genuine Schrader product, used as standard equipment on most cars. Reliable in every way, they will give the most satisfactory service. Set of 5 in metal box. Shpg. wt., 1 oz.
8R8017—Box of Five. Net, each.....**22c**
8R8018—Carton of 20 Boxes. Net.....**\$4.97**

Hurd Tire Lock and Chain

Electrically welded and hardened links of chain resist theft. Chain covered with neat imitation leather welded tubing. Patented solid bronze genuine Hurd Tire Lock of tumbler type withstands hammering, cutting and filing. Shpg. wt., 2 lbs. each.



8R8457—30-inch chain and lock. List, \$1.65. Net.....**\$1.04**

8R8458—42-inch chain and lock. List, \$1.75. Net.....**\$1.09**

Best Quality Tire Lock Chain

Genuine Hurd Tire Lock attached to case-hardened steel chain covered with heavy leatherette. Two keys.



Shpg. wt., 3, 3 1/2 and 4 lbs.
8R7728—With 24-inch chain. Net.....**\$2.92**
8R7734—With 30-inch chain. Net **3.30**
8R7729—With 44-inch chain. Net **4.12**

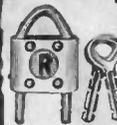
Keyless Tire Lock

There are no levers, dials, or keys to worry about when you have one of these Keyless Locks. Easily opened in the dark by counting the clicks right or left. Water, grease and dust protected. Sturdy construction of steel and brass. Instructions.
8R7731—List each, \$1.25. Net.....**58c**



Tire Carrier Lock

Bronze case and highly polished, brass bolts, black rust proof, steel ratchet shackle. Two nickel keys. Mighty hard to break. A real protection. Shpg. wt., 8 oz. each.
8R8114—List price, \$1.00. Each.....**57c**
 Doz. lots, each.....**54c**



Strong Tow Rope

Dependable and strong. About 15 ft. long and 1/2 inch thick. With hook.
8R8172—Net, each.....**58c**



Rex Tow Chain

A strong, reliable tow chain for all emergencies. Links made of 3/8 inch polished brass plated steel. Grab hooks are drop forged. Length over all, 20 ft.



8R7732—Net.....**\$2.34**

Steel Tow Line

Made of heavy special steel 5/16 inch thick with two 1 1/2-in. rings for attaching. Rust-resisting. Hooks are clipped on to permit easy adjustment of length. 18 ft. long. Shpg. wt., 4 lbs. List, \$3.50.



8R7748—Net.....**\$1.62**

A Real Tire Tool

A complete tool for all tire changing operations. Made of carbon steel, 16 inches long, and polished nickel finish. The handle is tapered to spring leaf edge for use on all style rims. Curved end fits all size tires, and is used to open the casing for inspection on the inside. Makes easy to insert tube and flap. A substantial tool designed especially for the individual car owner. Complete instructions furnished. Most efficient tool made. Shpg. wt., 1 1/2 lbs.

8R8734—List, \$1.25. Each, net.....**39c**
 Lots of 10, each.....**37c**



30,000 Miles

World's Greatest Guarantee

\$11.53

29x4.40
Full Balloon



No Better Tire Made for Any Car, Anywhere

Order a set of these Barawik 30,000 Mile Guaranteed Tires today—and that's probably the last set of tires you'll have to buy for your car. Chances are that you will never wear them out. They are so strong and tough that they will go much more than 30,000 miles without trouble. They have to or we would not be able to offer you this amazing guarantee.

Just think of it! 30,000 miles is more than the average owner drives a car in two or three years! No tire troubles and no tire expense for that length of time is what our guarantee means to you. Figure the money you save!

No matter what make of car you are now driving, whether it be a heavy one or a light one, there are no better tires for it than Barawik's 30,000 Mile Guaranteed Tires. They have been tested and proved on all makes of cars over all kinds of roads. Compare this yourself against any other tire made and be convinced that it is all that we claim it to be.

Be the Final Judge— Test Them Yourself

You take no chances. Send for a set or a pair of these Super Tires today and see for yourself how much heavier, how much bigger, how much thicker they are than any other tire in the World. Also compare the QUALITY of the rubber that is in them, the GUARANTEE and the PRICE. You will wonder how it is possible for Barawik's to sell such a wonderful tire at such a low price. There is no secret to it. We are entering into the tire business with a Bang. We want you to know that we are in it to stay, and we want you to be favorably impressed with our first tire offer. We want you to have the best tires in town on your car, at money saving prices.

GUARANTEED!

World's Greatest Super Tire

This Super 30,000 Mile Tire marks a milestone of progress in the history of tire manufacturing. It is the product of the concentrated knowledge and efforts of the best tire engineers in the country. When we told our manufacturer that we wanted a tire that we could guarantee for 30,000 miles of actual road use, he immediately summoned to his aid expert tire builders from all over the country. They manufactured and tested tires for months before they were finally at the stage where they could say: "Here it is. This is the Super Tire that you want. You can guarantee it for 30,000 miles and it will go many more."

Our next step was to get into quantity production so that we could bring the price down low enough to make it worth while to our customers and also to make this tire worthy of a place in this book of Tremendous Values. We take great pride in offering this tire to you. We know that it is just what you have been looking for at the price you wanted to pay.

Everything in this Bigger, Heavier, Stronger, Oversize Tire has been improved. There is more Pure Rubber covering and separating the cords than in other tires. The thread is thicker and of better quality than in other tires. In short, we believe it to be the Best Tire Made, and we do not hesitate to Guarantee it 30,000 miles.

PRICE LIST SUPER TIRES

Article Number	Size	Rim Size	No. of Piles	Each	Shp. Wt., lbs.	
7R10830	28x4.75	19	6	\$14.10		27
7R10831	29x4.40	21	6	11.53		24
7R10832	29x4.75	20	6	14.35		28
7R10833	29x4.95	20	6	16.20		29
7R10834	29x5.00	19	6	15.80		28
7R10835	30x4.50	21	6	12.20		25
7R10836	30x4.95	21	6	16.50		30
7R10837	30x5.00	20	6	16.20		29
7R10838	30x5.25	20	6	17.05		31
7R10839	30x6.00	18	6	20.65		34
7R10840	31x5.00	21	6	16.50		30
7R10841	31x5.25	21	6	18.05		32
7R10842	31x6.00	19	6	21.15		35
7R10843	32x6.00	20	6	21.65		36
7R10844	32x6.20	20	6	23.45		37
17R10845	33x6.00	21	6	22.20		37

Our Complete Line of Tires, Tubes Meets Your Every Need

No matter what kind of tire or tube you are looking for, WE HAVE IT. Our stock is complete both as to sizes and grades carrying different mileage guarantees. All are the lowest possible prices that can be put on quality merchandise. Every tire and tube we sell, no matter how low the price, bears a definite mileage guarantee of service. Each one must live up to its guarantee or we will make good on it.

You save from 5% to 30% on your tires and tubes when you buy from Barawk. And remember, the quality is there. We would not be able to guarantee every tire and tube for a definite length of service if the stuff wasn't in them.

**A
Positive
SERVICE
GUARANTEE
on Every
Tire and
Tube!**

Super Tubes Guaranteed With Tires

Made to use with Super Tires. These tubes are heavier and bigger than regular tubes and will give more service. Dollar for dollar they are the most economical tubes you can get for they give the most actual mileage. We are so sure of the quality of these tubes that we GUARANTEE EVERY ONE OF THEM FOR THE LIFE OF THE SUPER TIRE IN WHICH IT IS USED.

PRICE LIST SUPER TUBES

Article Number	Size	Each	Shp. Wt.	
			Lbs.	Ozs.
7R10850	28x4.75	\$2.20	4	12
7R10851	29x4.40	2.00	4	12
7R10852	29x4.75	2.30	4	12
7R10853	29x4.95	2.50	5	3
7R10854	29x5.00	2.45	4	12
7R10855	30x4.50	2.15	5	5
7R10856	30x4.95	2.50	5	9
7R10857	30x5.00	2.50	5	3
7R10858	30x5.25	2.90	5	9
7R10859	30x6.00	3.15	6	5
7R10860	31x5.00	2.60	5	9
7R10861	31x5.25	3.00	6	1
7R10862	31x6.00	3.25	6	12
7R10863	32x6.00	3.40	6	12
7R10864	32x6.20	3.70	7	12
7R10865	33x6.00	3.50	7	1

Our Adjustment Policy Is Very Liberal

Should a defect in workmanship or materials develop in any Barawik Tire or Tube, you are entitled to a more than fair adjustment, according to the Service Guarantee it carries. Our adjustment department sees to it that you are treated right. Just return to us the tire or tube, Prepaid, as the post office will not accept them any other way, and we will allow you credit on a new one, charging you only for the mileage actually received. Be sure to send us a separate letter explaining your reason for returning.

Naturally, we cannot guarantee a tube that is damaged through pinching or improper insertion in tire. Neither can we guarantee a tire against under-inflation, or running with wheel out of line — nor against cuts from fender, broken glass, sharp stones, or curb bruises. No tire is guaranteed against abuse. As soon as we receive your returned tire or tube, our adjustment department will examine it carefully, then send you a report on it, together with an adjustment offer. As soon as you have approved this offer, we will at once ship you the new tire or tube.

America's Finest

\$6⁷⁵

29x4.40



**Sold Exclusively
Lowest
Greatest
Strongest**

**4 Out of 5 Motorists
Prefer This Tire**

These 16,000-Mile Aztec Tires are still the most popular selling class of tires because they match up in Quality, Size and General Construction with the high priced cords that are used on most cars as equipment by the auto manufacturers.

Of course, you save your customers several dollars when a comparison is made with the other tires of this type. Furthermore you give them a REAL MILEAGE GUARANTEE which these other tire manufacturers do not. It will pay you to carry a few of the popular sizes, ready for IMMEDIATE DELIVERY.

AZTEC 16,000 Mile Guaranteed Balloons

**The World's Lowest Wholesale Prices
On 16,000 Mile Guaranteed Balloons**

Article Number	Tire Size	Rim Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10157	27x4.40	19	6.65	4	15 1/2
7R10158	28x4.40	20	6.70	4	15 1/2
7R10160	28x4.75	19	8.95	4	19 1/2
7R10163	28x5.25	18	10.85	4	21 1/2
7R10130	29x4.40	21	6.75	4	16

Special for Heavy Passenger Cars and Trucks					
Article Number	Tire Size	Rim Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10131	29x4.40	21	8.45	6	18
7R10161	29x4.75	20	9.20	4	19 1/2
7R10164	29x5.25	19	11.05	4	22
7R10185	29x5.50	19	12.50	4	25
7R10132	29x4.95	20	10.10	4	22
7R10159	30x5.00	21	7.60	4	17 1/2

Special for Heavy Passenger Cars and Trucks					
Article Number	Tire Size	Rim Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10131	30x4.50	21	10.20	6	19 1/2
7R10162	30x4.95	21	10.40	4	22 1/2
7R10132	31x5.00	20	10.10	4	25
7R10135	30x5.25	20	11.30	4	22 1/2

Heavy Duty 6 Ply					
Article Number	Tire Size	Rim Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10110	30x5.25	20	12.70	6	24 1/2
7R10186	30x5.50	20	12.70	4	25 1/2
7R10137	30x5.77	20	14.70	6	28 1/2
7R10188	30x6.00	18	13.30	6	31
7R10128	30x6.20	18	13.30	6	34
7R10141	30x6.75	18	13.60	6	34 1/2
7R10162	31x5.00	21	10.40	4	22 1/2
7R10136	31x5.25	21	11.70	4	23

Heavy Duty 6 Ply					
Article Number	Tire Size	Rim Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10119	31x5.25	21	13.55	6	25 1/2
7R10189	31x6.00	19	14.95	6	33
7R10120	31x6.20	19	16.45	6	35
7R10187	32x5.77	22	15.05	6	32
7R10127	32x6.00	20	15.10	6	34 1/2
7R10139	32x6.20	20	16.60	6	36 1/2
7R10133	32x6.75	20	16.60	6	35 1/2
7R10138	33x6.00	21	15.35	6	35
7R101401	33x6.20	21	17.20	6	36 1/2
7R10142	33x6.75	21	20.20	6	37 1/2
7R10143	34x7.30	20	23.20	6	39 1/2

Finest Balloon Feature

1. Double-Flex Groove, Wide, Flat Tread. One-Piece from Bead to Bead.
2. Extra Strong, Long, Twisted Cords.
3. Triple-Rib Sidewall Reinforcements.
4. Safety Road Gripping, Non-Skid.
5. Compressed Tread—Harder to Puncture.
6. Full Number of Plies of Long Staple Cords as in Highest Priced Tires.
7. Full 16,000 Mile SERVICE GUARANTEE.
8. Beautiful as any tire, at any price.
9. Extra tough, long wearing Rubber.
10. Full Oversize Construction making Them Exceptionally Easy Riding.

REPLACEMENT SEMI-BALLOON TIRES

Article Number	Tire Size	Replaces Old Size	New Low Net Price	No. of Plies	Shp. Wt. Lbs.
7R10150	31x4.40CL	30x3 1/2	\$ 8.45	4	17 1/2
7R10151	31x4.40SS	30x3 1/2	9.40	4	18 1/2
7R10152	31x4	31x4	12.30	4	24 1/2
7R10153	33x4.95	32x4	12.70	4	25 1/2
7R10154	34x4.95	32x4 1/2	13.20	4	26 1/2
7R10155	33x5.77	33x4	17.45	6	34 1/2
7R10156	34x5.77	33x4 1/2	17.95	6	34 1/2

16,000 Mile Tires

by Dealers

**Prices
Mileage**

Construction

**Lifetime Opportunity
for Live Dealers**

Never have you been able to meet all tire competition so favorably as today. In fact you can **BEAT ALL** with this line of Tires. Every tire has a **DEFINITE MILEAGE GUARANTEE** that is far ahead of anything dealers have ever had to offer before—and the tires have been **IMPROVED TO OUTLIVE** these guarantees by a good, wide margin.

With these New Low Prices—New Increased Guarantees—New Immediate Delivery—Complete Line—there is no reason for you to lose a single sale.



\$5⁶⁵

**30x3½ CI.
REGULAR**

AZTEC 16,000 Mile Guaranteed Oversized Cords

Great High Pressure Tire

There are still thousands of ears in your territory that use high pressure tires and they are in the market for good, reliable cords. The Aztec 16,000-Mile Oversize Cord will **SATISFY** every one of these motorists.

It will match up with the highest priced tires in Construction, Size, Materials and Service—yet it is priced several dollars less than generally asked for equal quality—and it's **FULLY GUARANTEED** for 16,000 Miles Service. Don't overlook this **DEFINITE MILEAGE GUARANTEE** for it means that the customer will get what he pays for—and it is a **BIG ADVANTAGE** in helping **YOU** to sell tires.

Improved Construction Increased Guarantee

This has been a year of remarkable advancement in the Aztec Tire Business. New One-Piece Tread and Sidewall Construction—new ways of toughening the rubber—new strengthening of the cords have enabled us to offer you a tire far superior to that ever sold at these prices before. All of these **IMPROVEMENTS** have been incorporated in the construction of these New Aztec Oversize Cords which we **NOW Guarantee** for 16,000 Miles.

The World's Lowest Wholesale Prices

**On 16,000 Mile Guaranteed Cords
Full Oversize**

Article Number	Size	No. of Plies	Price	Ship. Wt. Lbs. Oz.
7R10165	30x3	4	\$ 5.19	11½
7R10166	Reg. 30x3½	4	5.65	13
	Oversize 30x3½	4		
7R10167	30x3½	4	5.95	15½
7R10168	30x3½SS.	4	7.35	15½
7R10169	31x4	5	9.95	21
7R10170	32x4	5	10.70	21¾
7R10171	32x4½	6	14.95	26½
7R10172	33x4	5	11.30	22½
7R10173	33x4½	6	15.20	27½
7R10174	34x4½	6	15.95	28½
7R10175	33x5	7	21.00	34
7R10176	35x5	7	21.25	35½

16,000 Mile GUARANTEE

Aztec Balloons and Cords carry the guarantee of 16,000 miles minimum service. We will replace any Aztec that fails to deliver this service because of any defect in materials or workmanship, charging the user only for the mileage received. See details of guarantee on Pages 244 and 245.

