

# BRAUN'S

Confidential Wholesale  
Price Guide

# RADIO

SETS

KITS

PARTS

SUPPLIES

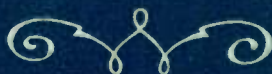


**Auto Tires**  
*and Accessories*

**Electrical Goods**  
*Wiring, Fixtures, etc.*

**Sporting Goods**  
*Football, Basketball etc.*

**Household  
Specialties**  
*Phonographs etc.*



FALL & WINTER 1927-1928

**W.C. Braun Co.**

563-571 RANDOLPH ST.  
• CHICAGO •

PIONEERS IN RADIO



# Sell The Kind of Radio Most People Want

*No Freaks or  
Frills—Just Real  
Solid Worth and  
Reliability*



Manufactured under license grants from Radio Corporation of America, Westinghouse Electric and Manufacturing Company, General Electric Company and American Telephone and Telegraph Company.

## MONROE SYMPHONIC *Single Control Shielded Six*

### With Illuminated Dial

The result of years of experiment, test, and development, the new MONROE line reflects all of the time-tried improvements that have made radio such a tremendous success. For long distance reception it has few rivals and users everywhere testify to really amazing feats of performance obtained with it. Simple, both in construction and operation, it strikes the fancy of the average user because of its day to day uniformity of action and the ease with which stations may be selected. Its true, clear tone is a subject of wonder to all who hear it.

Here we have the ultimate in radio—the combination of a highly perfected receiver and the ideal reproducer. Incorporated in this fine console is the great orthophonic type 84 inch tone travel speaker—the choice of radio, acoustical and musical authorities. Coupled with the marvelous audio amplification system of the receiver itself you have that resonant, vibrant, crystal clear musical reproduction which holds you breathless in wonderment at the great advancement in radio. There is a new thrill for you in hearing the Symphonic Monroe!

On pages 8 and 9 you will find a detailed description of the chassis of this wonderful new MONROE Single Control Shielded Six tube receiver. The Symphonic Console is made from fine quality walnut in soft, natural brown, polished and hand-rubbed finish. Space for all batteries or power units is provided back of speaker. In front of set is a plain drop leaf, which acts as a protection to the set when not in use and as convenient arm rest in tuning. Height of Console 39 in., width, 27½ in., depth 18 in. Shpg. wt. without accessories—100 lbs.

### The Ideal Demonstrator

This MONROE Symphonic makes the ideal set for demonstration in the store. Its elegant appearance attracts instant attention and its beautiful tone and room-filling volume sets it aside and above from the average radio set.

### Price List Symphonic Model

1K11474—Complete, without accessories, but with in-built loudspeaker. Shipping wt. 105 lbs. List \$150.00 **\$74.50**  
Net.....

### For Battery Operation

1K11475—Set Complete with all accessories for battery operation including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ V. "C" batteries, three large 45 V. "B" batteries and complete Antenna and Ground outfits. Ship. wt. 205 lbs. List \$199.95. Net Wholesale..... **\$101.25**

### For Socket Power Operation

1K11476—Set Complete for Socket Power Operation including four 201A type, one 200A type and 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ V. "C" batteries and necessary Antenna and Ground outfits. Shipping wt. 190 lbs. List \$231.70. Net Wholesale..... **\$119.25**

# Make the Best of the Biggest Year in Radio History!

## We Make Vast Preparations to Support Our Dealers

Radio has taken its place as a permanent, important part of the country's entertainment industry. With a centralized Federal broadcast control, improved broadcasting talent and apparatus—radio forms as outstanding a part in our national life as the automobile, the moving picture, the theatre and the sports.

Upon this groundwork of public demand has been built an industrial opportunity in the retail field, the equal of which we have never before known. Radio retailing has become stabilized. First thought to be only a Fall and Winter product, its sale now reaches the year around. On July 21st last (the middle of the Summer), we witnessed the greatest use of radio in all the history of the world, when in broadcasting a famous boxing match 51 of the nation's greatest radio stations were linked into one mighty chain. No less than twenty million people listened in!

The manufacturers, the distributors, and

the leading retailers have laid all plans to make this the banner year in radio history. We counsel our dealers to get on the "band wagon" of this movement and press their advantages in their respective territories.

With a new home providing thousands of extra square feet of stock space, our huge preparatory stocks on a scale never before reached, our offers never before equaled in value, with a staff more than double its former size, we, too, have made vast preparations to play our part in the support of our dealers in making this truly the biggest year in radio history!

W. C. BRAUN



## Be First in Your Town To Get the Monroe Sets Franchise

We early believed that the best policy for the retail radio dealer to follow in the merchandising of sets was to concentrate his efforts on a line of proven quality which would show him a wide margin of profit. It was assumed that this line would be of such a high standard as to insure against heavy servicing outlays and that it would be backed by a reliable concern.

For these reasons we developed the Monroe line. Our one purpose was to produce a radio set that would meet prevailing requirements and be as nearly mechanically and electrically perfect as huge manufacturing facilities, human ingenuity and skill could make it. Many years of experiment and test and many thousands of dollars have gone into the perfection of the Monroe line. Today thousands of these good sets are in daily satisfactory operation in as many homes, in every state in the Union and in many foreign lands. This year, the Monroe

is better than ever, both mechanically and in the beauty of the cabinets and consoles in which it is available.

While many of the cities and towns of the country are already covered with Monroe dealer service, there are yet many valuable franchises open to live, foresighted retail dealers. We counsel those dealers who have not yet taken on the Monroe line to order their sample sets quickly and qualify for the Monroe franchise.

## 10 Days' Free Test

So positive are we of the unexcelled quality and value of Monroe sets that we extend to our dealers the privilege of testing sample sets on a 10 days' free test basis. You order in the regular way sending your remittance or we will ship C. O. D.—as you choose.

Give the Monroe any test you want against any set you desire and prove to your own satisfaction, that it is exactly what you want in a radio set. Prove that it reproduces better—in better value after the 10-day test period. If for any reason you feel you can do better with some other make of set we will take back the sample set and refund the purchase price of the set in full. Our only requirement is that you exercise due care and precaution in the handling of sets on this basis, to the end that this courtesy is not abused.

Together with our Sales Promotion Service, described on page 24, this plan removes every obstacle in your way in getting started on the Monroe line and in developing a big volume of business on this nationally-known and proven line of radio sets. Do not delay, order your sample sets now. Get started and make this your banner profit making year. You need make only a very limited investment. Order a few sets as a working stock and replace them from our stock as you make sales. Follow this plan to build a real substantial business—Be the Radio leader in your community. Sell Monroe sets—they sell easier, give better satisfaction and every sale makes bigger profits for you.

## The Monroe Set Guarantee

Our Monroe radio sets are guaranteed to be exactly as described and represented in our published catalogs and bulletins. They are guaranteed to do exactly what is claimed of them and to be of perfect workmanship and to reach you in good workable condition. We unqualifiedly guarantee to replace or exchange any set or part that proves to be defective.



Reproduction of Beautifully Lithographed Monroe Franchise Furnished All Monroe Dealers

Copyright, 1927 by W. C. B. Co.

W. C. BRAUN CO., Chicago, Ill. Terms—2% Cash Discount—See Page 207

Page 23





Manufactured under license grants from Radio Corporation of America, Westinghouse Electric and Manufacturing Company, General Electric Company, and American Telephone and Telegraph Company.

## The Belmont Compact Console Model

# MONROE

Single Control  
**SHIELDED SIX**

Rigid All Metal Chassis List \$125

Fully Shielded NET

Amazing Volume With No Distortion **\$59<sup>95</sup>**

Focalizer Distance Control Makes Range Country Wide Without Accessories

### Super Sensitive—Super Selective

Easily the sensation of this radio season! Full, rich tone never before dreamed of. Extraordinary selectivity, making possible perfect reception under the most trying conditions. A wonderful range, placing at the instant whim of the operator stations from all parts of the country.

Those of our dealers who have seen this model in our display room say it is one of the most unusual values ever offered. There is a very pronounced demand for this type of console and, due to our enormous volume, we are able to offer this model at a price far below that usually asked for merchandise of this quality.

## 10 Days Free Test See Page 3

THE Belmont model makes an ideal demonstration set for your store and it is, unquestionably, one of the models which you should push throughout the season. At the very special price we have arranged for it, our dealers can easily double their money and yet undersell all competition. Order on test-for-yourself basis—see page 3—the most liberal offer ever made.

### A Very Fine Console

This Console is constructed of selected American walnut, with the front panel, as shown in the small illustration, of selected Burl grain with a cut-in chasing effect that sets this fine wood off to the very best advantage. The legs are beautifully turned and the pilasters have single deep fluting. The speaker grille is made in the popular colonnade effect. Console measures overall 43½ inches high, 26½ inches wide, 14 inches deep. The battery compartment at bottom is 22 inches wide, 10½ inches high, 12 inches deep, providing all space needed for power units.

### A Splendid Speaker

The Speaker is of the wood type, providing a very long air column producing sweet, round, full volume tones. The unit is of our own special selection, chosen because it fitted the peculiar acoustic properties of this particular console. Coupled with the oversize, low ratio audio transformers of the set itself, the effects are far beyond what was thought possible only a short time ago. In clarity, strength and fidelity it is unsurpassed.

### The Marvelous Chassis

The result of years of experiment, test and development, the great new Monroe Shielded Chassis is truly the marvel of the age. A six tube, single control all metal shielded chassis, incorporating the time-tried and proven features perfected this year. A full description of this wonder of radios is given on pages 8 and 9.

## Braun Sales Promotion Service

We help our Dealers make the maximum sales in their district. See Page 22 for detailed explanation of what this support can mean to you.

### PRICE LIST Belmont Model Monroe S. C. Shielded Six

1K11400 Set Complete, without accessories, but with inbuilt loudspeaker. List \$125.00. **\$59.95**  
Net Wholesale, .....

#### For Battery Operation

1K11401 Set Complete with All Accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List \$174.95. **\$86.50**  
Net Wholesale, .....

1K11403 Set Complete for Straight Electric Operation with four 226 type, one 227 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. List \$187.00. Net Wholesale, **\$106.75**

1K11404 Monroe Single Control Shielded Six CHASSIS Only, for battery or socket power operation. List \$60.00, Net Wholesale, **\$29.40**

#### For Socket Power Operation

1K11402 Set Complete for Socket Power Operation including four 201A type, one 200A type and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. List \$210.00. Net Wholesale, **\$106.75**



The Console Closed



# The Lexington High Console Model

## MONROE Single Control SHIELDED SIX

List \$165  
NET  
**\$73<sup>50</sup>**  
Without  
Accessories

Meeting Ideally  
the Demand for  
a Fine Console  
Set at a Price  
Within Reach  
of the Average  
Home

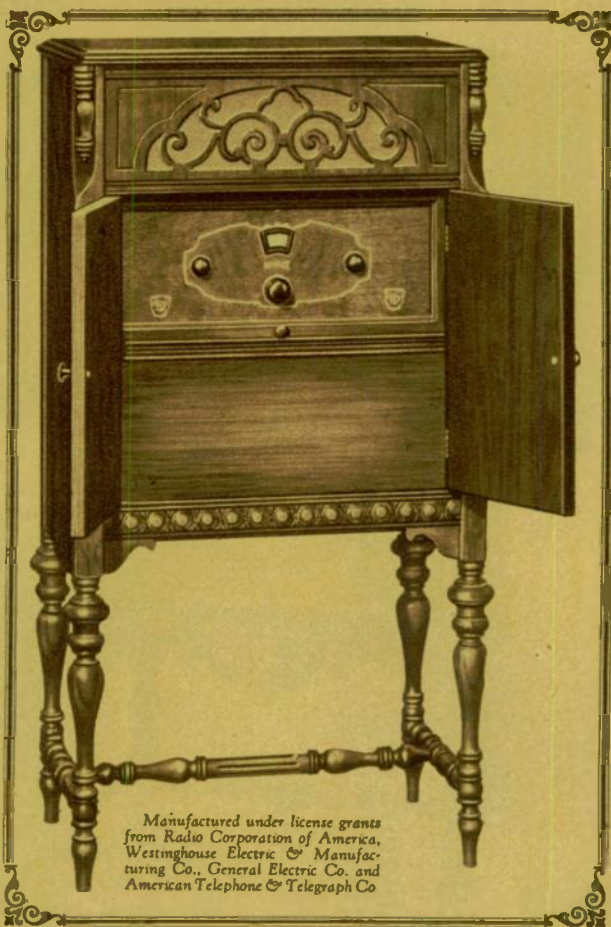
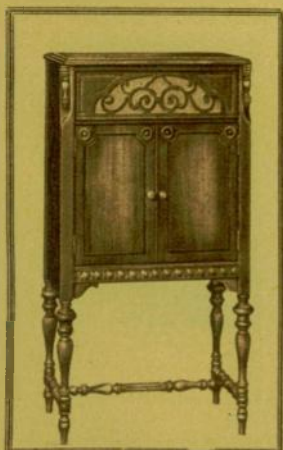
THE most modestly situated family today longs for a really fine radio set. Not in history has there come to family life such satisfying enjoyment, such opportunity for learning and advancement as through the wonder of radio. In such a set as the Lexington Monroe, many thousands of homes will find their ideal. To them it will open a new world of pleasure and countless hours of education and amusement.

### Strikes the Popular Fancy

Combining as it does the finest in radio engineering and the handiwork of the accomplished furniture craftsman, the Lexington model falls in a price field that fits the pocketbook of a very large section of the population. It is a set that the Dealer can feature as his leader and offers unequalled value and make highly satisfactory profits.

### Modern Design Console

Fashioned along lines that have proven extremely popular in the furniture trade, the Lexington Console makes a perfect housing for this famous set. Constructed from selected walnut plywood in a rich, soft, velvety finish. It stands 48 inches high, 36 inches wide, 17 inches deep. The charmingly designed grille at the top hides from view the Pure-Tone wood horn with a long tone travel which plays such an important part in the marvelous performance of this wonderful set. The sweet full rounded tones, finding their origin in the perfectly balanced giant audio transformers, passing through a specially designed speaker unit, then floating out through this acoustically perfect horn, give a tonal effect not excelled by many radio sets costing three times this price. Below the receiver compartment is a large space to house all necessary power units or batteries for the operation of the set.



Manufactured under license grants  
from Radio Corporation of America,  
Westinghouse Electric & Manu-  
facturing Co., General Electric Co. and  
American Telephone & Telegraph Co

## 10 Days Free Test <sup>See</sup> Page 3

### A Wonder Chassis

You may safely stake Monroe performance against any set on the market. In volume, selectivity, sensitivity, range, power, ease of operation, it satisfies the most particular buyer. "I don't see how you do it at the price" is a common expression from those who hear it. Let your customer try it himself. Show him the Monroe Focalizer which prevents station overlapping and brings hair-line selectivity. Show him the neat, enclosed interior with cushioned detector socket. Let him see how smoothly yet sharply it glides into stations far and near. Such a demonstration is invariably a sale! See pages 8 and 9 for detailed description of the Monroe Shielded Six Chassis.

## We Get Behind You!

Our new Sales Promotion staff stands ready to help every Monroe Dealer get his share of the set business in his town. Some idea of this support is given on page 22. Get on the Monroe "band wagon" and make a "killing" this year!

### Price List Lexington Model Monroe S. C. Shielded Six

1K11410 Set, Complete, without accessories, but with inbuilt loudspeaker. List, \$165.00. Net Wholesale **\$73.50**

#### For Battery Operation

1K11411 Set Complete with All Accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$246.70. Net Wholesale **\$100.00**

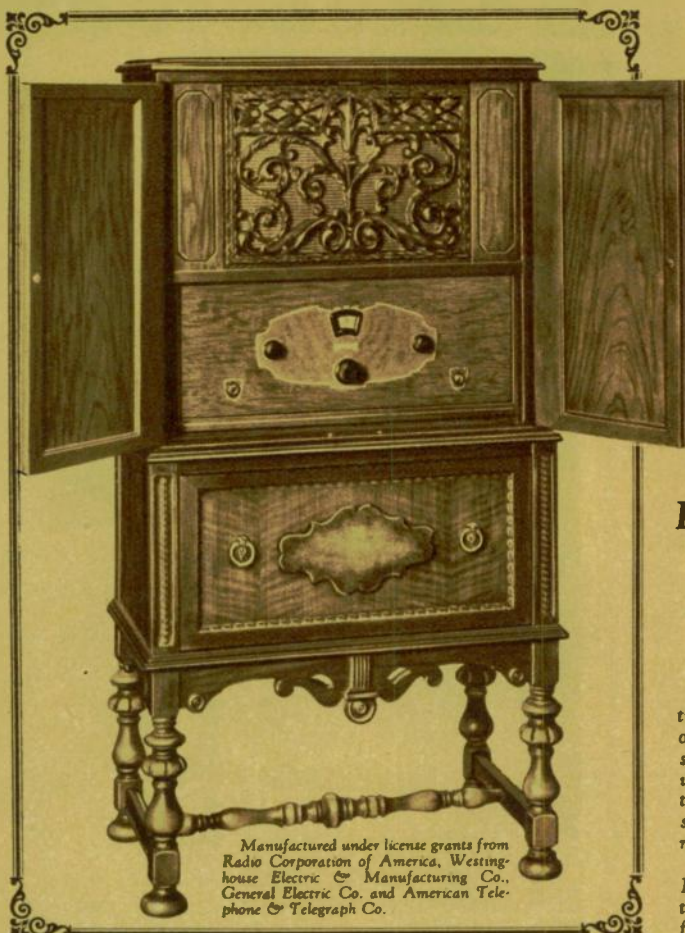
#### For Socket Power Operation

1K11412 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. List, \$246.70. Net Wholesale **\$118.25**

1K11413 Set Complete for straight Electric Operation with four 226 type, one 227 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. List, \$226.00. Net Wholesale **\$118.25**

1K11414 Monroe Single Control Shielded Six, CHASSIS Only. List, \$60.00. Net Wholesale **\$29.40**





# The Majestic Console Model

## MONROE

Single Control  
**SHIELDED SIX**

A Truly  
Magnificent  
Console  
Great True  
Tone Horn

List \$185.00  
NET  
**\$92<sup>50</sup>**

**Built Better  
Priced Lower  
Sold Faster!**

### That's the MONROE Story

Stripped of all unnecessary selling and distribution expense, the MONROE line stands squarely on a standard of quality not excelled by any. On such a policy today it enjoys a tremendous, nationwide popularity. Last year our Dealers went into this highly competitive field and established themselves with the unbeatable values the line then represented.

This year the opportunity is greater than ever. Many new models, with a host of new refinements, the Monroe line will make new records! And, those foresighted Dealers who secure their franchise early will quickly assure their leadership in set selling in their respective towns!

## 10 DAYS FREE TEST

The Majestic Model Console

SEE  
PAGE 3

The impression of this magnificent cabinet is one of rare grace and symmetry of line, together with a striking massiveness. It is constructed of American walnut, richly veneered with perfect matched butt walnut front and striking Burl walnut overlays. The Speaker Compartment Grille, as seen in the smaller illustration, is made in a richly carved effect, reminiscent of the days of the old artist carvers. The finish is the new hand-rubbed lacquer, soft and velvety-like. The sturdy base is distinguished by the most careful, skillful turnings and forms a substantial underpinning that gives an appearance of strength and pleasing proportion. It is fitted with a long air column horn with a metal throat, and a special unit chosen for the acoustic properties of

this console. The dimensions over all are: Height, 51 in.; Width, 27 in.; Depth, 16 in. The large battery compartment measures 22½x10x14 inches.

### The Great Shielded Chassis

A full and complete description of this advanced, highly developed chassis is given on pages 9 and 10. It might be noted here that powerful audio amplification system of the set itself, coupled with the sweet toned horn of the Majestic Console, give a tonal effect that is the wonder of all who hear it. There is a richness and fullness with tremendous volume—seldom attained in any set regardless of price!

## We Help You Sell!

Our Trained Sales Promotion Division lends a service to our Dealers that assures the biggest possible success. See page 22 for full details.

### Price List Majestic Model Monroe S. C. Shielded Six

1K11420 Set Complete, without accessories, but with inbuilt loudspeaker. List, \$185.00.

Net Wholesale ..... **\$92.50**

### For Battery Operation

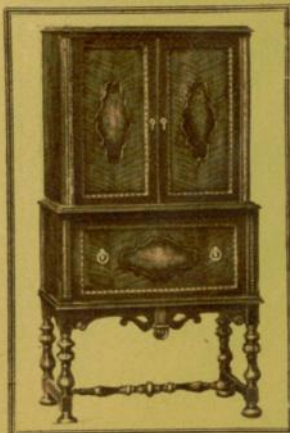
1K11421 Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$236.45. Net Wholesale. **\$118.95**

### For Socket Power Operation

1K11422 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. List, \$270.00. Net Wholesale. **\$139.50**

1K11423 Set Complete for straight Electric Operation with four 326 type, one 327 type and one 112 type A. C. Tubes, necessary ground and antenna outfits; complete with all equipment ready to plug into light socket. List, \$246.00. Net Wholesale. **\$139.50**

1K11404 Monroe Single Control Shielded Six CHASSIS Only for Battery or socket power operation. List, \$60.00. Net Wholesale. **\$29.40**





# A Good Radio Receiver Must Have the Right Equipment

## to Insure Complete Satisfaction of Your Customer — Sell the Complete Outfits

In selling radio receivers, the Dealer should always make every effort to include the complete equipment for operation in the sale. Many a good receiver suffers from the use of old tubes or indifferent batteries (or power units) or both. The Dealer can save himself an endless amount of service grief by urging the customer to use only good quality equipment and accessories.

Monroe Sets are a quality product. In choosing accessories for them, we selected only the best grade. Don't be

foiled by low prices! Some distributors make a practice of furnishing cheap batteries, poor quality tubes and cheap power units in order to make an "attractive" price on complete outfits. We will not do that. There are no "hidden" values in Braun offers—you see and understand everything, because we are frank and open.

Below are shown the accessory units listed as equipment with Monroe Sets.

## A Set is No Better than Its Loudspeaker — See Pages 29 to 35

### For Battery Operation

The Outfit furnished with MONROE sets for battery operation, and available for similar receivers, contain the following:

#### For 6 Tube Sets

	List Value
4 201A Type Tubes @\$1.75.....	\$ 7.00
1 200A Type Power Detector Tube.....	4.00
1 112 Type Power Amplifier Tube.....	4.50
3 Large Upright Bright Star "B" Batteries @	
\$3.75.....	11.25
2 4 1/2 Volt Bright Star "C" Batteries @.60....	1.20
1 Pioneer 120-Ampere Storage "A" Battery.....	20.00
1 Complete Ground and Antenna Outfit.....	3.50

Total Retail Value.....	\$51.45
2K307 Your Net Cost.....	\$26.75

(The Outfits for 5-tube sets contain the same quality of units.)



### For Socket Power Operation

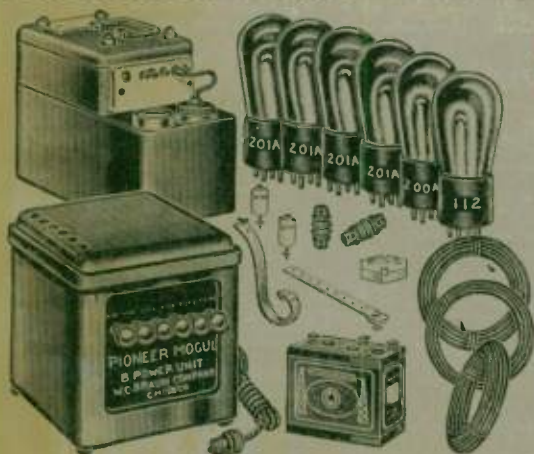
The Outfits furnished with MONROE Sets for Socket Power Operation, and available for similar receivers, contain the following:

#### For 6 Tube Sets

	List Value
4 201A Type Tubes @\$1.75.....	\$ 7.00
1 200A Type Power Detector Tube.....	4.00
1 112 Type Power Amplifier Tube.....	4.50
1 Pioneer Model "B" Power Unit.....	30.75
1 Pioneer Abox "A" Power Unit.....	32.50
2 4 1/2 Volt Bright Star "C" Batteries @.60....	1.20
1 Complete Ground and Antenna Outfit.....	3.50

Total Retail Value.....	\$92.45
2K308 Your Net Cost.....	\$45.75

(The Outfits for 5-tube sets contain the same quality of units.)



## The Truth About "Full Electric" and Straight "A-C" Radio Receivers

There has been so much discussion about the operation of Radio Receivers by A. C. or light socket current, that there is often confusion as to what is meant when you say a set is electrically operated. There are really two kinds of electrically operated receivers, those using standard tubes and "A" and "B" battery eliminating devices run from the light socket, and those using the new A. C. tubes with "raw" A. C. current.

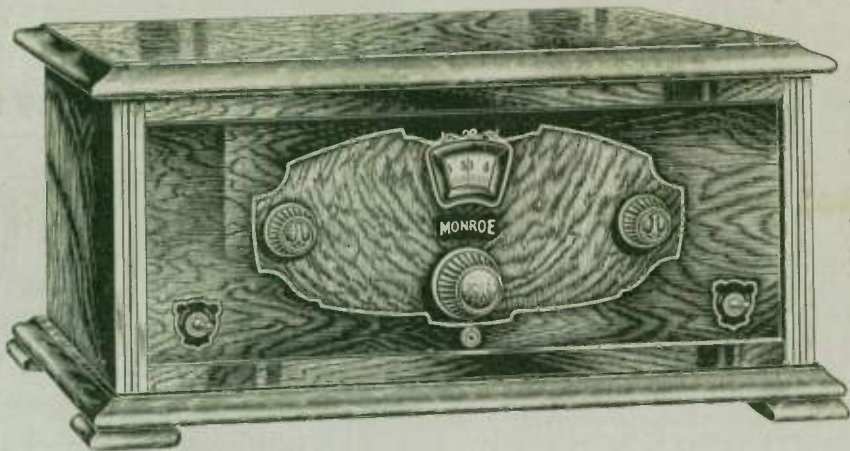
As to the A. C. Receiver, using the new A. C. tubes, we are as yet not fully decided. Our laboratories have been

working on this problem for some time, and have many other companies. But, we do not believe that the A. C. Receiver is now sufficiently developed to permit of widespread distribution. We believe in the idea and we are positive that within a year or so, it will be perfected. When that time comes, we will be ready with our line. In the meantime, we urge our Dealers to proceed cautiously in this quarter. In order that our Dealers may be in a position to combat all present competition, we have listed some of the Monroe Line for A. C. operation and these numbers will be furnished to order in that type.



# Radio Reception of Power, Easy Operation

The  
Table  
Cabinet  
Model



Manufactured under license grants from Radio Corporation of America, Westinghouse Electric and Manufacturing Company, General Electric Company, and American Telephone and Telegraph Company.

## A Real Step Ahead in Radio Receiver Refinement

The art of manufacturing radio receivers has made rapid advancement during the past two years. Beginning as an assembly of assorted parts, it has progressed to that stage where distinctive design, and general plan of construction plays the biggest part.

THE Monroe line of Radio Receivers has been planned to sell! We have developed and made them to fit the requirements of our Dealers in the retail markets. We know that competition is keen. We know that the average retail dealer must go up against the strongest kind of "high pressure" selling and advertising campaign. His only hope of getting his share of the business is to offer his trade something better than the average at a lower comparative price.

You certainly are to be congratulated! This was the expression of one of Chicago's oldest and largest dealers. And remember, this district is perhaps the most difficult reception territory in the whole country!

### A Thoroughly Engineered Receiver

In addition to our long experienced group of laboratory constructors, we have had in constant co-operation one of the country's able Radio Engineers. Having distinguished himself by designing an eminently successful expensive Receiver, we engaged him to assist in the planning and construction of this New member of the Monroe family. The general idea was to devise a set which would perform with those of the most expensive makers, yet by careful planning and mass production, could be offered at a fraction of the price generally asked for these superior receivers. Scores of test models were built. All the human faculty that intensive experience could command was brought to bear on this problem. No expense was spared to obtain the right results. No quality sacrifice was permitted. It was a question of making every penny count. With the result that if the tester were blindfolded, he could not tell the difference between the Monroe Shielded Six and the one costing three times its price.

### How The Monroe Dealer Makes Good

The experience of thousands of Monroe Dealers show that they have no difficulty in combating advertised brands because the performance and appearance of Monroe Models outclasses them all! This is no idle boast as many Monroe Dealers will testify! They will tell you that the average user wants results and since the Monroe produces, they can sell it just as easily as the most widely advertised line. This comes in the problem of keeping one, two or more demonstrators in the store. Let the customer tune it! The Radio Dealer can well take a lesson from the wise automobile salesman who lets his prospect drive himself into a sale! Many Monroe sets have been sold just through self demonstration on the Dealer's floor. We cannot urge our Dealers too strongly to keep as heavy floor stock as possible at all times.

### This New Super Six is a Wonder

Even before we brought them into production, scores of these new models were shipped to points throughout the country for test. This step ended almost two years of experiment here in our laboratories. Drawing on our years of experience and the construction of thousands of sets, we were determined to produce a six tube model that would be superior to all others. These sets already in operation, some in the "toughest" reception spots in the country prove beyond question that we have accomplished our aim.

"For distance getting, ease of tuning, absence of all microphonic noises, sweetness of tone and overwhelming volume, I have never seen any set that would approach this new Monroe Shielded Six."

### Beware of Cheap Sets!

There are radio receivers on the market cheaper than the Monroe line. And, there is always a temptation for the merchant to "fall" for these lines which have no other claim to merit than that they are low in price. Beware of them! The retail dealer never faced a more educated, critical customer than today's buyer. You can't "gyp" him and get away with it. The Dealer who builds his store on the quicksands of cheap sets at cheap prices is pre-doomed to failure! The public wants quality—they will not let it and are willing to pay a fair price for it. Monroe Prices are fair! And, Monroe quality was never questioned. We build them first and price them afterwards!

# MONROE

## SINGLE CONTROL



# Reaches New Peaks

## Tone Purity-Dependability

Manufactured under license grants from Radio Corporation of America, Westinghouse Electric and Manufacturing Company, General Electric Company, and American Telephone and Telegraph Company.

### This is a Big Monroe Year!

Get behind this new Single Control Illuminated Dial Shielded Six. Stake it against any six tube set on the market. For selectivity, range, volume, sweetness and naturalness of tone, ease of control and tuning, it is unsurpassed. In every feature of dependability it ranks with the best and outclasses the rest of them.

Cash in on a Quality-Plus-Fair Price selling plan. Call on our Sales Promotion Department to help you make this your biggest year. Refer to page 22 for details of this service.

## Price List of Cabinet Model Monroe S. C. Shielded Six

IK11473—Set with cabinet, but without accessories. List, \$70.00. Net, \$36.50

### For Battery Operation

IK11469—Set Complete with all accessories for Battery Operation including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ volt "C" batteries, three large 45 volt "B" batteries and complete Antenna and Ground outfit. List, \$119.95. Net, \$63.25

### For Socket Power Operation

IK11470—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ volt "C" batteries and necessary Antenna and Ground outfit. List, \$151.70. Net, \$82.25

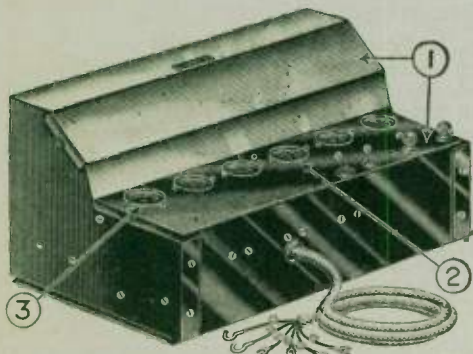
IK11471—Set Complete for Straight Electric Operation with four 1X226, 1X227 and one UV112 A. C. Tubes, Plate and filament current supply, necessary Ground and Antenna outfit; complete—all equipped to plug into light socket. List, \$131.00. Net, \$82.25

IK11472—Monroe Single Control Shielded Six CHASSIS Only. List, \$60.00. Net, \$29.40

### Wide Choice of Consoles

The Monroe Single Control Shielded Six is offered regularly in a wide range of popular console models. If a special console is desired, refer to pages 107 to 114, where you will find a most complete listing of fine consoles.

We Show You the Inside—No "Hidden Value"—You See Everything



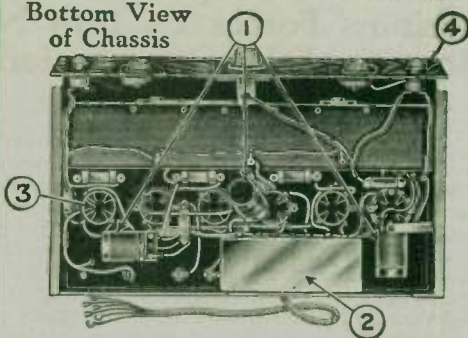
Bear top view of Chassis. (1) All enclosing shield, all parts thoroughly protected; (2) the power tube socket; (3) cushioned detector socket. The attached cable in color code is also shown.

# SHIELDED

# SIX

With Illuminated Dial

Bottom View of Chassis



No Receiver at Anywhere  
Near the Price Ever  
Included All These Features

**Illuminated Single Dial Control**—The easiest, most simple, fool-proof operation known. One tuning knob. Illuminated dial—set can be operated in dark; also acts as signal to prevent leaving set turned on.

**All Metal Shielded Chassis**—Prevents tinkering; keeps out all microphonic noises, suppresses outside interference, produces razor-edge selectivity, keeps out dust and dirt. Each part securely anchored, assuring permanent alignment and perfect operation even after shipping long distances.

**Monroe Focalizer**—(4) New! By simple switch device, receiver is instantly changed from hair-line selectivity to "broad" for long distance volume reception. Actually makes this two receivers in one—ready to meet any broadcast conditions.

**Power Tube Operation** without alteration. Each socket plainly marked, preventing any possibility of mistake by the most inexperienced operator.

**Giant Audio Transformers**—Made with highest quality Silicon Steel cores. High inductance primaries with low ratio to bring out the true tones, registering all frequencies within reach of the human ear. Transformers are encased in special metal shield (2).

**Shock-Proof Detector Socket**—(3). Cushioned to insure perfect detection of signals. All sockets have the wiping contacts, preventing tube noises and even current flow.

**Space Wound Coils**—Monroe Coils have always been the best. These are the new type, wound on threaded Bakelite tubes, each one exactly alike—absolutely electrically and inductively correct.

**Panel**—Is metal, size 7x18 inches, richly finished in two tone Adam brown walnut with delicate, tasteful gold line trimming. Neat, dignified—it reflects the stamch, inbuilt quality of the receiver itself.

**Size of Chassis**—Panel 7x18 inches, upright. Depth of chassis 10 inches; overall width 18 inches. Fits almost all standard consoles and cabinets.

**Balanced Circuit**—One untuned Radio stage. Two stages tuned Radio, one Detector and two stages Oversize Audio amplification. Free from howls, squeals—it glides smoothly and surely into station after station.



# 12-Hour Service that is *Our Big New Home and Trained*

## Tremendous Expansion in Our Business Forces Us Into New Home and the Organization of a Greater Staff

When we started the W. C. Braun Company was organized as a clearing house for the thousands of small radio dealers scattered throughout the land who could not possibly carry the immense number of items necessary to service the average retail radio trade. We felt that an institution centering in one spot all of the tremendous number of items made by the manufacturers of radio apparatus represented the ideal distribution method for these products through the retail trade. On such a plan the small retailer would have, at his instant command, any number of the thousands of radio items in demand, so that he could supply his customers without undue delay and with positive assurance that he was getting just exactly what was wanted.

That our judgment was sound in this connection has been eloquently proven by the steady and healthy growth of our business. So, that today we believe this Company ranks among the largest distributors of radio products in all the country. Such has been the rapid expansion that, this Spring, we were forced to move out of our old building into much larger quarters and increase our staff to take proper care of the thousands of dealers who look to us for their stock.

Showing a section of aisles where goods are stored in all-steel service shelves in methodical order. Orders are filled easily, quickly and efficiently.



We invite all our dealers to visit us. Our new home has provided a grand floor Display Room and Service Counter with a skilled staff of attendants.

### A Huge Stock Always on Hand

Some conception of the enormity of stock necessary in providing such service is given by the illustration in the lower left-hand corner of this page. Here you look down the aisle of a group of immense steel service shelves loaded to the brim and overflowing with the thousands of radio items listed in this catalog. Each separate item is stored in one partitioned compartment, so that it is the work of but a few seconds for trained service men to select the items listed on your order. These items are then brought together in our centralized packing and shipping room, from whence they go to the carriers for delivery to our dealers. In connection with the skilled office force, this equipment provides the means to give twelve-hour service. This means that within 12 hours of receipt of almost any order the goods are on the way. And, as a matter of truth, 12 hours are seldom taken to perform this service.

### Special Telegraph Service

In busy seasons we maintain a special department, the function of which is to carry through, for shipping two hours after receipt all orders received by telephone and telegraph. Special service men, selected for their alertness and carefulness, are used in this work. As an example of how this service works a dealer situated in a town 150 miles distant from Chicago recently wrote us:

"The tires and other items for which I wired yesterday were received late this afternoon. I have been trying to figure out just how you did it, as I had figured that it would take from two to three days at least before this merchandise would reach us. You may rest assured that we greatly appreciate such extraordinary service and hereafter we will concentrate all our orders with your good Company."

### No "Job Lots" or "Close-Outs"

Because of the extraordinarily liberal discounts that we obtain for our dealers, confusion sometimes arises, making some feel that this Company might be distributing, at times, "close-outs" special jobs or job lots of merchandise. Nothing is further from the truth. This Company positively will not buy and redistribute any job lots, any obsolete merchandise or any so-called "over-stocks" simply to make a temporary showing on values. Each and every item listed and described is the original, unused, fresh product secured from the manufacturer who makes it, and enclosed in the original package just as received from the factory. Whenever you receive a shipment



# a Fact and Not Just a Promise *Organization Make it Possible*

from this Company you may be absolutely sure that it contains only new, up-to-date, reliable, standard merchandise and exactly as described and illustrated in this catalog.

## **The Greatest Value of Braun Service to the Retailer**

In the retail field profits come from quick turn-over of stock at a reasonable profit margin. The faster stock turns, the greater the returns on the investment involved. Therefore, the retailer's biggest job is to *know* what most of his customers will buy before they actually come into his store. That's where Mr. Braun and his skilled staff of merchandising experts come into the retailer's picture. From a life-time spent in this field, they have come to know those items in radio, electrical goods, sporting goods, automobile accessories and household specialties which sell the fastest. These are the items you will find listed in this catalog. There is not a single dead, obsolete item here—every one is a live, fast-moving article.

## **We Check Markets Daily**

We are your representatives in the marts of this trade. Thousands of lines and tens of thousands of items are checked by us in selecting a few fast selling numbers for our dealers. Let someone else carry the slow movers. You can't make money on them. The "long stock" policy has "killed" many an otherwise good store. We are in close daily touch with the movement of merchandise and the best prices. Our whole success depends entirely upon the prosperity of our dealers and you be positive that we leave no stone unturned to help them succeed.

## **Why Our Prices Are So Low**

In our position as distributors we are, in fact, the purchasing agents for thousands of dealers scattered up and down the land and in many foreign countries. This enables us to gather together not only the finest, best selling items but to secure them at rock bottom prices. Items are contracted for on a large scale, hundreds and thousands at one purchase. This tremendous volume permits us to arrange the lowest possible Net prices for Braun Dealers.

## **Substitutions on Orders**

In rare cases it becomes necessary to substitute, especially in cases where speedy service is desired by the customer. Our policy is not to substitute, but to send exactly the goods asked for; but if you desire a substitution in order to avoid delay, please say so on your order. Whenever substitution is so made, goods of equal or better quality are given. We aim to carry an abundance of the goods shown in our catalog to insure speedy and exacting service of just what you order.

## **Back Orders—Omissions**

In extreme cases where goods are not available from manufacturers, as sometimes happens, any omissions will be placed on "back order" and shipped later, thus giving you speedy service on the rest of your order.

We do not hold over orders, but ship immediately from stock. In a fact, the backbone of our sales policy is to serve you quickly, efficiently and satisfactorily.

## **Returned 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. All returned goods must be prepaid.

## **Terms**

Our terms are cash. This catalog goes to many customers who are highly rated yet they are willing to buy for cash to

take advantage of the big savings we offer. We ship C. O. D. to any of our old customers. Orders from new customers to be shipped C. O. D. should be accompanied by a remittance as part payment. All prices are F. O. B. Chicago or Factory and you must pay transportation charges. All prices quoted in this catalog are subject to market change. We do not anticipate that any prices will be advanced during the life of this catalog and you may be sure that we will give you the advantage of any price reductions.

## **Our Guarantee**

We back each item shown in this catalog with our own iron-clad guarantee. This guarantee is in addition to the manufacturer's guarantee and as we handle only the highest grade of standard, laboratory-tested and proven merchandise, you are assured of receiving exactly what you order.

## **Inspection of Goods**

If you desire to look at the goods you order before accepting them, if you will mark on your order blank, "Inspection of Goods Desired," we will so ship them. Such shipments, however, can only be made by Express.

## **Your Protection**

We are a responsible company. We have been established in the radio business for many years. We assure you fair treatment and square dealings.

Further than this, Uncle Sam protects you, for in selling by mail through this catalog, you are assured of the protection of the U. S. Postal Department against fraud. So don't hesitate to send full amount of remittance with order, for we will place to your credit or refund as you desire any excess amount you may send us. You can take us into your confidence with the perfect assurance that you are dealing with a reliable, established organization.

## **Leave it to Mac!**

Our Dealers will find in Mr. J. J. McGinnis, Director of Dealers Service, a fast and genial friend. Having at his command the entire staff, his whole purpose is to give the kind of service the Braun Dealer has a right to expect. On the job early and away late, his watchwords are "quick and accurate."

Leave it to Mac! He will see that your orders are accurately filled and sped on their way within from 2 to 12 hours after their receipt!

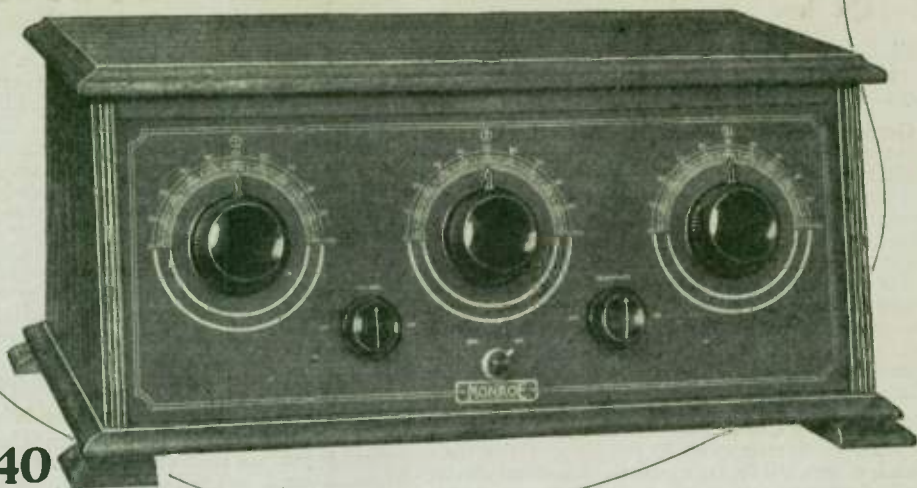




**"Only Braun Can  
Offer Such a  
Bargain"**

**MONROE  
FIVE**

**\$17.45**



**Retail  
Price \$40**

# Greatest 5-Tube Receiver Value in All the World!

## The Famous Monroe 5-Tridial

"The Monroe Five is the finest radio I ever heard for clear tone. We sold this first one as soon as it was heard."—C. R., Michigan.

"The Monroe Five works splendidly under any conditions. I would recommend it to anyone. I am going to sell Monroes exclusively from now on."—L. K. H., Ohio.

"Monroe Tridial 5 is everything you claim it to be. Hit the Pacific coast (a distance of 3,000 miles). Also tuned in Florida and Canada. Sold this one 24 hours later."—D. R., Ohio.

Thousands of these fine sets are in daily operation in all parts of this and many foreign countries. It is one of the most popular models in the Monroe line. Experienced operators know that while a bit more patience is required in tuning, that for perfect results no control has surpassed the three dial system. It permits of perfect synchronizing of the tuning circuits bringing a degree of sharpness not otherwise obtainable.

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 multiple 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.

### 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 broad-

cast 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 in great volume. Perfectly shielded, preventing interstage 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 Monroe 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! Just nice, big juicy profits for the live dealer.

### PRICE LIST TABLE MODEL MONROE 5-TUBE

**1K11459**—Set Complete, without accessories. Shipping weight, 25 lbs. List, \$40.00. Net, ..... **\$17.45**

#### For Battery Operation

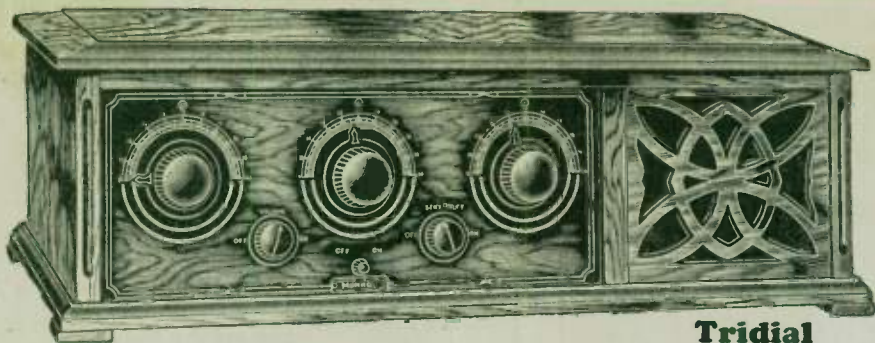
**1K11460**—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 100-Amp. "A" Storage Battery, "C" battery, two large 45-volt "B" batteries and complete Antenna and Ground outfits. Shipping weight, 120 lbs. List, \$79.50. Net, Wholesale, ..... **\$37.75**

#### For Socket Power Operation

**1K11461**—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. Shipping weight, 75 lbs. List, \$117.85. Net Wholesale ..... **\$62.75**

**1K11462**—Monroe 5 Tridial Chassis Only. Shipping weight, 18 lbs. List, \$35.00. Net, Wholesale, ..... **\$15.50**





Tridial

**\$28<sup>75</sup>**  
Retail \$65 **NET**  
**MONROE**  
**FIVE**

# The Amazing Low Price Sells It!

**Speakerette Model**  
**With Enclosed Vitaphonic Speaker**

Because of their compactness and beauty of appearance, there is a marked demand for table sets with in-built speakers. Here the idea is produced in a most elegant and charming way. One of our most popular sellers, do not fail to stock it!

Don't confuse this beautiful generous size table model with the ordinary short, cramped set often offered at near this price. This is really a magnificent piece of furniture, the case being of elegantly hand rubbed walnut, full 37 inches long, with hinged cover full length. Tastefully designed silk-faced grille.

## Vitaphonic Speaker

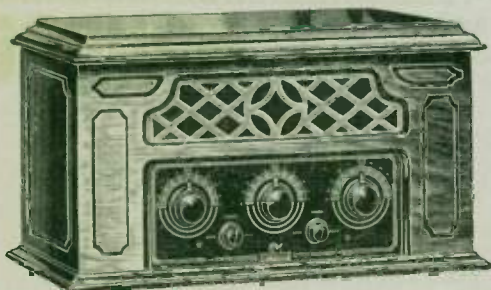
With an advanced, patented unit and a specially designed throat and horn, this speaker reproduces with absolute fidelity all the original clear, natural tones of instrument and voice. Distortionless, free of vibration, the sweetness and fullness bring a new delight to broadcast reception. Its volume is amazing!

## Famous Monroe 5-Tube Circuit

Braun engineers spent years to develop this simple, unfailing, fool-proof standard, perfectly balanced radio frequency circuit. Its powers for long-distance reception, hair-fine selectivity, ease of control and dependability have made thousands of enthusiastic fans praise it. Last audio stage will take power tube with adapter base, an exclusive feature. Solenoid type coils, the best made, costing us 2.2 times as much as ordinary coils. Straightline frequency Condensers, low ratio audio transformers, short connections.

## The Beautiful Cabinet

Made of fine quality walnut in beautiful hand-rubbed and polished finish with convenient sloping front. Panel is hand-homely engraved with gold lines on rich walnut background. Silk-lined grille at speaker end. Hinged, full length top lid. Length 37 inches.



**PRICE LIST**  
**Model Monroe 5 Tridial** **\$29<sup>50</sup>**  
List, \$75.00. Ship, wt., 70 lbs. Net.....

## For Battery Operation

**IK11491**—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$114.50. Net Wholesale.....**\$60.30**

The Monroe Five—a Marvel for Distance and Volume

## A Fast Seller!

A demonstration of this Monroe set with Vitaphonic Speaker sells it in a jiffy! Its unfailing performance will make your shop popular. Think of it! For about \$100, this fine set can be installed complete in your customer's home! Where can such a bargain be matched? Buy one sample now and sell from it and see what happens!

## PRICE LIST

### Model Monroe 5 Tridial

**IK11486**—Set Complete, without accessories. Shipping weight, 60 pounds. List, \$65.00. Net.....**\$28.75**

### For Battery Operation

**IK11487**—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. Ship, wt., 140 lbs. List, \$104.50. Net Wholesale.....**\$48.95**

### For Socket Power Operation

**IK11488**—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$142.35. Net.....**\$74.95**

**DeLuxe  
Table  
Model**

**MONROE**  
**FIVE**

## With Inbuilt Vitaphonic Speaker

Another amazing value. Seldom have we been able to offer our Dealers such an outstanding value. Only a limited number of these fine cabinets are available, and when this stock is gone we must decline further orders.

The elegance, fine workmanship, and perfect finish are impossible of description. Fashioned from rich solid walnut in two tone velvety, dull rubbed finish—Adam brown in color. The tasteful chased design has the effect of inlay—a touch distinctive of the finest furniture. Size of cabinet is: width 29 1/4 in.; depth 15 in.; height 16 1/4 in. Behind the richly designed grille is a symphonie horn with concert style unit, insuring the finest tone quality.

Set chassis described on page 12.

### For Socket Power Operation

**IK11492**—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$152.85. Net.....**\$76.30**





## Symphonic Model With Ortho-Type Inbuilt Speaker

**MONROE**  
**FIVE**  
**TRIDIAL**

Here we have this amazingly efficient 5-tube Monroe Tridial housed in a beautiful orthophonic type cabinet with a mammoth 7 foot air column speaker with giant concert unit. Its tonal quality is superb—resonant, vibrant, clear as crystal. From the boom of the bass to the trill of the soprano, from the beat of the drum to the highest violin note, there is a lifelike reproduction nothing short of entrhralling!

This beautiful console is of walnut polished and rubbed Adam brown finish. It stands 39 in. high, 27 1/2 in. wide, 18 1/2 in. deep. Around the speaker horn is sufficient space for all power units. In front of set is hinged fall—convenient arm rest in tuning when open, a protection to the set when closed.

### Price List Symphonic Model Monroe 5 Tridial

IK11503—Set Complete, without accessories. List, \$125.00. Net ..... \$59.60

### For Battery Operation

IK11504—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$164.50. Net Wholesale..... \$79.90

### For Socket Power Operation

IK11505—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$202.85. Net..... \$104.90

**MONROE**  
**FIVE**  
**TRIDIAL**

## Console Model With Inbuilt Speaker

Stop all competition with this beautiful and highly popular model! One of the biggest values ever offered in a quality 5-Tube Console model radio set. Made of selected walnut rubbed and polished Adam brown finish. Stands 40 in. high, 27 in. wide, 14 in. deep. Fitted with finest console type cone speaker made for us by one of the most noted speaker manufacturers.

### Price List Console Model Monroe 5 Tridial

IK11506—Set Complete, without accessories. List, \$70.00. Net ..... \$37.75

### For Battery Operation

IK11507—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$109.50. Net Wholesale..... \$58.00

### For Socket Power Operation

IK11508—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$147.85. Net..... \$83.00



## Spanish Hi-Boy Console Model With Inbuilt Vitaphonic Speaker

**MONROE**  
**FIVE**

Inspired by the rich old Spanish period designs, this magnificent console is much in vogue. The finest American walnut veneers are used with choice burl grain front. Rich polychrome overlays decorate the front doors. Stands 48 in. high, 25 in. wide, 14 1/2 in. deep. Extra large battery compartment 21x11x12 inches. Behind the pleasing grille is a long tone travel horn of the orthophonic type, with concert unit,—tremendous volume with full rounded, sweet, lifelike reproduction of all notes.

The set is the Monroe 5 Tridial, a detailed description of which appears on page 12.

### Price List Hi-Boy Model Monroe 5 Tridial

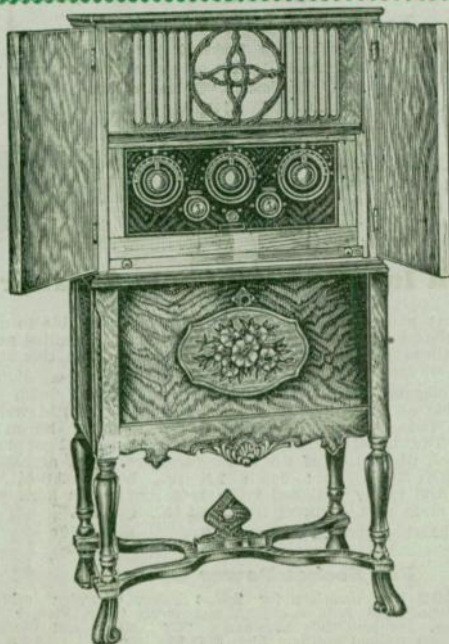
IK11509—Set Complete, without accessories. List, \$140.00. Net..... \$69.50

### For Battery Operation

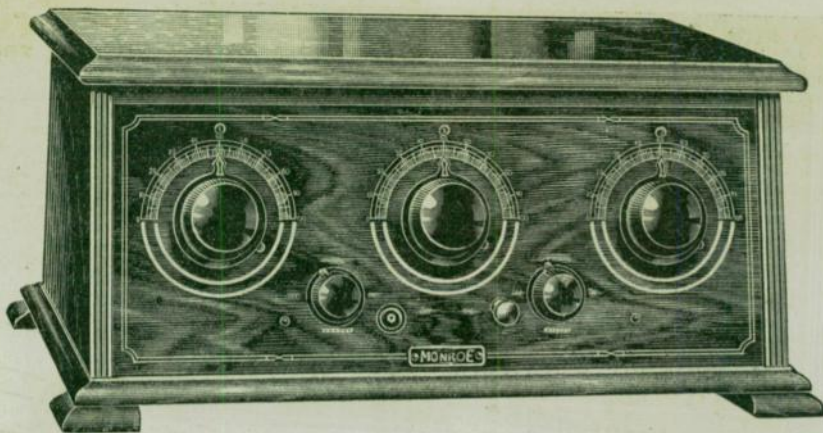
IK11510—Set Complete with All Accessories for Battery Operation including five matched 201A type tubes, one Pioneer 120-Amp. "A" Storage Battery, "C" battery, two large 45 v. "B" batteries and complete Antenna and Ground outfits. List, \$179.50. Net Wholesale..... \$80.80

### For Socket Power Operation

IK11511—Set Complete for Socket Power Operation including four matched 201A type, one 112A type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" battery and necessary Antenna and Ground outfits. List, \$217.85. Net..... \$114.80







**MONROE  
FIVE**

## Dry Battery Operated for UX-199 Dry Cell Tubes

In the country or small town where it is inconvenient to recharge Radio A storage batteries, or in city apartments where there is danger of damaging carpets, furniture, etc., with sulphuric acid spillage from storage batteries, we recommend Monroe Dry Cell Radio Receivers.

This receiver will equal in volume of radio reception and selectivity, any tuned radio frequency or neutrodyne receiver that uses an equal number of storage battery tubes (UX-201-A).

### Uses Dry Batteries Only

This Monroe Radio Receiver uses dry cell batteries only to supply electric current for its operation.

Six ordinary dry cells wired in series parallel will supply "A" current for 175 to 200 hours of intermittent service.

Two large size 45-volt "B" batteries will last from eight months to one year in average use, and a small 4 1/2 volt "C" battery will last for more than a year.

### A Permanent Radio Installation

These Dry Cell Tube Monroe Radio Receivers are sturdily built, log accurately, tune easily, cost very little to operate, and are a thoroughly satisfactory radio receiver when installed and operated according to the simple directions furnished with each receiver.

Long distance reception and clear pleasing tone quality is better with the Monroe Radio Receiver, for the reason that dry cell tubes (UX-199) are better radio frequency amplifiers and will pick up and bring in with good volume, the weak radio waves from distant broadcasting stations. Low ratio audio frequency transformers and the splendid balance of each individual part in relation to every other part in the receiver, results in true tone reception that adds a great deal to the pleasure every user will get from a Monroe installation.

### Monroe Specifications

Five tube receiver using two stages of tuned radio frequency amplification, detector, and two stages of audio frequency amplification. Engraved metal panel, 7x18 in. in size, Bakelite dials and knobs, straight wave line condensers, Bakelite spring mounted sockets, special wound and mathematically correct radio frequency transformers, special oversize two to one ratio audio frequency transformers, flexible wiring throughout the entire circuit, and plainly marked flexible leads for all battery connections.

1K11495—Monroe Dry Cell 5-Tube Receiver Table Model, without accessories. Shipping wt., 35 lbs. List, \$50.00. Net wholesale .....\$22.50

1K11496—Cabinet Model, complete with all accessories including 4 type 199 Amplifier tubes, 1 type 120 Power tube, 4 1/2 v. "C" battery, 2 large size 45 v. "B" batteries, 6 Dry Cell "A" batteries, complete antenna and ground outfits. Shipping wt., 80 lbs. Retail List value \$76.50. Net wholesale.....\$37.25

### Spinet Desk Model

**MONROE  
FIVE**

**Dry Battery  
Operated**

**With Inbuilt Speaker  
For 199 Dry Cell Tubes**

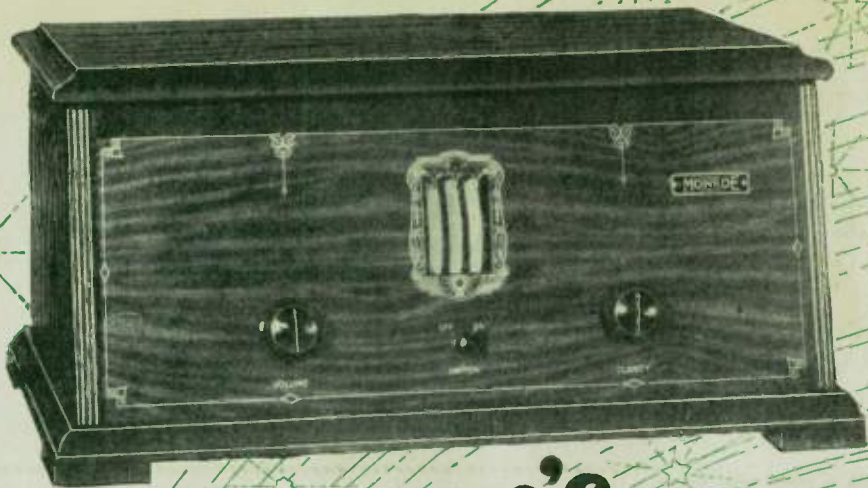
Here we have the Monroe Dry Cell 5-tube Receiver housed in a charming Spinet Desk. Women especially like this beautiful model because of the grace and refinement it reflects. Genuine walnut in rubbed and daintily high lighted finish. It stands 36 in. high, 40 in. wide, 16 in. deep. Drop leaf front. The grille conceals a horn type speaker of exceptional efficiency which coupled with the fine audio system of the set gives wonderful volume and tone quality.

1K11493—Monroe Dry Cell 5-Tube Receiver Spinet Desk Model, without accessories. Shipping wt., 105 lbs. List \$100.00. Net.....\$52.50

1K11494—Spinet Desk Model, complete with all accessories including 4 type 199 Amplifier tubes, 1 type 120 Power tube, 4 1/2 v. "C" battery, 2 large size 45 v. "B" batteries, 6 Dry Cell "A" batteries, complete antenna and ground outfits. Shipping wt., 135 lbs. Retail List value \$126.50. Net, wholesale .....\$67.25

**Sell Dry Battery Sets Where Electric Current Is Not Available**





# This Season's Sensation!

## Easier Tuning Finer Selectivity



**Drum Dial**

**Two Remarkable Features Distinguish This Wonderful New Set—The Simplified Drum-Dial and the Strength of Tone Accomplished by the Scientific Combination of the Monroe Solenoid Coils and Generous Size Low Ratio Audio Transformers**

It makes the ideal set for demonstration purposes in the store, because of the great volume and ease of tuning. This type of set has taken the country by storm and we urge all our dealers to get behind it and reap the harvest of quick profits.

This improved Monroe Circuit—the Vitaphonic—bids fair to open an entirely new standard of quality in this class of radio. It is the result of years of study, experiment and development in our own manufacturing laboratories.

### "Only Braun Can Offer Such a Radio Bargain"

Serving as we do thousands of dealers all over the land, we have been able to apply the principle of mass production to these fine precision radio instruments with the result that costs have been cut to pieces. Instruments, parts, panels, cabinets, are used in huge quantities, each exactly alike to the tiniest fractions of mechanical measurement. Thus economies are effected which mount into many dollars on the completed set. That is the reason Braun prices are seldom if ever matched by any other make—quality for quality.

### Its Rich Appearance

The elegance of the case, the richness and simplicity of the panel, the nicely proportioned arrangement of controls and the general air of beauty of this very compact set give it a most captivating and charming appearance, remarked by all who first view it. This marks a distinct advantage in selling as you well know. Then, lift the lid. The neatness and thoroughness to the little details of making are instantly apparent. "A fine set" is the instant impression.

### The Vitaphonic Circuit

Not the ordinary 6-tube radio frequency circuit is this. Developed in our own laboratories we believe it a distinct

advancement toward perfection in radio reception. Its basis is the perfectly constructed solenoid coil, with primary inside secondary, a coil pronounced the best by the Bureau of Standards and which cost us 2.2 times as much to make as the ordinary coil usually found in this class of receiver. No oscillation, no squeals or howls, yet razor-edge selectivity and a tremendous full volume.

An additional feature is that the last stage of audio is arranged for the use of the Power Tube, with adapter base, a characteristic not often found in sets of this price class. This is a big talking point, because the power tube is growing in popularity.

### Constructional Details

The cabinet is made of fine walnut, richly hand rubbed and polished; harmonizes with all types of furniture. The panel is of heavy metal in rich walnut grain finish with gold lettering and etching. This metal panel serves as an effective shield, thereby increasing selectivity and freedom from much interference.

The localized drum control unit is a masterpiece of engineering craft. It operates the three precision made variable condensers which tune the circuits. So ingenious is this device that all three condensers may be moved in unison or any one separately, all with one hand. It is the most advanced type of tuning control.

There are three stages of audio with power tube in last stage, if desired. The low ratio transformers are of the newest improved design, made in our own laboratories, especially for this circuit. Thus you have tremendous volume with absolute fidelity of tone reproduction, sweet, clear, life-like, over the entire scale.

Straight line frequency condensers made true and perfect, insure accurate logging of stations night after night. This is a strong talking point in the sale of this fine receiver. Laboratory type sockets with positive wiping contacts for 201A type tubes.

Sum up all these features. Then make comparisons with any similar receivers in the market. You cannot make a mistake by choosing this wonderful set as your leader.



# New MONROE SIX Drum Dial Control 6 Tube Vitaphonic

## Price List Table Cabinet Model

**IK11477**—Set Complete without accessories. Shipping wt., 35 lbs.  
Retail Price, \$60.00. Net Price Wholesale.....**\$32.95**

### For Battery Operation

**IK11478**—Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 155 lbs.  
List, \$109.95. Net.....**\$59.70**

### For Socket Power Operation

**IK11479**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 120 lbs. List, \$141.70. Net.....**\$78.70**

## THE CONSOLETTTE MODEL MONROE Drum Dial Control Six

This charmingly neat, compact console has become instantly popular. It offers the modestly situated family opportunity to enjoy both the beauty and enjoyment of good radio equipment. Made of American walnut in rich Adam brown finish. Stands 40 in. high, 27 in. wide, 14 in. deep. Behind the tastefully designed grille is a special one type speaker with a giant unit, providing room-filling volume with absolute fidelity and sweetness of tone. Sufficient space is provided in lower section for all power units. The set is the now famous Monroe Six Drum Dial Control as described above.

### Price Console Model

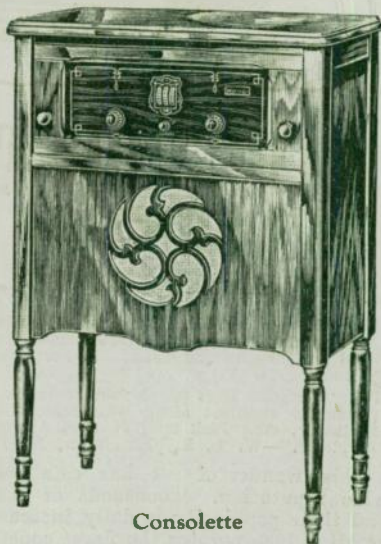
**IK11480**—Console Model Complete with inbuilt speaker, but without accessories. List, \$110.00. Net.....**\$54.50**

### For Battery Operation

**IK11481**—Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping wt., 185 lbs.  
List, \$159.95. Net.....**\$81.25**

### For Socket Power Operation

**IK11482**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" Batteries, necessary Antenna and Ground outfits. Shipping wt., 165 lbs. List, \$191.70. Net.....**\$99.75**



Console

The demand of today is for easy, simple, reliable tuning. In this wonderful Monroe you have this feature brought to its highest development. Capitalize on this popularity by making this fine set your leader. Stock three or four quick! They will move fast! Because quality of materials and craftsmanship considered, this set is unmatched in value on the American market.

## SPINET DESK MODEL MONROE Drum Dial Control Six

As fine and beautiful radio set as anyone might reasonably wish for is this pretty spinet desk Model. A most pleasing design in rich Adam brown rubbed, polished and high lighted walnut. The best of cabinet workmanship distinguishes it as a fine piece of furniture. Stands 36 in. high, 40 in. wide, 16 in. deep. It has an excellent horn type inbuilt speaker which gives roomful volume with beautifully faithful and lifelike reproduction. All are amazed who hear it.

The set is the Monroe Drum Dial Control Six described above and on opposite page.

### Price List

**IK11483**—Spinet Desk Model Complete with inbuilt speaker, but without accessories. List, \$125.00. Net.....**\$62.50**

### For Battery Operation

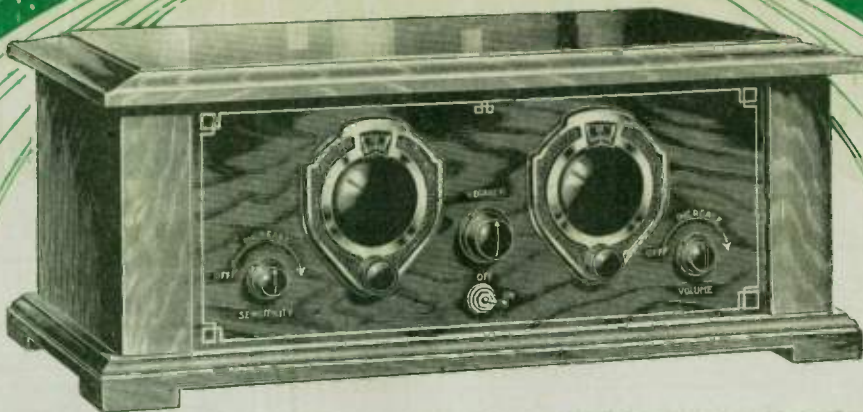
**IK11484**—Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping wt., 195 lbs.  
Retail Price, \$174.95. Net Price Wholesale.....**\$89.25**

### For Socket Power Operation

**IK11485**—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, "C" Batteries, necessary Antenna and Ground outfits. Shipping wt., 175 lbs.  
List, \$206.70. Net.....**\$98.25**



Spinet Desk



# The Outstanding Radio Value in America Today!

## Tudial Cabinet Model

# MONROE SIX

# \$23.85

NET

"I have logged forty different stations, including every Chicago station. Have ranged from New York to Los Angeles and Canada to Fort Worth."—H. S., Buffalo, N. Y.

"Certainly lives up to your recommendations. Volume is excellent along with selectivity, tone, sensitivity, etc. Pick up KFI (Los Angeles) with good volume."—W. L. R., Jamestown, N. Y.

This wonderful set has established a nationwide reputation. Thousands of them are in use and their popularity is daily increasing. In every detail it incorporates the finest construction experienced engineers are able to devise. Every part of it is the best obtainable and no expense is spared to make it, just as the above dealer says—"as near perfect as radios are built."

The two dial tuning control has positively proven itself through years of practice. It is in fact as easy to tune as a one dial, the operator quickly learning to synchronize the action of the two hands. The tuning is obviously sharper, making for the keenest selectivity.

The Panel is genuine bronze, rich walnut grain finish with gold etched trimmings and lettering. Being metal, it acts as an effective shield, insuring better selectivity and freedom from much interference.

**The Condensers** are precision-built straightline frequency. Their design insures equal spacing of stations without crowding at either high or low wave lengths. The single condenser is used to tune the antenna circuit. The dual condenser tunes the two radio frequency circuits. The units of the dual condenser are perfectly balanced by means of an ingenious adjustment. In addition, there is provided a separate Vernier condenser with control on front of panel, which provides for easy adjusting and balancing of the circuit under most extreme conditions.