Lowest Wholesale

for

10,000

Guar
Ti



Road Master 10,000 Mile Guaranteed Balloons

Big, Full Size Balloons That Match High Priced Tires

The Roadmaster is a tire that will make a lot of money for YOU. It is a REAL BALLOON—BIG—FULL SIZE—a dandy for WEAR—and a wonder for looks. It will positively match in size, number of plies and appearance a great many of the highest priced tires. It will outwear and ride easier than any tire you have ever handled near this price, for it is made with an exceptionally large amount of live, springy rubber and an amazing good grade of cord material.

GUARANTEED SERVICE No Guessing About Mileage

You hear a lot of talk NOW about GUARANTEES—but there still is only ONE REAL TIRE GUARANTEE and that is ACTUAL MILEAGE. You want to know what you're going to get for your money—and so does your customer.

Braun settles the guarantee question definitely, for every Braun Tire is sold with the strict understanding it will DELIVER on the ROAD a good, liberal, DEFINITE MILEAGE. A fair, honest service for every cent. Why, look at this Roadmaster—it has a definite guarantee of 10,000 miles service—that's more than most manufacturers give on tires selling for much more. Explain this thoroughly to your customers and it will land the order for you every time.

Thousands of Motorists Near You Want This Class of Tire

The wise dealer sells what the customers want—and the Roadmaster is exactly what thousands right near you are looking for. It has the very latest design wide, flat, double groove, thick tread that has been proved the BEST construction for balloons. You will feel proud to put it beside any tire, regardless of price. And when you compare prices and guarantees, the deal is closed—you get the order, for there isn't any other dealer who can show such a VALUE with the personal service you can give.

BUY NOW At These New Reduced Prices!

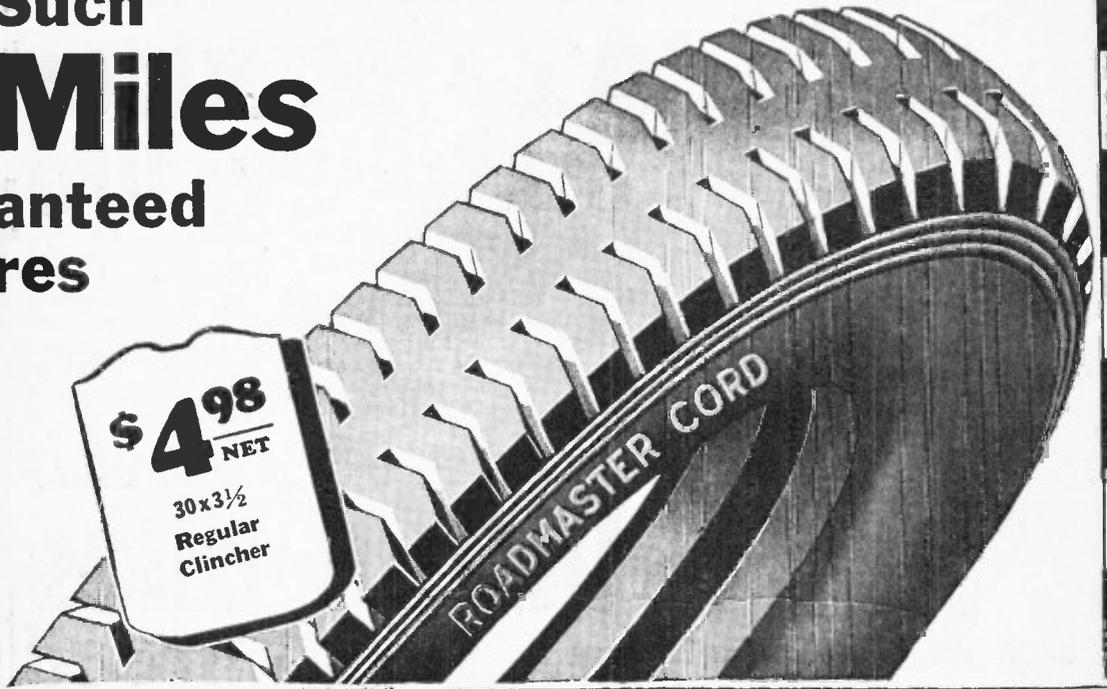
No.	Size	Ship. Weight lbs.	Net Price	Rim Size
7R14105	28x4.75	19	\$7.75	19
7R14108	28x4.95	21	8.35	19
7R14103	29x4.40	16	5.95	21
7R14106	29x4.75	19½	7.85	20
7R14109	29x4.95	22	8.55	20
7R14108	29x5.00	21	8.35	19
7R14104	30x4.50	19½	6.75	21
We recommend this tire as oversize for 29x4.40				
7R14107	30x4.75	20	\$7.98	21
We recommend this tire as oversize for 30x4.50				
7R14110	30x4.95	22½	\$8.70	21
7R14109	30x5.00	22	8.55	20
7R14113	30x5.25	22½	9.35	20
7R14117	30x5.77	28¾	11.50	20
7R14118	30x6.00	31	12.70	18
7R14110	31x5.00	22½	8.70	21
7R14114	31x5.25	23	9.65	21
7R14120	32x6.00	34½	13.05	20
7R14121	33x6.00	35	13.25	21

Prices in the World

Such

Miles

Guaranteed
Miles



Road Master 10,000 Mile Guaranteed Cords

Free Freight On Orders of \$50 or Over

Every dollar you save is that much MORE PROFIT for YOU. Naturally the larger your order the less it costs per item for handling and packing, but instead of keeping this for ourselves we give this advantage to our dealers—as EXTRA PROFIT. Another tire, a radio or set of seat covers will often bring your order up to the \$50.00 amount and SAVE YOU FREIGHT on the entire order. Read full details of this offer on Page 256, as we want every one of our dealers to MAKE ALL THE MONEY POSSIBLE.

Lowest Prices Ever Quoted

OVERSIZE CLINCHER			
Article Number	Size	Price	Ship. Wt.
7R10195	30x3	\$ 4.85	11½
7R10196	30x3½ Reg.	4.98	12½
7R10121	30x3½ O. S.	5.05	14½
OVERSIZE STRAIGHT SIDE			
7R10184	30x3½	6.05	14½
7R10122	31x4	8.40	16¾
7R10123	32x4	8.69	17½
7R10124	33x4	9.38	18¾
7R10182	32x4½	11.10	23
7R10183	33x4½	11.38	25½

10,000 Mile Guarantee

Roadmaster Balloons and Cords carry the Barawik guarantee of 10,000 miles minimum service. We will replace any Roadmaster that fails to deliver this service because of any defect in materials or workmanship, charging the user only for the mileage received. See details of guarantee on Page 163.

These Are Oversize Cords At Lowest Wholesale Prices

The market for oversize cords is tremendous, for there are millions of cars still using high pressure tires. This IMPROVED and GREATER GUARANTEED Roadmaster is the TIRE that will COMPLETELY SATISFY a big majority of these motorists, for they are looking for a good low priced tire—This is IT.

FEAR NO COMPARISONS—for the Roadmaster is Full Oversize—has the Full Number of Plies—the rubber and cord material will STAND the most critical examination for flexibility, liveliness, strength and freshness.

Thick Non-Skid Tread That Holds on Bad Roads

When showing a Roadmaster always call attention to the extra thick, deep, sure-hold, non-skid tread; for this feature is worth a great deal to car owners who travel muddy, snow-covered roads. Ask them to compare it with any tire they have on their car. Measure the tread for width and depth. Then, they will realize the extra protection and traction this tire gives on bad roads where owners with other tires have to fuss with chains.

With these Better Construction Features—with the 10,000-Mile Guarantee—with the Lowest Wholesale Prices ever offered, the Roadmaster gives you a big Advantage.

Quick Shipments Telegraph Rush Orders

Barawik's 19 years' experience in selling direct by mail has enabled him to devise order filling methods that surpass all others. Often orders leave in 2 hours. If you need goods in a hurry order by telegram or telephone. Our Long Distance telephone number is Central 5294. All telegram orders should be sent us prepaid, not collect.



Dealers! Make More Profit with this Great New **AZTEC Super Truck and Bus Tire**

Here's a **BIG PROFIT MAKER** for YOU because it is a **BIG MILEAGE MAKER** for truck and bus owners. The more miles they get per dollar the **MORE PROFIT** they make—and that's what they want. Talk **GUARANTEED MILES** and **DOLLARS** to these men—show them **WHY** the New Aztec is better than any other tire they ever bought for the money. You can do it—for there **NEVER** have been wholesale prices as low as these on such 14,000-mile Guaranteed Heavy Duty Tires.

First Ever Offered Dealers **14,000 Miles Guaranteed**

Lowest Wholesale Prices Truck and Bus Tires

Article Number	Size	No. of Plies	Price	Ship. Wt., Lbs.
7R10100	30x3½	5	\$ 8.30	19
7R10101	32x4½	8	18.55	32
7R10102	34x4½	8	20.05	36
7R10103	30x5	8	21.85	39
7R10104	33x5	8	23.95	43
7R10105	34x5	8	24.90	44
7R10106	35x5	8	25.90	46
7R10107	32x6	10	38.75	56
7R10108	36x6	10	42.40	62
7R10109	34x7	10	49.55	65
7R10111	40x8	12	73.60	105

**Check the Prices
Match the Guarantees
Compare the Tires**

Not only are these **SUPER** Truck and Bus Tires, but they are **SUPER VALUES**. You'll be proud to sell them, for in every comparison the Aztec wins.

These Tires offer you a **NEW OPPORTUNITY**, for when a man sees how many dollars you can save him on each tire, naturally he is going to be interested in buying tires for his passenger car also from YOU. Make all kinds of comparisons, then get truck owners to try just one of these Aztecs opposite any other make and see how quickly you will win their trade.

America's Greatest Truck & Bus Tire Values

Every inch of these Tires is built for Heavy Duty Service. The tread is thicker, stronger and heavier, so it will wear longer, carry bigger loads and be harder to puncture. You never have seen a better non-skid tread on any tire. The cords are the very finest; extra strong and extra long, and they are just buried in live rubber so they won't heat up like cords that have just a thin coating.

An extra cushion of rubber beneath the tread, double breaker strips and triple sidewall ribs help make this tire a value that can't be touched by competitors.

14,000 Mile Guarantee You Make the Adjustments

AZTEC Super Truck and Bus Tires carry the Guarantee of 14,000 miles minimum service. We will replace any Aztec that fails to deliver this service because of any defect in materials or workmanship, charging the user only for mileage received. See details of guarantee on Page 244.

Special Truck and Bus Tubes Guaranteed 3 Years

Specially built, extra size and extra thick Heavy Duty Tubes that fit the biggest truck tires without unnecessary stretch or strain. The finest pure rubber is used, in order that they will give years of service even beyond our definite 3-Year Guarantee.

Built by the New LAURSEN WATER CURE PROCESS that gives a uniformly even heat, making them absolutely free from flaws. No air pockets, no blisters, no weak spots.

Stock No.	Size	Ship. Wt.		Price
		Lbs.	Lbs.	
7R10001	30x3½	3		\$1.28
7R10002	32x1½	4½		2.30
7R10003	34x1½	4½		2.50
7R10004	30x5	5		2.75
7R10005	33x5	5		2.90
7R10006	34x5	5		3.05
7R10007	35x5	6		3.15
7R10008	32x6	8		4.50
7R10009	36x6	8		5.00
7R10010	34x7	10		5.50
7R10012	40x8	13		6.95

Guaranteed 3 Full Years!

We guarantee the Aztec Truck and Bus Tubes for three years against defects in material and workmanship. When run on tires kept properly inflated they will often far outlast this period. Made extra strong and heavy for hard continuous service.

FINAL PRICE CUTS!

Guaranteed
4,500 and
6,000 Miles



GUARANTEED
4,500 MILES
NO.
30x3½ Std. Cl.
3 89
NET

New Low Prices! GREATER MILEAGE!!

**QUALITY UP!
MILEAGE UP!
PRICES DOWN!**

You have been looking for lower prices. Here they are! We have taken full advantage of the recent reduction in rubber prices to give you a competitive tire that few other houses in America can equal. Never, in all our selling of thousands and thousands of tires, have we seen tire prices so low, or quality so high for the money.

Better Quality!

In addition to marking down our prices to new all-time low levels, we have improved the quality so much that we now guarantee 4,500 miles on standard 30x3½ and 6,000 miles on 30x3½ Jumbo O. S. and 29x4.40 balloons minimum service from each and every tire. We will repair or replace any tire that does not live up to the guarantee, if found defective in either workmanship or materials.

Here is a dependable low-priced tire that costs you less than retreaded, rebuilt or reconditioned tires—just the kind you need for the thousands of car owners who want a tire for little money to run their old cars a full season before they trade or sell them.

Guaranteed
4,500 Miles

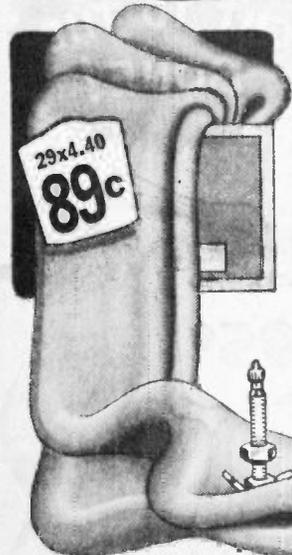
7R10112 \$ **3 89**
30x3½ Std. Cl. Each, Net

Guaranteed
6,000 Miles

7R10113 \$ **4 63**
30x3½ Jumbo O. S. Cl. Each, Net

Guaranteed
6,000 Miles

7R10114 \$ **4 95**
29x4.40 Balloon Each, Net



A High Grade Guaranteed Tube At Lowest Prices Ever Quoted!

Now you can buy a real quality tube at new amazingly low prices! A tube you can depend on. A full-gauge, full size, full weight tube backed by a positive guarantee of 18 months' service. Made of new, live rubber, with genuine Schrader valve, heavy valve stem padding, and made by the new Lutrose Water Cured Process—a perfect, leafless, fast-selling tube. Never before has a tube so good been sold for so little. Never before have you been able to buy a guaranteed tube at such a price!

SAVE BY BUYING IN HUNDRED LOTS!

You make a big extra saving by buying in 100 lots. Here is a tube you can sell with no effort at all, and easily double your money. Put in a stock of at least 100 now—make them a feature for your store. The quality will sell them; the service will keep them sold!

Quality has been maintained

Lowest Wholesale Prices

<p>30x3½ Gray 7R10190 69c Each 24 Lots 68c 100 Lots 67c</p>	<p>30x3½ Red 7R10191 77c Each 24 Lots 76c 100 Lots 74c</p>
<p>29x4.40 Gray 7R10192 89c Each 24 Lots 88c 100 Lots 87c</p>	<p>29x4.40 Red 7R10193 97c Each 24 Lots 95c 100 Lots 93c</p>

Bigger Mileage, Yet Smashing Reductions

Here is a good example of the unparalleled price-smashing reductions we have made on every tire and tube in our line. You now get a greater service guarantee—more assured mileage—and the prices are at low levels never reached before.

These are the most sweeping reductions in tire history. No matter how far back you go, you will never find their equal. Our tire prices today represent America's rock-bottom levels.

A TWO-WAY BARGAIN—More Service; Lower Prices!

AZTEC MOLDED TUBES

3 YEARS' SERVICE GUARANTEED

The Perfect-Circle, No-Kink Tube

MOLDED tubes are made in one complete, true circle. The valve stems are molded into the middle of the tube, preventing crooked stems. The tubes are made under immense pressure, making the rubber much closer grained and preventing pores, bubbles and thin walls. They fit the tire perfectly at every point. No stretch; no strain. No kinking; no cracking.