**High Efficiency Coils**—The Solenoid coils used in this set have been proved in dozens of scientific testing laboratories to be the most efficient all around coils it is possible to use. They cost much more than ordinary coils but the results are worth it. Silk-covered wire wound on bakelite tubing. The two R. F. coils have the primary inside the secondary, a method, while more expensive, insures greater power with less tendency toward oscillation.

**Razor Edge Selectivity**—Careful arrangement of circuits with precision in construction and no interstage coupling assures rare selectivity, freedom from internal noises, and greater volume.

**Two Handed Vernier Controls** for tuning are provided with two Vernier controls on front of panel. These controls are smooth and accurate and are the only controls to be adjusted when selecting stations, making tuning easy and rapid, with two-handed simultaneous adjustment.

**Three Audio Stages** with power tube in last stage. Provides maximum volume with pure tones. Any volume you desire from a whisper to a roar with absolutely undistorted tones. The additional audio stage using low ratio transformers throughout and a power tube in the last stage, provide the greatest amplification obtainable. This is especially desirable when tuning distant stations that otherwise might be too weak for satisfactory reproduction.

**Cable six feet** long is provided for making all connections to batteries. This is a great convenience and makes connecting up simple and easy.

**For Volume, Selectivity and Tone Quality** the essentials of a radio set—combined with beauty in appearance, the Monroe Tudial Six-tube leads all others.

### PRICE LIST TABLE MODEL MONROE TUDIAL SIX

IK11466—Set Complete, without accessories. List, \$55.00. Net Wholesale..... **\$23.85**

#### For Battery Operation

IK11467—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground Outfits. List, \$104.95. Net Wholesale..... **\$50.60**

#### For Socket Power Operation

IK11468—Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground Outfits. List, \$136.70. Net ..... **\$69.60**

IK11469—Monroe Single Control Shielded Six Chassis only. List, \$45.00. Net Wholesale..... **\$19.95**



# The Tudial MONROE SIX

## in the Beautiful Seville Console

This should be the most popular model for those of your customers who want a really fine radio receiver. Nor is it expensive! Takes but little extra effort to sell this class of set and it means a bigger profit to you!

The console is a real masterpiece of fine cabinet making from the very finest materials. Its design was inspired by the old Spanish treasure chest, as indeed it is! It houses behind the beautiful scroll grille the large 86 in. Newcombe-Hawley orthotype speaker, famed throughout the world as the ideal radio reproducer. The exterior is of choice 100 per cent figured and matched butt walnut in dull rubbed natural brown color. A distinctive touch is the tastefully ornate Spanish type hardware. Richly carved. Dimensions: Height 42 in., width 36 in., depth 16 in.

The receiver is the great Monroe Six Tudial, known everywhere for its outstanding achievements. For beautiful tonal value, long distance range, stability and ease of control, it has no superior. Ask any of its thousand of users scattered up and down the land.

Don't be fooled! There are cheaper two dial sets on the market. Their first purchase price might show a saving of two, three or five dollars, but they cannot compare with the Monroe. The public wants quality and are willing to pay for it. The Monroe represents the greatest value ever offered.

Detailed description of this wonder receiver chassis is given on page 18.

### Price List Seville Console Model Monroe Tudial Six

1K11522—Set Complete, without accessories. Shipping wt., 110 lbs. List, \$195.00, Net Wholesale....\$115.00



Console by Pierson

### For Battery Operation

1K11523—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 195 lbs.

List, \$244.95. Net Wholesale.....\$141.75

### For Socket Power Operation

1K11524—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 175 lbs.

List, \$276.70. Net.....\$160.75



**We Help You Sell  
the Greatest Possible  
Number of Monroe Sets**

**See Page 22**

### For Battery Operation

1K11526—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4 1/2 v. "C" batteries, three large 45 v. "B" batteries, and complete Antenna and Ground outfits. Shipping wt., 180 lbs.

List, \$159.95. Net Wholesale.....\$80.25

### For Socket Power Operation

1K11527—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4 1/2 v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 145 lbs.

List, \$191.70. Net.....\$99.25

# The Tudial MONROE SIX Spinnet Desk Model

A worthy setting for this marvelous receiver is this charmingly graceful Spinnet desk. A marvelous loud-speaker is built behind one of the attractive grilles. At the other end is space for batteries or power units. Made of genuine walnut, hand rubbed and high lighted crown finish. Size overall: 40 in. long, 16 in. deep, 36 in. wide. You can sit before it and tune with ease, the drop leaf acting as arm rest. A novelty set like this is easy to sell—put a demonstrator on your floor!

Detailed description of set is given on page 18.

### Price List Spinnet Desk Model Monroe Tudial Six

1K11525—Set Complete, without accessories. Shipping wt., 100 lbs.

List, \$110.00, Net Wholesale.....\$53.50

See Page 7 for Explanation of Accessory Outfits

Page 19



# The Tudial MONROE SIX

## Tudor Console Model

This elegant Monroe Six in Authentic Tudor Period Console has proven one of our most popular models. Our dealers are reaping a harvest with this magnificent set. It represents all that anyone might wish for and at a price far below anything of equal high quality in the market today.

The console is of the Highboy type constructed by skilled furniture artisans of three and five ply panel construction. The top and front have four way butt walnut design effect, beautifully matched. Satin rubbed walnut finish. Across top is strip of genuine imported inlay wood marquetry.

A full floating loud speaker horn of best quality and tone is built into the console back of the attractive grille. The set is fitted into a sliding tray allowing the instrument to be pulled out for inspection. The dropleaf entirely encloses the set when not in use and serves as an arm rest when tuning the set.

Size of console overall 45 inches high, 27½ inches wide, 14 inches deep.

### Monroe Tudial Six

A set incorporating the accepted proven developments in prime radio construction. Every part in detail is of finest quality and the assembly is executed by skilled engineers.

There are three stages of perfectly balanced low ratio audio transformers—the instruments made in our own laboratories especially for this circuit. This gives exceptional volume with absolute clarity and sweetness of tone. More details of construction of this wonder set is given on page 18.

### Price List Model Monroe Tudial Six

IK11515—Set Complete, without accessories. Shipping wt., 120 lbs. **\$59.95**

List, \$125.00. Net Wholesale.....

### For Battery Operation

IK11516—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 210 lbs. **\$86.70**

List, \$174.95. Net Wholesale.....

### For Socket Power Operation

IK11517—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 180 lbs. **\$106.70**

List, \$206.70. Net.....



You will find this set to be the most popular console style you can offer. It strikes your average buyer—the right price and an outstanding bargain by comparison.

## The TUDIAL

# MONROE SIX

## Symphonic Console Model

There's a treat in store for all those who have not heard this wonderful receiver through the great 84 in. tone travel orthophonic type reproducer which is inbuilt in this model. Three stages of low ratio audio amplification in conjunction with this concert unit equipped speaker brings an amazing volume and naturalness.

The cabinet has that grace and symmetry of line that endears it to the lovers of fine furniture design. Made from choice walnut, hand rubbed and polished finish. Stands 39 in. high, 27½ in. wide, 18½ in. deep. Plenty of space around speaker for all power units.

Details of the set construction are given on page 18.

### Price List Symphonic Model Monroe Tudial Six

IK11519—Set Complete, without accessories. Shipping wt., 110 lbs. List, **\$135.00**. Net Wholesale..... **\$66.00**

### For Battery Operation

IK11520—Set Complete with All Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ v. "C" batteries, three large 45 v. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 215 lbs. **\$92.75**

List, \$184.95. Net Wholesale.....

### For Socket Power Operation

IK11521—Set Complete for Socket Power Operation, including four 201A type, one 200A type, and one 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ v. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 195 lbs. List, **\$216.70**. Net..... **\$112.75**

List, \$216.70. Net.....



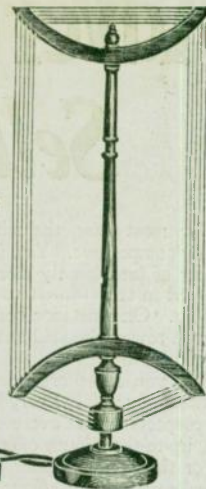
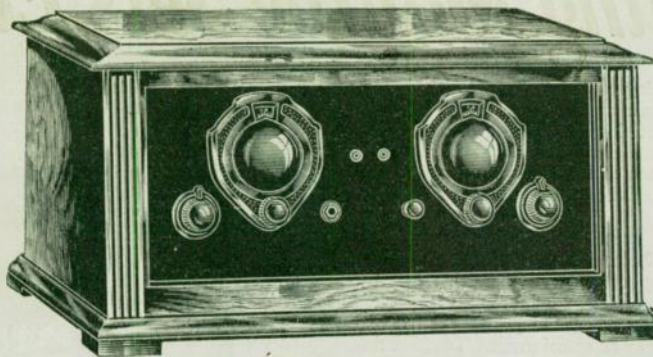


**MONROE  
EIGHT**

# LOOP SET

## No Outside Aerial Required

Monroe  
Advertising  
Service  
Helps Dealer  
to Big Sales  
in His  
Territory.  
See Page 22



Here is a set that operates on a loop aerial. No outside antenna is required. It will equal in results the best sets using outside antenna. No desirable feature has been sacrificed in attaining this result. The volume, tone, and selectivity are sure to satisfy the most critical.

It produces tremendous volume even from distant stations. Because of this volume it can be operated far below the oscillation point, thereby producing reception with a pleasing naturalness of tone. The great volume also permits of a wider range of usefulness by providing good daylight reception and good summer reception. You can depend on the Monroe-Eight for real reception any day or night of the year.

Tuning is exceptionally sharp. While using the set in Chicago no difficulty is experienced in tuning through Chicago stations. This is exceptional performance, as Chicago is the most congested Radio district in the country.

The Monroe-Eight can be used with either storage battery Type 201A tubes or dry cell type 199 tubes. It is arranged to use power tubes type 171A or type 120. Storage battery tubes are recommended to be used whenever possible.

The circuit used is a new application of thoroughly proven radio principles. There are three stages of tuned radio frequency, two stages of untuned radio frequency, detector and two stages of audio frequency amplification. Covers all broadcast wavelengths 200 to 550 meters. Completely shielded. Has two vernier controls, making tuning extremely simple and very rapid. Stations are widely separated by means of the straight wave line condensers. Only the finest grade of materials used throughout. All newest conveniences are provided. A Yaxley cable for all battery connections is furnished. This makes connecting up simple and sure.

The cabinet has genuine solid Walnut top and sides elegantly finished. The loop included is one of the finest and most efficient made.

Many of your customers will prefer this set because of the great convenience provided through loop operation. Home demonstrations are easily made and you can always depend on a satisfactory demonstration.

### Price List Table Model Monroe 8

1K11512—Monroe Eight Table Model with loop, but without accessories. Shipping weight, 40 lbs. Retail list, **\$87.50**  
\$175.00. Net, Wholesale.

#### For Dry Cell Operation

1K11497—Table Model, Complete with loop and all accessories for Dry Cell operation, including seven matched 199, one 120 type power tube, one 4½ volt "C" battery, three large 45 v. "B" batteries, nine Dry Cell "A" batteries (to be wired in multiples of 3). Shipping weight, 125 lbs. Total Retail Value, \$239.50.  
Net, Wholesale **\$107.00**

#### For Storage Battery Operation

1K11498—Table Model, Complete with loop and all accessories. For storage battery operation, including six matched 201A type, one 200A type power detector, one 112 type power amplifier tube, one 4½ v., one 22½ v. "C" batteries, three large 45 v. "B" batteries, one 120 ampere Pioneer Storage "A" battery. Shipping weight, 160 lbs. Total Retail Value, \$231.50. Net, Wholesale **\$117.00**

## The Caravel Console

**MONROE  
EIGHT**

## LOOP SET

The finest in loop operated radio. This magnificent Set combines two popular features: the charming Spanish design and the great Newcombe-Hawley Orthotype 84 inch tone travel in-built speaker with Baldwin Concert Grand Unit. This marvelous speaker brings the last word in reproduction covering the entire tonal register faithfully, in greatest volume, resonantly, vibrantly! Finest cabinet construction from selected figured walnut, hand rubbed finish. Stands 42 in. high, 30 in. wide, 20 in. deep. With the wonderful 8-tube Monroe Loop Set as described above, this magnificent console makes as fine a radio set as anyone might hope to possess.

### Price List Caravel Console Model Monroe 8

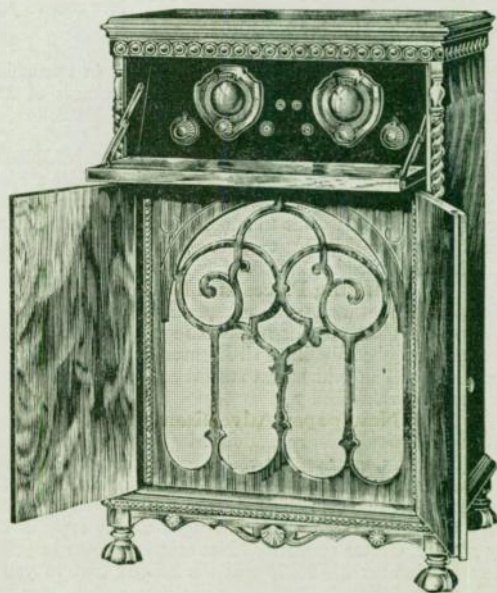
1K11499—Set complete with loop, but without accessories. Shipping wt., 145 lbs. Retail list, \$325.00. Net wholesale, **\$177.50**

#### For Dry Cell Operation

1K11500—Complete with loop and all accessories for Dry Cell operation, including seven matched 199, one 120 type power tube, one 4½ volt "C" battery, three large 45 v. "B" batteries, nine Dry Cell "A" batteries (to be wired in multiples of 3). Shipping wt., 215 lbs. Total Retail Value, \$359.50. Net, wholesale, **\$197.00**

#### For Storage Battery Operation

1K11501—Complete with loop and all accessories. For storage battery operation, including six matched 201A type, one 200A type power detector, one 112 type power amplifier tube, one 4½ v., one 22½ v. "C" batteries, three large 45 v. "B" batteries, one 120 ampere Pioneer Storage "A" battery. Shipping wt., 250 lbs. Total Retail Value, \$361.60. Net, wholesale, **\$207.00**



# Advertising Service that Makes Selling Monroe Sets Easy

Like most lines, the selling of radio receivers has become highly competitive. Yet, in most cases, success in selling is a matter of intelligently directed effort. Many of our dealers, situated in the smallest towns, have hung up amazing selling records. One instance comes to mind of a Dealer in a small Eastern town who sold ten of the higher priced models in one month!

But, you must organize your selling campaigns and keep everlastingly at it! Every Dealer should build up a mailing list of prospects and at every opportunity circulate that list with live, up-to-the-minute offers of sets, supplies and accessories.

For the average dealer, the expense of printing is too high to make such selling efforts pay an actual profit. To offset this, we co-operate with our dealers in furnishing sales literature of many types, at the actual bare cost of quantity production. And, in many instances, special folders and circulars may be obtained FREE from the manufacturers. We secure these on request, wherever possible.

We maintain here a special Sales Promotion Service for the use of all Braun Dealers. It is the duty of this Division to see that every Braun Dealer is given all assistance to make the best of his opportunities. Call on this Division at any time for counsel and assistance in solving your advertising and selling problems.

You must put up the right "front" to get your share of the business. This means an attractive letterhead, good cards and a certain amount of general or publicity advertising. By purchasing these supplies through our Sales Promotion Division, you are saved the cost of cuts and expensive preparation costs and pay only for the actual expense we incur for printing and paper.

## Two-Color Letterheads and Envelopes

Two-Color letterheads, size 8½x11 inches, white paper, with the MONROE trade mark in two colors at top and imprinted with your name and address, in packages of 200. Net cost to you, \$2.50. Order by Number 25K20101. Envelopes, No. 6 size, with your name and the MONROE trade mark imprinted thereon, in packages of 200. Net cost to you, \$2.50. Order by Number 25K20102.

## Two-Color Business Cards

Business cards with MONROE trade mark in two colors and your name and address imprinted, in packages of 200. Net cost to you, \$2.50. Order by Number 25K20103.

## Your Own Movie Slide

This shows one of the Console Models of the MONROE line, in a beautiful color combinations, and provides a space for your name and address at the bottom. Be sure to state clearly just what you want to appear, so that we can have it printed in before shipping to you. Net cost to you, each, 75c. Order by Number 25K20104.

## Mailing Pieces and Folders

From time to time, we issue special folders and mailing pieces on the most popular numbers in the MONROE line. These are furnished FREE to all Monroe Dealers. Be sure to state the model in which you are interested in pushing and how many we shall send you.

## Newspaper Advertisements

We furnish for newspaper advertising, a complete made up electro or matrix, mortised for your name at the bottom, which the newspaper will set in for you without cost. These ads are 6 inches on two columns and make a most striking appearance. Determine from your newspaper which type of cut they require, electro or matrix. Net cost of electro to you is 50c each, Number 25K20105 and the Matrix cost to you is 30c, Number 25K20106.



## The MONROE Retail Book Shows Retail Prices Only

## Furnished FREE to Monroe Dealers

This book contains the complete MONROE line, beautifully illustrated and printed. It shows only the retail prices, so that you need not disclose to your customers your own wholesale net cost. They are invaluable for counter use and for mailing out to your list of prospects. They also show our complete line of consoles and cabinets and many numbers of Loudspeakers, Power Units, Batteries and other Accessories.

The book contains special sales talk directed to the consumer, so that even after you have solicited a prospect and failed to close, you can hand him one of these books to look over. You then have a good excuse to approach him again. Many hard sales are closed in this way.

## Big Extra Profits in Accessories

Don't overlook the big market for good accessories. There have been great developments in loudspeakers, power units and other radio receiver accessories during the past year. Many set users are stumbling along with improper batteries and indifferent speakers. A little extra effort will "turn up" these logical prospects for up to date equipment. Go after them. The margin in these lines is great and an unlimited opportunity is afforded every dealer in this quarter.

**SELL CONSOLES!** There are many folks who have a "pet" table model receiver who could easily be talked into placing it in a good console. In this book, you will find listed on pages 107 to 117 the greatest array of fine consoles and cabinets ever offered by any distributor. And, at the prices listed, they offer you a margin of profit that is most attractive. The unit of sale is a big one and no greater opportunity for really big returns is given the dealer than in the sale of consoles.



# MU-RAD

## SUPER-SIX RECEIVER

Their Beauty  
Sells  
Them!

Here is a nationally advertised line of radio sets we are proud to offer our Dealers. They meet the demand for both beauty of appearance and efficiency of operation. Any of the models listed instantly assert their appeal before the prospect even thinks of wanting to hear them play. One of the earliest sets ever manufactured, Mu-Rad has enjoyed a consistent and increasing popularity. Today it ranks with the leaders in refinement of construction and in widespread public demand.

This year's Mu-Rad Receivers are all of the six tube type with highly refined radio and audio amplification with special attention given to high quality reproduction of music and speech. They all employ power tubes. All models are interchangeably operable either from batteries or from the Mu-Rad

**Their  
Performance  
Keeps Them Sold!**



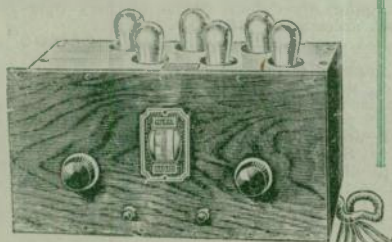
THE  
CONSOLETTA

Recto-Filter power equipment from the electric light socket. For beauty and reproducing qualities, the Mu-Rad Super-Six receiver has few equals.

### All Metal Chassis

Two Radio Frequency amplifier Stages, detector and three stages of double impedance audio amplification, brought to a high stage of development. Completely shielded, interfering electrical disturbances and inter-stage coupling being effectively excluded. The audio system is remarkable, effecting a uniform response throughout the entire broadcast range. The tone quality is delightfully beautiful. Control is extremely simple—control knob. No verniers or trimmers are necessary for precise tuning. Each set is pre-tuned and balanced, they log perfectly. Volume control is through the filament on the R. F. stages—a refinement of engineering which prevents overloading of audio tubes, thus speech and music is always reproduced with clean cut fidelity. So perfectly made and adjusted, these sets are non-oscillating and non-squealing. Their operation is uniform over the entire wave band. A special feature is an output filter incorporated in the receiver to keep heavy plate voltages out of the loud speaker. The selectivity is extremely sharp. The sensitivity or distance range is actually amazing. Panel size, 9 x 17 1/4 inches; depth, 11 1/4 inches. Ship. wt., — lbs.

**IK11337—Chassis only for battery operation.** List, \$52.00. Net, each, **\$55.20**



### THE CONSOLETTA MODEL

The richness and consummate beauty of this unusual model make a fitting addition to the most finely appointed home. An authentic Adam period design with the symmetry and grace of line that has endeared this style to lovers of fine furniture for years. It is distinguished by the gracefully turned and fluted legs and the rich burl overlays. (Choice selected walnut is used in a beautiful lacquer finish, rubbed to velvety smoothness. The tall front forms an arm rest when tuning and shuts set away from dust and dirt. Overall dimensions: 36 inches wide, 15 inches deep, 41 inches high. Fitted with the famous all metal, completely shielded 6-tube chassis (you have choice of battery or all electric operation). In the all electric model, there are two completely shielded units built into the receiver, one providing filament and the other plate current. It employs the Tungar and UX 216 B type rectifier bulb and filter system of choke and condenser. No electrolytes or liquids of any kind are used and there is nothing to wear out or replace except the bulbs which should last about three years. This system provides a smooth, dependable flow of light socket power. They operate on ordinary 60 cycle current and are adjustable to varying conditions. There is absolutely no hum or internal noises. Shipping wt., battery model, 120 lbs.; all electric model, 170 lbs.

**IK11335—Mu-Rad Console Model Receiver for Battery operation.** List, \$172.00. Net, each, **\$103.20**

**IK11336—Mu-Rad Console Receiver for A. C. light socket power operation complete ready for operation (except radio tube, ground and antenna filament).** List, \$265.00. Net, each, **\$159.00**

### THE TABLE MODEL

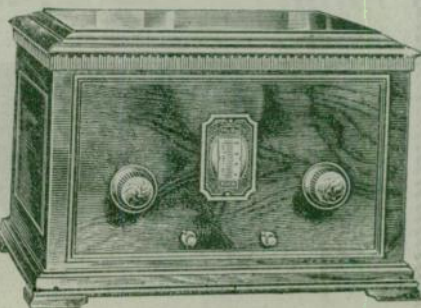
An especially attractive and finely made cabinet of choice walnut, richly finished. It measures 18 inches wide, 13 inches deep, 11 inches high. It is fitted with virtually the same chassis as the Console model except shielding is slightly different. The same 6-tube circuit is employed and is equally efficient in operation. It comes only for battery operation. Shipping wt., 40 lbs.

**IK11338—Mu-Rad Table Model Receiver, without accessories.** List, \$88.00. Net, each, **\$58.80**

### Special Sales Help

Beautiful two-colored folders describing these wonderful receivers in detail will be furnished a my Dealer gratis who signifies his intention of pushing the Mu-Rad line. Or one model as a demonstrator and a supply of this sales literature so that you may get your share of Mu-Rad Sales.

**Neat, Rich Looking Cabinet of the  
Finest Materials and Workmanship**



# The Famous

With Donle Truphonic Audio

Nationally Advertised



# Radio Receivers

Amplification and Synchronized R. F.

## Elkay Senior Six

In beauty of tone, in uniform volume on all waves, and in "needlepoint" selectivity in congested areas, the Elkay Senior Six represents the very utmost in radio, regardless of price! It embodies the new Donle Truphonic system of audio amplification, plus the Elkay Synauto R. F., which give it pure tone and a very high amplification from 200 to 500 meters, uniformly.

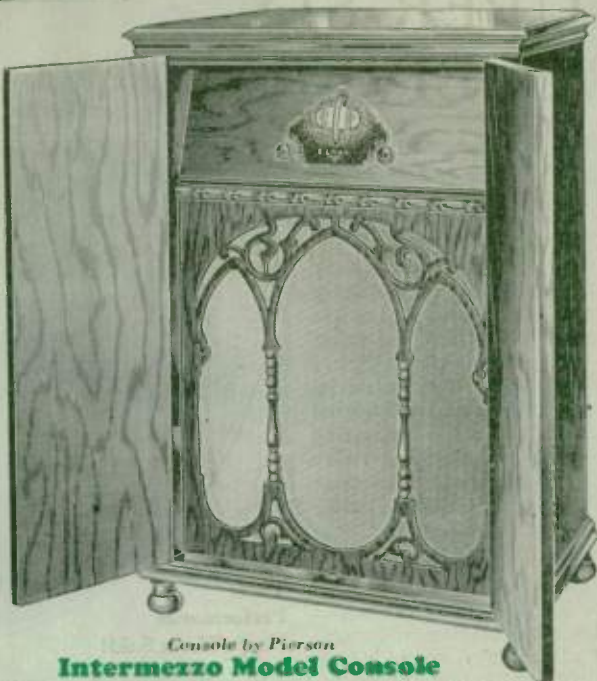
Other special features are the Elkay Tube Equalizer system of interchangeable, automatic rheostats—any combination of tubes can be used advantageously. Both the R. F. and Detector stages are shielded. A new Uni-Control has the flexibility of three dials, but tunes as easily as one. No sub-controls. "Floating" type sockets. Cable connector, plainly tabbed.

## Elkay Junior Six

The Junior Elkay Six has two stages of R. F., Detector, one stage of Transformer and two of resistance coupled amplification. The tone is full and round with ample volume for every occasion. Shielded coils, provided designing and workmanship make a well balanced, sensitive receiver. Drum dial tuning—everything under the thumb!

## Senior Electric Six

This is an "A. C." set, employing the McCullough A. C. tubes. There are no A. or B. batteries. The entire equipment is self-contained. The only outside connections are the light socket and aerial and ground. Utilizes no chemicals or eliminating devices. Employs 6 McCullough and one Raytheon B-H Rectifying tube. Operates from 100-130 volt, 60 cycle, A. C. Specially designed and made to Elkay standards of quality—unquestionably one of the best all electric receivers made.



Console by Pierson

## Intermezzo Model Console

This exquisitely beautiful Console by Pierson forms a fitting setting for the great Elkay Senior Receiver, as illustrated. Stands 42 inches high, 39 inches wide, 29 inches deep. Made from the choicest walnut, richly veneered butt walnut front with carved doors, hand rubbed and polished piano finish. Equipped with the famous Newcomb-Kaiser 34 inch tone travel orthuphonic type horn with Baldwin Grand Concert Valve. Combined with the Truphonic modification system of the receiver, this is perhaps the most perfect tuned radio ever made. Shipping weight, 130 lbs.

16K11362—Console only, with horn, but without receiver.

List price, \$125.00. Net, wholesale.

(Any of the Elkay Chassis may be fitted into this console. Make selection from price list below.)

**\$75.00**

## Cabinet Model

Magnificent table model cabinet of the finest grained walnut, hand rubbed and polished piano finish. Adam brown finish. Length 25 inches, width 14 inches, height 9 inches. Shipping weight with the Senior Model chassis, 45 pounds; with the Junior Model chassis, 35 pounds.

See Price List below for listing of these fine receivers in this beautiful cabinet.



Console by Pierson

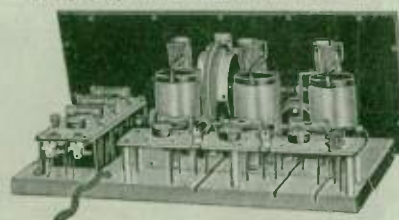
## Nocturne Model Console

Also made by Pierson with all the fine quality of workmanship, materials and finish that the name implies. Choice walnut in hand rubbed and polished finish. Stands 36 inches high, 34 inches wide and 21 inches deep. Lower section provides plenty of space for a large horn, a cume as well as all needed batteries and power units. Panel size 34 1/2 inches or smaller and set compartment is sufficiently deep to house any of the Elkay Receivers. Shipping weight, 45 lbs.

16K11324—Console only, without loud speaker and without Receiver. List price, \$75.00.

Net, wholesale.....\$45.00

(Select Elkay Chassis wanted from price list at the right.)



Senior Six Chassis

Shows  
Back  
View  
with  
Shield-  
ing Re-  
moved

## PRICE LIST ELKAY RECEIVERS

1K11317—Elkay Senior ELECTRIC SIX Cabinet Model. List, without tubes, \$195.00. Net, wholesale....\$117.00

1K11318—Elkay Senior ELECTRIC SIX Chassis only. List, without tubes, \$176.00. Net, wholesale....\$105.60

1K11319—Elkay Senior Six (Battery Operated) Cabinet Model. List, without accessories, \$125.00. Net, wholesale.....\$75.00

1K11320—Elkay Senior Six Chassis only. List, \$106.00. Net, wholesale.....\$63.60

1K11321—Elkay Junior Six Cabinet Model (Battery Operation). List, without accessories, \$80.00. Net, wholesale.....\$48.00

1K11322—Elkay Junior Six Chassis only. List, \$69.50. Net, wholesale.....\$41.20

Senior Panel size is 8 1/2 x 21 inches and chassis is 14 inches deep. Refer to pages 107 to 114 for Quality Consoles into which this wonder receiver may be installed. The Junior Panel size is 8 1/2 x 12 inches and chassis is 12 inches deep. It will also fit many of the consoles shown.

We reserve the right to decline orders for Elkay Receivers which come to us from territories now covered by Elkay Exclusive Sales Franchise.



# All Electric Six Radio Receiver

No "A" — No "B" — No "C" Batteries

## A. C. Straight Through with Kellogg A. C. Tubes—

Slow in coming, but here it is—a thoroughly reliable A. C. Electric Radio Receiver. A. C. tubes have been on the market for some time and have been accepted as practical, having reached a high point of perfection. Yet, it was quite another problem to develop a receiver that would give perfect results using these wonder tubes. We believe that this is such a receiver and we take pride in offering it to our Dealers and stand squarely behind it.

Batteries and power units are a thing of the past with this new All Electric Receiver. It is as dependable as your electric light. There are no complicated parts to get out of order. Simply plug into the light socket, turn on current, tune in and enjoy the finest, easiest reception you have ever known.

### Perfected Six Tube Circuit

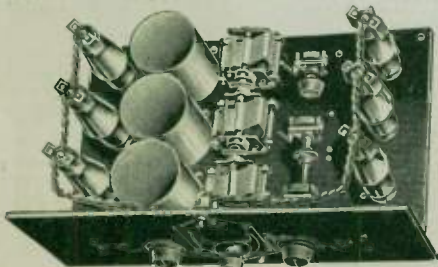
The circuit of this wonder set is a perfectly balanced, stabilized six tube arrangement, employing three stages of tuned R. F., Detector and two stages of Audio Amplification. A special A. C. Power Tube is used in the output audio stage. All tubes are the Kellogg A. C. type—no batteries of any description are incorporated. The tubes will last a long period of time and their smoothness of operation is a marvel to all who have heard this revolutionary receiver.

### Single Dial Control—Illuminated

The set is completely controlled from the panel, the current being turned on and off by a special switch. Tuning is done by a single control. Precision made at every stage, with each R. F. stage specially and separately shielded, selectivity is amazingly sharp. Station after station is brought in by the slightest turn of the dial and there is complete absence of squeals and howls. A small light brightly illuminates the dial, so that it may be tuned in the darkness. This light also acts as a signal, preventing leaving the receiver turned on when reception is finished. The illustration gives some idea of the tasteful beauty of the panel front, reflecting the simplicity which characterizes this highly perfected receiver.

### Employs Famous Kellogg Time-Tried A. C. Tubes

Shows neat, compact, workmanlike interior of this wonderful All Electric Six Tube Receiver. Note shielded R. F. stages.



Console by Superior

### Reception is Perfect!

This wonderful receiver was developed by radio engineers of long experience. It is not simply a radio set of conventional design rearranged to use A. C. Tubes. From the "ground up" it has been designed around the peculiar characteristics and operating qualities of the Kellogg A. C. tube. It is just as "quiet" as a good D. C. receiver, there is no hum, fluttering or microphonic noises of any kind to mar the sweet, even flow of reception. Great volume is possible without the slightest suggestion of distortion or "forcing" in tonal value, it is unsurpassed.

### The Beautiful Console

Such a receiver deserves housing in only the finest console. Here we have an impressive, magnificent cabinet constructed of American walnut, richly veneered with perfectly matched butt walnut from and striking overlay panels. It stands 51 inches high, 27 inches wide and 16 inches deep. The workmanship and the hand rubbed and polished finish mark this a fine piece of furniture, worthy of the most richly furnished home.

### All Complete—Nothing Else to Buy

No units or other equipment aside from aerial and ground are required in the operation of this set. And, there is nothing to wear out except the tubes. These can easily be replaced by anyone—no expert knowledge is required. Years of test have shown that they will outlast the ordinary D. C. style of tube.

### Braun Dealers Meet All Competition

We offer this fine set to our dealers, because we know that they will have competition in this quarter because of the demand for All Electric Radio Receivers. You will find by comparison that the prices listed are below the standard market for this type of receiver. It has been our policy to place our dealers in a position to stop all competition and a review of the field will prove that we have done it in the line of All Electric Receivers.

This All Electric Six operates from any 110 volt, 60 cycle Alternating Current, as generally found everywhere for lighting purposes. It is equipped with cord and plug, all ready for instant operation. Shipping weight, complete, 175 pounds.

1K11528—All Electric Receiver, complete with six Kellogg A. C. Tubes, attachment cord and plug. Retail List Value, \$275.00.  
Net Wholesale .....\$158.50

# Rauland RECEIVERS

New 1928 A. C. and Battery Operated Models  
—Circuits Licensed Under RCA Patents



## The "Duet" 6-Tube Model

This attractive table model employs the same fine 6-tube tuned radio frequency chassis as the "Sextet" model. It incorporates the audio amplification system transformer and impedance coupling—the famous Rauland-Lyric-Trio—assuring a tone quality that is the talk of the entire industry. Has two tuning controls with the finest Vernier dial. Operates equally well on in-door or out-door antenna. Cabinet is from select blended walnut, handsomely finished. Size: 23½ in. wide, 15 in. deep, 12¼ in. high. Shipping weight, 75 lbs.

**1K11340**—List, Complete without Accessories, \$79.00.  
Net, each .....\$47.40

**1K11341**—With all equipment in-built necessary for electric operation, all ready to plug into light socket (except without tubes, ground and antenna equipment). List, \$164.50. Net.....\$98.70



## The "Compartment" 5-Tube Receiver

A very popular table model with special compartments at both ends providing ample space for necessary power units. Cabinet is duo-tone walnut, artistically inlaid and has beautifully rubbed finish. It is 37½ in. wide, 12½ in. deep and 12 in. high. Removable back panel. Has the 5-tube tuned radio frequency chassis mounted on rigid frame of cast aluminum. Constructed of the very finest materials with Rauland-Lyric transformers, which give it an unusually fine toned quality. Only two dials, affording extreme simplicity in operation. Shipping weight, 70 lbs.