The Last Word in Tube Building

The new full molding process is the latest and greatest improvement in tubes. It produces a tube infinitely superior to the old-style tube with its splicing and lapping. It eliminates all the weak spots and imperfections. It makes a tube that is of perfect, even thickness all around; a tube which holds its shape when put into the casing; a tube which does not wrinkle, stretch or show thin spots. It increases the mileage because it removes the old sources of tube trouble.

Sensationally Reduced Prices!

No.	Size	Ship. Wt. lbs.	Net Price	No.	Size	Ship. Wt. lbs.	Net Price
7R14000	27x4.40	3	\$1.23	7R14021	30x6.20	5	\$2.45
7R14004	28x4.75	3 1/2	1.43	7R14024	30x6.75	5 1/2	2.57
7R14010	28x5.25	3 1/2	1.62	7R14009	31x4.95	4	1.68
7R14002	29x4.40	3 1/2	1.25	7R14013	31x5.25	4	1.63
7R14005	29x4.75	3 1/2	1.45	7R14018	31x6.00	4 1/2	2.28
7R14007	29x4.95	3 1/2	1.60	7R14030	31x6.20	5 1/2	2.47
7R14011	29x5.25	3 1/2	1.65	7R14019	32x6.00	4 1/2	2.38
7R14014	29x5.50	3 1/2	1.88	7R14022	32x6.20	5 1/2	2.50
7R14003	30x4.50	3 1/2	1.42	7R14025	32x6.75	5 1/2	2.85
7R14006	30x4.75	3 1/2	1.50	7R14020	33x6.00	4 1/2	2.40
7R14008	30x4.95	3 1/2	1.63	7R14023	33x6.20	5 1/2	2.52
7R14028	30x5.00	4	1.60	7R14026	33x6.75	5 1/2	2.89
7R14012	30x5.25	3 1/2	1.67	7R14027	34x7.30	7 1/2	3.39
7R14015	30x5.77	4	1.90				
7R14017	30x6.00	4 1/2	2.24				



Illustration shows how snug and smooth the Aztec Molded Tube fits into the casing. Even pressure at every point. No kinks; no stretching; no strain; no tearing.

Roadmaster Tubes

A Wonderful Tube for the Money!

If you have not tried them, here is a real value in tubes. Don't judge them by the price. Order a dozen and test them among your trade. They are fine quality all through and will stand up as well as many tubes selling for a great deal more money. Make the Roadmaster a leader in your sales-drives. They are self-selling at the price you can quote on them.

Guaranteed 18 Months

In spite of their amazingly low price, Roadmaster Tubes are made so good that we do not hesitate to guarantee them to you for 18 months of satisfactory service. We have sold thousands of them, and they have made a most remarkable record of long-time service. You are fully assured that here is a tube that is far better than you would expect at the price.



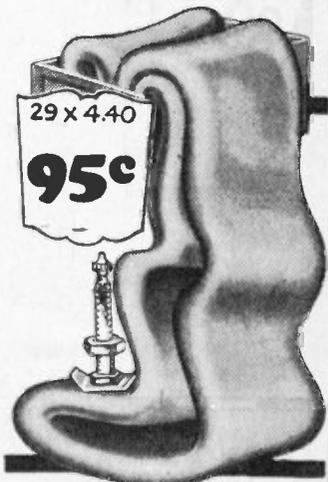
NEW REDUCED TUBE PRICES!!

BALLOON TUBES

GRAY				RED			
Number	Size	Price	Ship. Wt. lbs.	Number	Size	Price	Ship. Wt. lbs.
7R10083	27x4.40	\$0.86	2 1/2	7R10094	27x4.40	\$0.94	2 1/2
7R14151	28x4.75	.99	2 1/2	7R10097	28x4.75	1.08	2 1/2
7R10084	29x4.40	.95	2 1/2	7R10095	29x4.40	1.06	2 1/2
7R10085	29x4.75	1.03	2 1/2	7R10098	29x4.75	1.13	2 1/2
7R10087	29x4.95	1.08	3	7R10099	29x4.95	1.17	3
7R10080	29x5.50	1.30	4	7R10384	29x5.50	1.39	4
7R14150	30x4.50	.97	2 1/2	7R10096	30x4.50	1.06	2 1/2
7R10086	30x4.75	1.05	2 1/2	7R10099	30x4.75	1.15	2 1/2
7R10088	30x4.95	1.11	3 1/2	7R10871	30x4.95	1.20	3 1/2
7R10878	30x5.00	1.08	3	7R10882	30x5.00	1.17	3 1/2
7R10090	30x5.25	1.24	3 1/2	7R10873	30x5.25	1.34	3 1/2
7R10092	30x5.77	1.31	4	7R10875	30x5.77	1.40	4
7R10881	30x6.00	1.37	4	7R10885	30x6.00	1.47	4
7R10089	31x4.95	1.16	3 1/2	7R10872	31x4.95	1.25	3 1/2
7R10879	31x5.00	1.11	3 1/2	7R10883	31x5.00	1.20	3 1/2
7R10091	31x5.25	1.27	3 1/2	7R10874	31x5.25	1.38	3 1/2
7R14157	31x6.00	1.40	4	7R10877	31x6.00	1.50	4
7R14155	32x5.77	1.35	4	7R10876	32x5.77	1.46	4
7R14158	32x6.00	1.37	4	7R10144	32x6.00	1.56	4
7R10093	33x6.00	1.55	4	7R10145	33x6.00	1.65	4

GRAY HIGH PRESSURE TUBES

GRAY				RED			
Number	Size	Price	Ship. Wt. lbs.	Number	Size	Price	Ship. Wt. lbs.
7R10063	30x3	\$0.66	2 1/2	7R10073		\$0.73	
7R10064	30x3 1/2	.84	2 1/2	7R10074		.93	
7R10065	31x4	1.02	3	7R10075		1.12	
7R10066	32x4	1.05	3 1/2	7R10076		1.15	
7R10067	33x4	1.08	3 1/2	7R10077		1.18	
7R10068	32x4 1/2	1.31	3 1/2	7R10078		1.41	
7R10069	33x4 1/2	1.35	3 1/2	7R10079		1.46	
7R10070	34x4 1/2	1.39	3 1/2	7R10080		1.50	
7R10071	33x5	1.61	4 1/2	7R10081		1.76	
7R10072	35x5	1.69	4 1/2	7R10082		1.84	



GUARANTEED 18 MONTHS

AZTEC TUBES

Guaranteed 3 Years

Made by New
Laursen Water Cured Process

Cured by hot water under pressure, insuring the same exact thickness at every point. No weak spots; no air holes, bubbles, blisters, pockets or seams. And unbelievably tough, live, and velvety.

Guaranteed for 3 Full Years.

A heavy-duty tube, good to the last mile. Thick valve stem pads, long splice, extra weight.

Full Floating; Pure Gum

Full-Floating, Pure Gum Rubber. Only new live rubber will float. And Aztec tube rubber does float. No excessive compounds; no loading; no "filler." Full size; thick; strong. Built to fit the biggest oversize tires without stretch or strain.



Genuine
Schrader
Valves

Gray Balloon Tubes

No.	Size	Ship. Wt. Lbs.	Net Price
7R10013	27x4.40	2	\$1.22
7R10016	28x4.75	2½	1.15
7R10000	28x4.95	3	1.29
7R10022	28x5.25	3	1.36
7R10033	29x4.40	2½	1.05
7R10017	29x4.75	2½	1.17
7R10042	29x4.95	3	1.33
7R10058	29x5.00	3	1.39
7R10023	29x5.25	3½	1.40
7R10024	29x5.50	3½	1.48
7R10015	30x4.50	3	1.17
7R9995	30x5.00	3	1.33
7R10044	30x4.75	2½	1.20
7R10046	30x4.95	3½	1.35
7R10048	30x5.25	3½	1.43
7R10057	30x5.77	4	1.57
7R10026	30x6.00	3½	1.57
7R10028	30x6.20	4	2.10
7R10029	30x6.75	4½	2.55
7R10047	31x4.95	3½	1.40
7R9996	31x5.00	3½	1.35
7R10049	31x5.25	3½	1.46
7R10027	31x6.00	3½	1.63
7R10025	32x5.77	3½	1.65
7R10051	32x6.00	4	1.68
7R10053	32x6.20	4½	2.15
7R10030	32x6.75	5	2.60
7R10052	33x6.00	4	1.70
7R10054	33x6.20	4½	2.20
7R10031	33x6.75	5	2.65
7R10056	34x7.30	6	2.70

For Semi-Balloon Tires

7R10057	31x4.40	3	\$1.13
7R10058	32x4.95	3½	1.45
7R10059	33x4.95	3½	1.48
7R10060	34x4.95	4	1.52
7R10061	33x5.77	4½	1.75
7R10062	34x5.77	4½	1.80

Gray High Pressure Tubes

No.	Size	Ship. Wt. Lbs.	Net Price
7R10021	30x3	2	\$0.81
7R10034	30x3½	2	.92
7R10035	31x4	2½	1.15
7R10032	32x3½	2½	1.02
7R10036	32x4	2½	1.19
7R10038	32x4½	3½	1.45
7R10037	33x4	2½	1.23
7R10039	33x4½	3	1.49
7R10040	33x5	4½	1.78
7R10043	34x4½	4	1.55
7R10041	35x5	4½	1.85

An extra thick, heavy tube that will last practically the life of the car

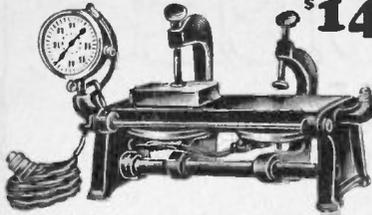
Comparison Will Prove Our Prices Lowest

Make any comparison you wish—price, quality, mileage guarantee. On every point we offer the greatest tire and tube values in America. We have increased the mileage; improved the quality; and slashed prices as they have never been slashed before. Make extra profits by making this book your tire buying headquarters!

Every Tire and Tube Carries a Positive Service Guarantee!

When you buy tires or tubes, remember to ask yourself these questions: (1) Are they guaranteed? (2) If not, why not? (3) What basis of adjustment is there if one goes wrong? We cover every point completely. Our guarantee means exactly what it says. And our adjustment policy insures full satisfaction to you and your customers. Convince yourself by reading the full details of this liberal adjustment policy on page 241.

NACCO Electric Steam Vulcanizer



\$14⁷⁹
Each Net

Sell this new Electric-Steam method of vulcanizing. Generates 55 to 60 pounds steam in 5 to 20 minutes. Shuts off automatically when proper heat is reached, then on again if pressure drops, thus insuring absolute uniformity of temperature. Cannot possibly burn tube. Unconditionally guaranteed for one year against mechanical defects. Complete with set of blocks, electric cord, switch plug and proper amount of water. Just take out of the box and it is ready for use. Makes an all-time permanent repair. A practical vulcanizer for the repair shop.

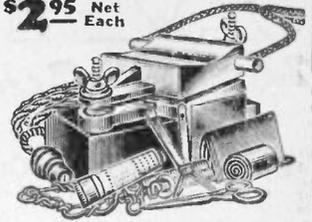
Cures in 3 to 5 minutes. 6 by 4 1/2 in. over all. Current consumption is 150 watts per hour. Average cost of operating is 8 to 10 cents per 10 hour day. Weight, 17 pounds.

8R10575—Nacco No. 1. One tube capacity.

Premier Electric Vulcanizer

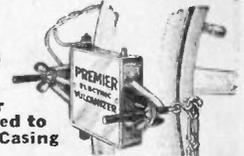
8R8012
List, \$5.00.

\$2⁹⁵ Net
Each



This one Vulcanizes either Casing or Tube. Operates from 110-Volt alternating current light socket. Suitable for small garage, service station, or car owner. Clamps over tube or casing and can repair any ordinary size hole. Simple to operate and absolutely safe. Will not burn, overcure or undercure patch. Fully tested. Complete with accessories, supplies and directions.

This View Shows the Vulcanizer Clamped to Outer Casing



8R8019—Extra Patches—Box of 12. List 30c. Net price per dozen..... 30c

5 Minute Vulcanizer

Complete with 12 Patches



Here is a quick selling nationally advertised low priced outfit. Consists of vulcanizer and 12 patches. Easy and quick. Just place patch over hole in tube, tighten clamp, light the chemically treated fuel, and in a few minutes the tube is good as new.

8R8025—Vulcanizer and 12 patches. List price, \$1.50. Each Net \$1.00

Box of 12. Extra Vulcanizing Patches. Box Net 52c

8R8011—Round. 8R8005—Oblong.

Electric Vulcanizer

Operates from Storage Battery

The only storage battery vulcanizer. Patches perfectly in 8 minutes. Connects at dash or any lamp socket. Uses no more current than head lights. Easy to use. Complete with 12 patches. Boxed.



8R8008 With single contact plug

Net 93c

8R8009 With double contact plug

Net 93c

8R8010 Box 24 patches List, 50c.

Net 30c

Fleeced Tire Flap Material

Made especially for repair shops and garages. A high quality flap material in bulk. Can be cut any desired length. The standard fabric, fleece lined material is the same as that used to make cut flaps. Full moulded and sheared on special flap-moulds to fit the contour of all tires perfectly. There is a lot of this used, and our price is low for this quality.

8R8022—Full 3-inch width. 100 ft. rolls. Net, \$2.86

8R8024—3 1/2 in. width. 100 ft. rolls. Net, \$4.03



Endless RIM Flaps

A quality product at a low price. Made of two-ply special bias cut fabric heavily frictioned and with a center of pure stock rubber, this high grade flexible rim flap is made for 30x3 and 30x3 1/2 rims. Fits snugly and will not stretch or turn up at the edges.

8R8030—Net, 23c Each. In Package of 12—Each 20c



Universal Tire Flap

Another bargain. This flap fits all size tires. A good flap for the service station or garage to sell. Made of quality materials. Liberal in length with several slots for fitting to any size tire. Of strong closely woven fabric with fleece lining. Shaped to fit, with feather edge. A real value.

8R8102—List, 75c. Net, Each, 23c. In box of 12. Each, 20c.

Quality Rubber Cement

8R8132—About 4 oz. can. Net, 11c

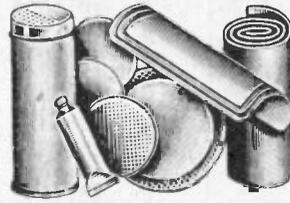
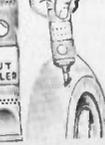
8R8133—1 Pint can. Net, 36c

8R8134—1 Quart can. Net, 59c

Handy Cut Healer

Another good seller. A heavy rubber compound for filling cuts in casings. Acts as a good, effective protector in keeping dirt and stones from quickly ruining the tire. Lengthens the life of a worn casing and will in many cases prevent a blowout. Size of tube about 1x6 inches.

8R8135 Net, Price, 30c



Tire and Tube Repair Outfit

One outfit for repairing tube or casing. All high quality merchandise that will give satisfaction. A good seller. Outfit consists of 1 Universal stick-tight patch size 1 1/2 x 3 1/2 in., 3 nail-hole patches 3 in. diam. 1 round casing patch 5 in. and a complete inner tube repair outfit of cement tube, buffer and 24 sq. in. patching rubber. Every car owner is a prospect for this indispensable outfit.

8R8643—Net Price..... 66c

"Loctite" Tire Patch Kit

Another Nationally Advertised product at cut prices Mr. Dealer. Here is genuine saving. Repairs both casings and tubes. No heat, no expert help needed. Vulcanizes into casings, plugging holes and sealing break. Special rubber cutting knife included. Ship. wt., 4 to 6 oz. each.