**1K11342**—List, Complete without Accessories, \$69.00.  
Net, each .....\$41.40

**1K11343**—With all equipment in-built necessary for electric operation, all ready to plug into light socket (except without tubes, ground and antenna equipment). List, \$149.50.  
Net, each .....\$89.70



## The "Cabinet" 5-Tube Receiver

Features the popular drum dial control with two tuning knobs. Has the "All-American" 6-tube T. R. F. chassis with the famous Rauland-Lyric audio transformers and the very finest parts throughout. Cabinet is beautifully finished in walnut tones with hinged top. Measures 23½ in. wide, 15 in. deep and 12¼ in. high. Shipping weight, 50 lbs.

**1K11344**—Set Complete without Accessories, List, \$59.00.  
Net .....\$35.40

**1K11345**—With all equipment in-built necessary for electric operation, all ready to plug into light socket (except without tubes, ground and antenna equipment). List, \$139.50. Net.....\$83.70



## The Rauland "Sextet"

As fine a receiving set as skilled and precise manufacture can produce. A 6-tube tuned radio frequency circuit with 3 stages of audio amplification (Rauland-Lyric-Trio). Rigidly built, all steel chassis frame with metal panel forming complete shielding. Two tuning controls, one volume adjustment. Operates on in-door or out-door antenna. Cabinet is of beautiful Colonial design, fashioned from selected walnut, finished in duo tone combination artistically high lighted. Stands 56 in. high, 16¼ in. deep, and 23 in. wide. Has in-built cone speaker, giving satisfying reception in the clearest tones with ample volume. Distinguished for its extreme selectivity and its tremendous volume without hint of distortion. Unquestionably, one of the finest radio receivers on the market. Shipping weight, 125 lbs.

**1K11348**—"Sextet" Model Complete without Accessories.  
List, \$134.50. Net, each.....\$80.70

**1K11349**—"Sextet" Model with all equipment in-built necessary for electric operation, all ready to plug into light socket (except without tubes, ground and antenna equipment). List, \$224.50.  
Net, each .....\$134.70

## 5-Tube "Hiboy" Model

Fashioned from fine selected woods finished in blended walnut. This "Hiboy" model of quaint Colonial design presents a neat, attractive appearance. Height 41 in., width 24 in., depth 15 in. Lower compartment provides abundant space for all necessary power units. Antique cast brass hardware. Installed in it is the "All-American" 5-tube T. R. F. chassis in which is incorporated the famous Rauland-Lyric audio system, insuring the most perfect tonal reproduction. For simplicity of tuning, razor-sharp selectivity, and volume it would be difficult to find a more superior receiver. Shipping weight, 100 lbs.

**1K11346**—List, Complete Set without Accessories, \$98.50.  
Net .....\$59.10

**1K11347**—With all equipment in-built necessary for electric operation, all ready to plug into light socket (except without tubes, ground and antenna equipment). List, \$174.50. Net.....\$106.70







# Portable-"5" Radio Receiver

The Original "One-Man" Portable  
Weighs Only 24 Pounds

A tremendous demand has sprung up for portable radio sets. On every train ride you see them. On the beaches. In hotel rooms. At impromptu social gatherings. By the roadside. At sociables. In thousands of homes. Many traveling men carry them. You see them everywhere!

## The Trav-Ler Leads

The first extremely compact portable, the Trav-Ler has become very popular. Dealers have been amazed at the rapidity with which it is sold. One buyer tells another. It is different. Owners are proud of its looks and thrilled with its performance. To sell one is to start a real demand in your locality. Don't overlook this Trav-Ler market. If you do, you pass up real worth while, easy profits.

## Many Unusual Features

You are first impressed with the neat, trim, finished and compact appearance. The case is rigidly made and covered with black leatherette. It will withstand a lot of banging around. A time-tried and proven 5-tube circuit employing 2 stages of Radio Frequency, 1 Detector and 2 stages Audio Amplification. By the use of the finest parts, full size low ratio audio transformers, both tone quality and volume are surprisingly good. A giant speaker unit, coupled with a scientifically designed tone chamber produces room-filling volume that amazes all who hear this wonderful little receiver.

## Easy to Tune

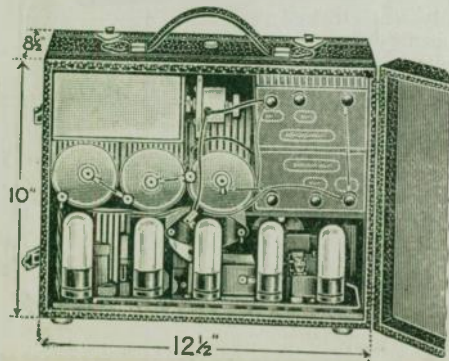
Simply place the loop aerial which is contained in the cover on top of set, turn on the switch and the receiver is ready to operate. The direction of the loop together with the single vernier dial makes tuning very simple with good selectivity. Separates stations with precision. Two other controls regulate filament and volume. Jack is provided for head phone use if desired.

## Amazingly Compact

Size over all is only 8 1/2 inches deep, 10 inches high, 12 1/2 inches wide—no larger than an ordinary small hand bag. Weighs only 24 pounds—a child can carry it about. The view below shows how snugly all batteries, tubes and parts are arranged—not an inch of space wasted.

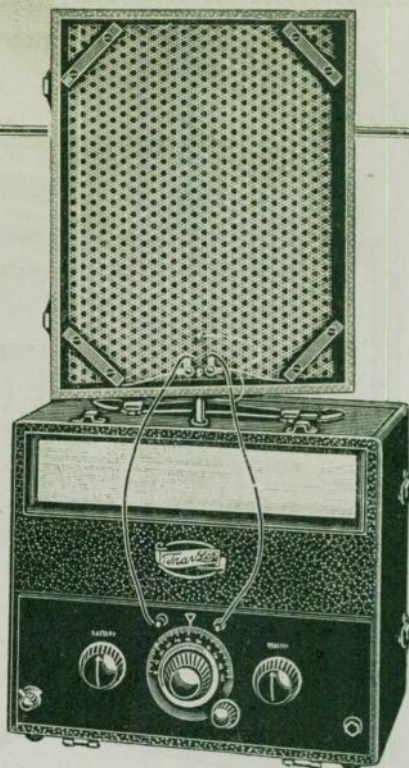
Set one of these wonder little sets on your counter. See how it stops everyone who comes into the store. Let your customers tune it—see how easily it picks up station after station and reaches out to great distances. A self demonstration is usually a sale. Shipping wt. 28 lbs.

IK5515—Set only, List price, \$65.00. Net, each.....\$39.00  
IK5517—Set complete with all accessories (tubes and batteries) ready to operate, List price, \$85.00. Net .....\$51.00



Rear View with Back Open Showing Compactness. Not an inch of space wasted.

Spring Base Sockets. Good Size Sound Chamber and Fine Quality Unit in the Loud Speaker. Weighs Only 24 Pounds Complete.



Single Dial Control  
In-Built Loud Speaker

## The Truth About Distance

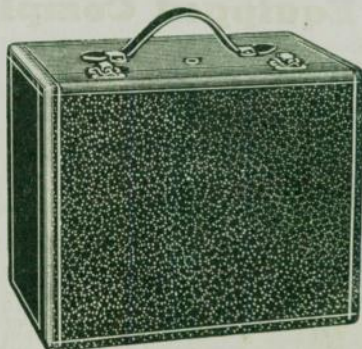
How often you have heard the question, "Will this set step out and get distance?"

Consider the fact that a radio receiver does not "step out" but remains stationary. Signals from distant stations must come to the aerial and are amplified within the set, then reproduced through the speaker.

If local electrical interference is stronger than the distance signals, it is impossible for any set to reproduce the distant station signals.

The TRAV-LER has two stages of radio frequency amplification and two stages of audio amplification. The transformers are the highest quality, and if distant signals are coming in clear, the TRAV-LER Receiver will amplify them. And when distance signals are not reaching the aerial the TRAV-LER or any other receiver will not "pull" them in. Many false claims are made by "high pressure" salesmen. We prefer to represent the actual facts.

Take It With You  
Anywhere





# The New MONROE ELECTRIC Phonograph- Radio Combination

**The Finest in Radio and  
Reproduced Music in One  
Wonderful Instrument**

**Retail Price**

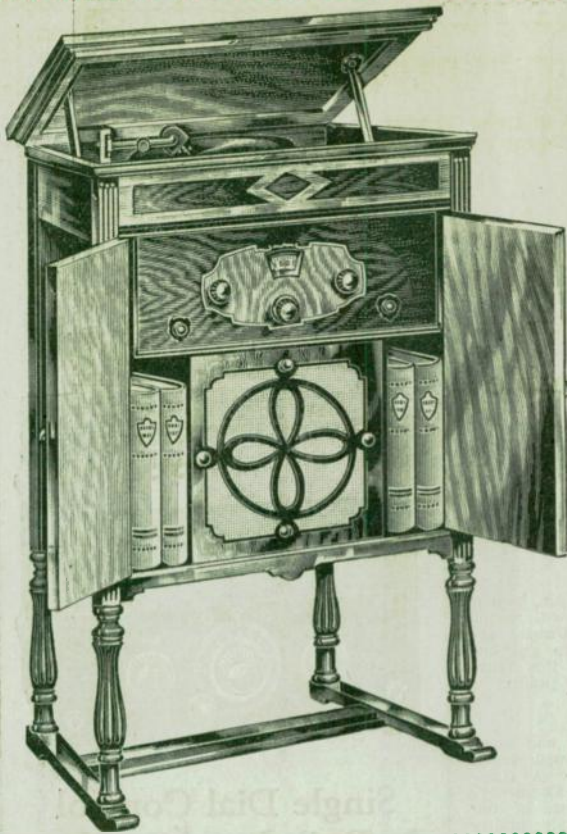
**\$350**

**Your Net**

**\$195**

The idea of electrical reproduction of music has taken the country by storm! It is truly a triumph in the science of electricity and the art of musical reproduction. If you have not heard this new method you have a treat in store that will amaze, enthrall and fascinate you! You would not dream that such beauty of tone were possible! Clear, vibrant, resonant, with complete rendition of both the booming bass and the shrill soprano notes—brought forth in all their natural shadings.

There's a real demand for this type of musical instrument, the combined Electrical Phonograph and Radio. You can satisfy this demand with this new member of the MONROE family. Push it now while the demand is flush and make a fortune in extra profits!



## The Great Monroe Single Control Shielded Six Receiver and the Special Monroe Symphonic Phonograph

This is a complete socket power instrument, completely self-contained. All you do is plug it into the light socket, turn the switch and you are ready either for phonograph or the radio. The Receiver is the now famous Monroe Shielded Six, a complete description of which is given on pages 8 and 9.

The Phonograph and Electrical Amplifier (illustrated below) is separate and distinct from the receiver and operates strictly independently, except that each employs the same loud speaker. The Phonograph is equipped with an electric motor and the conventional 12 inch turntable. The Reproducer is the new, improved electrical type, the action of which is described in detail on page 85. After the reproducer is placed in position on the record and the motor started, this reproducer picks up the impulses from the grooves of the record, passes them into the Phono-Amplifier and thence to the loud speaker. This amplifier is similar to the highly developed audio amplifiers used in conjunction with radio receivers. As can be seen from the

illustration, it employs a rectification system for the A. C. current and a transformer coupled audio amplification unit for the perfect reproduction of recorded music from the record as it has come from the special electrical reproducer. This arrangement brings to the phonograph the best musical qualities of radio. The audio frequencies as picked up from the record pass through this special amplification system, which employs regular radio tubes, sending it forth to the loud speaker with a great volume, purity and naturalness never before known in reproduced music. The weakest tones are built up, and the overtones held in check. There is no slighting of the bass and overemphasizing of the higher tones, as is the case with some systems. Reproduction is pure, full and vibrant—an effect that cannot be described, but is the marvel and delight of all who hear it. There is positively no distortion and tremendous volume can be had with the controls provided without overloading.

## The Special Loudspeaker

The built-in speaker has been especially selected for this instrument to meet the conditions of broadcast reception and the beautiful, faithful reproduction of the phonograph record.

## Equipped Complete

The Monroe Combination Electrical Phonograph-Radio comes completely equipped with all tubes necessary for instant operation. No batteries or power units of any kind are required. Shipping weight, complete, 350 lbs.

**1K12105**—Complete with all Tubes and equipment, including Ground and Antenna outfits for Radio Receiver. Retail **\$195.00**  
List Value, \$350.00, Net Wholesale.....



### The Phono- Amplifier

This unit is made from the very finest parts, guaranteed to be mechanically and electrically perfect. This is a highly developed and perfected device that has much to do with the marvelous tonal reproduction of this splendid electrical phonograph.

## The Beautiful Console

A masterpiece of the designer's and craftsman's art in the making of fine furniture. Constructed of choice American Walnut

in dull rubbed and polished Adam brown finish. It is richly embellished with perfect fluting and a two-tone overlay effect as shown. It stands 48 inches high, 29 inches wide and 17½ inches deep. Strong and sturdy, it forms a perfect housing for this marvelous new instrument.

Search the market far and wide and you won't find a Combination Electric Phonograph-Radio to approach it in value, beauty of appearance and efficiency in operation. It is a Braun scoop and our Dealers should take advantage of it.







## Cone Speakers

### Cathedral Model



Original in design, something new and different. It has instantly struck the public fancy because of its rich beauty and perfect tone reproduction. Covers the entire scale with absolute fidelity and beautiful modulation. You will make new friends on the sales of this excellent speaker. Height, 17 inches; cone diameter, 15 inches. Shipping wt., 25 lbs.

**2K5138**—List, \$30.00. Net...\$18.00

### Beautiful Grecian



The most beautiful speaker made. Will sell on its appearance and stay sold on its performance. Made by the Pathé. Reproduces full range of tone with wonderful quality and excellent volume.

Cone diameter, 15 in. Height, 17 in. Shipping wt., 18 lbs.

**2K5131**—List, \$25.00. Net...\$15.00

### Windsor Easel Cone



In convenience, modality of reproduction and extremely low price, this novel cone speaker surpasses anything yet offered. Cone is 22 inches in diameter mounted on panel supported by an easel and with grip on top. Can be hung on wall or stood upon any flat surface. Contains the famous Windsor loud speaker unit noted for its extreme clarity and fidelity of reproduction. You will find this nationally advertised item a big seller. Shipping wt., 15 lbs.

**2K5159**—

List, \$15.00. Net...\$9.00



### Windsor Console Cone

The very newest speaker—a combined radio table, battery cabinet and a fine 22-inch cone speaker all in one. The cone is of advanced design, famed for its wide tone range and great volume. From the deep voiced tuba of an orchestra to the softest note of a vocal solo, every tone is reproduced in all its beauty. As a piece of furniture it is tasteful in design. Top is 36x17 inches and cabinet stands 29 inches high. Rich walnut finish. Amplest battery space behind cone. Shipping wt., 70 lbs.

**2K5160**—List, \$29.00. Net...\$17.40

## Pioneer Supertone

### Cone

### Our Greatest Cone Value! Ideal For Power Tube Use

A real Braun triumph! We combed the market for months to find for our dealers a cone of superior quality which they could push as a leader and on which a big margin of profit might be made. Many makes and models were tested. This splendid cone was finally selected for its exceptional performance. It is without question the highest value ever offered in a fine cone speaker.

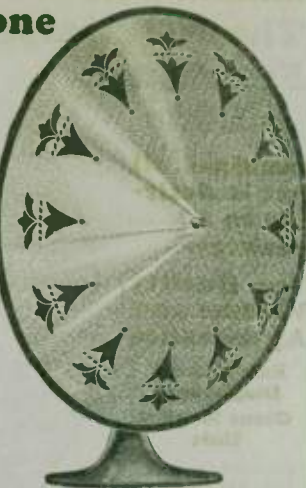
It embodies all the latest scientific developments in cone speaker construction. It recreates with a marvellous fidelity from the soft murmur of the bass through the mellow beauty of intermediate notes to the high treble of the violin. Its purity and faithfulness of reproduction are a revelation.

It will stand unusual volume without distortion or blasting and at no sacrifice of the sweet tone quality. Very finest quality unit insures perfect operation indefinitely. Heavy base to prevent tipping. Diameter of cone, 20 1/2 inches; height over all, 22 1/2 inches. Has handle on back for convenience in handling. Beautifully finished and embellished in neutral brown shade with contrasting decorations. Has about 5 feet connecting cord.



Get behind this speaker! It will make friends for the store as well as prove a great source of continuous profit! Shipping wt., 22 lbs.

**2K5108**—List, \$25.00. Net, each .....\$13.85



Retail \$25

Your Cost

**\$13.85**

## Burns Cabinet

### Cone

### Speaker



Reproduces the entire musical scale with a uniformity of full, rich, pure tones. Cabinet is only 12 1/2 inches high. Beautifully grained walnut finish and a speaker that has unlimited power of reproduction. Made by a manufacturer noted for the making of fine loudspeakers. Shipping wt., 15 lbs.

**2K5118**—Retail, \$22.50. Net...\$13.50

## The Burns Horn

### An "Old Reliable"

Of generous proportions, gracefully shaped and designed along scientific lines. The flare is of handsomely polished black brass, practically unbreakable. Adjustable unit. Shipping wt., 15 lbs.



**2K5101**—List price, \$22.50. Net .....\$13.50

## The New R. F. I. Disc Speakers



### Cone Type

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

**2K5141**—List, \$12.50. Net .....\$7.50

Exceptionally pleasing in tone, covering with excellent volume the entire musical scale. These Disc Speakers represent a value which we believe is equalled by none others. The full mellowness of the low frequencies is emphasized by such instruments as the bass viola, tubas, tympani and the pedal notes of the pipe organ.



### Cabinet Style

Encased in a handsome, well proportioned matched walnut cabinet, this disc speaker combines the very best in acoustical engineering with splendid decorative taste. A combination of beauty and efficiency. Equipped with the Spartan Sound-Balanced Armature Disc Unit. Overall dimensions: Height, 14 inches; width, 14 inches; depth, 6 inches. Shipping wt., 25 lbs.

**2K5140**—List, \$25.00. Net...\$15.00



## The New Improved Pioneer Free Edge Cone

**Combines all that is desirable in a speaker—**

**Tone Quality, Volume and Appearance**

**Extra Large Diaphragm  
Giant Magnet Unit**

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

### Tremendous Volume

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

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

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

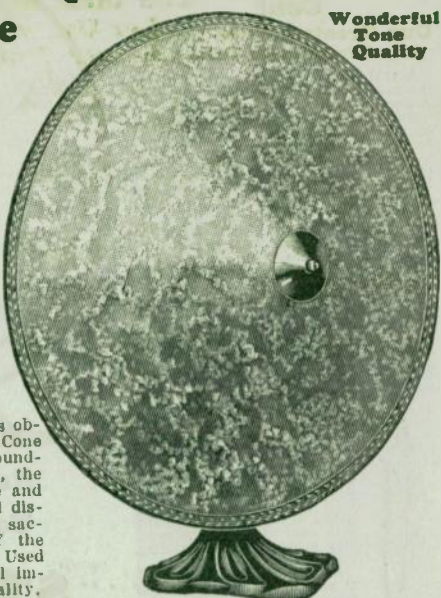
The price at which we offer the free edge cone cannot indicate its value. It must be heard to be fully appreciated. Here is a big seller. It is worth its full list price and will make big profits for you.

**2K5103—List, \$9.00. Your Price.....\$3.85**

Same style speaker having a 20 inch cone instead of 14 1/2 inch as above.

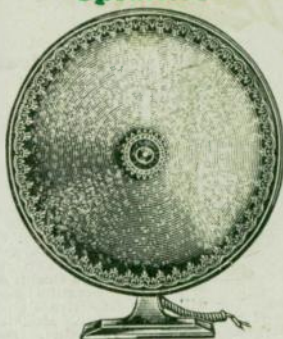
**2K5153—List, \$13.50. Your Price.....\$6.95**

**Wonderful  
Tone  
Quality**



**\$3.85**

## TRIMM Speakers

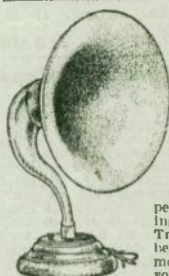


Will reproduce the low notes as well as the high with greatest fidelity and with a volume and richness that will please the most exacting. Built on the balanced armature principle, it is particularly well adapted for operation with semi-power and power tubes and will take the higher voltages and maximum amplification without blasting or distortion. The edge is fully protected. The unit is ruggedly built, of ample proportions and all parts are rust-proofed before assembling.

**2K5104—Model 33 Concerto Grand.**  
Diameter Cone, 17 inches. Shipping wt., 14 lbs. List, \$16.00. Net.....\$9.60

**2K5119—Model 28 Concerto.** Diameter Cone, 14 inches. Shipping wt., 11 lbs. List, \$10.00. Net.....\$6.00

### Concert Model 80



The peer of present-day speakers. All tones, from high to low of organ, reproduced with original fidelity. For clearness, distinctiveness and perfect harmonious blending of tonal values.

Trimm Concert has never been surpassed. Adjustment controls tone and volume. Horn, 22 inches Unit. Finished in Black. Ship. wt., 12 lbs.

**2K5106—List, \$25.00.**

**Net.....\$15.00**

### Model 90 \$10.50

A speaker of ample size and volume, yet selling at a medium price. Extra large diaphragm, full range of tone with fidelity and beauty. Stands 19 1/2 inches high, has 12 inch bell and Trimm adjustment feature for tone and volume. Shipping wt., 10 lbs.

**2K5107—List price, \$17.50.**  
Your Net Cost...\$10.50



### TRIMM Entertainer

**\$17.50**

### Model 125



### TRIMM Home Speaker

Stands 18 inches high, 12 inch bell, of genuine Vulcanite. This speaker has been sold the country over because it out-talks speakers costing twice as much. Great volume, beautiful tone, no blasting, distortion or harsh overtones. Lifetime guarantee. Shipping wt., 8 lbs.

**2K5108—List Price, \$10.00.**  
Net....\$6.00

## YAHR True Tone Pedestal Speaker



**2K5100—List, \$35.00.**  
Net, each.....\$21.00

An entirely new, unique design which has become instantly popular. Designed on proved acoustic principles. Reproduces high, clear treble or deep bass with equal fidelity. Has full 27-inch tapered tone travel column. Scientific baffle plate arrangement gives the two orthophonic effect. Finest quality unit will handle 200 volts plate voltage without distortion. It is all metal in rich brown cracked lacquer finish—matches most sets. Stands 41 inches high, 9-inch heavy base—won't tip. Wire mesh grille backing. Twenty feet silk insulated power cord permits placing speaker anywhere in room. Nationally advertised—a fast seller. Shipping wt., 45 lbs.



### Thorola New Model Cone

The low tones resonate clearly from the flat surface of the diaphragm; the center cone reproduces the high and middle tones with marvelous purity and distinction. Here is a dual principle that exactly reproduces every sound wave. Gives the finest radio ever known with cone speakers. The graceful grill with Florentine surface charms and rests the eye. A beautiful work of art harmonizes with any furnishings. Rich walnut and old gold finish. Shipping wt., 16 lbs. 17 in. high, 14 in. wide.

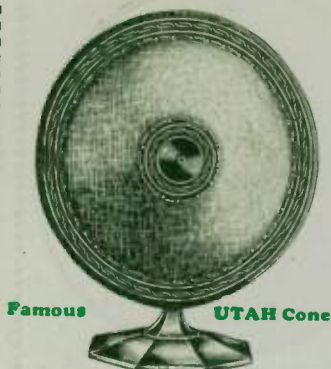
**2K5144—List Price, \$25.00.**  
Your Net Cost.....\$15.00

**Protected  
Dual  
Diaphragm**





## UTAH SPEAKERS



Contains the famous Utah unit, universally accepted as one of the best. Finest cone paper, with protected edge and finished in a tasteful design. A quality cone at a remarkably reasonable price. Height, 15 1/4 inches. Shipping weight, 8 lbs.

2K5125—List, \$10.00. Net...\$6.00  
New Drum Cone Speaker.

2K5183—List, \$16.00. Net...\$9.60



### UTAH "No. 30" Cone Speaker

Carved with peacock grille design. Deep resonant tones. New design. Very attractive appearance. Natural finish walnut. One of the most beautiful as well as efficient cone speakers ever made. Height, 18 inches. Shipping wt., 15 lbs.  
2K5188—Retail Price, \$30.00.  
Net .....\$18.00



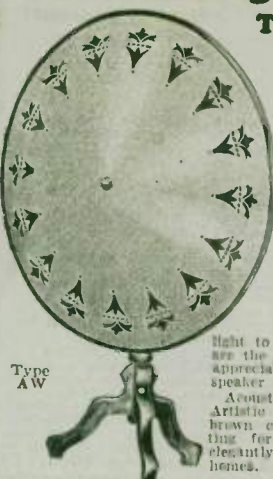
## OCTACONE

Acoustical experts designed this unusual speaker with a special diaphragm to reproduce with accuracy all musical sounds from a soprano's trill to the rumble of a kettle drum. This is accomplished by the conical Octacone diaphragm—with its apex off-center—exactly the shape of the human ear drum. It magnifies sound waves and transmits them with a naturalness unequalled. The liquid quality of strident instruments or the harsh, hard tones of the brasses are reproduced with the same fidelity. Height, 13 1/2 in.; depth, 4 1/2 in.; width, 11 in. Golden bronze finish. Rubber feet. Shipping wt., 16 lbs.

2K5189—List, \$19.50.  
Net .....\$11.70

## PIONEER 36-Inch CONES

### The Ideal Speaker For Use with Power Tubes



Type  
AW

Made especially for us by a manufacturer nationally known as a maker of fine cone speakers. They are specially designed with properly balanced units to accept the higher plate voltages used on power tubes. They produce a tremendous volume with that pleasing booming rush of tones so much desired in large speakers. Precision made of the finest materials and so perfectly coordinated in all their parts as to bring a faithfulness and fidelity of reproduction that is a delight to the most critical listener. They are the choice of many who have a fine appreciation of musical perfection in speaker construction.

Acoustically perfect heavy cone paper. Artistic design in a pleasing neutral brown color. Rich in appearance—fitting for the most elegantly appointed homes.

### Pedestal Type

Height 46 1/2 inches with base of highly polished mahogany. Adam brown finish. Cone 36 inches in diameter. Substantially built and not easily tipped. Long extension cord. Shipping wt., 100 lbs.

2K5186—List, \$45.00. Net, each, \$24.75



Type  
WT

### Wall Type

Furnished with a strong fancy hanging cord. This type is coming into wide popularity and we urge our Dealers to get behind this model and reap the harvest of profits in store from its sale. 36 inch diameter. Shipping wt., 95 lbs.

2K5187—List, \$40.00.  
Net, each .....\$22.75

### UTAH Piano Speaker



Attaches to sounding board of Baby Grand or Upright Piano. Produces marvelous tone quality. Equipped with 25 foot cord. Has proven instantly

popular. Shipping wt., 5 lbs.  
2K5192—List, \$10.00. Net...\$6.00

### UTAH Cabinet Speaker

Their attractive appearance together with the wonderful clarity and fidelity in reproduction makes these speakers stand head and shoulders above any other type of speaker. The cabinet is genuine walnut veneer beautifully finished. They are equipped with 9 foot air column tone chamber and Utah DeLux Unit.

Utah No. 100.  
2K5184—Size 36 inches high, 27 1/2 in. wide, 17 in. deep. Weight, 100 lbs.  
List, \$70.00. Dealers.....\$42.00

Utah No. 101.  
2K5185—Size 36 in. high, 27 1/2 in. deep. Made to take Philco and other similar power units. Weight, 100 lbs.  
List, \$75.00. Dealers.....\$45.00

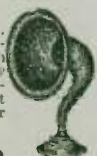
### New Utah Super Flex

Tones come out of bare instead of top; very mellow and harmonious. Good volume. Height about 9 in. Can be used in many portable sets. Large DeLux Unit. Shipping wt., 3 lbs.  
2K5182—List, \$10.00.  
Net .....\$6.00



### UTAH Horn Speaker

A popular peacocks model. Scientifically designed to reproduce the entire scale range in a true natural way. For clarity and distinction Utah is unsurpassed. This is beyond doubt one of the finest horns ever made. Shipping wt., 12 lbs.  
2K5128—List, \$22.50.  
Net .....\$13.50



## ALL-AMERICAN Lorel Model

This new improved cone type reproducer incorporates the latest loud speaker refinements. High trebles and low basses are brought out with unusual vividness. Carefully balanced with sounding-board and sounding-chamber to give purity of ALL tones. A tone filter is wired inside the cabinet giving additional assurance of superior tone qualities with any set. Shipping wt., 15 lbs.

2K5150—Retail price, \$25.00.  
Net .....\$15.00



### Ship Model



## The New Ship Model Vittalitone

Beauty and quality are completely harmonized in this new ship model Vittalitone loud speaker. It adds a decorative note to your room whether placed on a table or hung on the wall.

The frame and stand, which support a standard size cone, are executed in low relief and finished antique polychrome coloring.

The VITALITONE is powerful, responsive, sensitive, and non-buzzing. It is adjustable and of sturdy construction and will take 350 volta power input. Shipping wt., 12 lbs.

SATISFACTORY RESULTS UNQUALIFIEDLY GUARANTEED.

2K5191—Retail Price, \$12.50.  
Net Cost .....\$7.75



## ACME Speakers



K-1

### Double Free Edge

The Acme K-1 "double free-edge cone speaker" has met with tremendous success. Notes, tones and inflections are brought out as never before. The unit is entirely new and of such rugged construction that permanency is assured. Cones are 14 inches in diameter. Direct current in speaker circuit adds in operation and need not be shunted out as in some speakers. Values up to 25 MA can safely be used, allowing the speaker to be directly connected to power tubes. A simple adjustment is provided for taking care of increased plate current when used. The metal case is finished in tan. Shipping wt., 15 lbs.

2K5147—List price, \$25.00, Net \$15.00



K-2

### Cabinet Style

Same as type K-1 except encased in solid mahogany cabinet. Matches almost any set. May be set upon the cabinet or table or floor encloses without the usual microphone ribbon. Shipping wt., 12 lbs.

2K5148—List price, \$30.00, Net \$22.80

### Single Free Edge Cone

A "single free-edge cone" of 11 inches diameter. Plate currents up to 25 MA can be safely used, thereby providing great volume is desired. Suitable for wall mounting by simply removing base and adding fitting to which cord is attached. Volume adjustment. Metal case and base finished in green enamel. Shipping wt., 19 lbs.



K-3

2K5149—List price, \$14.50, Net \$8.70

## 3-FOOT CONE

Make It Yourself!

Dancers are finding the make-it-yourself cone idea 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 handiwork.

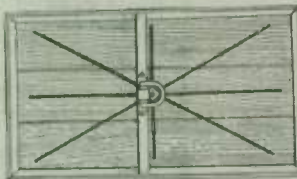
The PIONEER is a real quality, easy to build cone kit at a fair price. When completed it hangs on the wall and provides that booming, resonant reproduction so desired in large cones. Every store should have one of these striking, pretty, efficient, large volume cones for floor demonstrations.

Each kit contains: 1 fine speaker unit; 1 sheet heavy cone paper cut to shape, with wiring leads; 1 tube socket; 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 wt., 5 lbs.

2K5167—Retail Price, \$10.00, Your Net Cost...\$4.10



\$4.10 Net



### Balsa Wood Reproducer

Make It Yourself

Nature's Sounding Board. The most radical development in loud speakers—one of the three reproducers of voice and music—since the birth of radio. Sounding medium is made of a thin board of Latin Balsa Wood—a product peculiarly adapted to this purpose. Its natural period of vibration is negligible which means that only the fundamental wave train is reproduced with no harmonics. No other speaker is so perfect in this respect. It reproduces frequencies lower and higher than are audible to the human ear. The low notes of the organ, tuba and bass drum are readily distinguished. Every note up to the highest on the scale is perfectly reproduced. All parts except unit are included in kit. Assembly is easy. Surface can be decorated if desired. Can be hung on wall and used as a screen, etc. Shipping wt., 5 lbs.

2K5163—12x24 inches. List, \$8.00, Net \$5.20

2K5164—24x36 inches. List, \$10.00, Net \$6.50

2K5166—Balanced arrangement unit. List, \$8.00, Net \$5.20

### Na-Ald Midget Cone Speaker

A Big Selling Novelty



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. Shipping wt., 2 lbs.

2K5169—Retail price, \$2.00, Your net cost...\$1.27

### TIMMONS Eccentric Cone

This speaker utilizes to the fullest extent, the high power output of modern receivers. Scientifically correct in shape and principle, for the natural undistorted reproduction of the entire range of tone frequencies, it will handle the maximum output of any receiver loadability. Attractively decorated. Overall size is 2x22 1/2 inches. This one model is adaptable for either table or wall with no additional equipment. Shipping wt., 15 lbs.

### Famous PENN 3-Foot Cone



### Build It Yourself

Build in one evening at one-fifth of regular cost. Outfit consists of two sheets Alhambra Fun-O-Tex cone paper, pair Black Rings, Penn Unit mountman. Can of Special Ambroid Cement and Penn Cone Speaker Unit with necessary bolts and washers. This unit is of a most advanced, perfected type, adjustable to any set output. Extremely sensitive and of unusual power. You will never know the real thrill of radio until you have this Giant, 3-Foot Cone Speaker. With the complete instructions, it is easy to build. Endorsed by such distinguished technical editors as Cockaday, Gurney, Hurd, Casey and others. Shipping wt., 5 lbs.

2K5155—Outfit complete List, \$13.50, Net...\$8.10



2K5168—Retail price, \$30.00, Net each...\$18.00



## Symphonic GLOBE SPEAKER



A new and unique design of a speaker. It is a beautiful accurate library globe that should be a part of your home furnishings—and of your education. By simply raising upper half of globe (as shown in smaller illustration) it becomes a speaker of unusual merit. Globe turns freely on its axis, is clearly marked, beautifully colored and can be easily cleaned with a damp cloth. The purity of tone, the perfect reproduction of the full range of sound will amaze you. The tone may be modulated by opening or closing the upper half of globe—a feature found in no other speaker. Comes complete with 20 feet of cord. Order a sample speaker—it will help you sell many more. Shipping wt., 25 lbs.

**2K5177**—Retail price, \$35.00.  
Your cost ..... **\$21.00**

## R. F. I. Cone Speakers

These speakers reproduce the full deep notes of the bass, the delicate modulation of the violin and the piano realistically. R. F. I. does more than reproduce; it recreates the original speech or music till it seems that you must be in the studio.