8R8086 28 sq. in. List, 50c. EA. 17c Net

Pkg. of 12 16c Each

8R8087 80 sq. in. List, \$1.00. EA. 34c Net

Pkg. of 12 33c Each

8R8088 Extra big garage size 600 sq. in., with necessary cement \$2⁴⁵ Full Kit

Self-Curing Tire Repair Kit

For repairing inner tube punctures or small casing holes without vulcanizing. This has few equals. Can of Tire Gum and Can of



Cement comprise Outfit. A tube repaired with this can be used at once. Enough for 30 or 50 repairs. Instructions included. 8R8645 Net, Price, 28c



8R8071
64c
Each Net

Inserting Plug in Casing Quick Easy Safe

Car Owner's Kit

Well Known Wedford Kex Plugs

This outfit stops up the puncture holes and small cuts in casings. The head of the plug is a rubber patch which prevents the broken fabric from pinching the tube. The stem plugs the hole and keeps out dirt, water, and road oil. A needle is furnished to run plug stem through hole. Burn off the end with a match and the repair is quickly finished.

8R8071—Car Owners' Kit—8 plugs—1 Tube Cement and Sheet Patching Rubber for tube punctures.—1 Kex Disc—1 Needle. 64c List, \$1.00. Net, 64c

8R8072—Garage Repair Kit—Contains 50 assorted Plugs and 1 Needle. \$2.45 Net.

Pioneer Tube Repair Outfit Priced Low

We call this Pioneer because we think it is a remarkable value. Consists of the best materials only. This outfit consists of a strip of pure, fresh, live patching rubber, a generous tube of quick setting cement, and a metal buffer to scratch tube before applying patch. All enclosed in screw cap can for attractive display.



8R8091—Complete with 36 square inches rubber. Net, each..... 15c

Package of 12 cans. Net, \$1.38.

8R8092—Complete with 72 square inches rubber. Net, each..... 19c

Package of 12 cans. Net, \$1.98.

8R8093—Shop size. Complete with 432 square inches rubber. Net, each..... \$1.23

Self-Vulcanizing Tire Shoe

24c



No need for vulcanizing small blowouts, cuts and punctures in casings when these shoes are used. It is a good policy to keep an ample supply of them on hand. Made of three ply heavy fabric with a layer of cement on the surface. Furnished with each shoe is a plug of semi-cured gum and a tube of cement. The plug fills the break and permanently vulcanizes itself, making a strong, durable repair. The cement holds the plug in place until it is thoroughly and permanently vulcanized. One of these shoes will add thousands of extra miles to the life of any tire. Each patch in neat shelf box. For cord or balloon tires. Average shipping weight, each, 8 ounces.

List Net, Each

8R8146—(7x7)	35c	24c
8R8147—(8x8)	45c	28c
8R8148—(9x9)	50c	29c
8R8149—(10x10)	65c	30c



Side Wall Patch

Here is the new modern way to permanently repair breaks in the sidewalls of balloon tires. The only one offered of its kind. No heating or vulcanizing needed to make this repair last, for once it is on it is there to stay. Packed to keep the cement fresh and tacky indefinitely. One size fits all tires. About 5 in. wide and 13 in. long. Ship. wt., 2 lbs.

8R8513—Each, Net	30c
Lots of 12 each	28c



Skived Tire Shoes

One of the best and strongest tire shoes made. Extra heavy, skived and trimmed, just like a piece of the casing. Made of the finest 4-ply cord fabric. It is sure to give satisfaction, for a repair made with this shoe is as sound as the tire. Av. ship. wt., 1 1/2 lbs.

8R8157—3 1/2 in. 12 in. long	15c
8R8158—4 in. 13 in. long	18c
8R8159—4 1/2 in. 14 in. long	24c
8R8160—5 in. 15 in. long	28c

Balloon Tire Shoes Heavy 3-Ply Fabric

8R8161—12 in. long for 4.40 to 4.95	16c
8R8162—13 in. long for 5.25 to 5.77	24c
8R8163—15 in. long for 6.00 to 6.20	32c



Round Skived Shoes

An excellent repair that fits like a piece of the original casing. Made from finest 4-ply cord fabric with reinforced center pad. If a very skived and trimmed. Comes in plain or cement coated for self-vulcanizing. Average ship. wt., 12 oz.

Plain Style

8R8113—3-inch	7c	\$0.58
8R8115—4-inch	8c	.66
8R8117—6-inch	12c	1.02

Self-Vulcanizing Style

8R8118—4-inch	16c	\$1.48
8R8119—6-inch	24c	2.72



Self-Supporting Laced Boots

You can't find a better reinforcement for a break or a rim cut. Takes all the pressure of tube from the casing and completely covers tube. Made of high quality, 4-ply fabric. Doweltails and locks in position with a plug. A clever locking device holds it in place. Ship. wt., 1/2 to 1 1/2 lbs.

No.	Size Inches	Price Each	Per Dozen
8R8188	3	16c	\$3.72
8R8189	3 3/4	22c	4.56
8R8190	4	30c	5.28
8R8191	4 1/2	37c	5.28
8R8192	5	40c	5.28

Balloon Sizes

No.	Size	Price Each	Per Dozen
8R8193	4.40	30c	\$5.88
8R8194	4.75	33c	6.00
8R8195	4.95-5.00	36c	6.24
8R8196	5.25	40c	6.60
8R8197	5.77	43c	7.20
8R8198	6.00	46c	7.80
8R8199	6.20	49c	7.92

Blowout Patches

For use where there is a break in the casing. Made of select grade fabric, strongly vulcanized. Bead of tire holds patch in place by the flaps on each side. Molded to fit casing perfectly; will not creep or bulge. Average ship. wt., 1 lb.

For Standard Tires

No.	Size	Net Price Each
8R8040	3 1/2 in.	13c
8R8041	4 in.	14c
8R8042	4 1/2 in.	16c

For Balloon Tires

No.	Size	Net Price Each
8R8043	4.40	16c
8R8044	4.75-4.95	21c
8R8045	5.25-5.77	22c
8R8046	6.00-7.30	26c



Pioneer Reliners

The finest on the market! These reliners give thousands of extra miles service from the old tires. Not only do they lengthen the life of the tire but reinforce the tire and prevent blowouts and help stop punctures. Made of several plies of strong fabric firmly vulcanized together. No cementing is necessary as the lap ends join. This long-lived reliner will outlast the life of the tire and can be used in another. Average shipping wt., 5 lbs

For High Pressure Tires

No.	Size	Net Price
8R821	30x3 1/2	\$0.98
8R8212	32x3 1/2	.98
8R822	31x4	1.26
8R823	32x4	1.27
8R824	33x4	1.28
8R825	34x4	1.29
8R826	32x4 1/2	1.68
8R827	33x4 1/2	1.66
8R829	30x5	1.95

For Balloon Tires

No.	Size	Net Price
8R836	29x4.40	\$1.45
8R837	29x4.95	1.62
8R838	30x4.50	1.65
8R839	30x4.95	1.65
8R840	30x5.25	1.73
8R842	30x5.77	1.85
8R843	31x4.95	1.76
8R844	31x5.25	1.77
8R847	32x6.00	1.98
8R844	33x6.00	2.05

Super Duty Plaster Patches



13c

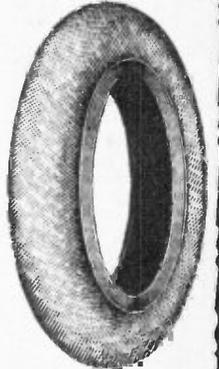
For Balloon and High Pressure Tires

These Super-Duty Plaster Patches are one of the quickest and surest ways to make permanent repairs in balloon and high pressure tires. The finest of their class! You will find them to be superior workmanship and the materials to be the best. Only the finest raw materials are used in their construction. For tread breaks, punctures and blowouts they will prove highly efficient and extremely satisfactory. Made of several plies of sturdy cord fabric. A heavy layer of self-curing pure gum cement on the surface vulcanizes the patch to the casing, preventing dirt and water from entering the tire. A Cellophane covering on each patch keeps the cement fresh and tacky. Each patch in separate envelope, with piece of tread stock to plug holes. Furnished in three sizes. Average ship. wt., 1 lb.

No.	Size	List Price	Net Price	Doz. Lot
8R8069	Small, 5 1/2 x 6 ... 25c	13c	12c	
8R8067	Medium, 8 x 8 ... 40c	19c	18c	
8R8068	Large, 8 x 10 ... 55c	26c	24c	

Self-Vulcanizing Tire Casing Adds Many Miles of Trouble-Proof Service to Tires

One of these endless, one-piece constructed Sub-Casings will give new life and add many miles to the service of any tire. The tire can be worn down to the last mile with one of these Sub-Casings installed, for they prevent blowouts and help prevent punctures. Made of finest quality tire fabric. The overlapping cords lay on the bias and are pre-shaped under pressure of molds, just like the sub-structure of the finest tire. Will fit perfectly. The surface is treated with a special rubber gum cement. A little gasoline on the gum rubber makes the Sub-Casing vulcanize itself firmly to the inside of the tire. Quickly and easily installed. Instructions furnished. Shipping wt., 3 to 5 pounds.

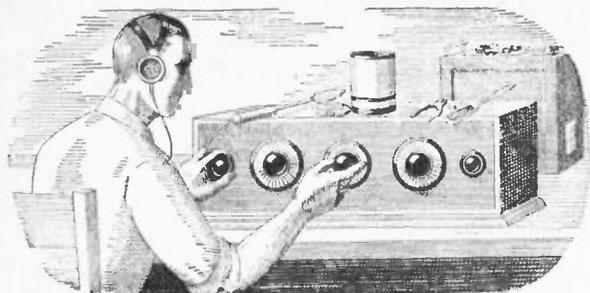


For Cord Tires

No.	Size	Net Price
8R8222	30x3	\$1.48
8R8223	30x3 1/2	1.38
8R8224	32x3 1/2	1.68
8R8225	31x4	1.54
8R8226	32x4	1.70
8R8227	33x4	1.79
8R8228	34x4	1.95
8R8229	32x4 1/2	2.20
8R8231	34x4 1/2	2.32
8R8212	30x5	2.36
8R8232	33x5	2.40
8R8233	35x5	2.55

For Balloon Tires

No.	Size	Net Price
8R8234	29x4.40	\$1.98
8R8235	29x4.95	2.04
8R8236	30x4.50	2.07
8R8238	30x4.95	2.17
8R8239	30x5.25	2.34
8R8241	30x5.77	2.40
8R8237	31x4.95	2.33
8R8240	31x5.25	2.39
8R8217	32x6.00	2.56
8R8243	32x6.00	2.66
8R8244	32x6.20	2.80
8R8245	33x6.20	2.89



If all the Radio sets I've "fooled" with in my time were piled on top of each other, they'd reach about half-way to Mars. The trouble with me was that I thought I knew so much about Radio that I really didn't know the first thing. I thought Radio was a plaything—that was all I could see in it for me.

I Thought Radio Was a Plaything But Now My Eyes Are Opened, And I'm Making Over \$100 a Week!

\$50 a week! Man alive, just one year ago a salary that big would have been the height of my ambition.

Twelve months ago I was skimming along on starvation wages, just barely making both ends meet. It was the same old story—a little job, a salary just as small as the job.

If you'd told me a year ago that in twelve months' time I would be making \$100 and more every week in the Radio business—whew! I know I'd have thought you were crazy. But that's the sort of money I'm pulling down right now—and in the future I expect even more. Why, only today—

But I am getting ahead of my story. I was hard up a year ago because I was kidding myself, that's all—not because I had to be. If you've fooled around with Radio, but never thought of it as a serious business, maybe you're in just the same boat I was. If so, you'll want to read how my eyes were opened.

When broadcasting first became the rage, I first began my dabbling in Radio. I was "nuts" like many thousands of other fellows. And no wonder! There's a fascination—something that grabs hold of a fellow—about twirling a little knob and suddenly listening to a voice speaking a thousand miles away! In those days, many times I stayed up almost the whole night trying for DX.

I never seemed to get very far with it, though, so up to a year ago, I was just a dabbler—I thought Radio was a plaything. I never realized what an enormous, fast growing industry Radio had come to be—employing thousands and thousands of trained men. I usually stayed home in the evenings after work, because I didn't make enough money to go out very much. And as for the idea that a splendid Radio job might be mine, if I made a little effort to prepare for it—such an idea never entered my mind. When a friend suggested it to me one year ago, I laughed at him.

"You're kidding me," I said.

"I'm not," he replied. "Take a look at this ad."

He pointed to a page ad in a magazine I'd seen many times but just passed up. This time I read the ad carefully. It told of many big opportunities for trained men to succeed in the great new Radio field. With the advertisement was a coupon. I sent the coupon in, and in a few days received a handsome 64-page book, telling about the opportunities in the Radio field and how a man can prepare quickly and easily at home to take advantage of these opportunities. Well, it was a revelation to me. I read the book carefully, and when I finished it I made my decision.

What's happened in the twelve months since that day, seems almost like a dream to me now. For ten of those twelve months, I've had a Radio business of my own. At first, of course, I started it as a little proposition on the side, under the guidance of the National Radio Institute, the outfit that gave me my Radio training. It wasn't long before I was getting so much to do that I quit my measly

little clerical job, and devoted my full time to my Radio business.

Since that time I've gone right on up, always under the watchful guidance of my friends at the National Radio Institute. They would have given me just as much help, too, if I had wanted to follow some other line of Radio besides building my own retail business—such as broadcasting, manufacturing, experimenting, sea operating, or any one of the score of lines they prepare for you. And to think that until that day I sent for their eyeopening book, I'd been waiting, "I never had a chance!"

Now I'm making, as I told you before, over \$100 a week. And I know the future holds even more, for Radio is one of the most progressive, fastest growing businesses in the world today. And it's work that I like—work a man can get interested in.

Here's a real tip. You may not be as bad off as I was. But think it over—are you satisfied? Are you making enough money, at work that you like? Would you sign a contract to stay where you are now for the next ten years—making the same money? If not, you'd better be doing something about it instead of drifting.

This new Radio game is a live-wire field of golden rewards. The work is fascinating, absorbing, well paid. The National Radio Institute—oldest and largest Radio home-study school in the world—will train you inexpensively in your own home to know Radio from A to Z.

Take another tip—No matter what your plans are, no matter how much or how little you know about Radio—clip the coupon below and look their free book over. It is filled with interesting facts, figures, and photos, and the information it will give you is worth a few minutes of anybody's time. You will place yourself under no obligation—the book is free, and is gladly sent to anyone who wants to know about Radio. Just address National Radio Institute, % Barawik Company, Chicago, Ill.

National Radio Institute,
% Barawik Co., Chicago, Ill.
Dear Mr. Smith:

Please send me your 64-page free book, giving all information about the opportunities in Radio and how I can learn quickly and easily at home to take advantage of them. I understand this request places me under no obligation and that no salesman will call on me.

Name

Address

Town..... State.....