But to have more than a fine musical instrument the Radio Foundation, Inc., engaged a famous New York designer to plan the speaker. His blending of a striking design in dull red gold with the soft brown of the cone and the bronze of the mounting created an ornament to be admired in every home.

## The New Wall Model All the Vogue

Hangs from wall suspended by handsome cord. Cone diameter 19 inches. Decorated in blue and silver. An especially beautiful and popular cone speaker. Shipping wt., 12 lbs.  
**2K2K5116**—List, \$16.50.  
Net ..... **\$9.95**

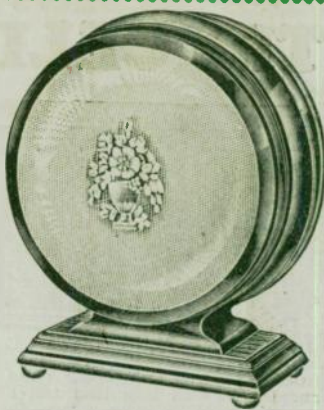


## Table Model

A table speaker with felted base. Cone diameter 17 inches with brown scroll decoration. Metal base in old gold finish. Shipping wt., 15 lbs.  
**2K2K5117**—List, \$22.50.  
Net, **\$14.50**

## PIONEER Trutone Drum Speaker Type 100

This magnificent speaker is of advanced type, employing new principles of reproduction. The tones are low pitched, soft, round, melodious, full and natural regardless of the amount of volume. The horn, which has a tone travel of fully 54 inches, is scientifically scaled to produce proper amplification and perfect flow of natural tonal waves. The throat is bell shaped which is recognized by musical authorities as being ideal. The Trutone is also a beautiful piece of furniture, chaste in design with dull natural walnut color finish. Semi-floating armature type giant unit. Front is covered with gold cloth mesh. Height, 15 1/4 inches; width, 12 inches; depth, 5 3/4 inches. A sure sale with every demonstration. Shipping wt., 18 lbs.  
**2K5161**—List, \$25.00. Net..... **\$15.00**



## AMPLION Cabinet Cone

The Amplion Cone is the result of nearly two years deliberate, intensive experimenting. It represents a time-perfected development totally different

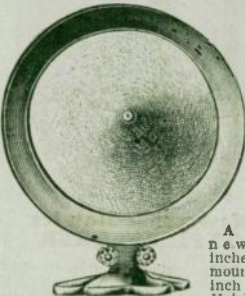
in appearance, construction and results—loud, clear, sensitive and realistic in tone—complete in musical range. Artistically, a masterpiece in two-tone mahogany; 14 in. x 14 in. x 9 in. Shipping wt., 15 lbs.

**2K5162**—Amplion Cone.  
List, \$35.00. Net..... **\$21.00**

## AMPLION Dragon Speaker

An old time favorite! One of the most efficient horns ever made. Beautiful mahogany paneled bell. 20 1/2 in. high, 14 1/2 inch diameter. Crystalline enameled. Bi-polar type unit—adjustable. The choice of many experienced radio operators because of its bell-like clearness and great power. Shipping wt., 16 lbs.

**2K5180**—List, \$42.50.  
Net, each ..... **\$25.50**



## AMPLION Lion Model

A marvelous new cone, 14 inches in diameter mounted on an 18 inch sound board. Height, including handsome bronze base, 20 1/2 inches. New balanced armature unit, straight bar magnets of finest grade English Tungsten steel. It will accept tremendous volume without distortion or blasting. Truly a perfected conespeaker! Shipping wt., 20 lbs.  
**2K5181**—List, \$25.00.  
Net, each ..... **\$15.00**



## AMPLION PATRICIAN Cabinet Speaker

Assembles a remarkable 48-inch air column, with standard AMPLION unit, in a richly carved mahogany cabinet—18 in. x 12 in. x 9 in.—of softened contours and graceful old-world beauty that harmonize perfectly with modern luxurious home appointments. The Patrician is non-directional; to the famous AMPLION sensitivity and clarity, it brings a new softly diffused mellowness of tone that makes this instrument the choice of the connoisseur wherever heard. Shipping wt., 25 lbs.

**2K5178**—List, \$45.00. Net.. **\$27.00**

## Amplion Shield

Public demand is turning to beauty and artistry in radio. Here is perhaps the most distinctive and beautiful speaker ever made. New process embossed walnut paneling, attractively curved, combining grille-front and back. Height, 22 inches. Cone, 16 1/2 inches. New balanced armature unit with straight bar magnets of finest English Tungsten steel. A real masterpiece. Shipping wt., 22 lbs.

**2K5179**—List, \$67.50.  
Net, each ..... **\$40.50**



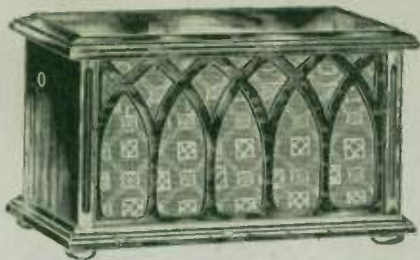


# The CELLO Talker

\$27.50 Value

**\$4<sup>65</sup>**  
**NET**

**Another Braun  
Triumph in  
Bigger Values**



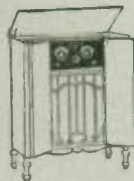
Gives the true orthophonic effect. The combination of splendidly balanced unit with long tone travel chamber and the case acting as an acoustic amplifier gives a powerful reproduction of striking naturalness. The deep low notes of the organ and bass as well as the highest soprano vocal notes are faithfully reproduced. Each and every instrument in band and orchestra may be recognized distinctly. Case is of mahogany in dull rich dark natural finish. Only a fortunate arrangement permits us to offer this \$27.50 retail value Cello speaker at such an amazingly low price. Shipping wt., 15 lbs.  
2K5170—List, \$27.50. Net wholesale.....\$4.65

## CONSOLE REPRODUCERS

**Equipped with Genuine Newcombe-Hawley  
ORTHO-TYPE 86-Inch Travel Tone Chamber  
Symphonic Console**



Newcombe-Hawley Reproducers have a nationwide reputation as being the very finest, most highly developed radio reproducers made. They are perhaps the only radio speakers that actually reproduce all the notes of the scale with absolute fidelity. This console incorporates the N-11, 86 inch tone chamber complete with Baldwin C. G. unit. Made from finest walnut in rich antique lacquer finish. This console provides space for 7x21 inch or smaller panel size radio set with all batteries, etc. Height, 44 1/2 in.; width, 36 1/2 in.; depth, 18 in. Shipping wt., 100 lbs.  
2K5171—List, \$125.00. Net.....\$75.00



### The Cantata Console

Large enough top to provide space for almost any table radio set. Ample room for batteries and units. It contains the remarkable 86 inch tone travel Newcombe-Hawley chamber with latest matched Nathaniel Baldwin unit. Unequaled for beautiful, faithful reproduction. Height, 34 in.; width, 36 1/2 in.; depth, 18 in. Shipping wt., 90 lbs.  
2K5172—List, \$75.00. Net....\$45.00



The Newhall



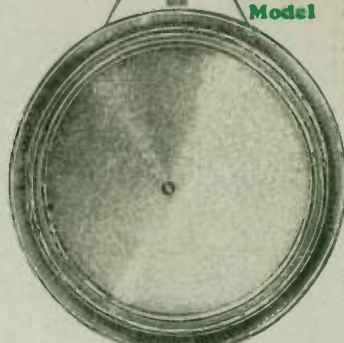
### Pierson-Newcombe-Hawley ORTHO-TYPE SPEAKER

Beautiful cabinet in authentic Duncan Phyfe period design of choice mahogany in rich Adam brown finish. Houses famous Newcombe-Hawley Orthotype Speaker and powered by Nathaniel Baldwin unit. This wonderful speaker stands in service in our store and amazes all who hear its lifelike, powerful reproduction. Width, 30 inches; height, 20 inches; depth, 18 inches. Space inside horn (16 inches deep) provides space for batteries, etc. Shipping wt., 85 lbs.  
2K5173—List, \$65.00. Net.....\$39.00

## Stevens Speaker

Model  
Wt-27

Burton  
Conoidal  
Wall  
Model



Smooth beaded circular frame, 22 inches in diameter, finished in hand-rubbed Jasper brown mahogany, firmly holds the correctly designed soundboard. The famous Stevens Armature Unit, assisted by a high quality output transformer, constitutes the electrical equipment of this speaker. It may be used with or without power amplifier as desired. The diaphragm is finished in subdued bronze, with the "Golden Clime" around the circumference. Silk picture cord with rosette and tassels. Also long attachment cord. Shipping wt., 18 lbs.  
2K5175—List, \$45.00.  
Net, each.....\$27.00

### PACENT CONE

The Pacent Cone Speaker is correct from every customer's standpoint with a balanced armature, 17-in. double cone and specially selected brown grained oiled paper. Rigidly constructed and so designed as to take extreme power amplified signals and yet be sensitive enough to respond to weak signals. The Pacent Cone is beautifully proportioned, presenting a harmonious, blending appearance wherever placed. Plug included. Ship. wt., 15 lbs.  
2K5151—List price, \$22.50.  
Net.....\$13.75



### Windsor Ortho-Type Console-ette Reproducer

An ortho-type reproducer with an 80 inch long air column and a Baldwin rival unit—built into an attractive design complete in rich walnut finish. Provides every advantage of the latest reproduction developments at moderate price. You can sell one of these to every customer who has a table model set. Shipping wt., 60 lbs., 34 inches high, 17 inches wide, 20 inches deep. Space for batteries and power units. 11 inches high, 20 inches wide, 14 inches deep. Shipping wt., 70 lbs.  
2K5174—Retail price, \$40.00.  
Your cost.....\$24.00



**WINDSOR  
ORTHO-TYPE  
CONSOLE-ETTE**



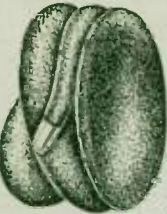
## PIONEER Moulded Horns

The material used is a special fiber that is practically vibrationless and is very durable. Arranged to take practically all standard units. Nicely finished.

**Mechanical Construction**—All horns are uniform, light in weight, will withstand all ordinary abuse without damage, pleasing in appearance, easily mounted. Interior of horn smooth, long air column in compact design.

**Acoustically**—All horns give uniform performance, designed on an exponential curve advocated by acoustic experts, are built not only to take low notes but high notes as well with all overtones. Each individual note is clearly and distinctly amplified. There is an entire absence of muffled or jumbled tones. There is no distortion. Tones are smooth and round, covering the complete true musical range.

### SUPERPHONIC HORN Type A. S.



This horn is designed to give the total reproduction qualities of the new "orthophonic" type. It can be used either with a radio set or phonograph and reproduces faithfully the entire audible scale of tones with a sweetness and clarity rarely attained. For orchestra music and singing it is superior to all other types.

**3K2150**—80-inch air column. Overall size, 12 inches round, 10 inches deep. Each, **\$6.95**  
**3K2151**—81-inch air column. Overall size, 14 inches round, 10 inches deep. Each, **\$8.70**

### GIANT ORTHO-TYPE

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.

**3K5193**—Air column, 90 inches. Bell, 18x24 inches. Depth, 15½ inches. Each, **\$10.95**  
**3K5194**—Air column, 92 inches. Bell, 18x18 inches. Depth, 15½ inches. Each, **\$9.60**  
**3K5195**—Air column, 51 inches. Bell, 14x21 inches. Depth, 14 inches. Each, **\$7.30**



### 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.

**2K2152**—Each, **\$3.95**

### CONSOLE SYMPHONIC

Designed especially for Console cabinets. Vastly superior to ordinary manufacturers' wooden horn.

**2K5196**—Air column, 60 in. Bell, 6x15 in. Depth, 10½ in. Each, **\$5.50**  
**2K5197**—Air column, 80 in. Bell, 10x20 in. Depth, 13½ in. Each, **\$6.75**



### SPEAKER TUBE



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 horns. Length, 7 in. No unit included.  
**3K2153**—Each, **.67c**

## PIONEER CONSOLE CONE

The ideal cone for building into console and an amazing value at this special Braun price. Made especially for us by the world's most famous speaker manufacturer. This fine speaker incorporates many new refinements. Although compact it produces tremendous volume and its large powerful perfected unit handles all the power given it. The reproduction is delightfully smooth, being so balanced as to give fullest value to the low frequencies as well as the high. Has 10-inch Bortex Cone with lound free edge thoroughly protected by the mounting board. Both cone and unit are securely anchored to this board, making a most rugged construction. Dimensions over all: 12x13 in.; depth, 7 in. Adjustment wing nut on back.

Push the sale of this wonderful cone to those who now have indifferent speakers in their consoles. And, in selling consoles without horns, this makes an ideal installation to complete the job. There is a big sale field for this model. Complete with mounting brackets. Shipping wt., 8 lbs.

**2K5198**—List, \$12.00. Net, each, **\$5.95**



### COMPACT CABINET HORN

**3K2250**—Each, **\$3.00**

A very compact horn designed especially for use in standard size cabinets. Required panel space only 7 inches wide and 7 inches high with depth of but 8½ inches. Made of indestructible fiber. Takes practically all standard units. Acoustically correct and delivers pure full tones without distortion or vibration.



### LOW BOY MODEL HORN

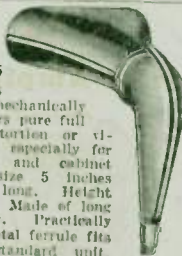


**3K2550**—Net, each, **\$3.00**  
 A very compact horn requiring space only 13 inches wide, 6 inches high and 6 inches deep. Very strong and durable. Made of moulded fiber. Has excellent tone quality. Fitting takes most standard makes of units. Can be used in cabinets or consoles.

### HIGH BOY MODEL HORN

**3K2350**—Net, **\$2.85**

This horn is acoustically and mechanically correct. It delivers pure full tones without distortion or vibration. Intended especially for use in consoles and cabinet speakers. Bell size 5 inches wide, 12 inches long. Height overall 14 inches. Made of long grain wood fiber. Practically indestructible. Metal ferrule fits perfectly any standard unit.



### VICTOR HORN

A beautiful loud speaker in the new Crinkled finish. Extra large size, adjustable unit. Gives volume and tone equal to many speakers selling at double the price. Bell diameter, 13½ inches. Height, 23 in.



**2K5146**—Retail value \$20.00. Net, **\$6.95**

**2K5152**—Smaller size, retail value, \$12.50. Net, **\$5.65**

### SNAIL SHELL LOUD SPEAKER

For use in wide cabinets or console. One of the finest reproducers on the market. Used as standard equipment on speakers selling at \$25.00. Made of processed wood fibre neatly finished in black. Produces wonderful deep, rich tones. Requires space of 7½ inches high, 11 inches wide, 8 inches deep.

**3K2450**—Without Unit, **\$3.00**  
**3K2451**—With Baldwin Rival Unit, **6.95**



### Genuine BALDWIN Speakers

**3K5129**—Concert Standard model. List, \$25.00. Net, **\$15.00**  
**3K5130**—Concert Grand. List, \$35.00. Net, **\$21.00**



Shipping weight, 10 lbs. One of the finest speakers made. Built on patented principle which insures greatest volume without distortion or chattering. Horn is of a special non-vibrating composition.

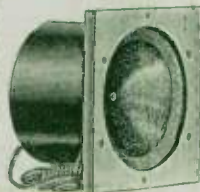
### CONSOLE DELUXE Concentrated Cone

Although only 7 inches in diameter this marvelous speaker gives tremendous bell-like, full rounded reproduction that delights the most exacting. Through the employment of a complete tone filter and a special metal sound chamber, it reproduces the human voice and all musical instruments naturally and clearly. Very sensitive, its uniform action reaches from full volume to a whisper. Free from inherent pitch, there is no "train horn" or twangy nasal tone effects. Mounting from 8x8 inches; depth overall only 5½ inches. Shipping wt., 10 lbs.

**2K5153**—List, \$35.00. Net, each, **\$14.75**  
 Same as above but without tone filter.  
**2K5154**—List, \$30.00. Net, each, **\$11.75**

### Manufacturer's Model Console Cone

(Not illustrated.) A 10-inch free edge cone of superior efficiency housed in a specially constructed wood sound chamber. Easily installed. Size overall 12½x12½ inches. Shipping wt., 8 lbs.  
**2K5176**—List, \$12.50. Net, each, **\$5.25**





## PER VOIS UNIT—"Perfect Voice"



This unit is offered as the best and most satisfactory made today. We searched the markets of the world for the perfect unit and selected the "Per Vois" as the one most nearly approaching perfection from all important angles. In tone quality it is unsurpassed and has very few equals. Likewise it is superior in sensitivity at all frequencies. It will carry more volume than any other without chattering and still retaining its wonderful quality on reproduction. Not even a power set can break it down. Most important is the fact that it will handle up to 700 volts without danger of burn out. Very few other units will consistently handle even 200 volts. FOR POWER REPRODUCTION it stands ABOVE all others. In addition it is very rugged and will stand any reasonable handling and much abuse. Extra heavy genuine tungsten steel magnet. Rust-proof throughout. Will give lifelong service in salt air where most others fail. Patented brass spring armature suspension. Will last indefinitely. So sure are we that this unit will meet every requirement that we invite you to try one at our risk for ten days. You must be convinced that it is the best or you can return the unit for credit. Shipping wt., 2 lbs.

2K2562—Retail Price, \$6.00, Your Net Cost.....\$3.60

## Phonograph Units

### Utah Unit



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

2K307—List price, \$10.00, Your net price.....\$6.00

### R. F. I. Unit

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

2K309—List price, \$7.50, Net.....\$4.50



### BALDWIN Photo

Make a loud speaker of your phonograph. Attach to tone arm of phonograph, in place of a reproducer. Fit Victor, Simola, Silvertones and other phonographs having same size tone arm. Fit other phonographs with aid of adapters shown below. Ship. wt., 2 lbs.

2K305—Baldwin, Photo list, \$9.00, Net.....\$5.85

## DULCE-TONE

### Radio Phonograph Speaker

Place phonograph needle in Dulce-Tone's grooved reel and plug into radio set. No special connections needed. Gets power direct from "B" battery circuit and is used same as ear phones or loud speaker. Use it in separate room from set if desired. Adjustable for volume. For all makes of phonographs. Produces a clear, rich tone using the phonograph sound chambers. 5-foot cord included. Shipping weight, 2 lbs.

2K810—List, \$10.00, Net.....\$6.00



## The Poly-Claro Plug

Radio's latest development. Improves the tone quality of every Loud Speaker. Eliminates "scrappy" sounds from Loud Speaker. Broadens the range; brings out bass and high tones. Adds body, solid and definition to the tone. Vastly improves summer reception by reducing noise and crackling. No matter how old the set or speaker may be, the Poly-Claro-Plug will improve the tone quality.

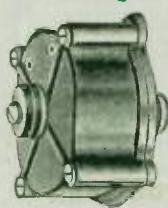
2K2539—List, \$1.50, Net.....90c

### Central Modulator Plug

Gives any device a full 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. Plug has bakelite base, with small bakelite knob on one side. Turning the knob controls the tone and volume. Can be used on any radio receiver having one or more jacks. Shipping weight, 6 oz.

2K2538—For sets with jacks. 2K2539—For sets without jacks. Plug, complete. List price, \$2.50, Net.....\$1.50

## Amplion Unit



The unit that has made the Amplion Speaker famous is offered for phonograph and console speaker use. Unsurpassed for fine tonal rendition, covering the entire musical scale with faithful and full rounded reproduction. The bases and undertones, as well as the treble are perfectly reproduced. Shipping wt., 2 lbs.

2K2552—Model AR 45, List, \$12.00, Net, each.....\$7.20

## Temple Comparator

invaluable for demonstrating Loud Speakers, comparatively. By turn of knob it switches from one horn to another without loss of a note, thus demonstrating comparative tone in a definite, practical manner. Capacity four speakers. About 3 1/2 inches high and in diameter. Shipping wt., 8 oz.

2K2553—List, \$3.50, Net, each.....\$2.10



## 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. Nipple is 3/4 in. long, 3/8 in. diameter and has 18 threads per inch. Shipping wt., 1 lb.

2K2554—List, \$7.00, Net, each.....\$4.20

### Baldwin Concert Grand

Generally known as the best. Each unit hand made, carefully adjusted and tested. Precision made at every step. Wholly imitated, but not excelled for its faithful, consistent reproduction. Nipple 3/4 inch long, 7/8 in. diameter, 18 threads per inch. 5 foot cord with tip. Shipping wt., 2 lbs.

2K2556—Baldwin Concert Grand, List, \$12.00, Net, each.....\$7.20

2K2557—Baldwin Concert, List, \$10.00, Net, each.....\$6.00



### Utah Units

Long famed for their perfect performance in all types of horns and reproducers. Extremely sensitive, yet powerful, covering the entire scale with a uniformity and fidelity that is a delight to the most critical. Polished aluminum shell completely seals magnets and armature. Standard nipples, 5 foot cord with tips. Shipping wt., 1 1/2 and 2 lbs.

2K2558—Utah "King," List, \$6.50, Net, each.....\$3.90

2K2563—Utah "King DeLuxe," List, \$8.50, Net, each.....\$5.10

### Balanced Armature Unit

New and improved method of balancing armature so as to cover complete tone range without adjustment. Large magnets of finest grade magnet steel. Special alloy diaphragm, conical and ribbed. Aluminum case. Threads 3/8 O. D., 18 thread standard. Cord with tips. Shipping wt., 2 lbs.

2K2559—List, \$5.00, Net, each.....\$2.55



### Adjustable Unit

Floating armature type. Extra large permanent magnet of fine grade magnet steel. Special construction to stand hard usage and great volume. Long cord with phone tips. Shipping wt., 1 1/2 lbs.

2K2560—List, \$3.50, Net, each.....\$1.75

### Cone Unit

Floating armature type. Large permanent fine steel magnets. Special alloy diaphragm. Strong, rigid construction—will withstand hard usage and great volume. Gives uniform, perfect reproduction over the entire range of tone. Long cord with tips. Shipping wt., 1 1/2 lbs.

2K2561—List, \$5.00, Net, each.....\$3.00

See Page 106 for Western Electric Unit

### Ekko Phonograph Adapters

Four styles to fit 98% of all phonographs. Shipping wt., 6 oz.

Ekko Connector No. 1—To connect for Edison phonograph.

2K729—No. 1, List, 25c, Net.....17c

Connector No. 2, for Columbia, Pathé, Vocalion and those having Jewell (old style) tone arms.

2K730—No. 2, List, 20c, Net.....14c

Connector No. 3, for Brunswick.

2K731—No. 3, List, 30c, Net.....20c

Connector No. 4, for Blaudin.

2K732—No. 4, List, 25c, Net.....17c

Connector No. 5, for Blaudin, Cecilian, Kimball, Orthophonic Victrola and Brunswick Primatone phonographs.

2K733—No. 5, List, 25c, Net.....17c

Connector No. 6, for Blaudin, Cecilian, Kimball, Orthophonic Victrola and Brunswick Primatone phonographs.

2K734—No. 6, List, 25c, Net.....17c

Connector No. 7, for Blaudin, Cecilian, Kimball, Orthophonic Victrola and Brunswick Primatone phonographs.

2K735—No. 7, List, 25c, Net.....17c

Connector No. 8, for Blaudin, Cecilian, Kimball, Orthophonic Victrola and Brunswick Primatone phonographs.

2K736—No. 8, List, 25c, Net.....17c



## Muter Clarifier and Tone Filter

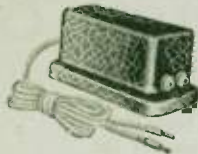
**Improves Tone • Quality  
and Volume • Protects  
Speaker**



Easily attached in a few seconds without disturbing set. Improves tone, quality and volume by protecting speaker coils from high B voltage and preventing paralysis of speaker unit. Enclosed in highly finished enameled metal container with nickel-plated posts and suitable phone cord. Size 4 in. high, 3 1/4 in. long, 2 3/4 in. wide. **3K779—List, \$5.00, Net....\$3.00**

## The Amsco Orthophone

A device consisting of a series of re-actances in one case, which, placed between any loud speaker and set, will greatly improve reception. It eliminates the direct plate current from speaker windings, 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 1/2 x 2 1/2 x 2 1/2 inches brown crystal finish. **3K5190—List, \$6.00, Net....\$3.60**



## 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 ruining 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. **3K778—List, \$5.00, Net....\$3.00**



## 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.**  
**3K781—20 ft. \$1.00 \$0.60**  
**3K782—30 ft. 1.40 .84**  
**3K784—50 ft. 2.20 1.32**



## Extension Cords

Extension cords only. Without plug or extender jack. Allow extension of head set or loud speaker.  
**3K1538—10 ft. Each \$0.27**  
**3K1539—20 ft. Each .36**  
**3K1540—30 ft. Each .62**  
**3K1541—50 ft. Each 1.10**

## Extension Connector

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



## Great Head Set Offer Unusual Value

Here is a headset known to reproduce radio broadcast absolutely true and clear. Actually equal in tone and volume to many well known brands that sell at much higher prices. Receiver cases and cups are fine polished finish. Covered head band, easily adjusted to comfortably fit the head. Only high grade materials used. You will be well pleased with their performance. Complete with 5 foot cord. **3K717—List, price, \$2.75, Net price .....\$1.30**



## Nathaniel Baldwin Receivers

**2K722—  
Net .....\$5.40**

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.



## 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.

**2K721—Frost No. 174, 2000 ohm headset, Aluminum shell, List, \$3.00, Net .....\$1.80**  
**2K720—Frost No. 175, 3000 ohm headset, Aluminum shell, List, \$3.50, Net .....\$2.10**  
**2K719—Frost No. 172, 3200 ohm headset, Bakelite shell, List, \$6.00, Net .....\$3.60**



## Brandes Headsets

**2K718—List, price, \$4.50, Net....\$2.95**  
Brandes matched tone headsets are of known quality unsurpassed in performance.



## Phone Cushions

**2K736—List, 50c, Net .....33c**  
Made of soft rubber. Light as a feather. Fits any phone. Excludes all noises and makes wearing phones a pleasure.

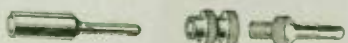


## Phone and Speaker Cords

Fine quality cords designed for long service. Covered with firm glossy black braid. If your cord is worn you should replace it at once.  
**3K737—5-foot double cord. Spade tips one end, straight tips on other. List, 55c, Net .....30c**  
**3K738—5-foot double cord. Straight tips on both ends. List, 55c, Net.....30c**  
**3K739—5-foot single cord. Straight tips on both ends. List, 35c, Net.....21c**

## Cord Tips

**2K726 Standard List, 2c, Doz.....35c**  
**2K727 Separable List, 6c, Doz.....55c**



**NET  
\$1<sup>30</sup>**

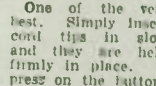
## E-Z Improved Radio Plug

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 bakelite moulded grip.  
**3K1512—List, 35c, Net.....21c**



## Pacnet Auto Plug

One of the very best. Simply insert cord tips in slots and they are held firmly in place. A press on the buttons at sides instantly releases cord, yet no amount of pulling will release cord unless buttons are pressed. Attractive bakelite shell with nickel-plated stem. No chance for shock.  
**3K1507—List, 60c, Net.....40c**



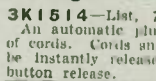
## De Jur Plug

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.  
**3K1508—Net, each, .....\$0.15 Ten for .....1.30**



## Frost New Type Plugs

**3K1514—List, 75c, Net.....45c**  
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.



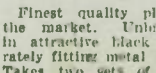
## Carter Flat Plug

Provides quick and positive means for inserting and removing cord tips without use of trimmers, push buttons, and other devices. Cord tips completely concealed.  
**3K1513—List, 75c, Net.....45c**



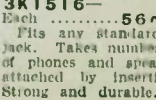
## Duplex Two- Cord Plug

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.  
**3K1516—List, 50c, Net.....30c**



## Multiple Plug

**3K1516—  
Each .....56c**  
Fits any standard jack. Takes number of phones and speakers to four. Cords attached by inserting tips into slots. Strong and durable.







## New MONROE STAGE SHIELDED 8

Developed by a Nationally Known Radio Engineer Who Has to His Credit Many Successes in the Field of High Priced Sets. Our Arrangement Brings Our Dealers this New Product at a PRICE MUCH LOWER than Would Generally Be Asked for a Set of this Type and Quality.

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 of the combined efforts of these two groups of specialists, who have spent years of effort and study in this field. We offer it as what we believe to be as fine a radio set as was ever constructed.

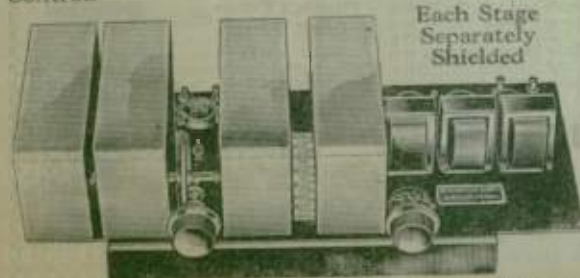
In its designing there has been incorporated all of the tested and proven refinements which have come to radio during the past year. Like all good things, it is extremely simple, both in its construction and in its operation. There are no freakish parts nor trick controls; yet many of its foremost features are not to be found in any other set now on the market.

You will observe that each stage is enclosed in a separate metal cell, shielding one from the other and from outside interference, giving a razor-sharp selectivity and a freedom from all noises. Four stages of radio frequency amplification, one detector, two stages of audio and one stage of push-pull audio in a licensed bridged circuit are employed. Perfectly balanced, it brings the maximum amplification out of every tube without howls or oscillations. For extreme sensitivity, with full stability over the entire wave band, this receiver has never been equaled. Many sets are efficient either on the high or the low wavelengths but not on both. The Monroe is equally efficient throughout the entire band. It logs perfectly always bringing in a station at the same dial reading. Before shipping each set is perfectly balanced by a trained expert and must receive the final approval of the supervising engineer.

### The Simple Control

Only two controls appear on the panel—one termed the "Steering Wheel" for the selection of stations; and the

**ONLY TWO CONTROLS**—the "Steering Wheel" for Station Finding—The "Throttle" for Volume Control.



Each Stage Separately Shielded

other the "Throttle," for the control of the volume. In tuning it you will be amazed at the easiness and smoothness with which it rolls into stations, clipping one off from the other with a sharpness never before reached in any receiver we have tested. The center dial is of the vertical drum type, calibrated numerically and in kilocycles. This dial is illuminated automatically when the set is in use. Further simplicity of operation has been achieved by the use of a combination volume control and filament switch. This, the right-hand control, shuts off and turns on the set. The children can operate this set with safety—it is sturdy and fool proof.

No expense has been spared in the design, workmanship or quality of materials used in constructing this highly perfected set. The audio transformers are of Thordarson make, especially adapted to the peculiar characteristics of this marvelous circuit. They provide an unusually lifelike tone reproduction through the entire musical scale and are generally considered to be as low quality transformers as are made.

### Thoroughly Tested

Before placing this great set on the market, extensive tests were conducted—not only in the laboratories but in actual operating conditions in some of the most difficult reception districts in the country. The most adverse conditions were sought, in order that this test might be considered more severe than any the set would likely ever be given in the hands of a purchaser. So remarkable was its performance that we have no hesitancy in recommending it to be one of the very finest radio sets ever developed. It carries the MONROE guarantee of positive satisfaction or it will be accepted for return, as explained on Page 2.

### A Fine Table Cabinet

Shown above is the specially designed Table Cabinet, into which this remarkable chassis has been fitted. Made of choice American walnut with a soft, velvety, hand-rubbed and polished finish. It measures 26x13 inches and 11 inches high.

### Price List of MONROE Stage Shielded 8-Cabinet Model

1K11463—Cabinet Model MONROE Stage Shielded 8 without accessories. Shipping wt. 35 lbs.	
List. \$115.96, Net. \$86.96	<b>\$71.25</b>
1K11464—Cabinet Model, Set Complete with all accessories for Battery Operation, including five 201-A tubes, one 200-A tube, two 112 type tubes, one Pioneer 125 amp. "A" Storage Battery, four large 45-volt Dry "B" Batteries, two 1½ volt "C" Rectifiers and complete Antenna and Ground Outfit. Shipping wt. 165 lbs.	
List. \$187.65, Net. \$141.65	<b>\$111.85</b>
1K11465—Set complete for Socket Power operation, including five 201-A tubes, one 200-A tube and two 112 type tubes, Pioneer "B" Eliminator, Pioneer "A" Eliminator 12 v., "C" Batteries and necessary Antenna and Ground Outfit. Shipping wt. 170 lbs.	
List. \$227.65, Net. \$177.65	<b>\$124.05</b>
1K11464—MONROE Stage-Shielded 8 Chassis only. Shipping wt. 45 lbs. List. \$115.96, Net. \$86.96	<b>\$60.00</b>



Our stocks are full and complete. It is our general policy to ship the same day order is received. Seldom do we fail on this quick service.

Our terms are cash. Many of our customers are well rated, but prefer to co-operate with us in the establishment of low prices by dealing on a cash basis. We ship C. O. D. to any former customer; new customers should accompany order with part payment. Prices are F. O. B. Chicago or factory. See our catalog for transportation prepaid offer on large orders.

# RUSH ORDER

for **W. C. Braun Co.**

Manufacturers—Jobbers—Distributors  
**RADIO—ELECTRICAL GOODS**  
**AUTO ACCESSORIES—SPORTING GOODS**  
 563-571 W. RANDOLPH STREET  
 CHICAGO

**Long Distance Phone Central 5294**

Date \_\_\_\_\_

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

County \_\_\_\_\_ Point If Different  
From Post Office \_\_\_\_\_

**Please Give Shipping  
Point If Different  
From Post Office**

## Our Guarantee

In addition to the manufacturer's guarantee we back every item we sell with our own iron-clad guarantee. We offer only such quality merchandise as will meet the severe requirements of this rigid guarantee.

## How Shall We Ship?

Express Parcel Post ☐Freight 

**NOTE—If by Parcel Post be sure to include enough money to cover charges.**

## If You Send Currency Register Your Letter

[illegible]





# The Del Prado Model MONROE STAGE SHIELDED 8

Single Control—Illuminated Dial

For ease of operation, stability and tone, the great MONROE Stage Shielded 8 has never been surpassed. Here is the kind of set the Dealer can sell with full confidence that he will not be troubled with service or come-backs. It assures him a healthy immediate profit and continuous good will for the store.

The Del Prado model has become instantly popular because this type of console appeals strongly to the woman who wants beautiful, tasteful furnishings for her home. Of Spanish design in all its richness and charm, constructed of finest American Walnut, front of selected butt grain. Magnificent carved grille and mouldings. Soft, velvety smooth rubbed and polished finish. It stands 40 1/2 inches high, 30 1/2 inches wide and 18 1/2 inches deep.

Built into the top is a long air column horn having that stepped up tonal travel that gives the true orthophonic effect. Coupled with the audio system in the chassis itself, this wonderful set has a tone quality that is a delight to all who hear it.