THE INDEX LOCATES YOUR WANTS QUICKLY

<p>A</p> <p>Abox 86</p> <p>A Batteries 91</p> <p>A. B. C. Power Units 90, 86, 87</p> <p>Accelerators, Foot 224</p> <p>A. C. Radio Sets 237</p> <p>A. C. Spark Plugs 225</p> <p>A. C. Testers 158-161</p> <p>A. C. Tubes 78-85</p> <p>Adapters, Shield Grid 85</p> <p>Adapters, Tube 85</p> <p>Address Systems, 100, 114</p> <p>Aerials 96-83</p> <p>Aerials 147-149</p> <p>Aerial Kits 149</p> <p>Aerial Masts 149</p> <p>Aero Coils 105, 106, 154</p> <p>Aero Kits 105</p> <p>Aeroplanes, Toy 199</p> <p>Aero Short Wave 154</p> <p>Aero Transmitter Kits 154</p> <p>Alcrophome Speakers 67</p> <p>Air Cleaners 226</p> <p>Air Column Speakers 69</p> <p>Airplane Non-Freeze Speaker 67</p> <p>Solution 212, 214</p> <p>Alcmitic Lubricators 232</p> <p>Aluminum, Shielding 127, 144</p> <p>Amateur Section 152-157</p> <p>Ammeters, Auto 236</p> <p>Ammeters, Radio 158-181</p> <p>Amperite 134</p> <p>Amplifiers, Audio 96-99</p> <p>Amplifiers, Power 96-99, 122</p> <p>Amplifier, Pan 126</p> <p>Amplifiers, Public Ad. 100, 114, 122</p> <p>Amplifiers, Resistance Coupled 140</p> <p>Amplifier, Shield Grid 97, 102</p> <p>Amplifier, Time Signal 83</p> <p>Amphib. Tubes 78-83</p> <p>Ansonia Speakers 68</p> <p>Antenna Supplies 147-149</p> <p>Anti-Motorboater 137</p> <p>Arresters, Lightning 148</p> <p>Athletic Section 201-211</p> <p>Auto Trunks 189</p> <p>Audio Transformers 102, 114, 120, 118, 121, 132, 133</p> <p>Auto Batteries 239, 240</p> <p>Auto Heaters 213</p> <p>Auto Lamps 221, 222</p> <p>Auto Robots 218, 222</p> <p>Auto Seat Covers 228, 229</p> <p>Auto Supplies 212-255</p> <p>Auto Tires 244-255</p> <p>Auto Top Materials 216</p> <p>Autos, Toy 189</p> <p>Auto Trunks 219</p> <p>Automatic Relay Switches 93</p> <p>Aztec Tires 246, 247, 250, 253, 252</p> <p>B</p> <p>"B" Batteries 94, 95</p> <p>"B" Eliminators 86-90, 93</p> <p>B. C. Power Supply 86-93</p> <p>Back Cushions 218</p> <p>Bakelite Panels 146</p> <p>Bakelite Tubing 222</p> <p>Balancers 134, 135</p> <p>Baldwin Headsets 77</p> <p>Baldwin Speaker Units 74</p> <p>Balkite Products 86</p> <p>Balls, Basket 210</p> <p>Balls, Gearshift 224</p> <p>Balls, Indoor 211</p> <p>Balls, Playground 211</p> <p>Balls, Soccer 211</p> <p>Balls, Volley 211</p> <p>Balsa Wood Speakers 75</p> <p>Baseboards 146</p> <p>Basketball Equipment 210</p> <p>Bath, Indoor 211</p> <p>Batteries "A" 91</p> <p>Batteries, Auto 239, 240</p> <p>Batteries, "B" 95, 94</p> <p>Batteries, "C" 95, 94</p> <p>Batteries, Dry Cell 95, 94</p> <p>Battery Flashlight 200</p> <p>Battery Cables 94, 130</p> <p>Battery Chargers 93, 92</p> <p>Battery Accessories, Auto 239, 240</p> <p>Battery Accessories, Radio 95, 94</p> <p>Battery Meters 04, 158, 161</p> <p>Battery Switches 137</p> <p>Bearings, Tuning Coil 143</p> <p>Bed, Automobile 218</p> <p>Bed Lamps 188</p> <p>Bells, Door 190</p> <p>Belt, Wrench 200</p> <p>Bench, Radio 43</p> <p>Binding Posts 85</p> <p>Blades, Scroll Saw 151</p> <p>Blanket, Waterproof 218</p> <p>Blow-out Patches 255</p> <p>Blow Torches 150, 227</p>	<p>Bolts, Connecting Rod 230</p> <p>Boots, Radio 156</p> <p>Boots, Ford Pedal 213</p> <p>Boots, Oiling 202</p> <p>Bottles, Vacuum 209</p> <p>Boxes, Conduit 208</p> <p>Boxing Gloves 208</p> <p>Brach Control 93</p> <p>Brackets, Subpanel 93</p> <p>Brake Bands 115, 146, 156</p> <p>Brake Lining 235</p> <p>Brake Rivet Machine 235</p> <p>Brushes, Men's 201-207</p> <p>Bremer Tully Parts 121, 123</p> <p>Broadcaster, Home 98</p> <p>Broadcasters, Public 100</p> <p>Browning Drake Parts 116</p> <p>Brushes, Auto Cleaning 223</p> <p>Brushes, Generator 226</p> <p>Brushes, Starter 226</p> <p>Brush Holders, Generator 226</p> <p>Brush Condensers 138, 140, 141</p> <p>Brushes, Steel 223</p> <p>Bulbs, Auto Lamp 236</p> <p>Bulbs, Electric Light 188</p> <p>Bulbs, Electric Fraln. 196</p> <p>Bulbs, Radio Light 92</p> <p>Bulbs, Tungar 92</p> <p>Bumpers, Automobile 238</p> <p>Bus-Bar 144</p> <p>Bus Tires 250</p> <p>Buttons, Push 190</p> <p>Buttons, Push 220</p> <p>Buttons, Radio Test 230</p> <p>Bushings, Ford 230</p> <p>Buzzers, Door 190</p> <p>C</p> <p>"C" Batteries 95, 94</p> <p>Cabinets, Radio 45-65</p> <p>Cable Connectors 137</p> <p>Cables, Electric 236</p> <p>Cables, Auto Battery 237</p> <p>Cables, Radio Battery 95, 139</p> <p>Cables, Tow 243</p> <p>Cage Antenna 149</p> <p>Causes, Handcuffs, Electric 188</p> <p>Can, Water 143</p> <p>Caps, Center Bearing 230</p> <p>Caps, Auto Hub 230</p> <p>Caps, Hunters 202, 203</p> <p>Caps, Tube 85</p> <p>Caps, Radiator 219</p> <p>Caps, Valve 243</p> <p>Carborundum Detectors 143</p> <p>Carburetors 234</p> <p>Cardwell Condensers 153</p> <p>Carriers, Luggage 243</p> <p>Carriers, Trunk 218</p> <p>Carter Products 136, 141</p> <p>Cartridge Fuses 190</p> <p>Ceco Tubes 79</p> <p>Celastite Wire 144</p> <p>Celluloid 216</p> <p>Cement, Insulating 144</p> <p>Cement, Radiators 214</p> <p>Cement, Rubber 214</p> <p>Chain Adjusters 215</p> <p>Chains, Auto Tire 215</p> <p>Chains, Tirehook 243</p> <p>Chains, Tow 243</p> <p>Chain Repair Tool 215</p> <p>Chamols 223</p> <p>Champion Lamps 225</p> <p>Chargers, Battery 91-93, 236</p> <p>Chargers, Garage Battery 236</p> <p>Charger Replacement Units 87</p> <p>Checkers, Tube 160, 159</p> <p>Checks, Auto Rebound 223</p> <p>Chisels, Cold 227</p> <p>Choke, A. F. 151</p> <p>Choke Coils, Trans. 121</p> <p>Choke, B. F. 106, 213</p> <p>Chokes, Short Wave 154</p> <p>Choke, Output 132</p> <p>Christmas Tree Ornaments 200</p> <p>Cigar Lighters 224, 200</p> <p>Cigar Lighter, Auto 224</p> <p>Cigarette Case, Auto 224</p> <p>Citizens Radio Call Book 156</p> <p>Clamps, Ground 145</p> <p>Clamps, Hose 214</p> <p>Clear Lighter, Motor 74</p> <p>Claratat 77, 143</p> <p>Cleaners, Air 226</p> <p>Cleaners, Motor 231</p> <p>Cleaner, Radiator 214</p> <p>Cleaners, Spark Plug 225</p> <p>Cleaners, Vacuum 154</p> <p>Cleaners, Windshield 217</p> <p>Cleats, Porcelain 183</p> <p>Clips, Battery 95</p> <p>Clocks, Auto Dash 219</p> <p>Clocks, Radio 143</p> <p>Clock, Time Switch 190</p>	<p>Cloth, Abrasive 232</p> <p>Cloth, Airplane 67</p> <p>Cloth, Polishing 223</p> <p>Clothing, Hunters 202, 203</p> <p>Coats, Leather 207, 206</p> <p>Coats, Suede Skin 204-207</p> <p>Code Practice Sets 153</p> <p>Coffee Percolators 183</p> <p>Coils, Aero 106, 157</p> <p>Coil, Transformer 127</p> <p>Coils, Transformer 127</p> <p>Coil, Low Loss 236</p> <p>Coils, Plug-in, Short Wave 152-157</p> <p>Coils, R. F. 127-129</p> <p>Coils, Shield Grid 129</p> <p>Coils, Short Wave 152-157</p> <p>Coil, Spiderweb 128</p> <p>Coils, Transmitting 152-157</p> <p>Coil Winders 150</p> <p>Coil Supports 128</p> <p>Comparator, Temple 76</p> <p>Compressor, Piston Ring 231</p> <p>Concert Master Tubes 79</p> <p>Condensers, "A" 91</p> <p>Condenser Blocks 138, 141</p> <p>Condensers, "A" Power 140, 141</p> <p>Condensers, Compon. satng 124-126</p> <p>Condensers, Filter 138-141</p> <p>Condensers, Fixed 138-141</p> <p>Condensers, Molded 138-141</p> <p>Condensers, Short Wave 152, 157</p> <p>Condensers, Socket Power 138, 141</p> <p>Condensers, Transmitting 153</p> <p>Condensers, Variable 124-126</p> <p>Condenser Shafts 125</p> <p>Conduit 195</p> <p>Conduit Boxes 192</p> <p>Conduit Fittings 194</p> <p>Cones, Speaker, 65-69, 71-74</p> <p>Cone Speaker Units 76</p> <p>Cones, Dynamic 66</p> <p>Cones, Magnetic 66</p> <p>Connectors, Battery 95</p> <p>Connectors, Battery Charging 239</p> <p>Connectors, Wire 150</p> <p>Connectors, Fahnestock 145</p> <p>Connector, Extension 77</p> <p>Consoles, Radio 45-65</p> <p>Console Speakers 65, 74</p> <p>Contact Point 145</p> <p>Control, Line Voltage 93</p> <p>Converter, Short Wave 152, 157</p> <p>Cooker, Waterless 186</p> <p>Copper Foil 144</p> <p>Cord, Extension 77</p> <p>Cord Tips 77</p> <p>Cords, Phone and Speaker 77</p> <p>Corn Poppers, Electric 186</p> <p>Cotter Pins 232</p> <p>Cotter Pin Pliers 241</p> <p>Counter Sinks 151</p> <p>Cover, Auto Distributor 225</p> <p>Covers, Radiator 225</p> <p>Covers, Seat 228, 229</p> <p>Crankshafts, Ford 230</p> <p>Craper, Auto Repair 215</p> <p>Crystals, Detector 143</p> <p>Curling Irons, Electric 182</p> <p>Curtains, Ford 216</p> <p>Cushions, Automobile 218</p> <p>Coutouts, Fuse 192</p> <p>Coutouts, Generator 226</p> <p>Coutout, Muffler 220</p> <p>Coutout Box 192</p> <p>Cutters, Panel 151</p> <p>D</p> <p>"D" Coils, Ellis 127</p> <p>Dash Lamps 222</p> <p>Dash Coils, Auto 219</p> <p>Daven Parts 162</p> <p>Dial Lamps 188</p> <p>Detector, Crystal 143</p> <p>Detector Tubes 78, 85</p> <p>Dial Adjusters 130</p> <p>Dials, Micrometric 120</p> <p>Dial, S. M. 115</p> <p>Dials, Short Wave 152, 157</p> <p>Dials, Tuning 130, 134, 131</p> <p>Dials, Transmitter 152, 157</p> <p>Dial Markers 130</p> <p>Dialtone Lamps 143</p> <p>Dies and Taps 151</p> <p>Ditch Covers 225</p> <p>Ditch Lights 221</p> <p>Dressing, Tire 223</p> <p>Dressing, Top and Cushion 123</p> <p>Drills, Radio 251</p>	<p>Drills, Hand and Breast 151, 226</p> <p>Drum Dials 130, 131, 134</p> <p>Driving Lights 221</p> <p>Dry Batteries 95, 94</p> <p>Dry Cell Tubes 78-85</p> <p>Dubbel Condensers 138</p> <p>Dryer, Hair 182</p> <p>Duster, Automobile 223</p> <p>Dykes Auto Encyclopedia 330</p> <p>Dynamic Speaker relay 76</p> <p>E</p> <p>Easel Speakers 71</p> <p>Electric Appliances 170, 183</p> <p>Electric Coffee Sets 183</p> <p>Electric Cookers 183</p> <p>Electric Corn Poppers 183</p> <p>Electric Curling Iron 182</p> <p>Electric Fans 180</p> <p>Electric Fixtures 164-174</p> <p>Electric Grills 182</p> <p>Electric Hair Dryer 182</p> <p>Electric Heaters 186</p> <p>Electric Heating Pads 185</p> <p>Electric Irons 180</p> <p>Electric Lamps 183</p> <p>Electric Light Bulbs 188</p> <p>Electric Motor Outfits 185</p> <p>Electric Motors 187</p> <p>Electric Percolators 183</p> <p>Electric Phonograph Pick-ups 74, 100</p> <p>Electric Stoves 181</p> <p>Electric Time Clocks 130</p> <p>Electric Toys 196-199</p> <p>Electric Toasters 179</p> <p>Electric Waffle Irons 182</p> <p>Electric Trains 190-198</p> <p>Electric Wiring Supplies 188-195</p> <p>Eliminator "A" 86, 88</p> <p>Eliminator "AB" 89, 86, 90</p> <p>Eliminator "ABC" 90</p> <p>Eliminator "B" 89, 90, 86</p> <p>Eliminator "BC" 86, 88, 90</p> <p>Eliminators, Intermediate 124</p> <p>Elkon Chargers 91</p> <p>Emblems, Radiator 219</p> <p>Enamel, Auto 235</p> <p>Enclosures, Winter 216</p> <p>Engine Primers 212</p> <p>Esking's Kitchen Mechanic 185</p> <p>Exhaust Horns 220</p> <p>Express Rates 259</p> <p>Exponential Speaker 68</p> <p>Extension Cords 191</p> <p>Extensions, Cord 77</p> <p>Exercisers 208</p> <p>Extinguishers, Fire 243</p> <p>F</p> <p>Fahnestock Connectors 145</p> <p>Fans, Electric 186</p> <p>Fans, Ventilating 186</p> <p>Files, Coil Point 241</p> <p>Filters, "A" 138</p> <p>Filters, Gasoline 233</p> <p>Filters, Tone 74</p> <p>Fixed Condensers 138, 141</p> <p>Fixtures, Electric 164-174</p> <p>Flange, Muffler 230</p> <p>Flaps, Auto Tire 254</p> <p>Flashlights 199</p> <p>Flashlight Batteries 199</p> <p>Floats, Hydrometer 94</p> <p>Foil, Copper and Tin 14</p> <p>Football Equipment 190</p> <p>Ford Parts 230</p> <p>Forms, Coll 144</p> <p>Freeze Meters 219</p> <p>Freight Rates 259</p> <p>Frost Headsets 77</p> <p>Frost Radio Parts 134, 135</p> <p>Frequency Meter 152</p> <p>Fuse Plugs 190</p> <p>Fuses, Cartridge 190</p> <p>G</p> <p>Gas Filters 233</p> <p>Gaskets, Auto 226</p> <p>Gauges, Gas 233</p> <p>Gauges, Thickness 231</p> <p>Gauges, Tire 243</p> <p>Gears, Differential 226</p> <p>Gear Parts 231</p> <p>Gear Shift Balls 231</p> <p>Gloves, Baseball 209</p> <p>Gloves, Boxing 208</p> <p>Gloves, Canvas 223</p> <p>Gloves, Striking Bag 208</p> <p>Glycerine Non-Freeze Solution 212, 214</p> <p>Goals, Basketball 210</p> <p>Goal Supplies 209</p> <p>Gradeon Pick-ups 90</p> <p>Grass Guns 232</p> <p>Grid Leaks 140</p> <p>Grills 221</p> <p>Grinders, Tool 241</p> <p>Ground Fittings, Radio 149</p> <p>Guards, Lamp 190</p>	<p>Guards, Skate 211</p> <p>Guns, Grease 232</p> <p>H</p> <p>Hack Saws 151, 241</p> <p>Hair Dryers, Electric 182</p> <p>Hair Meritum Parts 139</p> <p>Hoys' Meters 160, 161, 239</p> <p>Hand Drills 151</p> <p>Headlights, Auto 221, 222</p> <p>Headphones 77</p> <p>Heaters, Auto 213</p> <p>Heaters, Bottle 185</p> <p>Heaters, Electric 186</p> <p>Heating Pads 185</p> <p>H. F. L. Isotone 102</p> <p>H. M. Tubes 78, 85</p> <p>Hinsdale Wrenches 242</p> <p>H. J. Q. 112</p> <p>Holt Volt Supply, S. M. 119</p> <p>Holst, Chain 242</p> <p>Holders, Garage Door 243</p> <p>Holder, UX852 Tube 157</p> <p>Honeycomb Coils 127</p> <p>Hook Lacing 214</p> <p>Hook-up Wire 144</p> <p>Horn, Automobile 220</p> <p>Horns, Exhaust 220</p> <p>Horns, Radio 65, 76</p> <p>Hose Clamps 214</p> <p>Hose, Basketball 210</p> <p>Hose, Fire 214</p> <p>Hot Plates 87</p> <p>Howl Arrestor 85</p> <p>Hub Caps 230</p> <p>Hydrometers 94, 240</p> <p>I</p> <p>Ignition Systems 225</p> <p>Illuminated Dials 130, 131</p> <p>Impedance Transformer 116</p> <p>Inductances 152, 157</p> <p>Infradyne 118</p> <p>Inflating, Auto Tire 255</p> <p>Insulators 148, 153, 151</p> <p>Insulators, Pyrex 253</p> <p>Intensifier, Spark Plug 125</p> <p>Interference Eliminator 124</p> <p>Irons, Electric 180</p> <p>Iron, Soldering 150</p> <p>Irons, Tire 243</p> <p>J</p> <p>Jackets, Suede Jacket 204</p> <p>Jacks, Auto 237</p> <p>Jacks, Garage 137, 139</p> <p>Jacks, Radio 137, 139</p> <p>Jewel Switches 153</p> <p>Jewel Meters 153, 158, 159</p> <p>Jigs, Piston Alignment 227</p> <p>Jones Multiplugs 137</p> <p>K</p> <p>Karas Parts 120</p> <p>Keys, Ford 226</p> <p>Key, Transmitting 79</p> <p>Kellogg Tubes 79</p> <p>Kingston Eliminators 89, 91</p> <p>Kits, Antenna 147, 149</p> <p>Kits, Cone 75</p> <p>Kits, Short Wave 152-157</p> <p>Kits, Power Amplifier 86-90</p> <p>Kits, Radio 102, 123</p> <p>Kits, Resistor 97</p> <p>Kits, Speaker 175</p> <p>Kits, Transmitter 152, 157</p> <p>Kleeneo Spikes 223</p> <p>Knickerbocker 4 20</p> <p>Knobs, Gearshift 224</p> <p>Knobs, Rheostat 131</p> <p>Knobs, Tuning 131</p> <p>Kodei Eliminators 87</p> <p>Kuppon Power Packs 87</p> <p>L</p> <p>Laequer 235</p> <p>Lamp Guards 190</p> <p>Lamps, Bed 188</p> <p>Lamps, Desk 188</p> <p>Lamps, Radio 143</p> <p>Lamps, Table 188</p> <p>Lamps, Therapeutic 185</p> <p>Lead-In Wire 140</p> <p>Lead-In Bushings 140</p> <p>Lifters, Valve 234</p> <p>Lights, Bed 200, 224</p> <p>Lighting Fixtures 164-177</p> <p>Lighting Arresters 148</p> <p>Lights, Automobile 221-222</p> <p>Lights, Christmas Tree 200</p> <p>Lights, Display 180</p> <p>Lights, Cigar 143</p> <p>Lights, Radio 143</p> <p>Lignole Panels 146</p> <p>Lincoln Super 8 107</p> <p>Lining, Brake 235</p> <p>Litz Wire 144</p> <p>Lock Switches, Radio 137</p> <p>Lock Washers 232</p> <p>Locks, Tire 192</p> <p>Loam Box 192</p> <p>Loop Antenna 147</p> <p>Loop Wire 144</p> <p>Loop Speakers 65, 76</p> <p>mobile 232</p> <p>Lubricator Fittings 232</p>
---	--	---	--	---