There is a big demand right now for 8 tube sets. The foresighted Dealer will do well to cater to this demand with a line of sets such as the MONROE Stage Shielded 8. And, in this line, such a wide margin is afforded that you can establish a liberal trading policy for taking in old sets as a part payment. You will find this plan a great producer of extra profits.

See Page 38 for detailed description of the MONROE Stage Shielded 8 Chassis.

List \$250

NET

**\$135.00**

Without  
Accessories

## PRICE LIST Del Prado Model

1K11431 Complete with built-in horn, but without accessories.

Shipping weight, 100 lbs. List, \$250.00. Net, each **\$135.00**

## For Battery Operation

1K11432 Set Complete with all Accessories for Battery Operation, including five 201A type, one 200A type and two 112 type power tubes, one Pioneer 120 Amp "A" Storage Battery, four large 45 v. Dry "B" Batteries, two 7 1/2 v. "C" Batteries and Complete Antenna and Ground Outfits. Shipping weight, 200 lbs.

List, \$393.00. Net, each **\$165.00**

## For Socket Power Operation

1K11433 Set Complete for Socket Power operation, including five 201A type, one 200A type and two 112 type power tubes, Pioneer "B" Eliminator, Pioneer "A" Eliminator, 15 volts "C" Batteries and necessary Antenna and Ground Outfits. Shipping weight, 175 lbs. List, \$345.00. Net... **\$184.00**



1K11434 MONROE Stage Shielded 8 CHASSIS only. Shipping weight, 40 lbs. List, \$160.00. Net **\$72.00**

## Easily the 1927-28 Radio Sensation in Fine Sets!

Those BRAUN Dealers who take on the Shielded 8 line will find themselves to have a big advantage in the field of the higher priced sets. This receiver compares favorably with the finest sets ever made and it comes to you at prices that are far below what has generally been considered fair for such quality.

You can give your customers value they never dreamed of, and you can reap a harvest of profits that have been going to other makes. We urge our Dealers to push this line. For tone quality, tremendous volume, ease of operation, stability and range, no other line can touch it! This means easy selling and the attendant extra profits.

**10 DAYS FREE TEST—SEE PAGE 3**



Console by Showers

## The Ardmore Model MONROE STAGE SHIELDED 8

Single Control—Illuminated Dial

List \$210

NET

**\$99.50**

Without  
Accessories

Here we have this amazingly efficient receiver housed in a console ideally fitted both mechanically and acoustically for this use as well as being extremely popular. The console is made with select walnut veneers and richly finished in the soft, neutral walnut color, rubbed to a velvety smoothness. The cutaway ports are nicely embellished in a fluted effect ending in carvings. The striking grille adds a touch of distinction. The large lower section measures 29 in. high, 38 in. wide and 12 1/2 in. deep. In it can be placed either a cone type or orthophonic type speaker. We have purposely left the speaker out of this set, giving the purchaser opportunity to choose just exactly the speaker he desires. The console stands 44 in. high, 30 in. wide and 16 in. deep.

This splendid set represents a value seldom if ever approached. It gives the dealer a feature item in the field of fine 8-tube receivers.

## Follow Braun Selling Plans

Our Sales Promotion Department stands ready to help any MONROE Dealer to sell the maximum number of receivers and accessories in his territory. See page 22 and take advantage of this support.

See Page 38 for detailed description of Monroe Stage Shielded 8 Chassis.

## PRICE LIST Ardmore Model

1K11435 Complete, but without horn and accessories. Shipping weight, 100 lbs. List, \$210.00. Net **\$99.50**

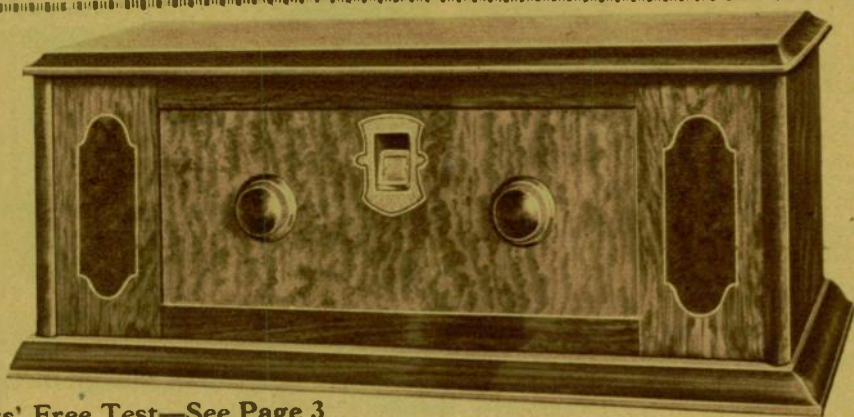
## For Battery Operation

1K11436 Set Complete, less Speaker, but with all accessories for Battery Operation, including five 201A type, one 200A type and two 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, four large 45 v. "B" Batteries, two 7 1/2 v. "C" Batteries and complete Antenna and Ground Outfits. Shipping weight, 240 lbs. List, \$263.00. Net **\$129.50**

## For Socket Power Operation

1K11437 Set Complete for Socket Power Operation, including five 201A type, one 200A type and two 112 type power tubes, Pioneer "B" Eliminator, Pioneer "A" Eliminator, 15 volts "C" Batteries and necessary Ground and Antenna outfits. Shipping weight, 200 lbs. List, \$304.00. Net **\$148.50**





10 Days' Free Test—See Page 3

We offer this as the

# World's Finest 6-Tube Receiver

*The Creation of Distinguished Radio Engineers  
Who Class this as the Crowning Achievement of their Careers*

Here we have brought to the highest point of development the skill of the mechanic and the ingenuity of the radio engineer. The result, first, is the smooth, positive action of the single dial tuning control, with its double friction ball-bearing drive. The driving mechanism is rigidly attached to the heavy steel base frame, insuring perfect alignment and permanent rigidity at all times. No easier receiver control, nor more reliable, was ever devised.

Precision construction—built like a watch—coupled with the finest selected parts and perfected space-wound solenoid coils bring a perfect balance to this wonderful receiver. It is

## Each Stage Shielded

Each stage of r. f. and the detector are completely enclosed in individual metal cells. This effectively prevents any inter-stage coupling, shuts out any outside interference, increases the selectivity and makes for generally quiet operation. It slides into station after station with a smoothness that is a revelation.

## Constructional Details

The frame of the Chassis is made of heavy steel. The cell shields are of polished aluminum. The 7x18 inch panel is metal in rich grain walnut finish. The drum dial is calibrated for kilocycles and is automatically illuminated when the set is turned on. The entire tuning is done with one control. The other control varies the volume and acts as a switch for turning the set on and off. Neat, compact, efficient—a businesslike appearing set that is favored by all who see it.

## Its Performance Almost Magical

So perfectly made, so delicately yet staunchly are all parts balanced, that it operates to fullest efficiency at all times. You need never make excuses for it. There is maximum amplification throughout the entire broadcast range, per-

equally efficient on the high as well as the low wave lengths. No oscillations, no squeals or howls, yet razor-edge selectivity and tremendous full volume are accomplished.

It is of the tuned r. f. type, yet with many refinements that bring it to a high point of perfection. The last stage of audio is arranged for power tube operation.

There are two stages of transformer coupled audio frequency amplification, employing giant low ratio Thordarson transformers, generally considered the finest made. This is an example of how no expense has been spared in the construction of this splendid receiver.

mitting the reception of distant stations with great volume. It gets everything in the air and reproduces it with great power and fidelity of tone. For very adverse conditions, a simple control is placed on the sub-panel, which cuts out all overlapping of stations when interference is bad. This special refinement fits this marvelous receiver for any and all conditions.

Sum up all these features and make comparisons with receivers costing twice the special price we set on it, and then you will realize what a tremendous value it is.

## The Table Model

The beautiful table cabinet illustrated above is of finest American walnut in rich piano finish. It measures 30 inches long, 15 inches deep and 11 inches high. It was selected especially for this fine chassis. In connection with one of the fine battery tables shown on page 116, it makes a splendid appearance.

## PRICE LIST Table Model

1K11438 Cabinet Model Complete without accessories. Shipping weight, 56 lbs. List, \$90.00. **\$47.75**  
NET.....

## For Battery Operation

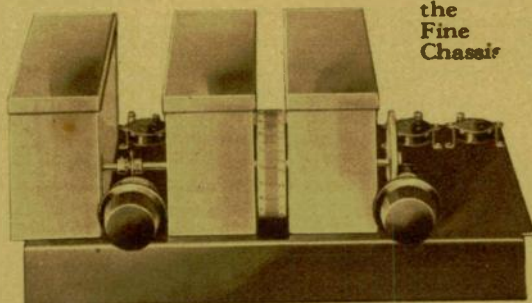
1K11439 Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Ground and Antenna outfits. Shipping weight, 160 lbs. List, \$142.95. **\$74.50**  
NET.....

## For Socket Power Operation

1K11440 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries and necessary Ground and Antenna outfits. Shipping weight, 150 lbs. List, \$175.00. **\$95.95**  
NET.....

1K11446 MONROE Stage Shielded 6 CHASSIS only. Shipping weight, 35 lbs. List, \$75.00. **\$33.75**  
NET.....

Shows  
the  
Fine  
Chassis





# The Symphonic Model

## MONROE STAGE SHIELDED 6

### Single Control—Illuminated Dial

This wonderful model puts MONROE dealers in a position to combat any competition in the market. Strictly a quality receiver, it may be offered at a price that strikes a happy medium. Thousands of homes can now have as fine a radio as can be had, yet not strain their resources in buying it.

#### The Symphonic Console

This style of console has come to be considered by many as the ideal radio cabinet. Compact, a generally pleasing appearance, with a large chamber to house the horn, its acoustic properties are superior to most other cabinet types. The style is one that will harmonize nicely with almost any other kind of furniture. It is constructed of choice American walnut in a beautiful dull rubbed, velvety smooth finish. A striking feature is its richly designed grille, hiding from view the special MONROE symphonic horn. This horn employs an 84-inch long air column and is fitted with genuine Baldwin Unit. This combination provides deep, mellow and rounded tones that are very delightful. You will be amazed with the purity and bell-like clearness of the reproduction passing through this wonderful speaker. The console is 30 in. high, 27½ in. wide and 18½ in. deep. The lower compartment measures 24 in. wide, 15½ in. deep and 19 in. high. So compact is the speaker that plenty of space is left for batteries or power units.

#### The Great Shielded Chassis

A masterpiece of radio engineering is this marvelous receiver. It reaches out and gets everything in the air at the whim of the operator and brings in reception with great volume. Its ease of control and tuning, its lifelike reproduction, its stability and day to day reliability are fast making it one of the country's most popular receivers. A more detailed description of this wonder set is given on the opposite page.

#### PRICE LIST Symphonic Model

1K11443 Symphonic Model Complete with inbuilt speaker, but without accessories. Shipping weight, 105 lbs. List, \$165.00. NET... **\$78.75**

##### For Battery Operation

1K11444 Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 205 lbs. List, \$217.95. NET... **\$105.50**

##### For Socket Power Operation

1K11445 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits, Shipping weight, 190 lbs. List, \$258.00. NET, \$126.95.  
1K11446 MONROE Stage Shielded 6 CHASSIS only. Shipping weight, 35 lbs. List, \$75.00. NET... **\$33.75**



Console by Plymouth

### Let Braun Help You Sell More Receivers

We maintain a staff of trained Sales Specialists to aid Braun Dealers capture the supremacy in set selling in their respective towns. See page 22 for a complete explanation of this sales service.

**10 Days Free Test** See Page 3

# The Barcelona Model

## MONROE STAGE SHIELDED 6

### Single Control—Illuminated Dial

For stunning beauty, it would be difficult to imagine anything more charming than this beautiful model. It incorporates both the master handiwork of the cabinet maker and the ingenuity of the radio builder.

The Console is by Pierson, with all the fine quality of materials and master workmanship the name implies. It is made from choice figured matched butt walnut and finished in a soft neutral natural walnut color. This sets off to best advantage the antique Spanish hardware. It is richly ornamented by a series of mitered return mouldings and generous spindle carvings, the true Spanish style.

Behind the elaborate grille is a large, long air column Newcombe-Hawley Orthotype horn fitted with a genuine Baldwin Concert Grand speaker unit. Coupled with the peculiar acoustic qualities of the cabinet itself, there is a richness and sweetness of tone that is seldom attained.

The dimensions over all are: Height, 42 inches; depth, 16 inches; width, 36 inches. The lower compartment measures 25 in. high, 26½ in. wide and 16½ in. deep, providing ample space for all power units as well as the gigantic horn.

#### As Fine a Set as Can be Built

This wonderful receiver has the new Stage Shielded Chassis as described in detail on page 40. With an illuminated single dial, one station finding control and one volume regulator, this set provides all those refinements of radio engineering developed during the past year. For ease of control, powerful volume, fidelity of reproduction and general reliability of operation, none surpass it.

#### PRICE LIST Barcelona Model

1K11447 Barcelona Model Complete with inbuilt speaker, but without accessories. Shipping weight, 130 lbs. List, \$225.00. NET... **\$123.75**

##### For Socket Power Operation

1K11449 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 205 lbs. List, \$318.00. NET... **\$171.95**



Console by Pierson

##### For Battery Operation

1K11448 Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 225 lbs. List, \$277.95. NET... **\$150.50**



# The Embassy Model

## MONROE

STAGE SHIELDED 6  
SINGLE CONTROL ILLUMINATED DIAL

There are so many talking points about this Stage Shielded line that it become an easy task to sell them fast. Let your customer see with what smoothness and sharpness tuning is accomplished. See how it reaches out, bringing in long distance stations with full loudspeaker volume. You can make such a convincing demonstration that sales work is reduced to a minimum.

This Embassy Console is of Spanish design, a period style very much in vogue during the past few years. It is a gem of the designer's art, retaining all the charm of the Spanish design and deftly fitting it to practical radio use. The finest American walnut veneers are used in its construction with choice burli grain front. Rich polychrome overlays set off the front doors. Decorative hinges and pulls are used. It stands 48 in. high, 25 in. wide and 14 1/2 in. deep. The large battery compartment at bottom is 21 1/2 x 12 1/2 inches, providing ample space for all power units. The grille at top is especially pleasing in design and hides a long tone travel horn of the most perfect acoustic qualities; the unit is of the concert type, producing great volume with sweetness and fullness over the entire musical scale.

### A Chassis You May Make Big Claims For

This fine set incorporates the most advanced engineering ideas and the most refined mechanical construction. One look at the chassis shows with what care and precision it has been made. Before leaving our laboratories it is tested by an expert, who balances it perfectly, assuring perfect operation from the day of installation. You can stake this fine receiver, the chassis of which is fully described on page 39, against any and all other makes and win every time!

### Price List Embassy Model

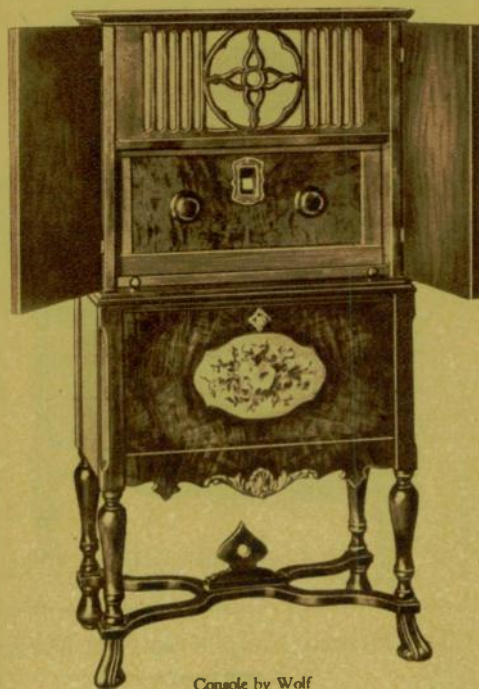
1K11450 Embassy Model Complete with inbuilt speaker, but without accessories. Shipping weight, 105 lbs. List, \$170.00. Net. **\$81.75**

### For Battery Operation

1K11451 Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 205 lbs. List, \$221.50. Net. **\$108.50**

### For Socket Power Operation

1K11452 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 195 lbs. List, \$255.00. Net. **\$129.25**



Console by Wolf

These Fine Receivers Defy All Comparison

10 Days Free Test See Page 3

# The Claridge Model

## MONROE

STAGE SHIELDED 6  
SINGLE CONTROL ILLUMINATED DIAL

Like in the field of the automobile, trading in old radio sets on newer, more advanced models has become a general practice. There is often a loss on such a trade, but therein comes another desirability of the Monroe line, in that it affords you such a wide margin of profit that you can afford a liberal offer of trade and still have a good net for yourself. This is the kind of model to push on the trading idea. Thousands of folks would trade in for a better radio if the Dealers would get after them.

Taken from the master old English designers, the style of this cabinet makes an instant appeal. The front is beautifully figured walnut with satinwood overlay on the frieze. Heavily turned and carved pilasters. Mitered door mouldings are set off with antique English pulls. The illustration shows the richly designed grille, behind which is the great Newcombe-Hawley Orthotype Loudspeaker with the marvelous Baldwin Concert Grand unit. This speaker, together with the powerful audio system of the set itself, assures a volume and purity of tone that places this in the class of the very finest sets made. Console stands 50 in. high, 33 in. wide and 21 1/2 in. deep. The large battery compartment is 21 in. high, 31 in. wide and 10 in. deep.

### You Can Win with Value

Every dollar that the purchaser puts into a MONROE set buys actual worth. Not a penny is wasted in expensive advertising and trick selling plans. We give our dealers the finest sets that can be made at the prices quoted. This gives them a great advantage over the dealer handling the usual line in which there is a "loading" charge of several dollars to cover costly distribution methods. The MONROE line sells on demonstration, because it is superior. Try out the idea with this Claridge Model and see how well it works!

### Price List Claridge Model

1K11453 Claridge Model Complete with inbuilt speaker, but without accessories. List, \$250.00. Net. **\$136.75**

### For Battery Operation

1K11454 Set Complete with all Accessories for Battery Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, three large 45 v. "B" Batteries, 15 v. "C" Batteries and necessary Antenna and Ground outfits. Shipping weight, 235 lbs. List, \$301.50. Net. **\$163.50**



Console by Pierson

### For Socket Power Operation

1K11455 Set Complete for Socket Power Operation, including four 201A type, one 200A type and one 112 type power tubes, one Pioneer "A" Eliminator, Pioneer "B" Eliminator, 15 volts "C" Batteries, necessary Antenna and Ground outfits. Shipping weight, 225 lbs. List, \$335.00. Net. **\$185.50**



# PIONEER MOGUL B Power Unit

**Fixed Resistor Type**  
**Dependable, Uniform, Constant, Quiet Power**

There are many able manufacturers of "B" Battery eliminating devices. Their products are widely used and give excellent satisfaction. Some are better than others. Some operate indifferently and some are actually unsuccessful.

We knew all these conditions when we sought a manufacturer to make for us a "B" eliminator which would stand up under our guarantee and policies and on which we would care to place our own name. We knew also what made these devices good. We knew that the heart of the eliminator was the filter. So, quite naturally, we selected a manufacturer long famed for the high quality of his product in the eliminator field.

Thus, you find in the PIONEER MOGUL, a B Power Unit developed both from the engineering and merchandising standpoint. It is practical. It performs perfectly, because made so. It is an utterly perfect as expert, skilled radio-electrical engineers can make it. For value, it is easily far ahead of any device yet marketed, because that is what we set out to make it. To the radio merchant, it represents the best B unit to put, because it gives him a wide margin of profit and is of such quality as to hold our servicing and to make friends.

The highest development in B Power Units. It is of the fixed resistor type which has been found best because our type of fixed resistor stays put and the voltage is constant all days. There are sufficient taps to fit any and all conditions. The current flow is constant, noiseless, humless, steady and powerful. It handles up to ten tubes, or seven regular and one power tube.

Its rating is 48 volts, at 150 volts and delivers 100 volts to the power tube. It employs either full or half-wave vacuum rectifying tube, insuring stability, long life and uniform output.

The filter condenser, transformer, chokes, are all of the very finest materials, manufactured by skilled technicians and assembled by expert workmen. Each unit is subjected to the most severe tests. A precision instrument in every case, we do not hesitate to offer it strictly on a quality-of-performance basis. Compare it with any other B power Unit, regardless of cost or make. It will out-perform any that we have tested and we have tested them all. It adds extra reaction quality to the set, because of the stronger capacity in the filter current, bringing out the deep low notes as well as the highest pitched notes, with beautiful, life-like clarity, in full volume.

Added to its innate quality is attractive self-appearance. The case is of metal with a brown lacquer finish, with black bakelite front panel. Size: 6 1/2 in. wide, 7 in. high, 4 1/2 in. long. Ship, wt., 2 1/2 lbs.

2K5288—For Raytheon Tube. List with tube, \$39.50. Net, \$38.00.  
2K5298—For UX200 Tube. List with tube, \$42.50. Net, \$41.00.



Retail Your \$18.95  
Price Net  
\$39.50 Cost

with Raytheon Tube

## 10 Days Free Trial

Order a sample PIONEER MOGUL in the regular size. After 10 days a post do not feel it to be all we claim, return the sample and we will promptly refund.

# PIONEER MASTER B Power Unit

**Variable Resistor Type Compact—Ideal for Small Console Use**

While it takes but minimum space, this compactness has been accomplished simply through the ingenious arrangement of parts. The units of construction are in themselves actually invisible. Here is another example that merchandising and manufacturing genius may be combined to produce products of astounding merit. Braun writes to be constructive and to help Braun, seeking to be just a step ahead of all others. This marriage, arranged, engineered-to-perfection "B" Power unit is the result of this policy.

We believe this to be the lowest priced, high-quality, successful B socket power unit on the market. After perfecting the design, establishing its installing power and operation we collaborated with the factory in its mass production, in supplying thousands of dealers, to the end that its cost might be brought to the minimum.

Made especially for us with the very latest exclusive hook-up. It brings to the set that smooth, even, powerful flow of current needed in amplification, that brings out clearly and strongly every tone. It handles all sets up to 10 regular tubes or their equivalent in regular and power tubes. Variable resistances control the current input to detector, intermediate, and amplifier tubes.

The filter system is of extra capacity, smoothing out every ripple and hump from the alternating high current current. There is nothing to deteriorate, wear out, or replace—B will last a lifetime. Capacity, 50 mfd., up to 150 volts.

The case is of a shape to fit easily into the new compact consoles so much in vogue. Only 4 1/2 inches wide, it may be set in beside burner or other units. Only 13 inches long including the knobs and 6 inches high. Baked brown enamel finish. Two pushy marked—Neg. Det. Int. Power, the variable resistances, Det. Int. and Power, making the hooking up and operation easy for even the most inexperienced operator. You are this Master B Power unit in your sale. It will bring you a host of new friends and a volume of business that will prove a factor in your success. You can freely recommend and guarantee it. Free from all hum, silent, even against all voltage fluctuations. Shipping weight, 15 pounds.

2K5289—Complete with Raytheon or Q. R. S. 63 Mill. Rectifying Tube. List, \$52.50. Net, each, \$51.00.



Retail \$32.50

\$17.50

## BREMER-TULLY

### "B" Power Unit

Made by a company widely known for the superior quality of its products. Good work in voltage is eliminated—there are no adjustments after installation. No knobs to turn—nothing to lose or get out of order. Every part of this splendid unit is made of the finest materials—and a single B-T unit has even been returned to the factory on account of convenient break-down. A distinctive feature is the four-way switch, which in combination with the taps quickly fits the unit to any conditions. Handles up to 10 tube sets. Capacity, 150 mfd. at 50 volts. Very compact, size 4 1/2 x 5 1/2 x 3 1/2. For all 60 cycle 110-115 volt A. C. Shipping wt., 17 lbs.



2K5290—List, without tube, \$37.50. Net, each, \$36.00.  
2K5291—Raytheon Oil Rectifying Tube. List, \$4.50. Net, each, \$2.70.

## ALL-AMERICAN

### Constant "B" Battery Eliminator

Due to the good quality of the transformer, chokes and other instruments used in its manufacture it is absolutely noiseless in operation and delivers steady output voltages. 5 output taps, negative, plus 45, plus 67, plus 90 and "P" indicating power tube. This complete range of voltages makes the ALL-AMERICAN eliminator highly desirable for use with any receiver. The controls allow the operator to vary voltages on the detector and radio frequency (57 volt) stages. The 45-volt tap output can be varied from 18 to 60 volts. Likewise the 67-volt tap may be varied from 18 to 120 volts. The "High-Low" switch keeps the output voltage at rated values despite variations in milliamperes drawn.

Attractively finished in marine crystalline. Its dimensions are 7 in. wide, 5 1/2 in. high, and 8 in. long. For 110-volt 50-60 cycle A. C. Shipping wt., 22 lbs.



2K5292—List, with Raytheon Tube, \$37.50. Net, each, \$36.00.  
2K5293—Special for 110-115 cycle 110 volt A. C. List, \$42.50. Net, each, \$25.50.

## ACME "B" Power Supply

A distinctive feature of this fine unit is the voltage control through a rheostat in the primary. Fixed resistances are used in the output circuits. This provides simple ample control and the detector and B. P. voltages may be changed when desired. Five taps are provided and voltages may be obtained as follows: Detector plus 125 to 45 volts; B. P. 90 volts; A. P. 145 volts and last A. P. 190 volts and B. P. Very attractive case finished with tan leather. Uses Raytheon tube rectifier tube and will supply up to 150 volts for sets of eight tubes or less. Dimensions are: 2 1/2 x 3 1/2 x 7 1/2 inches. Operates on 110 volts, 60 cycle A. C. current. Shipping weight, 25 lbs.



2K5294—List, with Raytheon tube, \$35.00. Net, each, \$21.00.





## KODEL "A" Transifiers

Models  
102 and 103

The perfect KUPROX "A" battery eliminator for all receiving sets. Absolutely no hum, increased

volume, sustained power. Contains no battery or charger. Always ready for use. No liquids or tubes and requires absolutely no attention. Guaranteed for a minimum life of 1,000 operating hours.

**2K7750**—Kodel Model 102 "A" Transifier for all 6 Tube and Smaller Receivers and handles one Power Tube. Maximum capacity, 2 amperes at 6 volts. Automatic control switch. Size, 5 1/2 x 12 1/4 inches. Shipping wt., 35 lbs. For 115 volt, 50-60 cycle A. C. current. List, complete \$29.50. Net, each.....\$17.70

**2K7751**—Kodel Model, No. 103. For all receiving sets, no matter what size. Maximum capacity, 3 amperes at 6 volts. Automatic Switch Control. Size, 5 1/2 x 10 1/2 x 12 1/4 inches. Shipping wt., 40 lbs. For 115 volt, 50-60 cycle A. C. current. List, complete, \$39.50. Net, each.....\$23.70

## KUPROX Standardized Trickle Charger Replacement Unit



### Makes Any Trickle Charger Dry

Replaces electrolytic jars on all trickle chargers, power units, "A" powers, etc. To install, simply disconnect electrolytic jars,

removing from charger, if possible; otherwise empty acid or other liquid. Install KUPROX unit in place of jars or set on top of same. Connect to trickle transformer and battery. Gives full wave rectification and double former charging rate (.8 to .1 amps.). Shipping wt., 5 lbs. **2K7752**—List, complete, \$4.50. Net, each.....\$2.70

## KUPROX Rectifier Replacement Unit

Replaces all acids, liquids, bulbs, vibrators, etc. Doubles charging rate of any trickle charger, eliminates noise, heat, adjustments, replacements. Requires no attention—lasts indefinitely. Develops 2 1/2 ampere charging rate. Shipping wt., 3 lbs.

**2K7753**—List, \$4.50. Net, each.....\$2.70



### Triple Duty Gold Seal Hom- Charger

Fast 5 ampere charging rate—charges all auto and radio batteries over night. Rejuvenates paralyzed and lifeless tubes. Supplies A. C. filament current for power amplifying tubes. And, it does these three jobs with full efficiency. Uses no bulbs or liquids. Shock-proof, fire-proof—approved by fire underwriters. Size, 6 1/2 x 7 1/2 inches. Shipping wt., 15 lbs.

**2K7770**—For 115 v. 60 cycle A. C. List, \$19.50. Net.....\$11.70  
**2K7754**—For 115 v. 25 cycle A. C. List, \$21.00. Net.....\$12.60

# Kodel A & B Radio Transifiers

Perfect A and B power  
from your light socket!



## KUPROX Trickle "B" Recharger

Recharges dry cell "B" batteries to a certain limited degree, gives longer life to ordinary dry cell "B" batteries.

Operation is entirely automatic and plate current is practically consumed direct from light socket. Supplies 45, 90, 135 and 180 volts "B" from 115 volt, 50-60 cycle A. C. circuit. Shipping wt., 8 lbs.

**2K7755**—Complete with Tube. List, \$10.00. Net, each.....\$6.00  
**Kuprox Trickle Charger** For charging 6 volt batteries from 115 v. 60 cycle A. C. Shipping wt., 8 lbs.  
**2K7769**—Complete. List, \$10.50. Net.....\$6.30

## KODEL "B" Transifier



Models 101  
and 110

Model 101 is the perfect "B" eliminator for all 6 tube and smaller receivers, delivering full 180 volts for power tube operation at 35 milliamperes. Separate taps for 45, 90 and 180 volts. Size, 11 x 11 x 7 1/2 in. Shipping weight, 15 lbs.

Model 110 is for larger sets, up to 10 tubes, delivering full 180 volts with variable milliammeter detector control, 10-80 volts and separate taps for 45, 90, 135 and 180 volts, "B" current. Guaranteed capacity, 45 milliamperes at 180 volts.

Both are absolutely noiseless—positively no hum—giving increased power and perfect reception results. Both operate on 115 volt, 50-60 cycle alternating current. Size, 5 1/2 x 10 1/2 x 12 1/4 in. Shipping wt., 22 lbs. Uses 2-216 Type Tubes.

**2K7756**—Model 110. List, without Tube, \$39.50. Net, each.....\$23.70  
**2K7757**—Model 101. List, without Tube, \$26.50. Net, each.....\$15.90

## KODEL "B" Transifier



Model 60

Ideal "B" Eliminator for 3, 4 and most styles of 5-tube receivers at an amazingly low price. Costs little more than set of "B" batteries. Insures maximum voltage, perfect reception, increased power. Contains no liquids or jars

—requires no adjustment. Uses standard rectifying tube. Absolutely noiseless in operation. Output 45 and 90 volts at 20 M. A. For 115 volt 50-60 cycle A. C. current. Size, 3 1/2 x 8 1/2 x 5 1/2 inches. Shipping wt., 14 lbs.

**2K7758**—List without tube, \$14.50. Net, each.....\$8.70  
**2K7759**—Rectifying Tube. List, \$2.50. Net.....\$1.50



## "B" Eliminator Voltage Regulator

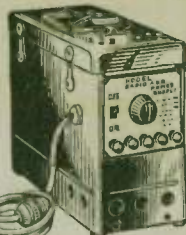
For setting voltage output of all "B" Eliminators. Range 0-500 volts. Portable type. Accurately hand calibrated and hand finished with silver metal dials.

Shipping wt., 6 oz.  
**2K7760**—List, \$5.00. Net, each.....\$3.00

Same as above but calibrated 0-500 volts.  
**2K7761**—List, \$6.00. Net, each.....\$3.60

For testing A. C. current supply line 0-150 volts.  
**2K7762**—List, \$5.00. Net, each.....\$3.00

## KODEL "A," "B" and "C" Transifiers



Perfect, complete and permanent light socket power for all receiving sets. Contains no acids, liquids or charging bulbs of any kind. Clean, safe, silent—requires no attention whatever. Fitted with new KUPROX dry rectifier and standard "B" eliminator tube.

Model 106 combines both the KUPROX 161 "B" and 101 "A" transifiers in a common cabinet. Capacity, "A", 2 amperes, 6 volts; "B", 45, 90 and 180 volts at 35 milliamperes. Ample for all receivers with 6, 201 "A" or 5 201 "A" and one power tube. Size, 5 1/2 x 10 1/2 x 12 1/4 in. Shipping wt., 43 lbs. For 115 volt, 50-60 cycle A. C. current.

**2K7763**—Model 106 "A" and "B" Transifiers. List, complete without "B" eliminator tube, \$58.50. Net, each.....\$35.10

Model 107 Super-Power Combination "A," "B" and "C" Transifier. Capacity, "A", 3 amperes at 6 volts; "B", 100 milliamperes at 180 volts with intermediate taps; 10 to 80 Variable Detector Voltage; 70, 90, 150 and 180 volt; "C", 4, 10, 22 1/2 and 40 volts. Replaces all "A," "B," and "C" batteries on any set, regardless of size or voltage requirements. Size, 10 1/2 x 8 1/2 x 12 1/4 inches. Shipping wt., 75 lbs. For 115 volt, 50-60 cycle alternating current.

**2K7764**—List, without Tubes, \$97.50. Net, each.....\$58.50  
**2K7765**—Rectifying Tubes, extra (2 required). List, \$5.00. Net, each.....\$3.00

## KODEL No. 120 Combination

### Power Amplifier and "B" Transifier



For all receiving sets. Adds one stage of power tube amplification to any receiver without change in wiring. Eliminates all "B" batteries—absolutely no hum. Gives greater volume—better tone—reduces atmospheric and electrical interference. Contains no liquids—absolutely clean, safe and silent. Supplies 45, 90, 180 volts "B" and 45 volts "C" current at output of 35 mls. For 115 volt 50-60 cycle A. C. Size, 5 1/2 x 10 1/2 x 12 1/4 in. long. Shipping wt., 24 lbs.

**2K7766**—Model 120, without Tube. List, \$45.00. Net, each.....\$27.00  
**2K7759**—Rectifying Tube. List, \$2.50. Net.....\$1.50

## MODERN "B"

### Compact



No unwieldy bulk, no noise. The condensers which are the heart of the Eliminator are made by the manufacturer of the finest radio condensers in the world. Furnishes a strong, even flow of voltage, quietly, surely—"as constant as Niagara, silent as the Sphinx." Neat metal case finished in olive green crystal lacquer. Tube fully enclosed and protected from damage. Three "B" output connections. Delivers up to 245 volts at 10 M. A. For all 115 volt 50-60 cycle A. C. Shipping wt., 45 lbs. Uses Raytheon Type Bulb.