We Pay Freight As Per Offer Given on Page 260

Luggage Carrier.....243
Lugs, Soldering.....145
Lumberjacks.....201

M

Magnifier.....117
Magnetic Cone Speaker 65
Markers, Cable.....95
Markers, Dial.....130
Mast, Antenna.....149
Master Oscillator.....152
Mat, Battery.....94
McCullough Tubes.....73
Measures, Oil.....242
Mending Fabric, Auto Top.....216
Metal Furniture.....63
Metals, Sheet.....144
Meter Hole Cutters.....151
Meters, Radio, 94, 158-163
Meters, Freeze.....212
Microdensifiers.....156
Microphone Buttons 143
Microphones.....101, 152
Midget Speakers.....72
Millimeters.....158, 161
Miniature Switches 139
Mirrors, Rear View.....224
Modulator Plugs.....77
Modulators.....135
Mixer, Electric.....185
Marvelo Radio Receivers 2-44
Moto-Meter, Auto.....219
Motors, Electric.....187
Motors, Phonograph 100
Motors, Sewing.....185
Machine.....162
Motors, Television.....137
Multiple Plugs.....167
Mountings, Honeycomb 128

N

National Radio Parts 116, 131, 153, 155, 157
Newcomb Hawley Speakers 69
Nets, Volley Ball.....211
Non-Freeze Solution.....212, 214
Nozzle, Auto Washing 223
Nuts and Bolts, Auto.....232
Nuts, Radio.....145

O

Oil, Penetrating.....223
Oilers, Spring.....232
Oil Filter.....232
Oiling Systems.....233
Oil-on-Stat.....233
Omniophone.....75
Operadio Speaker.....68
Ornaments, Radiator.....219
Orthophone, Amsero.....69
Ortho-Type Speakers.....69
Outlet Boxes.....192
Outlets, Yaxley Convenience.....139
Output Filters.....76
Output Transformers.....76, 115, 132, 133

P

Pacnet Phonovox.....98
Packing, Pump.....233
Pads, Electric Heating 185
Pads, Knee.....210
Pardora Crystal Set.....143
Panels, Radio 146
Panels, Fuse.....192
Panels, Short Wave.....157
Panel Hole Cutter.....151
Panel Lights.....143
Panel Light Bulbs.....143
Pants, Basketball.....210
Pants, Outing.....201, 203
Pants, Running.....211
Parcel Post Rates 259
Parking Lights.....222
Patches, Auto Tire.....223
Patching Outfit, Top.....223
Penetrol, Walbert.....125
Penn Cone Speaker Kits 75
Percolators, Electric.....183
Phasatrol.....135
Phone Cushions.....77
Phone Plugs.....77
Phones, Head.....77
Phone Tips.....77
Phonograph Amplifiers 96-99, 101, 112
Phono-Radio Supplies 99-102
Phonograph-Radio Sets 2-9
Phonographs, Portable 163
Piano Speakers.....73
Pick-ups, Phonograph 99-102
Pictail Wire.....144
Pilot Lights.....143
Pin Jack Meters.....160, 158

Pins, Cotter.....232
Plugs, Coil Mounting 128
Plugs, Loud Speaker.....128
Plugs, Fuse.....77
Plugs, Modulator.....77
Plugs, Phone.....77
Plugs, Spark.....225
Polish, Auto Body.....223
Polish, Metal.....223
Polishing Cloth.....223
Popper, Corn, Electric 186
Polymer Condensers.....141
Portable Radio 60-61
Portable Radio Batteries.....95, 94
Pins, Piston.....226
Pistons.....226
Plates, Outlet.....139
Plates, Switch.....189
Platinum, Striking Bag 205
Pliers.....151, 241
Plugs, Cable.....137
Potentiometers.....134-136
Power Amplifier 96-99
Power Pack.....86-91
Power Supply, "A".....86
Power Supply, "B".....86, 91
Power Transformer.....97
Power Tubes.....78-85
Primers, Auto.....212
Protector, Spark Plug 225
Public Address System.....100, 114
Pulleys, Battery Terminal.....230
Pulley, Cotter Pin.....241
Pulleys, Wheel and Gear 231
Pumps, Tire.....237
Pumps, Water.....243
Punches, Center.....151, 227
Push Buttons.....143, 190
Push Pull Transformers.....114, 132, 133

Q

Quadraphase 5.....121
Quick Service.....260

R

Rackets, Tennis.....209
Radio Books.....69
Radiators, Automobile 214
Radiator Caps.....219
Radiator Cement.....214
Radiator Covers.....212
Radiator Emblems.....219
Radiator Hose.....214
Radiator Ornaments 219
Radiator Supplies.....214
Radio Amateur Section 152-157
Radio Bench.....156
Radio Books.....156
Radio Cabinets.....46-65
Radio Call Book, Citizens.....156
Radio Consoles 44-59
Radio Kit.....105-121
Radio Lamps.....143
Radio Listeners' Guide 156
Radio Receivers 2-45
Radio Service Set.....159-161
Radio Tables.....45-89
Radio and Phonograph.....2-9
Radiophone.....152, 154
Radio Tools.....150, 151
Radiator Tubes.....78
Ranges, Electric.....181, 186, 182
Raylugs.....190
Raylign Tubes.....79
Reading Lamps 188
Readrite Meters.....160, 158
Reamers, Automobile 231
Reamers, Valve.....231
Reel and Cables, Auto 233
Reamers, Panel.....151
Receivers, Radio 2-45
Receiver, Short Wave.....111, 119, 151-157
Receptacles, Electrical.....193, 189
Recovering Material, Auto Top.....216
Rectifiers "A".....91
Rectifier, Electrolytic 152
Rectifier, Kupron.....87
Rectifier Tube.....78-84
Reel, Extension Cord.....77
Replacer, Valve.....234
Reflectors, Light.....190
Relays, Radio Charger 93
Relay Switches.....93
Rollers, Auto Tire.....255
Ramer Parts.....118
Remover, Bushing.....231
Reproducers, Radio.....65, 74
Reservoir A B C Supply 113
Resistance Coupled Amplifiers.....140, 162
Resistor Kit, 210 Amp.....97
Resistances.....134-136, 141, 139

Resistors, De Jur.....140
Resistors, Daven.....140
Resistor Mountings 130
R. F. Amplifiers.....125
R. F. Choke Coil 115, 106, 116, 119, 118, 121, 154, 155
R. F. Transformers 106, 115, 116, 117, 119, 120, 127
Rheostat Knobs.....130
Retainers, Grease.....230
Rheostats.....134-136, 139
Ribbon Antenna.....147, 149
Rim Tools.....237
Riveting Machine.....235
Rivets, Brass.....235
Road Lites.....221
Roberts Reflex Colls.....128
Robes, Automobile 218
Ropes, Tow.....243
Rubber Cement.....234
Rubber Tubing.....217
Rings, Piston.....226
Robertson Davis Kits.....117

S

Saw-Stat.....219
Saw Blades, Scroll.....151
Saws, Hack.....151, 241
Saws, Scroll.....151
Serrated Filter, National 38
Screws.....145, 190
Screw Drivers.....151, 227
Screws, Machine.....145, 190
Screws, Radio.....145
Screws, Wood.....190
Scribers.....151
Seat Covers 228, 229
Sewing Machine.....185
Shaft, Condenser.....126
Shellac, Radio.....144
Shellac, Cask.....223
Shield Grid Boosters.....87
Shield Grid Tubes 78-84
Shield Grid Tube Adapters.....85
Shields, Tube.....85, 142
Shielded R. F. Trans.....127
Shielded Sockets.....132
Shielded Tubes.....129
Shielding Aluminum.....79
Shielding Metal.....144
Shields, Ball.....118
Shields, Tube.....142
Shirts, Basketball.....210-211
Shock Absorbers.....233
Shoes, Basketball.....210
Shoes, Running.....202
Short Wave Equipment 152-157
Shutters, Auto.....212
Shutters, Radiator.....212
Side Curtains, Auto.....216
Signal Bell.....190
Silver Grid Overhead Valve 230
Silver King Tubes 82-83
Silver Marshall Products.....108-115
Skates, Ice.....211
Simon Converter.....231
Sleeve Puller.....223
Snips, Tinners.....241
Sockets, Radio Tube.....118, 115, 142
Soccer Ball.....211
Socket Power Units.....86-90
Sockets, Electrical.....193
Socket Antenna.....149
Socket Wrenches.....230
Soldier.....150
Soldering Irons.....150
Soldering Paste.....150
Soldier Lugs.....145
Solomond R. F. Colls.....127
Solution, Non-Freeze 212, 214
Solutions, Radiator Re- pair.....214
Sonatron Tubes.....84
Space Wound, R. F. Colls.....127, 128, 129
Sox, Sweat.....210
Spaghetti Tubing.....143
Spark Insulator.....225
Spark Plugs.....225
Speakers, Radio 65-76
Speaker Airplane Cloth 67
Speaker Horns.....73, 74
Speaker Units.....74
Speaker Tables, Radio 63
Speakers, Cone 65-69, 71-74
Sponges.....223
Spotlights, Auto.....221-222
Spray Guns, Duo.....235
Spring Connectors, Antenna.....145
Spring Compressors.....234
Spring Oilers.....232
Squeezes.....217

Starting Cable, Auto.....236
Start Switches, Auto 217
Steel Wool.....232
Step Plates, Auto.....217
Stoptights, Auto.....222
Stoves, Electric 181, 186, 188
Sub Panel Batteries.....115, 106, 146, 156
Super Ball Antenna.....148
Storage Batteries 91
Substantia.....147
Supporters, Athletic.....211
Switches, Auto Light.....222
Switches, Auto Starter 236
Switches, Battery.....137
Switches, Electric.....189
Switches, Electric Clock 137
Switches, Jack.....137
Switches, Starting.....217
Switch Levers.....145
Switches, Meter Type 192
Switches, Panel.....192
Switches, Porcelain.....137
Base.....139
Switches, Radio.....139
Switches, Service.....192
Switches, Stop Light.....222
Switches, Time.....190
Switches, Rheostat 134-136

T

Table Lamps.....188
Tables, Radio 63
Tables, Wrought Iron.....63
Tail Lights.....222
Tacking Tapes.....147
Tapped Sockets.....230
Tap and Die Set, Radio 151
Television Parts.....162
Template, Adjustable.....150
Temple Comparator.....76
Temple Speakers.....67, 68
Terminals, Storage Battery.....94
Terminal Puller, Battery.....239
Testers, Battery.....239
Tester, Battery Coll.....239
Test Instruments, Radio 158-161
Thordarson Power Amp.....96, 99
Thordarson Trans-formers.....132
Therapeutic Lamp.....135
Thickness Gauges.....231
Thread File.....230
Three Circuit Tuners.....127, 128
Time Switches.....129
Tin Foil.....129
Tins, Phone.....77
Timers, Ford.....212
Tire Chains.....215
Tire Gauges.....243
Tire Pumps.....243
Tires, Auto 244-253
Tire Shoes.....255
Tire Repair Material.....254
Toasters, Electric.....179
Tone Condensers.....138
Toggle Switches.....139
Tone Arm, Phono-Pick-Up.....74, 100
Tone Filters, Radio.....76
Tool Box, Auto.....231
Tool Chest, Radio.....156
Tools, Fender Repair.....234
Tool Station.....231
Tools, Radio.....150, 151
Tools, Tire.....237, 243
Tools, Valve.....234
Tops, Auto.....216
Top Materials, Auto.....216
Top Dressing.....216
Top Recoverers.....216
Torches, Blow.....150, 227
Tork Clocks.....190
Tow Ropes, Auto.....243
Toys, Electric 196-198, 181
Trains, Electric, Bell.....196-198
Tring.....190
Transformers, Audio.....114, 120, 102, 118, 121, 132, 133
Transformer, Code.....155
Transformers, Coupling 132
Transformers, Filament 97
Transformers, Long Wave.....115
Transformer, Output.....76
Transformers, Power.....97, 132
Transformers, R. F.....120
Transmission Bands.....235
Transmitter Equip. 152-160
Traps, Wave.....125
T. R. F. Kit, 6.....128, 129
Trickle Chargers.....91, 92
Trim Speakers.....72

Trouble Lamp.....221
Truck Tires.....250
Truovit.....135
Trumpets, Loud Speaker.....162
Trunks, Auto.....218
Tube Adapters.....85
Tube Caps, Radio.....85
Tube Checkers.....159, 160
Tube Rejuvenators.....161
Tube Repair Outlets.....254
Tubes, Auto, Tire.....251-253
Tubes, Radio 78-85
Tubes, Transmuting.....85
Tube Amplifiers.....159, 160
Tube Rejuvenators.....161
Tube Repair Outlets.....254
Tubes, Auto, Tire.....251-253
Tubes, Radio 78-85
Tubes, Transmuting.....85
Tubes, Truck and Bus 250
Tubing, Bakelite.....144
Tubing, Cardboard.....144
Tubing, Spaghietti.....144
Tubing, Windshield Cleaner.....217
Tungar Bulbs.....92
Tungar Charger.....92
Turntables, Phonograph 100
Two Way Plugs.....191
Tyriman Kits.....103, 104

U

Unlpaes.....113
Underground Antenna 147
Units, Speaker.....76
Units, Case Chromo.....69
Units, Coffee.....183
Utah Speakers 73
Utah Units.....74

V

Vacuum Bottles.....209
Vacuum Cleaners 184
Vase Parts, Tire.....78-85
Vases, Radiating.....183
Valves, Tire.....243
Valve Crinders.....234
Valve Tools.....234
Vaporizer, Automobile.....234
Variable Condensers.....124-126
Variable Resistances.....134, 135, 136, 139-141
Vario Coupler.....129
Variometer.....129
Vase, Auto Flower.....219
Vending Fans.....183
Vernier Dials.....130, 131
Vests, Shell.....202
Vibrators, Electric.....185
Vitreous Parts.....107
Violet Ray Outfits.....185
Visas.....151, 227
Voltage Regulator.....93
Voltmeters.....94, 158-161
Volume Controls.....77, 135
Vulcanizers, Tire and Tube.....254

W

Waffle Irons, Electric 182
Wall Jacks, Radio.....139
Washers, Auto.....232
Washers, Radio.....145
Waste, Cotton.....232
Water Pumps, Auto.....233
Wax Meter.....152
Wax, Simoliz.....223
Wax, Simoliz.....223
Wheel Pullers, Auto.....231
Whistles, Basketball.....210
Whistles, Exhaust.....220
Winders, Coll.....157
Windshield Cleaners.....216
Winter Enclosures 216
Wipers, Windshield.....217
Wire, Antenna.....148
Wire, Bell.....148
Wire Assemblies, Ford.....225
Wire, Auto.....236
Wire, Enameled.....195
Antenna.....153
Wire, Magnet.....144
Wiring Supplies, Electrical.....189-195
Wiring Supplies, Radio.....137, 144, 145
Wood Screws.....100
Wrenches, Radio.....151
Wrenches, Auto.....227
Wrenches, Rim.....230
Wrench, Spark Plug.....225

X

X X L Variodensers.....140

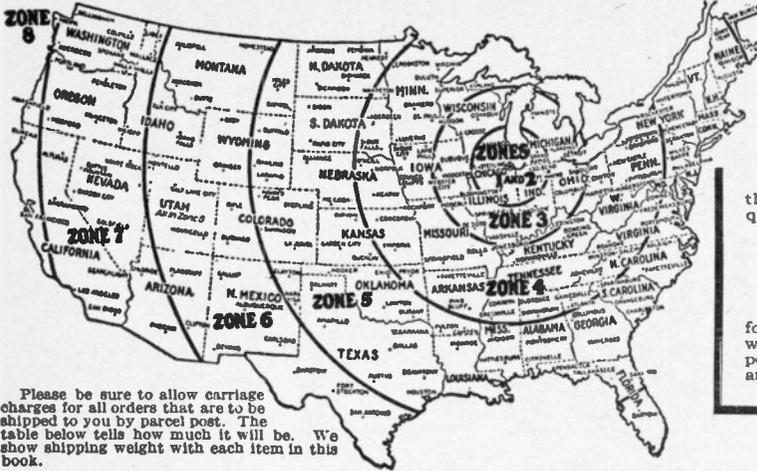
Y

Yaxley Parts.....139

Z

Z Coupler.....132
Zero-Foe.....214
Zinc Shielding.....144

It's Easy to Figure Delivery Charges on Your Order



Please be sure to allow carriage charges for all orders that are to be shipped to you by parcel post. The table below tells how much it will be. We show shipping weight with each item in this book.

Table of Approximate Rates

Per 100 lbs. for Express and Freight

From Chicago to	Express per 100 Pounds		1st Class Freight per 100 Lbs.	
	Express per 100 Pounds	1st Class Freight per 100 Lbs.	Express per 100 Pounds	1st Class Freight per 100 Lbs.
Alabama.....	\$3.75	\$2.40	\$3.90	\$2.25
Arizona.....	7.30	4.12	9.10	4.75
Arkansas.....	3.59	1.60	4.00	1.49
California.....	10.05	4.75	3.75	1.43
Colorado.....	6.15	3.65	5.60	3.35
Connecticut.....	3.85	1.49	3.35	1.18
Delaware.....	3.70	1.42	3.75	2.50
Florida.....	5.05	2.20	4.50	2.60
Georgia.....	3.50	2.32	2.15	.80
Idaho.....	7.90	4.50	3.85	2.14
Illinois.....	1.85	.75	9.75	5.10
Indiana.....	1.65	.70	3.75	1.40
Iowa.....	2.57	.98	4.00	1.49
Kansas.....	3.80	2.04	4.10	2.29
Kentucky.....	2.20	.98	4.35	2.65
Louisiana.....	4.20	2.06	3.30	1.75
Maine.....	4.50	1.49	7.15	2.37
Maryland.....	3.45	1.25	6.90	4.13
Massachusetts.....	4.00	1.49	3.95	1.60
Michigan.....	3.95	1.09	3.60	1.39
Minnesota.....	3.60	1.40	9.45	5.10
Mississippi.....	3.75	1.89	2.95	1.03
Missouri.....	2.62	1.35	2.65	.60
Montana.....	5.35	3.75	5.50	3.50
Nebraska.....				
Nevada.....				
N. Hampshire.....				
New Jersey.....				
New Mexico.....				
New York.....				
No. Carolina.....				
No. Dakota.....				
Ohio.....				
Oklahoma.....				
Oregon.....				
Penn.....				
Rhode Island.....				
South Dakota.....				
Tennessee.....				
Texas.....				
Utah.....				
Vermont.....				
Virginia.....				
Washington.....				
West Virginia.....				
Wisconsin.....				
Wyoming.....				

How to Order

All prices quoted are net wholesale. All discounts have been deducted. Our terms are cash with order, or C. O. D. if you prefer. See pages 261 and 260 for full details of our broad, liberal dealer policies.

Back Orders and Omissions

We ship promptly from stock, and do not hold over orders except in extreme cases. If we cannot ship all of the items you order, we send the balance at once. Our service is quick and speedy.

About Returning Goods

We ask you to please not return goods for credit or exchange without our written authority. Merchandise shipped back must be in original containers, and all return goods must be prepaid.

Parcel Post Rates

Packages Weighing from 8 ozs. or 1/2 lb. to 20 lbs.

WEIGHT POUNDS	ZONE 1 & 2	ZONE 3	ZONE 4	ZONE 5	ZONE 6	ZONE 7	ZONE 8
	Up to 150 MILES From Chicago	150 to 300 MILES From Chicago	300 to 600 MILES From Chicago	600 to 1000 MILES From Chicago	1000 to 1400 MILES From Chicago	1400 to 1800 MILES From Chicago	OVER 1800 MILES From Chicago
1	\$0.07	\$0.08	\$0.08	\$0.09	\$0.10	\$0.12	\$0.13
2	.08	.10	.12	.15	.18	.22	.25
3	.09	.11	.16	.21	.26	.32	.37
4	.10	.14	.20	.27	.34	.42	.49
5	.11	.16	.24	.33	.42	.52	.61
6	.12	.18	.28	.39	.50	.62	.73
7	.13	.20	.32	.45	.58	.72	.85
8	.14	.21	.36	.51	.66	.82	.97
9	.15	.22	.40	.57	.74	.92	1.09
10	.16	.24	.44	.63	.82	1.02	1.21
11	.17	.26	.48	.69	.90	1.12	1.33
12	.18	.28	.52	.75	.98	1.23	1.45
13	.19	.30	.56	.81	1.06	1.33	1.57
14	.20	.32	.60	.87	1.14	1.43	1.69
15	.21	.34	.64	.93	1.22	1.52	1.81
16	.22	.36	.68	.99	1.30	1.62	1.93
17	.23	.38	.72	1.05	1.38	1.72	2.05
18	.24	.40	.76	1.11	1.46	1.82	2.17
19	.25	.42	.80	1.17	1.54	1.92	2.29
20	.26	.44	.84	1.23	1.62	2.02	2.41

If the weight of your package exceeds 20 pounds, add 1c for each additional pound or fraction of a pound if you live in the 1st and 2nd zones, 2c extra if you live in the 3rd zone, 4c extra if you live in the 4th zone, 6c extra if you live in the 5th zone, 8c extra if you live in the 6th zone, 10c extra if you live in the 7th zone, and 12c extra if you live in the 8th zone.

NOTE:—Packages weighing over 1/2 lb. (8 ozs.) and not more than 1 lb. take 1 lb. rate.

Packages weighing over 1 lb. and less than 2 lbs. take the 2 lb. rate. Always use the next higher pound rate for pounds and fractional pounds. FOR EXAMPLE:—1 1/4 lbs. requires 2 lb. rate, 2 1/4 lbs. requires 3 lbs. rate.

How to Figure Express Charges

(1) Total weights of items ordered, as shown on Order Blank. (2) Refer to table above for approximate Express Rates per hundred pounds to your state. (3) Then refer to left hand column of table below and find weight which corresponds with weight of goods you are ordering. (4) Follow to the right, line opposite the weight of goods on your order, through the columns to the column headed by the rate per 100 lbs. to your state. The amount in this Column will be the approximate Express charges on your goods.

Table of Express Charges Based Upon Rate per 100 Pounds

Package not over	\$1.25	\$1.45	\$2.15	\$2.65	\$2.95	\$3.45	\$3.75	\$4.00	\$4.25	\$4.50	\$5.50	\$6.90
1 Pound.....	.36	.36	.37	.37	.38	.38	.38	.39	.39	.39	.40	.42
2 Pounds.....	.37	.37	.39	.40	.40	.41	.42	.42	.43	.43	.45	.48
3 Pounds.....	.38	.38	.40	.42	.43	.43	.45	.46	.47	.47	.50	.55
4 Pounds.....	.38	.39	.42	.44	.45	.47	.49	.50	.51	.51	.56	.61
5 Pounds.....	.39	.40	.44	.46	.48	.50	.52	.53	.54	.56	.61	.68
10 Pounds.....	.44	.46	.53	.58	.61	.66	.69	.71	.74	.76	.86	1.00
15 Pounds.....	.48	.51	.62	.69	.74	.81	.86	.90	.93	.97	1.12	1.33
20 Pounds.....	.53	.57	.71	.81	.87	.97	1.03	1.08	1.13	1.18	1.38	1.66
25 Pounds.....	.57	.62	.80	.93	1.00	1.12	1.20	1.26	1.32	1.39	1.64	1.99
30 Pounds.....	.62	.68	.89	1.04	1.13	1.28	1.37	1.44	1.52	1.59	1.89	2.31
35 Pounds.....	.66	.73	.98	1.15	1.26	1.43	1.54	1.63	1.71	1.80	2.15	2.64
40 Pounds.....	.71	.79	1.07	1.27	1.39	1.59	1.71	1.81	1.91	2.01	2.41	2.97
45 Pounds.....	.75	.84	1.16	1.38	1.52	1.74	1.88	1.99	2.10	2.22	2.57	3.30
50 Pounds.....	.80	.90	1.25	1.50	1.65	1.90	2.05	2.17	2.30	2.42	2.92	3.62

We Pay Freight As Per Offer Given on Page 260

SUPERIOR MERCHANDISE SPEEDY SAME DAY SERVICE **MANY THOUSANDS**



This new and bigger catalog is conclusive proof of the tremendous growth of the Barawik company. This growth was made possible only by the tremendous increase in satisfied customers. Dependable quality merchandise at the lowest possible prices, in addition to our new high-speed service in sending orders on their way, is a sure, positive way of making mail order buying more popular. Year after year, more and more people avail themselves of this rapid, money-saving and pleasant way of purchasing. You, too, as you look through the pages of this catalog, will be amazed at the tremendous values offered.

Our Low Prices Save You Many Dollars

We Carry a Complete Line of

RADIO

- 5-Tube Portables
- 6-Tube Portables
- 6-Tube Consoles
- 7-Tube Consoles
- 8-Tube Consoles
- Radio-Phonograph Combination
- Radio Tables
- Radio Speakers
- Radio Cabinets
- Radio Parts
- Radio Accessories
- Radio Batteries
- Radio Kits
- Radio Tubes
- Radio Sets

FURNITURE SPECIALTIES

AUTOMOBILE TIRES

- 30,000-Mile Tires
- 16,000-Mile Tires
- 14,000-Mile Tires
- 10,000-Mile Tires
- Truck and Bus Tires
- Guaranteed Tubes

AUTOMOBILE ACCESSORIES

- Chains
- Jacks
- Heaters
- Radiators
- Batteries
- Lamps, Lights
- Windshield Cleaners
- Ornaments
- Horns
- Bumpers
- Winter Enclosures
- Seat Covers
- Washing Supplies
- Repair Kits
- Greasing Supplies
- Wrench Sets
- Pliers
- Garage Equipment

ELECTRICAL EQUIPMENT

- Toy Trains
- Xmas Tree Decorations
- Motors
- Electrical Supplies
- Lamps
- Household Appliances
- Stoves
- Vacuum Cleaners

ELECTRICAL FIXTURES

- For Every Room in the House—
- All Styles, All Prices
- SPORTING GOODS—
- Also Hunting and Camping Clothes

Prices were never as low as they are now. Quantity production coupled with greater efficiency in merchandising makes the present the right time to buy. It's an open secret why Barawik's prices are lower than others. Many thousands of satisfied customers buy from us. They are the ones who really make our low prices. As the number of customers increases, our prices decrease. The leading manufacturers of the country are always eager to sell us merchandise at a small profit in order to keep their plants busy during the slack seasons. Barawik has always made it a policy to anticipate the needs of their customers by buying in tremendous quantities—not in dozens or cases, but in grosses and carload lots. Our warehouses are overflowing with merchandise that will be shipped to our customers within the next few months. Compare our prices with others and figure your savings when you buy here. Remember, the more you buy, the more you save!

Accuracy Is Our Watchword YOU GET WHAT YOU ORDER

This catalog is compiled by merchandise experts who carefully analyze every piece of merchandise that goes into it. These men furnish our advertising department with the accurate description of every article. The illustrations are made from the merchandise itself so that you actually see what you are getting. The descriptions supplement the illustrations to give you a full understanding of the articles. When you order from Barawik's, you know positively what you will receive. You get what you order. Our stocks are complete. Every order is filled accurately by experienced men. Each individual order is given personal attention.