**2K7768**—List, without bulb, \$26.50. Net, each.....\$15.90



# Balkite Radio Power Units



**Model "K"  
Trickle Charger**  
The most popular charger on the market. A low priced model of limited capacity. A. C. 110 volt. Charger rate .5 ampere. For use with sets of 6 tubes or less. Once connected to the battery it may be left on permanent charge, keeping the battery fully charged at all times, and converting it into an "A" power unit. Operates from 110-120 A. C. with models for 50 or 60 cycles. Dimensions: 2 1/2 x 5 1/2 x 5 1/2 inches high. Charging rate: .5 amp. Ship. wt., 5 1/2 lbs. **2K855**—List, \$7.50, Net, each .....\$4.50



## Model "N" Large Trickle Charger

A new trickle charger of increased capacity to serve large sets and power tubes. Has two rates, .5 and .3 ampere. The first rate is sufficient as a trickle charger for sets up to 5 tubes. The second for sets of up to 8 tubes, including power tubes. Water capacity 16 ounces. Requires addition of water about once a month. Operates from 110-120 A. C. current. Dimensions: 4 1/2 x 7 1/2 x 6 1/2 inches high. Charging rates: .3 and .5 amp. Ship. wt., 8 1/2 lbs. **2K857**—For 50-60 cycle. List \$9.50, Net, each .....\$5.70  
**2K856**—Model R. N. Special for 25 cycle current. List, \$11.00, Net, each .....\$6.60

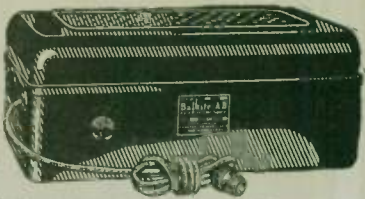


## Model "J" Full Rate and Trickle Charger

The standard rapid radio battery charger for either 4 or 6 volt "A" batteries. Has two charging rates. A low rate which will keep continuous or trickle charge is sufficient to keep the battery at full power. A high rate for heavy duty use. Noiseless in operation and in most instances can be used while the set is in operation. Variable electrolyte level. Operates from 110-120 A. C. current. Models for both 25 or 60 cycles. Dimensions: 5 x 8 1/2 x 7 1/2 inches high. Charging rates 2.5 ampere high rate; .5 amp. low rate. Ship. wt., 18 1/2 lbs. **2K5271**—List, \$17.50, Net, each .....\$10.50  
**2K5283**—Special Model R. J. for 25 cycle 110 volt current. List, \$19.50, Net, each .....\$11.70

## The "AB" (Batteryless) Replaces Both "A" and "B" Batteries

Balkite "AB" consists of Balkite "A" and Balkite "B" in one housing. The "A" side is a complete rectifier and electrolytic filter condenser combined in one cell. The "B" side is the new improved Balkite "B". It has no tubes to burn out or replace. Its current output is constant and uniform, and it delivers to the set at all times the same current delivered by batteries when these are free and fully charged. Requires no adjustments. Shipped so that water only need be added to the unit when it is received. All connections to the set are made inside case.  
**2K5284**—Model 6-150. Dimensions: 10 1/2 x 18 1/2 x 7 1/2 inches overall. Operated from 110-120 volts, 60 cycle A. C. Output, 6 v. 2 amp. "A"—40 mil. at 135 v. "B" current. Shipping weight, 30 lbs. List, \$59.50, Net, each .....\$35.70  
**2K5282**—Balkite "AB" model 6-180. Output, 6 volts 2 ampere "A" current. 55 milliamperes at 180 volts "B" current. Dimensions: 10 1/2 x 18 1/2 x 7 1/2 inches overall. Operated from 110 volt A. C. 60 cycle current. Shipping weight, 30 lbs. List, \$67.50, Net, each .....\$40.50  
**2K5272**—Special for 25 cycle current. List, \$69.50, Net, each .....\$41.70



## "B-W" Popular Priced "B" Supply

The popular low priced model. Recommended for sets having 5 tubes or less, and requiring 67 to 90 volts. Has separate tap for detector tubes. Dimensions: 3 1/2 x 7 1/2 x 8 1/2 inches high. Operates on 110 volt A. C. current, 60 cycles. Special model for 25 cycle. Efficient, noiseless and furnishes constant current without annoyance of continuous adjustments. This model has become very popular and for the money is unmatched in value. Shipping weight, about 15 lbs.  
**2K5273**—List, \$22.50, Net, each .....\$13.50  
**2K5274**—Model "B" W. R. Special for 25 cycle current. List, \$27.50, Net, each .....\$16.50



## "B"-180 Universal "B" Supply

A new improved universal model for all sets using any type of tube including 112 and 171. Remarkably smooth unfluctuating uniform output. Meets the needs of very large sets where tone quality is required. Intermediate taps for smaller sets. Output 55 milliamperes at 180 volts A. C. 60 cycle current. Compact, dependable. Shipping weight, 25 lbs.  
**2K5275**—List, \$39.50, Net, each .....\$23.70



## "B"-135 New Improved Model

A new improved type for any set, including sets using 112 type tubes. Smooth, unfluctuating, uniform output throughout the period of operation. Output 46 milliamperes at 135 volts. Dimensions: 4 1/2 x 8 1/2 x 8 1/2 inches high. Operates on 110 A. C. current, 60 cycles. Unquestionably one of the best socket power "B" supply devices on the market. Shipping weight, 18 lbs.  
**2K5276**—List, \$32.50, Net, each .....\$19.50  
**2K5285**—Special for 25 cycle current. List, \$37.50, Net, each .....\$22.50



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

Replaces "A" batteries entirely and supplies a noiseless, uniform "A" filament current direct from the light socket. Replaces either storage or dry "A" batteries. Employs no battery in any form. Does away with batteries, chargers, relays and switches. Consists of a rectifier, and electrolyte filter-condenser combined in one cell. Positively noiseless in operation and has no hum. No tubes to burn out or replace. Its current output is uniform and constant. Operating only during reception, it is the most economical source of "A" current and outlasts any other power unit. The only difference between this unit and other Balkite units is that it does not use the standard Balkite electrolyte, but is shipped dry and requires the addition of water only. Rated output: 6 volts, 2 ampere. Dimensions: 8 x 10 1/2 x 8 1/2 inches high overall. Operates from 110 volt A. C. 60 cycle current. Shipping weight, 33 lbs.  
**2K5277**—List, \$32.50, Net, each .....\$19.50



## Burns B-POWER



Handles all sets of six tubes or less including those having 171 power tubes in the last stage. No hum—no acid—no voltage drop even under the heaviest load. Delivers 180 volts at 35 mils with ample reserve power. Three positive taps, Detector, Amplifier and Power. Two variations on power tap and two regulating knobs. Approved by underwriters. Noiseless, dependable. One of the finest "B" supply units made. Handsome, compact. Fits into space 5x12x6 inches. Once in operation requires no further attention. Fitted with genuine Raytheon B. H. 85 mil tube. Shipping wt., 18 lbs. Complete with tube.  
**2K5278**—List, \$35.00, Net, each .....\$21.00

## 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. Type B. H.—85 mil.

**2K831**—List price, \$4.50, Net .....\$2.70

## Kingston "B" Eliminator



Readily adaptable to any set, providing three variable taps. Any 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 10 201A tubes or equivalent. Absolutely quiet, no hum, distortion or vibration. Won't heat up. No acid or solution. Raytheon full wave tube used as rectifier. Reversible switch. Size, 9x5 1/2 x 8 1/2 inches high. Shipping weight, 50 lbs.  
**2K5279**—Type 20 for 110-120 volt with tube, 60 cycle A. C. List, \$35.00, Net .....\$21.00  
**2K5280**—Type 20 with tube for 110-120 volt A. C. 25 or 30 cycle. List, \$47.50, Net, each .....\$28.50



# PIONEER Radio "A" Battery

Guaranteed 3 Years

Extra Long Life and Uniform Power

Without question, one of the finest radio "A" batteries ever constructed. Scientifically designed to meet the exacting requirements to which a good battery of this type is constantly placed.

It has thick, heavy lead plates, separated with selected cedar separators, assuring the maximum of power and performance under the most severe conditions. Contained in a heavy Ebonite case with a strong bail handle.

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.

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 under any ordinary conditions.

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



2K11050—6 v., 60 amp. size.  
List, \$15.00, Net, each.....  
2K11051—6 v., 100 amp. size.  
List, \$18.00, Net, each.....

2K11052—6 v., 120 amp. size.  
List, \$20.00, Net, each..... \$ 9.00  
2K11053—6 v., 140 amp. size.  
List, \$22.50, Net, each..... 10.95

## Handy Fully Automatic Charger

Operates entirely automatic. Consists of Tungar bulb rectifier COMBINED WITH TWO RELAYS. When set is turned off the charger turns on automatically.



charging begins at rate of 2 to 2½ amperes. This continues until battery reaches full charge—then potential relay operates and cuts off charger. The second automatic relay, which is also a part of this charger, takes care of the B POWER supply turning the eliminator on or off, depending on whether or not the radio set is turned on or off. Shipping wt., 15 lbs.

2K7730—For 110 volts, 50 or 60 cycles, complete with Genuine Tungar Bulbs.  
List, \$20.00, Net, each..... \$13.00

2K7771—For 25 cycle current.  
List, \$22.00, Net, each..... \$14.30

## WHITE "A" Power Unit Tungar Bulb Type



One of finest "A" powers made. Uses no battery or trickle charger. Stores no current. Never charged—never discharged. A 1w a y s t e a d y. Develops full, clear reception. Simple in construction, fool-proof, trouble-proof. Employs solid plate filter—no acids or corrosion. Shipped dry and addition of water every six months is all attention required. Finest of materials in unit check, transformer, condenser and filter units. Doesn't heat up. Output is sufficient for sets using from four to nine ¼ ampere tubes. No vibration, hum or ripple—even with voltage fluctuations up to 24 volts. Shipping wt., 23 lbs.  
2K7772—List, without tube, \$39.50, Net, each..... \$23.70  
See Page 49 for Tungar Tubes.

## Handy Trickle Booster Charger



Keeps "A" battery fully charged constantly. Is permanently connected to battery terminals and, with switch to low side, built-in relay receives constant easy flow of noiseless current (½ ampere). If battery shows signs of weakening, merely push switch to "fast" side and the battery will receive a full, quick charge (2 to 2½ amperes) and is quickly brought back to full strength. Long-life, 2-ampere bulb. Duce dark maroon finish, all metal case. Really converts battery into light socket unit with permanent connections. Shipping wt., about 9 lbs.  
2K7773—For 110 volt, 50 or 60 cycles, complete with bulb. List, \$13.00, Net, each..... \$9.10  
2K7774—For 110 volt, 25 cycle, complete with bulb. List, \$16.00, Net, each..... \$10.40



## Sentinel "ABC" Power Unit (Completely Automatic)

Combines both Sentinel Automatic "A" and Sentinel "B C" units, furnishing complete power supply in one case for all current needs. The "A" division consists of a high-grade storage battery of 60 ampere capacity, together with a heavy duty 2-ampere Tungar type charger with complete automatic control. The "B C" Power unit is the simplest, most efficient device of this type ever marketed, eliminating all servicing for the dealer. It employs two rectifier tubes and has much greater capacity than the usual "B" Power unit. Delivers 60 milliamperes of current at 180 volts. This gives a tremendous reserve over and above actual amount used by even the largest radio set now in use. Absolutely quiet and no hum. Nationally advertised, and enjoys the highest reputation everywhere. Furnishes intermediate voltage for radio frequency tubes, 0 to 110; detector voltage, 0 to 75; output voltage for last radio stage is variable to 300 volts. Provides two sets of negative "C" bias voltage—the first fixed at 4½ volts, the second varying from 4½ to 45 volts. Two Sentinel Powercor rectifying tubes furnished. Operates on 110 volt, 60 cycle alternating current. Shipping wt., 45 lbs.

Sentinel "A B C" Beverly Model, as illustrated, with 3 meters combined in the one instrument.  
2K7775—For 4 Volt. } List, \$98.50  
2K7776—For 6 Volt. } Net, \$59.10

Sentinel Standard "A B C" Unit (not illustrated). List, \$79.50, Net, each..... \$47.70  
2K7777—For 4 Volt, 2K7778—For 6 Volt.  
Advertising Circulars furnished on request.

## Majestic "B" Eliminators

Every Majestic unit is guaranteed for one year against electrical and mechanical defects. A printed guarantee enclosed with each unit. The Majestic "B" rectifier tube is guaranteed for 1,000 hours (equivalent to about one year's average use). Nationally advertised and known as one of the finest, most reliable "B" eliminators. Cabinet furnished in rich black crystal enamel. Genuine bakelite panel. Dimensions: 10½ in. deep x 3½ in. wide and 9 in. high. Complete with extension cord and plugs with control switch. Shipping wt., 22 lbs.

Majestic Super "B"—rating, 50 milliamperes at 180 volts. Sufficient power for sets up to 12, 20A tubes or equivalent. Delivers 180 volts for the new type 12 power tubes. Two variable output voltage controls insure perfect operation.  
2K7779—Complete with Majestic "B" Rectifying Tube. List, \$29.50, Net, each..... \$17.70

Majestic Master "B"—rating, 60 milliamperes at 200 volts. The precision "B" Power Unit for the owner who wants the very best. The ideal "B" eliminator for extra large sets. With complete control of all output voltage taps. Complete with Majestic 100 milliamper tube.  
2K7780—List, \$32.50, Net, each..... \$19.50

Majestic special Master "B"—rating, 60 milliamperes at 200 volts. Similar in appearance and design to Master "B", but equipped with 4 B+ taps, for 22½ volt, 67½ volt, 90 volt and 135 volt, as required on many popular sets. Complete with Majestic 100 milliamper tube.  
2K7781—List, \$32.50, Net, each..... \$19.50

Equivalent to Master "B" in output models and all-around efficiency, but equipped with step-down transformer and output terminals for filament connections for supplying current for A. C. Tubes. Each Complete with 100 Mill. Tube  
No. Model Type A. C. Tube List  
2K7835 ACE "R" McCullough \$35.00 \$21.00  
2K7836 ACE "S" CX226 or UX226 35.00 21.00

Majestic "A" The newest dry "A" unit, thoroughly tested, to replace 6-volt "A" Battery. 2K7837—Majestic "A" List, \$39.50, Each..... \$23.70  
Majestic "B" rectifier tube, a gas filled tube of the finest quality with longer which increases power, lowers operating temperature, and adds greatly to the life of the tube. 100 milliamperes.  
2K7782—List, \$5.00, Net, each..... \$3.00

Majestic 85 milliamper gas filled "B" rectifier tube. A stuporously designed tube especially made for replacement of all previous models of Majestic "B" units and all other "B" eliminators, using gas type (cold cathode) tubes.  
2K7733—List, \$5.00, Net, each..... \$3.00





# New PIONEER Abox Socket Power

## A Complete "A" Battery Eliminator Simple, Reliable, No Delicate Rectifying Elements— No Relays—Requires No Attention

A complete "A" battery eliminator; simple, reliable, no delicate rectifying elements—no relays—requires no attention.

The outstanding feature of this new "A" socket power is its simplicity. As a result of years of experiment and development, we believe it to be the finest "A" battery eliminator yet produced. It is a combination of a charger and a filter combined in one compact socket unit. It derives its energy from the light socket, converting the 110 volt alternating current into uniform 6-volt direct current for the operation of the radio set. Can be quickly installed by anyone. Requires no changes in set and is designed for supplying filament current for any radio receiver employing eight or less 6-volt tubes. Requires absolutely no adjustments or attention during operation. Automatically compensates for ordinary line voltage fluctuations, so that no displacing disturbances mar the reception. Costs no more than a storage battery, and charger and yet provides a source of power as dependable as your supply of electricity, and is always ready, at the touch of the switch, to supply the correct "A" current. Made for us by one of the best known manufacturers in this field—one who has had years of experience and success with devices of this nature. The in-built coils are so arranged and shielded that, in most cases, the Pioneer Abox may be placed within a few inches of the set without inductive coupling of any kind. There is positively no mechanical noise whatever, the whole device being absolutely noiseless in operation. There is no storage battery in the Pioneer in paste form or otherwise. It is never charged off or discharged. Current is used only when

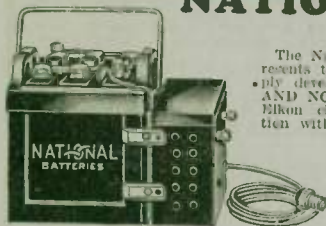
the set is in use. The operating characteristics do not change with use or during prolonged periods of idleness. Does not deteriorate and is practically fool-proof in operation.

While the electrolytic principle is used, an oil-sealed chamber prevents exuding of fumes and an addition of water is required only every few months. The Pioneer Abox may be placed in Console cabinets without danger to the interior of set or furniture.

We believe no finer "A" Socket Power has ever been produced, and we are positive that no such value has ever been offered in this field. It offers our dealers the opportunity to undersell any competition strictly on a quality basis and still make an extra wide margin of profit. Will furnish current for 10-2013 type tubes or their equivalent. Shipping weight, 16 lbs. 2K5270—List, \$32.50. Net, each.....\$19.50



## NATIONAL "A" Power Unit



The National "A" Power Unit represents the very latest in power supply development. It has NO ACID AND NO BATTERIES! It consists of an Elkon charging device in combination with any size of National battery desired. The Unit is fully automatic, made possible through the use of a Brach relay switch built into the charging device.

A "B" Eliminator Receptacle is also built in. The charging rate is one ampere per hour. The battery becomes fully charged. Shipped from Chicago, New York, Baltimore, Detroit, Atlanta, Dallas, Kansas City, at prices quoted. Allow 75c extra for shipment from Los Angeles, Oakland, Cal., Portland, Ore., and Seattle. Shipping wt., 50, 60, and 70 lbs.

2K5260—6 volt, 20 ampere.	List, \$29.00.	Net, \$17.40
2K5261—6 volt, 75 ampere.	List, \$31.00.	Net, 18.96
2K5262—6 volt, 100 ampere.	List, \$33.30.	Net, 19.98

## PHILCO Socket "A" & "B" Power

The new Philco "A" and "B" eliminator furnishes power from the electric light socket for the filament and the plates of vacuum tubes. Displaces with batteries entirely. It will accommodate sets with six or more tubes, including new power tubes. Recommended for any circuit. It is entirely humless. For 110-volt, 50-60 cycle A. C. Provides 100 volts at 50 milliamperes and contains especially large "A" battery. Ship. wt., 60 lbs.



2K5263—Type A-R680—with Philcontron rectifier. List, \$69.50. Net, \$41.70  
2K5264—Type A-R396 with Dry rectifier. List, \$79.50. Net, \$47.70  
2K5286—For sets of six or less tubes with Philcontron rectifier. List, \$59.50. Net, \$35.70

## WESTINGHOUSE "A" Socket Power



Consists of a 14 or 6-volt D. C.-7 Battery and 1 1/2 ampere Rectox triode charger housed in separate compartments of a unit hard rubber case. So wired that battery is being charged at all times even when set is in operation. Will operate a 5 tube set, containing one power tube, satisfactorily. It is shipped wet, fully charged, ready to put in long, 4 1/2 in. wide, 6 1/2 in. high. Service. Dimensions: 12 1/2 in. Shipping weight, 40 lbs.

2K5265—Output, 6 Volts, from 110 Volt, 50-60 Cycle Current. Capacity at one ampere rate, 20.	List, \$20.00.	Net, each \$12.00
2K5266—Same, except 4 Volt Output.	List, \$20.00.	Net, each \$12.00

### "A" Autopower

Combination of high capacity storage battery (10 amp. hour) with triode charger rectifier permanently attached. Very efficient and economical, using less current than a 15 watt lamp. Will outlet several storage batteries. Will take care of a 10 tube set equipped with a loud speaker, for a long evening's program. Rectifier operates by means of an electron discharge between copper plate and an oxide film on the surface of the plate. No tubes, no electric light, no vibrating or rotating parts. A special double throw toggle switch is used to control the Autopower. Switch automatically cuts off the set and starts charging restoring power. Absolutely noiseless—not the slightest hum. Compact, beautifully finished with an elegant all rubber case. Ship. wt., 65 lbs.

2K5267—For 6 Volt Tubes from 110 Volt 60 cycle current.	List, \$25.00.	Net, each \$15.00
2K5287—Deluxe Model with Automatic Relay Switch to control charging and "B" Eliminator current.	List, \$35.00.	Net, \$21.00



## New Improved

## Unipower A Gould Product Type AC-6-K



Furnishes 6-volt "A" power from 110-125 volt, 60 cycle alternating current. Contains relay and socket to receive plug from any "B" eliminator. Consists of a special Gould storage battery in combination with a noiseless rectifying or charging unit of unusual design. Furnishes a rich, full, quiet power with neither hum nor noise. Equipped with a Master control

switch, which governs the operation of both Unipower and entire set. When switch is "On" set is operating and charging current is off. When switch is on "Off" the charging current is on and the set is disconnected. Very compact and unique in design, with gas type cover. No fumes to mar Console or other furniture. Dimension: 11 1/2 inches long, 7 1/2 inches wide and 10 inches high. Shipping weight, 50 lbs.

2K5268—For 6-volt Tubes from 110 Volt, 60 Cycle Current.	List, \$39.50.	Net, each \$23.70
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## Unipower Type AC-4-R

Designed especially to supply a continuous, unflashing "A" power for all radio sets using TV-190 tubes or their equivalent. Easily connected and safely installed, either inside or outside of set. Very compact, only 8 1/2 in. long, 5 in. wide and 8 1/2 in. high. It fits into most any Console set. Consists of a special Gould "A" battery in combination with a noiseless rectifying unit all enclosed in a handsome black rubber case with nickel plated fittings. Has gas type cover of exclusive design with vent tube. Equipped with the special Master control switch, which turns on the house current to charge automatically when set is shut off. Operates on 110-125 volt, 60 cycle alternating current. Shipping weight, 40 lbs.

2K5269—List, \$29.50.	Net, each \$17.70
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ADVERTISING SERVICE: Special circulars, with list prices only on Unipower units will be furnished on request.



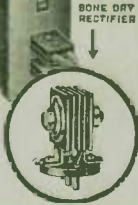
## Elkon Trickle Charger

### A New Proven Idea

The Elkon Trickle Charger, operating without noise, without attention, without acids, bulbs or moving parts, will automatically keep "A" batteries at the point of maximum efficiency at all times. Has new system of rectification superior to all other methods.

The 0.7 Amp. size starts charging 6-volt batteries at about 0.7 amp., but automatically tapers off as the batteries reach maximum efficiency, and from that point allows only as much current to trickle in as is needed to replenish the batteries. The 3 amp. size starts charging at 3 amperes and tapers down to 3 amperes or less as battery reaches peak. Neat japanned metal case, equipped with toggle switch. Guaranteed. Shipping wts., 6 and 15 lbs. Operates on 105 to 120 volt current.

<b>2K209</b> —0.7 amp. 60 cycle.	
List, each, \$13.50. Single lots.....	\$8.75
Five lots, each.....	\$9.10
<b>2K213</b> —0.7 amp. 25 cycle.	
List, each, \$15.00. Single lots.....	9.50
Five lots, each.....	\$9.00
<b>2K212</b> —3 amp. 60 cycle.	
List, each, \$17.50. Single lots.....	11.35
Five lots, each.....	\$10.50



## Elkon Choke Coil

This coil, used in conjunction with the Elkon 3 Ampere or other similar charger, supplies the set owner with a dependable source of "A" filament supply, used in connection with any ordinary "A" battery. This combination is intended for use during reception only, diminishing filament power to the full capacity of the charger, no matter how many hours per day the set may be used.

**2K214**—List, \$6.00. Net.....\$3.60

## Tritox Automatic Trickle Charger

### with Westinghouse Rectox Unit

No bulbs, liquids or moving parts. Requires no repairs or attention. Combination with switch to switch charge off when set is on, and switches B eliminator on and off with set. Starts with 3 ampere charge which tapers down to 1 ampere. Very compact. Full wave efficiency. Connect your old battery into a modern A power unit with this charger.

**2K217**—List, \$16.00. Net.....\$9.80

## Junior Bulb Type Charger

Silent in operation. Gives very satisfactory results. The low price is possible because of simple yet effective design. Has no moving parts. Requires no adjustment. Connects to 110 volt 60 cycle A. C. Charges 7 volt auto or radio or B battery up to 40 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.

**2K304**—(2) amp. ....\$ 7.95  
**2K305**—(5) amp. ....\$ 13.75

## Direct Current Battery Charger

Charges any battery 2-12 volts at a rate up to 6 amperes. Meter indicates the actual charging rate. Extension cord and battery leads. Strong battery clips are included. Dimensions, 5x7x3 inches. Shipping wt., 10 lbs.

**2K210**—110 Volt D. C.  
List, \$12.00. Net.....\$7.80  
**2K211**—32 Volt D. C.  
List, \$12.00. Net.....\$7.80



## 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 Bakelite. Shpg. wt., 1 1/4 lbs.

**2K311**—List, \$4.50. Net.....\$2.70

## Taxley Automatic Power Control

Does all the extra switching for you. It takes care of your "B" eliminator or trickle charger or both. When you turn your set on, the trickle charger is off, the "B" eliminator is on. When you turn the set off, the Power control is standing guard for you. It works automatically and without fail to turn off the "B" eliminator and turn on the trickle charger. Shpg. wt., 2 lbs.

**2K314**—Series Type for use with sets with tubes having a current draw equal to or greater than 6 UV 199 type tubes. List, \$5.00. Net.....\$3.00

**2K315**—Multiple type for use with any set, but especially recommended for sets having current draw of less than six UV-199 type tubes. List, \$6.00. Net.....\$3.60

## Improved Automatic Relay Switch

Helps electrify a 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. Shpg. wt., 1 1/4 lbs.

**2K327**—List, \$3.00. Net.....\$1.80



## Genuine Tungal Charger

Practically noiseless in operation. Charge your battery over night at a cost of only a few cents. Light weight. Easy to handle. Cord for easy connections. Enameled metal case. Simply insert plug in 110 volt 60 cycle A. C. socket. No adjustments required. Prices include bulb.



Charges 2, 4, 6 and 12 volt "B" batteries. Shipping wt., 10 and 15 lbs.

**2K5655**—(2) amp. Net.....\$ 9.10

**2K5656**—(5) amp. Net.....\$ 15.60

## Genuine Tungal Rectifying Tubes

**2K834**—(1) amp. Net.....\$2.76

**2K835**—(2) amp. Net.....\$2.76

**2K836**—(5) amp. Net.....\$ 5.60

## Tungal Trickle Charger



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. Shipping wt., 8 lbs.

**2K775**—List price, \$10.00. Net.....\$6.50

## Handy Automatic Radio Control Switch

Connects Battery Charger and "B" Eliminator to set and makes and breaks all connections when filament panel switch is thrown. Automatically turns 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.



**2K328**—List, \$5.50. Net, each, \$3.30

## Valley Battery Charger

Equipped with binding post connections for charging 6 and 12 volt batteries. Operates on 110 volt, 60 cycle A. C. current. Bakelite panel. Transparent molded glass cover. Rests on rubber feet. Shpg. wt., 12 lbs.

**2K5657**—List price, \$19.50. Net.....\$11.95

**2K5658**—Special for 110 volt 25 cycle A. C. current. List, \$21.00. Net.....\$13.95

## Service Station Battery Charger

Capacity: 17 Batteries, 6 Amp. Rate. Easy to make money charging batteries when you receive 50c to \$1.00 for charging a single battery.

Fastes undervolters' specifications wherever installed. Charges all makes of auto, radio or lighting batteries. Easy to install. Complete with bulb. Most economical on current consumption, effecting 40% to 60% saving in current bills. Easy to operate. Just connect batteries in series to the charging circuit. Space required about 11x13x12 inches. Mounts on wall. Operates on 110 volts, fitted with switch, meter and regulator. Automatic cutoff turns charge off in case of line current failure and on when current comes back. Batteries cannot discharge accidentally. Price includes rectifying bulb. Shipping wt., 26 lbs.

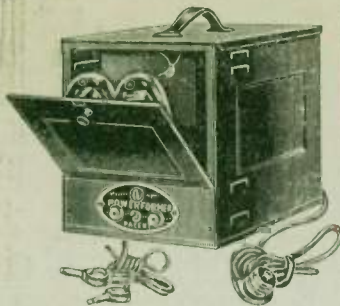
**2K11043**—For 60 cycle current. Net.....\$49.75

**2K11044**—For 25 cycle current. Net.....\$56.75





# Newest Models in Power Amplifiers



## Pacent Powerformer

### Combination Power Amplifier and "B" Supply

2K5674—List. Less Tubes. Shpg. wt., 40 lbs., \$82.50, Net.....\$53.65

Reproduces the delicate inflections of the human voice and the finest shades of the violin with absolutely true fidelity and with volume from a whisper to a roar. With it you can enjoy the best music with its shading and expression of the original rendition by the far-off artist. You can easily distinguish the various instruments and voices in an orchestra or quartette. It puts the artist right before you and gives you an undistorted volume ranging from a whisper to a roar.

In addition to these fine qualities, it also supplies continual, plentiful and inexhaustible "B" supply for the entire set.

Case is made of metal 8x8x10 inches. A hinged door provides easy access to the tube. An attractive face plate contains an input and an output jack, control switch and pilot light. Louvers at sides provide ventilation. No adjustments, no controls. Flip the switch, and the Powerformer is at work.

Operates from any 60 cycle, 110 volt alternating current supply. Uses 1-UX210 or CX-316 B Rectifier Tube and 1-UX210 or UX310 Amplifying Tube.



### Timmons Power Amplifier and "B" Supply

2K5677—Combination Power Amplifier and "B" Supply. Shipping wt., 40 lbs., List, \$70.00, Net.....\$42.00

2K5678—Power Amplifier only. Shipping wt., 40 lbs., List, \$45.00, Net.....\$27.00

The combination amplifier and "B" Supply produces not only the power for the true tone quality, but also supplies inexhaustible "B" voltage for the entire receiver. Very simple to use with any set.

In addition to supplying 350 volts to the plate of its super-power audio tube, it also furnishes the high "C" voltage to prevent distortion.

Uses one UX-216B or CX316B rectifier tube and one super-power UX210 or CX310 audio tube. For use on 105-120 volts, 50-60 cycles right from your light socket.

Handsome metal case 11 1/2 in. long, 4 1/2 in. wide, 5 1/2 in. high.

Power amplifier only is same style but does not supply "B" current.



## Powerizer Universal A B C Supply and Power Amplifier

3K5679—Model PXY, 1 Universal, without Tubes, 110 volt, 40-50 cycles. List price, \$60.00, Net.....\$36.00

3K5680—Model PXY, 1 for 110 volt, 25-35 cycles. List, \$66.00, Net.....\$39.60

3K5681—A. K. Model for Atwater-Kent Models 20, 30, 35. Without Tubes. List, \$60.00, Net.....\$36.00

3K5682—A. K. Model, For Atwater-Kent Model 32 Set without Tubes. List, \$62.00, Net.....\$37.20

Shipping weight all models, 40 lbs. The Powerizers supply not only high voltage "B" and "C" current for their power tube but also for the complete receiver. They are

designed especially for use with A. C. tubes UX226 and UX227. The Powerizers require 1-UX210 or UX310 amplifier tube and 1-UX280 or CX380 full wave rectifier Tube. With this unit and the necessary A. C. tubes you can make your set a completely light socket operated receiver, and in addition obtain great volume with pure reproduction. "A" plug connections, adapters and directions included. A. K. models include harness, adapters, adapter plug and volume control. Use A. C. tubes type UX227 for detector; type UX226 for R. F. and amplifiers. Feature this Amplifier in your fall sales campaign and you will certainly find it a raving item.

## Thordarson R-171 Power Compact

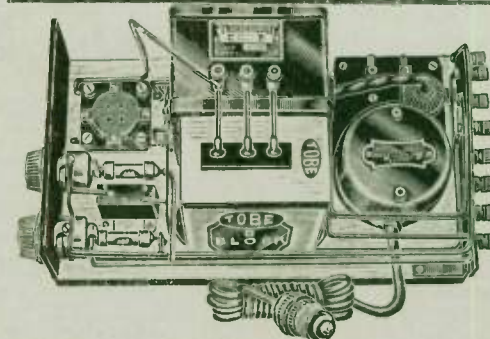
### Complete "B" and "C" Supply for Power Amplification

To secure the full advantage of the 171 type power tube, it is essential that the recommended plate voltage and high negative grid bias be used. These higher voltages make the use of B batteries uneconomical and a lamp socket B eliminator is therefore recommended.

This power outfit supplies both B voltage for the entire receiver, also filament current for the power tube, and high negative grid bias. This eliminator offers advantages not to be had with batteries. In that it is possible to get accurate and infinite adjustment of the voltage to be applied to the radio frequency and detector tubes. Will deliver a steady uniform flow of current for all tubes, without the trace of a hum.

List of Parts		List	Net
3K2030—1 No. 171 Thordarson Power Compact		\$15.00	\$ 9.00
3K472 —1 Tube R-171 Filter Cond. B. Block		12.00	7.20
3K314 —1 Yaxley No. 441 Automatic Power Relay		5.00	3.00
3K831 —1 Raytheon B II Rectifier Tube		4.50	2.70
3K483 —1 Tube Varitas Resistor, 5000 ohms		1.10	.66
3K485 —1 Tube Varitas Resistor, 10,000 ohms		1.10	.66
3K432 —1 Tube 1 mf No. 301 Filter Cond.		1.25	.75
3K3205 —1 Lynch Stubs Resistor Mount.		.35	.24
3K3206 —1 Lynch Double Resistor Mount.		.50	.36

High voltage B supply unit. The UX 210 Power Tube has more than 100 times the output of the ordinary type of audio tubes, producing a quality of musical reproduction unobtainable in any other way. No other single development has met with such great public demand and appreciation. Deep bass notes require greater electrical energy to bring them out rich and full—and consequently much higher voltage is necessary. Thordarson R-171 Power Compact contains in a single handsome unit the high voltage Transformer with a secondary output of approximately 525 volts and 2-80 milliamperes choke coils—with well designed terminal connections—affording easy and rapid assembly. The R-171 Compact not only furnishes 400 volts direct current to the plates of the 210 Power Tube, but also the necessary 7 1/2 volts for the filament supply voltage as well as the filament supply for the UX316B Rectifier Tube, and complete B and C supply for the entire receiver. All hum is entirely filtered out and the assembly is silent in operation.



3K4619—1 Benjamin 9010 X Socket	\$0.75	\$0.45
3K4442—2 Clarestal Var. High Resistances	2.25	1.35
3K4443—8 Day Binding Posts	1.20	.80
3K2100—4 length Acme Celastite Wire No. 14	.40	.26
3K2109—1 7x12 1/2 inch Baseboard	1.00	.60
3K2110—1 Bakelite Panel 7x7 1/2	1.50	.98
3K707 —1 8-hole Binding Post Panel	.35	.22
3K699 —Miscellaneous Nuts, Screws, etc.	.50	.30

3K334—Complete without tubes. List price, \$48.75, Net.....\$29.52  
Shipping weight, 20 lbs.