It's Easy to Order C. O. D.—OR CASH WITH ORDER

It is easy to order by mail. A pencil and paper is all you need. You don't have to go out of the house to get the choice of the world's markets. Everything is delivered to your door in perfect condition within a surprisingly short time.

Our terms are Cash with Order or C. O. D.—whichever you prefer. In this way we are able to quote you lowest possible prices. We carry no open accounts. We sell to thousands of well-rated customers who prefer buying for cash at our low prices rather than at 30 days or 60 days at higher prices. If you enclose the money with your order, you avoid extra collection costs. For new customers, living in distant localities, who order heavy merchandise, we request a reasonable deposit with the order. Post Office or Express Money Orders, bank drafts, or your personal check will be accepted as remittance. If you wish merchandise shipped for your inspection, you may order by express and inspect the merchandise at the express office before you accept shipment. Prices in this catalog are subject to market changes, and we reserve the right to change our prices if absolutely necessary. This, however, is very unusual.

If You Are in a Big Hurry TELEPHONE — TELEGRAPH!

If you need any merchandise in a rush, order by telegraph or telephone. Our address is 131 North Jefferson Street, Chicago. Your order will be given extra special attention by our emergency department.

OF SATISFIED CUSTOMERS

First-quality merchandise has always been the watchword of the Barawik company. Every item listed in this catalog is new, fresh stock in the best of condition. You can be assured that we do not sell any job lots, seconds, or inferior grade merchandise. Our prices are low, but we do not sacrifice quality in order to make them so. Our tremendous volume of business permits us to buy in huge quantities at the most advantageous prices. In this way, we are able to undersell others. You are the one who benefits. Our increased number of lines enable you to make big savings on a greater variety of merchandise.

We Sell Dependable Quality Merchandise

We are proud of every item listed in this catalog. On nearly every page you will find articles that are nationally advertised. That is your guarantee of quality when you buy from Barawik. No seconds, no bargain lots of discontinued merchandise have ever been listed in our catalog. As one of the first radio mail order houses, we have acquired an enviable reputation which we prize very highly and pledge ourselves to maintain always. In this new, bigger and better catalog, you will notice several lines of merchandise which we have never before listed. We want to assure you that each piece of merchandise in our new lines is of the highest quality. Our radio sets and parts have long since been recognized as leaders in their separate

classes. In this catalog we have a complete line of tires and tubes, carrying definite mileage guarantees. Also automobile batteries and accessories of all kinds. A choice selection of electrical fixtures of every price and style, together with electrical appliances, toys, and equipment, is sure to merit your attention.

For the first time we are listing sporting goods. Equipment for almost every sport is included in this group. Sport clothes and boots also are listed. Everything is quoted at money-saving prices. You are sure to get full value—and more—for your money. A satisfied customer is our greatest asset and we want our customers to get only the very best merchandise from Barawik.

WE SHIP THE SAME DAY Your Order Is Received

We have always realized the fact that our customers appreciate rapid service. With this thought in mind, we have installed new, modern equipment throughout our large store and warehouse in order to facilitate the filling of the thousands of orders that come in daily. We believe that never before has such efficiency been equaled in mail order selling. We are now practically always able to ship your merchandise the same day we receive your order. If you live within a radius of 500 miles of Chicago, the merchandise is usually delivered to you 48 hours after you have put your order in the mail.

WE PAY FREIGHT on orders for \$50.00 and over

This generous offer holds good in all states except the following few distant ones: The New England states, Maryland, Washington, Florida, California, Oregon, Idaho, Wyoming, Colorado, Montana, Arizona, Utah, New Mexico. On shipments going to these states, we make a flat freight allowance of \$2.00 a hundred pounds. If your shipment is ordered by freight, send us your paid freight bill with the order number given on the label outside of your shipment. We will then send you the freight allowance. If you order your goods shipped by express or parcel post, we will allow you, providing your order is for \$50.00 or over, the amount of freight cost. Many of our customers prefer ordering by express or parcel post so as to get their merchandise quicker.

EXCEPTIONS TO THIS OFFER

This offer does not include orders for "A" batteries, "B" batteries, automobile radiators, electric motors, storage batteries, winter automobile tops, chain hoists, anvil vices, curb and hydraulic jacks, wire and insulator conduits. It does not include radio furniture of any kind when ordered by itself, such as cabinets, consoles, etc., but it does include all radio sets, also all automobile tires. Build your orders up to \$50.00 or more per shipment and avail yourself of this additional saving.

We Back Every Item You Buy
You Have Our

Iron-Clad Guarantee

Every article in this catalog is guaranteed to be exactly as described and illustrated. This is for your protection. You take no chances in buying from Barawik. We carry only the best quality merchandise that must do the work and give the service intended. We will replace or refund your money on any merchandise that proves to be defective in material or workmanship.

THE BARAWIK CO.

Established for Many Years
and Still Growing
We Are Financially Responsible

We have been in business for many years and we have a long record of fair dealing and financial stability. We are one of the very few old established companies in the radio business. From a small organization, we have become one of the leaders in the field. We have the willingness and resources to back up any statements or promises that we make.

SHUTTERS

Made for All Cars

8R9823

\$5²⁰ For New Model "A" Fords

8R9848

\$5⁶⁰ For Chevrolets

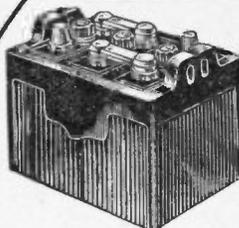
This is the time to think of getting a radiator shutter. Our assortment is complete. Turn to page 212 and pick out the one for your car. Barawik's low prices save you money.



This Battery Is Guaranteed 18 Months

6R10785

\$6²⁵ Ford Size



An amazing low price for a guaranteed battery. This is only one of the many battery bargains offered on page 239 of this catalog. All sizes, all prices. A battery for every car at big savings.

YOU MAKE A BIG SAVING HERE

Introducing Our New Departments

The Greatest Barawik Catalog—5,000 More Amazing Values!

Never before such vast variety—such worth while values as in this Bigger, Better Catalog. Radio sets, cabinets, accessories, supplies cover 162 pages. The rest are filled with rare bargains in automobile tires and tubes, batteries, accessories. Electrical fixtures, appliances, supplies, Sporting goods. And Toys.

Waffle Iron for Only

6R7281

\$6¹⁵



You save 25% from the regular price. Waffle on this 7-inch iron. Aluminum grid. Sanitary nickel finish. Handles are etonized. There are more waffle iron bargains on page 182.

5-Candle Drop

5R14308

\$6⁹⁴

Just a sample fixture taken from our line on page 172. Attractive appearance.



Beautiful Polychrome Finish

You save money on electric fixtures at Barawik's. The quality is high. Our prices, low.

Guaranteed 16,000 Miles

Balloons

7R10130

\$6⁷⁵

A definite mileage guarantee with every tire. See pages 244-245 for guaranteed tires and tubes for all cars and trucks and busses. More for the money here.



Genuine Mohair Auto Robe

Usually Sells for \$15.00

Save 1/2 Our Price **\$8⁷⁵**

8R12640

This is an exceptional value! This auto robe sold for as much as \$15.00 elsewhere. Made of Genuine Mohair. Beautiful brown color. A quality robe that anyone will be proud to own. See page 218 for other worth while values.

COLORFUL ELECTRIC LIGHTS For Xmas Trees

You can decorate the tree beautifully at low cost. More Xmas tree decorations on page 199. These lights sell for much more elsewhere.

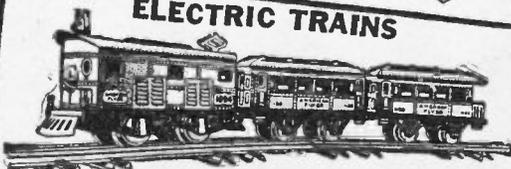
5R7225 \$1⁴⁵

5R7210 \$1⁵⁷

5R7211 75c



ELECTRIC TRAINS



'Any boy will appreciate this toy. Any parent will appreciate the money-saving price. A big 21-inch electric train finished in red and ivory. 8-section track. Other trains on page 197.

15R14558

\$3⁹⁵



\$9⁵⁰

11R12900

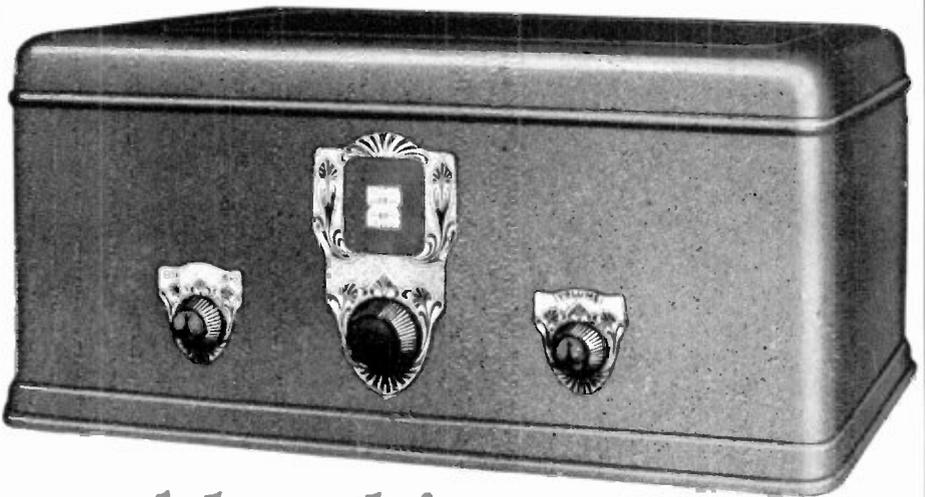
Genuine Sheepskin Lines This Sturdy MoleSkin Coat

A great big roomy coat. Full 36 inches long. One of the best values we ever offered. Get into one of these. You will never feel the cold. Other sheep-lined coats are shown on page 208.

You Make Big Savings on This 1929 AC 6-7 Tube Receiver

Operates Direct from Your Electric Light Socket

May Be Had in Colors



Years Ahead in Performance

\$35⁴⁵_{Net}

A True AC Receiver

Designed and constructed to please the most critical radio expert! This wonderful Marvelo receiver comes to you with a cord and plug that connects directly to your 110 volt 60 cycle AC light socket, the same as your electric washing machine. No other connections except the aerial and ground are needed for its operation.

The Marvelo is a true AC receiver that never requires attention.

New 1929 Design

The advanced circuit design easily makes the Marvelo AC 6-7 a leader for the coming season. The sharply tuned three stage radio frequency amplifier makes possible long distance reception without the usual interference from nearby high powered broadcast stations. True single dial tuning makes operation so simple that a child may operate it as easily as the grown-ups.

For full technical description see page 28.

Finest Tone Quality

Famous musicians hearing the Marvelo AC 6-7, pronounce its tone quality practically perfect. You, too, will say the same when you hear it, for it actually reproduces all types of broadcast entertainment with clear, vivid, realistic tone quality. Even on distant stations it graduates smoothly from a whisper to a thundering volume with an amazingly superior tone that is as lifelike as the studio music, itself.

Guaranteed Quality Throughout

In the Marvelo's Superb construction, quality parts are used throughout. The power pack, which furnishes the power for the entire receiver utilizes a type 280 full wave rectifier tube. It is designed for continuous use even when overloaded 25 percent. This great reserve power amply furnishes all the current for the four type 226, one type 227, and one type 171 tubes used in this receiver.

Compare These Prices

IF11487 Marvelo Table Model AC 6-7 receiver in brown tone Art Metal Cabinet. Less tubes and antenna equipment. List \$65.00 Net **\$35.45**

IF11488 Same as above but with full set of tubes, and all necessary antenna equipment. Complete ready to operate. List \$90.00 Net **\$47.45**

See page 29 for prices on other colors.

Chassis Only

To accommodate those who want to install this wonderful radio in their own cabinets the chassis is sold separately at the substantially low wholesale price of

IRCI1494

\$32⁹⁵_{Net}

Combination AC 6-7 and Speaker Table in Colors

The beautifully designed speaker table to match the Marvelo AC 6-7 receiver shown above may be had in four different colors: Browntone, Nile Green, Chinese Red and Old Ivory.

Many people prefer a combination of this type, because of its unique appearance and the small space it occupies in the home.

This combination is equipped with the Marvelo Magnetic Cone Speaker described on page 65. It was chosen because of its wonderful tone quality and the great volume carrying capacity, and equal amplification of all notes in the entire musical scale.

For further information and prices of the popular colored models see page 30.

Astonishingly Low Prices

IF11524 Brown toned Finish Combination Marvelo AC 6-7 and speaker table to match as shown, less tubes and antenna equipment. List \$100.00 Net **\$52.95**

Complete—Ready to Operate

IF11523 Same as above but with complete set of genuine AC tubes and all necessary antenna equipment. List \$125.00 Net **\$64.95**



May Be Had in:
Browntone
Nile Green
Chinese Red
Old Ivory

\$52⁹⁵_{As shown}

Browntone Finish

Another Barawik Triumph!

Marvelo A C 6-7 Chancellor Console

\$52⁵⁰



We Challenge Comparison!

A Receiver Comparable to Only the Finest

Here is the last word in Radio perfection—a set worthy of your serious attention for it gives superior performance at a new low price. Wherever in America you find a radio set of such wonderful performance for your money and no where will you find a set that carries a more liberal guarantee. In design, construction, quality of materials and workmanship this receiver ranks supreme. Its remarkable quality is bound to please you.

Distance—Power

This receiver has been especially designed for getting distant stations, to have great power, and to be selective. The all metal chassis, twice matched radio frequency coils, ruggedly built three gang condenser, and the semi-shielded construction give it an added advantage over most other radio sets in producing outstanding performance. With this superior type of construction you are assured that this new receiver will at least equal, if not surpass the results obtained from other sets of its type.

For full technical description of the Chancellor Marvelo AC 6-7 chassis, read page 28.

Lifelike Tone

Nothing has been spared to make the Chancellor's tone quality supreme. The vivid, clear toned magnetic cone speaker together with the powerful audio amplifier fully amplify all tones of the original broadcast in such a way that you will actually wonder how such marvelous and realistic reproduction is possible.

For the Finest Homes

Many of the finest homes in America will find the Chancellor Marvelo AC 6-7 a welcome addition. It is small enough to be placed into a nook or corner, but yet commands instant attention and admiration of anyone entering the room in which it is installed.

Marvelo Guarantee

Each individual Marvelo Radio Set bears the factory guarantee for tone quality, volume, distance, sensitivity, and selectivity. This broad and rigid guarantee is your assurance of obtaining the greatest value for your money.

Just before the set you order is sent out, it is given a final test which is an "air comparison" against a calibrated set kept in perfect condition at all times. During this test various adjustments are made on your receiver until results obtained with it equal those of the calibrated standard.

This is why we guarantee each Marvelo to operate perfectly and to be free from defects in material and workmanship.

Artistic Walnut Console

Lovers of beautiful furnishings find the Chancellor a beautiful and artistic piece of furniture. The gracefully formed legs and cross stretcher together with the charming beaded scroll effect borders give this Console a finished appearance attained by few others. The drop front door acts as an elbow rest. Size 32 in. high, 21 in. wide, and 15 in. deep.

Priced Far Below the Market

IF11567 Marvelo Chancellor Model as shown above equipped with magnetic cone speaker, less tubes and antenna equipment. **\$52.50**
List \$120.00 Net

IF11568 Same as above, but equipped with Marvelo dynamic power speaker described on page 66. **\$66.50**
List \$150.00 Net

If Complete Equipment is desired add \$12.00 to the price given above. This includes full set of genuine AC tubes and all necessary antenna equipment for complete operation. Nothing else to buy.