## Thordarson Type 210 Power Compact

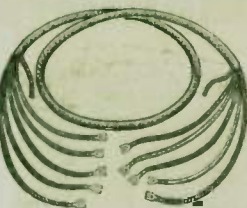
### List of Parts

	List	Net
3K2032—Thordarson 210 Power Compact	\$29.00	\$12.00
3K471 —Tube 210 B-Block	13.00	7.80
3K4619—2 9010 Benjamin Sockets	1.50	.90
3K4633—1 Ward Leonard 8000 ohm Res.	3.00	1.80
3K485 —2 Tube Varitas 1000 ohm Res.	2.20	1.32
3K493 —1 1000 ohm Fix Res.	1.25	.75
3K494 —7 Day Binding Posts	1.05	.70
3K495 —1 6x12 Baseboard	.35	.24
3K708 —1 7-hole Binding Post Panel	.30	.20
3K699 —1 Miscellaneous Screws, Nuts, etc.	.50	.30

3K335 —Complete without Tubes. List price, \$43.51, Net.....\$26.01  
Shipping weight, 18 lbs.



## Radio Battery Cables



Made of flexible stranded conductors rubber insulated and covered with braid for A, B, and C Battery connections. Assembled with soldered lug terminals which prevent loose connections. Each conductor of separate solid color in accordance with R. M. A. code standards.

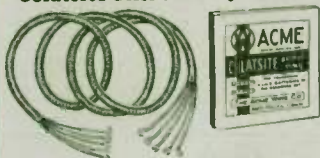
Art. No.	No. Conductors	Length, Ft.	List Price	Net Price
2K2801	Five	4 1/2	\$0.50	\$0.23
2K2829	Six	4 1/2	.60	.39
2K2802	Seven	4 1/2	.70	.43
2K2830	Eight	4 1/2	.85	.50
2K2831	Nine	4 1/2	1.00	.58
2K2832	Ten	4 1/2	1.15	.68
2K2833	Eleven	10	1.25	.89
2K2834	Twelve	10	1.55	1.05
2K2844	Seven	10	1.85	1.08
2K2845	Eight	10	2.15	1.28

## Battery Conductor Cables

Same conductor as above cables without solder lugs. 25-foot coils. Make cable of any length.

Art. No.	No. Conductors	Length, Ft.	List Price	Net Price
2K2846	Five	25	\$1.10	.70
2K2847	Six	25	1.25	.89
2K2848	Seven	25	1.40	1.08

## Celatsite Silk Battery Cables



A neat thin flexible silk inclosed cable for making battery connections. Conductors insulated with celatsite covering in standard R. M. A. code colors. Very handy and useful, for it slips in between doors, windows, through small drilled holes, etc. Its flexibility makes it very practical. This is a Deluxe Cable that should be used on every high grade set.

Art. No.	No. Conductors	Length, Ft.	List Price	Net Price
2K2803	Five	5	\$0.90	\$0.50
2K2804	Six	5	1.10	.63
2K2805	Seven	5	1.25	.74
2K2806	Eight	8	1.45	.80
2K2825	Six	8	1.75	.98
2K2849	Seven	8	2.00	1.15

## Celatsite Silk Conductor Cord

Same cord as used in Celatsite silk cable. Cable of any length may be made with this cord.

Art. No.	Length, Ft.	Wire	Net Price
3K2841	25 ft.	5 wire	\$2.25
3K2851	25 ft.	6 wire	2.75
3K2843	25 ft.	7 wire	3.25

## Battery Cable Connectors



These connectors are made of flexible stranded wire with soldered lug terminals, for use in connecting Dry Cell Batteries, B and C Batteries. Packed 25 of each size per carton.

Art. No.	Length	List Price	Net Price
3K2852	3-inch	\$0.04	\$0.55
3K2853	6-inch	.05	.63
3K2854	8-inch	.06	.70
3K2855	12-inch	.07	.78

## Battery Terminal Connectors

3K2821—Each 14c  
Ten for \$1.30

Fasten to post of any auto storage battery to adapt it for use with radio set. Has binding screw for connecting lead wire. Perfect contact always.



## CHARGE TESTER for Radio "A" Storage Battery



The new clean way to test the "A" storage battery.

Tells instantly when battery is suitable for service; when to re-charge and when to discontinue 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.

2K2835—List price, \$1.25. Net price, .69c

## Jewel Battery Tester



2K2836—List, \$2.75. Net, \$1.68

Reads 0 to 30 volts. Accurately constructed. Scale calibrated for close readings. Enamelled black case with glass crystal. Flexible connecting cord. A high quality precision instrument.

## Battery Meters

2K2837—0-50 volts. List, \$1.00. Net, 55c

2K2838—0-100 volts. List, \$1.50. Net, 72c

Accurately tells condition of "B" battery. Convenient. Watch case size. Metal case polished nickel finish with glass crystal lens. 22 1/2 and 45 volt batteries.

2K2839—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



## Battery and Radio Clips



Made right to give reliable lasting service. Positively superior to any other type clip. Strong spring tension gives perfect contact at all times. Lead coating protects against corrosion.

Art. No.	Capacity	Length	Open	Each	10	List Price	Net Price
3K2828	10 amp.	1 1/2 in.	in.	5c	\$0.37		
3K2856	25 amp.	2 in.	in.	10c	.67		
3K2837	50 amp.	3 in.	in.	20c	1.30		
3K2858	100 amp.	4 1/2 in.	in.	35c	2.40		

## Connecting Clips

For connecting lead wires to "B" batteries, binding points on sets, etc.

3K2824—Neat nickel finish. Dozen.....45c

3K2826—Pee Wee, copper finish. Very small, compact size. Dozen.....45c



## Cable Markers



3K2813—List price, 25c. Net.....16c

Markers easily read and convenient to attach. Fit snugly to wire, allowing the wire to be drawn freely through a small opening. Packed in boxes of 11 containing the following markings: A +, A -, B -, C +, C -, B +, Det., B + Amp., B + RF, B + PR, Ant., Gnd.

## Battery Lead Tags



3K2814—List, per set, 15c. Net price, ten sets.....75c

Metal tags for marking battery connecting wire. Once on, you always make connections correctly and quickly. Two tags of each of the following markings: P + Det., B -, A +, A -, B + Amp.

## Non-Drip Hydrometer

Retails \$1.00  
Your Cost 70c

The "non-drip" feature makes this the ideal radio or service station hydrometer. No more spilled runs and clothing because the acid cannot drip out. The "Can't Stick" float and small barrel insure easy accurate reading always. Rubber parts are of good quality rubber.

2K2815—List, \$1.00. Net.....70c



## Bargain Hydrometer

2K2816—List, 50c. Net.....26c

Accurately graduated float shows you exact condition of charge in your battery. Tests both "A" and "B" batteries.

## S. O. S. Hydrometer

2K2817—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.

## 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.

2K2818—Large size, excellent value. List, 75c. Net.....45c

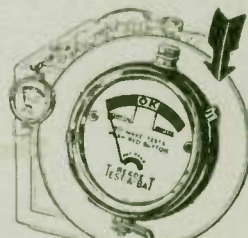
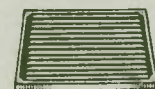
2K2819—Extra large size, service station model. List, \$2.50. Net.....\$1.45

Hydrometer Floats  
3K2820—List, 25c. Net, 17c  
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.

## Rubber Battery Mat

2K2812—List, \$1.00. Net.....50c

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



## Test-A-Bat Storage Battery Tester

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. 3K2859—List, \$1.75. Net, each \$1.05



# BRIGHT STAR

Supreme in Every Test

## "B" Batteries With Power—Plus!

High in voltage, full of fresh, active materials of the finest grade, Bright Star Batteries give long, dependable service. The manufacturers have been making quality batteries for over seventeen years and enjoy a splendid reputation and popularity everywhere. A feature of Bright Star construction is the "Bag Type" cell which insures an unusually long output of smooth, quiet "B" power. These batteries are made especially and only for Radio work and their perfected construction is the result of years of test, experiment and practical use in this field.

We offer the Bright Star line to our Dealers as the most profitable, satisfactory "B" Batteries in the market. They are nationally advertised and enjoy a quick sale at all times. Their supreme quality assures complete satisfaction for your customers. They build good will for the store. Their "eye" value is big—



### "A" Battery

Supreme in quality and service for all standard dry cell Radio "A" use. "Bag type" cell construction is greatly superior to ordinary methods, giving longer life and greater recuperative power. Diameter 2 1/2 in., height 4 1/2 in. Guaranteed shelf life 12 months. 2K121 (6) — List, 45c. Net, each .....32c

having beautiful, brilliant red cases with black border. Advertising material for Sales Promotion furnished on request. Shipping weights (each battery): 2K127 (71-17), 1 1/2 lbs.; 2K128 (15-03), 2 lbs.; 2K129 (15-50), 1 1/2 lbs.; 2K130 (15-90), 5 1/2 lbs.; 2K131 (15-01), 3 lbs.; 2K132 (15-05), 6 lbs.; 2K133 (30-05), 10 1/2 lbs.; 2K134 (30-60), 10 1/2 lbs.; 2K135 (30-95), 10 1/2 pounds.

Cat. No.	Part. No.	Kind of Battery
2K127	71-17	4 1/2 volt C
2K128	15-03	2 1/2 volt Horizontal
2K129	15-50	2 1/2 volt Horizontal
2K130	15-90	2 1/2 volt Horizontal
2K131	15-01	2 1/2 volt Vertical
2K132	15-05	2 1/2 volt Vertical
2K133	30-05	4 1/2 volt Horizontal
2K134	30-60	4 1/2 volt Vertical sup. pr.
2K135	30-95	4 1/2 volt Vertical

Let Qty.	List Price	Net Price	Let Price
5	\$0.60	\$0.42	\$0.39
5	1.75	1.22	1.14
5	1.50	1.06	.97
10	2.00	1.40	1.30
5	1.75	1.22	1.14
2	2.00	1.40	1.30
6	3.75	2.62	2.44
6	4.75	3.33	3.09
5	3.75	2.62	2.44



## Pow-R-Ful "B" Batteries

Reliable Batteries at Amazingly Low Prices

Never in the history of Radio has there been such value in "B" Batteries. Another example of how Braun helps the Dealer to larger profits! Pow-R-Ful batteries are made from the best materials obtainable and are subjected to numerous tests at every stage of their manufacture. The use of a special multi-play box helps to protect the battery from external moisture and also lessens the possibility of leakage of corrosive fluid which might injure furniture or polished floors.

The cells of each battery are incased in a solid block of insulating material which thoroughly insulates each cell, thereby preventing internal short circuits.

Pow-R-Ful "B" and "C" batteries are guaranteed against defective materials, faulty workmanship, also guaranteed to give satisfactory service when used with standard Radio apparatus that is in good working condition. Batteries are all manufactured by automatic machines, using the best materials obtainable, producing batteries of extremely uniform quality.

Here is a line on which the Dealer can build up a good patronage and make an unusually large margin of profit. Or, if he desires, he may use the Pow-R-Ful line as a leader for sales drive. Many dealers find this a splendid plan for bringing new customers to their stores. There is always a ready demand for reliable "B" Batteries.

All Pow-R-Ful models are made in the upright or vertical style.

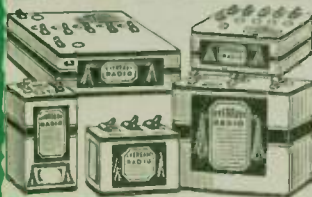
No.	Kind of Battery	Let Qty.	List Price	Net Price	Each
2K122	45 v. "B" large heavy.....	5	\$4.50	\$2.60	\$2.50
2K123	45 v. "B" Standard.....	6	3.75	1.80	1.78
2K124	45 v. "B" Standard.....	10	2.00	.95	.85
2K126	45 v. "B" large topped.....	10	.40	.26	.24



## EVEREADY Radio Batteries

Fresh New Stock Always Ready for Prompt Shipment

We carry new, fresh stock of this well-known make battery ready always for immediate shipment. A long-life, hum-free battery in all sizes and styles to meet every radio need.



Cat. No.	Part. No.	Kind of Battery	Let Qty.	List Price	Net Price	Each
2K103	76-22 1/2	v. small, horizontal, plain.....	10	\$1.30	\$1.05	\$1.97
2K107	76-22 1/2	v. med., horizontal, plain.....	10	1.75	1.22	1.14
2K104	76-45	v. large, horizontal, variable.....	10	2.60	1.40	1.30
2K106	76-45	v. med., vertical, plain.....	5	3.75	2.62	2.44
2K125	77-45	v. large, vertical, plain.....	5	1.75	1.22	1.14
2K109	77-45	v. ex. large, vertical, plain.....	5	3.75	2.62	2.44
2K105	86-45	v. new ex. large "Jaw-Bilt" heavy duty, plain.....	5	4.75	3.45	3.22
2K101	77-45	v. variable "C" battery.....	5	5.00	3.58	3.33
2K100	6-1 1/2	v. dry cell "A" battery.....	10	.60	.42	.39
2K102	77-7 1/2	v. variable "C" battery.....	10	.50	.40	.34
			5	.85	.59	.55





Sonatron tubes are made in a new enlarged modern factory under ideal scientific working conditions.

# SONATRON



There is a Sonatron tube bearing this label for every radio need.

## The World's Largest Radio Tube Line!

Nationally  
Advertised  
STANDARD  
QUALITY!

# Now!

# 50%

PROFIT  
for the  
DEALER

THE RIGHT TUBE  
for the RIGHT SOCKET  
at the RIGHT PROFIT

Profit—or Loss?

Radio has developed into an immense business. At least 25% of sales consists of tubes. This means that the dealer must stock merchandise, finance the sale, service the set, and make collections, and last but not least, pay for his goods and MAKE A PROFIT!

The Sonatron proposition is based on the dealer making enough profit so he can pay for merchandise and still make a real attractive profit.

You CAN'T make a profit selling tubes on 50% margin!

Some can and some can't make a profit on 40% margin. BUT YOU CAN BE SURE TO MAKE A PROFIT ON 50% DISCOUNT OFFERED YOU ON MOST SONATRON TUBES.



## Past and Present In Radio

**PAST:** Radio Dealers in the past needed only to be familiar with the "all purpose" tube (201A for 6 volt sets). This tube worked in all sockets of any radio set. It didn't make any difference for what socket your customer needed a tube you needed only to hand him a type 201A.

**PRESENT:** Now it is necessary to know what tube is necessary and will function best in each socket—also what voltages of "B" and "A" battery can be recommended for each different type of tube. For instance, every customer you have will buy a Sonatron 200A Power Detector when you guarantee that this super-sensitive detector will double the volume of his set—you can guarantee this—and no rewiring is necessary either. Just tell him to put it in the detector socket instead of the 201-A. For the Dealer's convenience every Sonatron box has complete information as to correct voltages, etc., so that any clerk can tell the customer just how to correctly select "The right tube for the right socket!" This, of course, means a Sonatron is made for each special purpose and any dealer can be sure that every Sonatron will function as guaranteed—because each Sonatron is tested by meter eight times and then tested in a radio set.

**CONFIDENCE:** Your feeling of confidence will grow as you learn to know better each kind of Sonatron, and to realize the years of engineering that have developed the thirty types now being made. And every Sonatron can be sold under the strongest guarantee it is possible to write.

## The Iron Clad SONATRON Guarantee!

Any tube will be replaced FREE providing filament lights—you are the sole judge! We also guarantee the absolute uniformity. YOU AND YOUR CUSTOMER ARE THE SOLE JUDGE!

# FREE! Sample Offer!



## Tube Checker Free!

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 Sonatron 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.

## Double Free Sample Offer!

To sell merchandise of any kind—it is necessary to have confidence in the quality.

To get you to know the Sonatron line we are making an offer to you—so that if the quality of Sonatron tubes is as we advertise and you reorder up to \$150.00 worth of Sonatron Tubes in four months—your sample tubes will cost you nothing. Dealers like to know that they can pull down any tube tube (even a 200-A or power tube) and be able to say to their customer, "This is a good tube—I'll show you it is by guaranteeing to replace it any time you are dissatisfied." We want you to know Sonatron—thus our offer.

### FREE!

Contents of package:

12-X 201-A ...	@ \$1.75
4-200A .....	@ 4.00
2-X12 .....	@ 4.50
1-X171 .....	@ 4.50

Order by Number

2K999

Net Price .....\$25.25

## How to Get This FREE Lot!

Send us your order for the sample package (list value, \$50.50). Remit the regular wholesale price of \$25.25. If, after four months from your first order, you reorder a total of \$150.00 net value of Sonatron tubes, we will send you a credit for the above sample package. This makes the sample package worth \$50.50 list—absolutely FREE to you.

There are over thirty different tubes to select from—to fill every need of your customers. Reorder and stock the tubes you need—after you've tested the samples. Sell tubes that will give you volume sales and satisfaction to your trade.

You can make the tube end of your business profitable if you sell Sonatron tubes. This sample package will prove to you that the Sonatron quality is standard quality. Here is an opportunity to make 50% profit instead of 50%—this is the difference between Profit and Loss in the sale of tubes. It is good merchandising to display one complete line of the highest quality—you can afford to push the Sonatron line because it is complete. Nationally advertised and highly profitable. You are backed by the strong Sonatron guarantee.





The Sonatron label is your assurance of STANDARD QUALITY, PERFORMANCE and DEPENDABILITY.

# SONATRON



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



### 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, 0 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. 1.25; Plate amps. .06; Plate volts 350.

2K1002—List, \$9.00.  
Net .....\$4.50



### For Distance and Volume

#### Type 200-A

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 (min.) 22½; Plate volts (max.) 45.

2K908—List, \$4.00.  
Net, each .....\$2.00

### Standard for All Sets

#### Type 201-A

Detector and Amplifier

An all purpose tube, universally used in storage battery and socket power sets for radio frequency, detector and audio frequency amplifier. Fil. volts 5; Fil. amps. .25; Plate voltage 22½ to 180; "C" battery volts 1.5 to 13.

2K813—List, \$1.75.

Net, each .....\$0.90



## SONATRON

for Profit!

#### Type 171

Power Amplifier

Used in any storage battery and socket power receiving set with hook-up for power tube in last stage of audio frequency, audio. Fil. volts 5; Fil. amps. .5; Plate volts (min.) 90; Plate volts (max.) 180; Neg. grid volts with (90 p.l.) 22½; Neg. grid volts (with 180 p.l.) 40½.

2K912—List, \$4.50, Net, each ...\$2.25



#### Type 171-A

Power Amplifier Adapter Base

You can use this tube in any storage battery set in the last stage of audio frequency. The adapter base provides connections for adding additional B and C voltage to your set to operate this power tube. It has the same specifications as Type 171.

2K909—List, \$5.00, Net, each ...\$2.50



#### Type 112-A

Power Amplifier

The adapter base of this tube provides connections for adding additional B and C voltage to your set without rewiring so it can be used as a Power Amplifier. Gives greater volume and distance. Fil. volts 5; Fil. amps. .5; Plate volts 22½ to 157; "C" Battery voltage 6 to 10.5.

2K913—List, \$5.00, Net, each...\$2.50

#### Type X-112

Power Amplifier

You get greater volume, distant stations with ease when you use this Power Amplifier in any ordinary storage battery receiving set. Fil. volts 5; Fil. amps. .5; Plate volts 22½ to 157; "C" Battery voltage 6 to 10.5.

2K819—List, \$4.50, Net, each...\$2.25



Sell Power Tubes for PROFIT!

## DRY CELL TUBES

#### 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.

2K1003—List, \$2.25, Net .....\$1.13

#### Type X-199

This type of tube has the same specifications as Type 199, but it has the new X base (long prongs).

2K1004—List, \$2.25, Net, each.....\$1.13

#### Type 199-A

Power Amplifier

Identical specifications as Type 199 but equipped with the standard base.

2K1026—List, \$2.25, Net, each .....\$1.13



#### Type 12

Amplifier and Detector

Fil. volt 1½; Fil. amp. .25; Plate volt 22½ to 90.

2K1027—List, \$2.50, Net, ea. \$1.25

#### Type X-120

Power Amplifier

This tube is used in dry cell battery sets in the last stage of audio frequency. It produces great volume without distortion. Fil. volts 3; Fil. amps. .125; Plate volts 135; "C" Battery volts 22.5.

2K1005—List, \$2.50, Net, ea. \$1.25



### The New A-C Tubes

#### Type 225 A-C

Acts as a R. F. amplifier, detector, A. F. amplifier and oscillator. Fil. voltage 3; Fil. a. i. p. s. 1.05; Plate voltage 12 to 135; "C" voltage 3 to 9.

2K1028—List, \$5.00, Net .....\$3.00

#### Type X-225 A-C Amplifier

For use in radio or trans, coupled A. F. amplification. Should not be used in detector or last audio. Fil. volts 1.5 A-C; Fil. amps. 1.05; Plate voltage 90 to 180 D-C.

2K1029—List, \$3.00, Net, each .....\$1.80

#### Type Y-227 A-C

Detector and Amplifier

(Fits new 5 prong socket only.) May be used as detector or audio and R. F. Heater voltage 2.5; heater ampere 1.75; plate voltage 90 to 180 D. C.

2K1030—List, \$6.00, Net .....\$3.60







The Sonatrons on the tubes you sell, the fine margin of profit you make—the best combination in the world.

# SONATRON



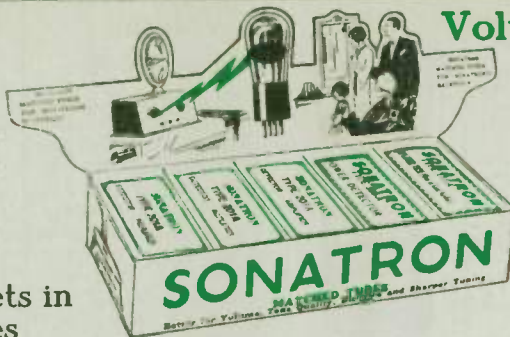
Make your radio tube department a Sonatron department, and you will make more money.

## Now! A New Idea in Merchandising

### More Satisfied Customers!

- 1: You get an attractive display box—at no extra cost.
- 2: Many extra sales can be made by selling a complete new set of tubes—instead of only one or two.
- 3: The tubes are really matched—will improve the operation of any set because of uniformity of operation.

### Volume Business! Greater Profits!



### Matched Tube Sets in Display Boxes

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

Neutrodyne, tuned radio frequency and superhets need matched tubes for perfect operation and for volume on distance. Use SONATRON Matched Tubes for demonstrating sets because of tone quality and volume. Unmatched tubes cause many sets to tune very broad.

#### 5 TUBE COMBINATIONS

Combination S-1—For New Sets  
4 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amp. with Standard Base.  
2K1007—Complete.  
List Value, \$13.75. Net, .....\$6.89

#### Combination S-2—For Old Sets

2 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amplifier with Adapter  
Base; no rewiring necessary  
2K953—Complete.  
List Value, \$14.25. Net, .....\$7.13

#### 6 TUBE COMBINATIONS

Combination S-3—For New Sets  
4 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amp. with Standard Base.  
2K1009—Complete.  
List Value, \$15.50. Net, .....\$7.75

#### Combination S-4—For Old Sets

4 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amplifier with Adapter  
Base; no rewiring necessary  
2K955—Complete.  
List Value, \$16.00. Net, .....\$8.00

#### 7 TUBE COMBINATIONS

Combination S-5—For New Sets  
5 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amp. with Standard Base.  
2K1012—Complete.  
List Value, \$17.25. Net, .....\$8.63

#### Combination S-6—For Old Sets

5 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amplifier with Adapter  
Base; no rewiring necessary  
2K957—Complete.  
List Value, \$17.75. Net, .....\$8.88

#### 8 TUBE COMBINATIONS

Combination S-7—For New Sets  
6 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amp. with Standard Base.  
2K1035—Complete.  
List Value, \$19.00. Net, .....\$9.50

#### Combination S-8—For Old Sets

6 X-201-A Amplifier Tubes  
1 200-A Power Detector  
1 171-A Power Amplifier with Adapter  
Base; no rewiring necessary  
2K959—Complete.  
List Value, \$19.50. Net, .....\$9.75

### Sonatrons Tubes for 'B' Eliminators



#### TYPE SH-85

**Gas Filled** The Sonatron laboratories perfected this improved type of surface-cooled gas filled, full-wave, no filament rectifier tube for "B" Eliminators. Its rugged construction insures a keen even flow of rectified current at maximum efficiency. When properly used this tube will deliver 1200 hours of service; guaranteed for 600 hours. Current Consumption, 8 watts; Maximum AC Input Voltage (per plate), 200; Maximum Rectified Current (both plates), 65 mls.  
2K960—List, \$4.50. Net, each....\$2.25

#### TYPE 213

Full Wave Rectifier Tube for "B" Eliminator  
For Rectifying Current, Fil. volts 5; Fil. amp. 1.5; Max. AC input voltage 220 volts per plate (RMS); Max. DC output 65 mls.  
2K1001—List, \$5.00. Net, each....\$2.50

#### TYPE 216-B

Half Wave Rectifier for "B" Eliminator  
For Rectifying Current, Fil. volts 5 to 8—7.5 avg.; Fil. amp. 2.75; Max AC input voltage 250 volts (RMS); Max DC output 65 mls.  
2K1000—List, \$7.50. Net, each....\$3.75

#### TYPE 281

##### Half Wave Rectifier

This tube may be used in devices designed for the Type 216-B. While its rating is higher, the normal output is approximately the same as the Type 216-B. It has a longer life because it is made with the new Sonatron oxide filament. Fil. volts 7.5; Fil. amp. .75; A.C. plate voltage (max. per plate) 750 (RMS); D.C. output current 125 mls. at 500 volts (RMS); A.C. plate voltage, 2K963—List, \$9.50. Net, each....\$4.75

#### TYPE 280

##### Full Wave Rectifier

This tube may be used in devices designed for Type 213-B tubes. It has a higher rating and longer life than the Type 213-B by reason of its greater reserve output. Fil. volts 7.5; Fil. amp. 1.5; A.C. plate voltage 750; D.C. output current 125 mls.; D.C. output current 110 mls. at 500 volts.  
2K964—List, \$9.50. Net, each....\$2.75



### Sonatron Amplifier

#### 10 Days' Free Test

So remarkable is the tone quality and volume of this Amplifier that after selling several thousand—we decided to offer a real money-back guarantee—"If you are not satisfied with the Sonatron Amplifier. This guarantee is good for 10 days from our shipment to you—provided tubes are not burned out or Amplifier broken when returned to us. We also guarantee tone equal to a \$200.00 set. The Amplifier will not change the tuning of any set—just the volume and tone. An opportunity to bring old sets up to date at small cost. Amplifier base made of moulded bakelite. Very best grade resistors and condensers used.

#### THREE AUDIO STAGES RESISTANCE COUPLED

2K950—Complete with three 6 volt tubes; List, \$20.00.  
2K951—Complete with three 3 volt tubes; Net .....\$12.00

#### Hi-Mu 6 Volt Tubes

The newest and best in power amplification for resistance or impedance coupled sets.

2K914—MU-X-20 (any stage except last) } List, \$4.00.  
2K915—MU-X-20 (any stage except last) } Net .....\$2.00  
2K916—MU-X-6 (for last or output stage) }  
Set of 3 in Special Display Box.

2K926—List Value, \$12.00. Net, Box, .....\$6.00

#### Hi-Mu Dry Cell Tubes

2K917—MU-X-20 (any stage except last) } List, \$4.00.  
2K918—MU-X-10 (any stage except last) } Net .....\$2.00  
2K919—MU-X-6 (for last or output stage) }  
Set of 3 in Special Display Box.

2K924—List Value, \$12.00. Net, Box, .....\$6.00



# Continental

Formerly Standard Radio Tubes

\$1.75

Look at These New Low Prices

Now Only

**\$1.00**  
Retail Price

201A Type

Your Net Cost

**59¢**

In Lots of Ten or More

Article Number	Type	Retail Price	Net Each	In Lots of Ten, Each
2K850	201A	\$1.00	\$0.65	\$0.59
2K851	199	1.25	.81	.75
2K852	200A	2.50	1.12	1.05
2K853	171	2.50	1.12	1.05
2K854	112	2.50	1.12	1.05

THE CONTINENTAL TUBE IS OF STANDARD QUALITY AND STANDARD METER TEST AND FULLY GUARANTEED—VOLUME PRODUCTION MAKES THIS PRICE POSSIBLE.

The greatest and most sensational price reduction ever offered in high quality standard meter test guaranteed radio tubes. No job lot or old style base tubes but genuine CONTINENTAL tubes, "new" of the very best grade. Increased production and large volume business enables us to offer CONTINENTAL quality tubes at the new established standard retail price of only \$1.00 for the 201A type.

Never before has a standard quality radio tube been offered at this low price. Each tube packed in individual box, carefully tested and unconditionally guaranteed. The 201A type shows an emission reading of 55-60 at 45 volts or 65-70 at 90 volts and in the 199 type a reading of 20-25. That's real quality! Other types are of correspondingly good performance.

Every dealer should have a good, reliable dollar tube to please the customer who buys strictly on a price basis. They also make a good "leader" item for special sales days. Here is what we believe to be the best of the low priced tubes now offered.

Continental Tubes are guaranteed by the maker to be equal in every respect to most tubes selling for much higher prices. These tubes sell quickly and stay sold. The best engineering skill, experience and knowledge gained from years of specialization are incorporated in their manufacture.

Every Continental Tube is absolutely guaranteed against all defects—no refunds—no reservations. Defective tubes are replaced without charge.

NOTE: Don't class the Continental Tube with the ordinary dollar tube which is usually a factory second or reject. Continental Tubes are a distinctly quality proposition.



## McDonald Howl Arrester



### STOPS THE HOWLS

Here is a positive remedy for one of the biggest little annoyances of the radio industry—that nerve-racking howling of tubes caused by microphone vibrations!



See that rubber jacket about to descend on the "howler"! Once this "howl absorber" slips over a tube the howl stops for once and all.

No more ruined reception. The thick shield of live rubber effectively soaks up the trouble-making vibration.

It comes in sizes to fit every size tube.

2K842—For 201A size tubes.

2K843—For 199 size tubes.

Retail price, each, 75c.

Your net cost, each.....46c

## Quietron Tube Cap



The Dial Quietron is a dome of nickel-plated brass, slotted and fitted with felt washers to give it a firm grip of the tube. Simply place a Quietron on any ringing, howling detector or amplifier, and the noise stops at once. How? By the weight of the Quietron. Microphonic noises are started by mechanical vibrations which shake the tube.

The Dial Quietron so weights the top of the tube that it does not—cannot vibrate in response to outside influences. Simple—nothing to wear out or break—has no electrical function or effect—handsome—and remarkably low priced.

2K817—List price, 50c. Net...33c



## Concert Master CopperShielded

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 201-A 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.



2K845—201A Type.	Retail price, \$2.50.	Your Net Cost.....	\$1.50
2K846—200A Type Detector.	List, \$4.50.	Net.....	2.70
2K848—199 Type.	List, \$2.50.	Net.....	1.50
2K847—X12 Type Power Tubes.	List, \$4.50.	Net.....	2.70
2K849—171 Type Power Tube.	List, \$4.50.	Net.....	2.70



# OUR STRONGEST GUARANTEE

## La Salle High Vacuum Radio Tubes



# Reception Reaches Finest Point of *Sensitiveness*

## When Tubes of Highest Vacuum are Used

Notwithstanding the general impression, there is a world of difference in radio tubes. According to extensive tests made by LaSalle engineers, it has been conclusively proven that the distinction most important to the best results is the state of vacuum existing in the tube.

The tendency of radio engineers is to seek a finer point of sensitiveness for the receivers which they build. The average set user wants his set to pick up everything in the air and, in order to do that, it must have capacity to bring in the weaker as well as the stronger broadcast signals. Since the heart of the receiver is the vacuum tube, it was quite natural that, after the set was perfected mechanically and electrically, some steps be taken in the direction of the improvement of the vacuum tube itself. This, naturally, led the makers of LaSalle tubes to bend their efforts to the construction of the most highly sensitive tube that could be produced. This result was obtained after exhaustive experiments and tests, by creating in the manufacture of these tubes an almost complete state of evacuation—the highest possible vacuum obtainable.

The use of these high vacuum radio tubes means better reception for a much longer period of time, and that is

the reason why the LaSalle makers can back these tubes with such an unusually strong guarantee. You will be amazed at the overwhelming volume and richness of tone, as well as the extreme sensitiveness. There is a complete absence of microphonic noises, resulting in natural smooth, powerful reception, the like of which you perhaps have never heard before.

These wonderful tubes are distinguished by many special features of construction and are, unquestionably, made by the most costly, intricate processes yet used in tube manufacture.

Yet you will see that while they are of superior quality, these fine tubes may be offered for sale at no higher than standard prices. The dealer who gets behind LaSalle tubes will find, through them, an avenue of great good will for his store and a healthy, worthwhile trade in this most important division of his business. We are very glad to co-operate with the manufacturer in distributing LaSalle tubes to Braun dealers, and we urge them to carry this line as a quality product along with the other recognized brands which we list.



# BACKS THESE FAMOUS TUBES

## How LaSalle Tubes Are Made

There is no secret, particularly, of the costly and intricate processes by which higher vacuum is obtainable in radio tubes. The methods employed are very expensive, however, and likewise require considerably more time for the manufacture of the tubes. A couple of ordinary radio tubes could be made in the time it takes to make one LaSalle High-Vacuum Radio Tube—as you will readily understand upon learning how the highest vacuum is secured.

### Eliminating Moisture and Detrimental Gases

Complete elimination of moisture and gases from the tube is a costly process. In LaSalle High-Vacuum Radio Tubes, all parts are super-heated to within a few degrees of the melting point. This terrific heat forces all impurities from the nickel plate, wires, grids and filaments, and the various pumping processes remove them from the tube.

### Metal Heated Without Melting Glass

The intensity of the heat used to drive the impurities from the metals is increased by passing a high-frequency electric current **THROUGH THE GLASS**. This current, under a pressure of between ten and twelve thousand volts, brings the metal parts inside the glass tube to a white heat. This forces any remaining impurities out, and they are instantly removed by the pumps.

### Liquid Air Process

This is one of the processes by which vacuum is obtained in the LaSalle High-Vacuum Radio Tube. Liquid air is used as a freezing agent. It freezes instantaneously anything with which it comes in contact. It solidifies the gases while being pumped out of the tube, and prevents them from backing up during the pumping process.

### Mercury Vapor Pump Process

In addition to using triple-action oil-sealed rotary vacuum pumps, a mercury vapor condensation process pump is used to further insure the highest degree of vacuum obtainable. It also prevents all vapors from rushing back into the tubes while being pumped in the final stages of evacuation.

### Highest Vacuum Means Amazing Reception

You will note from the foregoing outline of the many processes used that LaSalle Radio Tubes go through treatment that must produce the highest possible vacuum. This is one of their chief advantages over other tubes. Another great advantage, that is exclusive to LaSalle Radio Tubes, is the superiority of their mechanical construction. For instance, a Moa bridge support separates the main support wires to which the grid, the plate and the filaments are spot-welded, at the correct distance. This insures rigidity of construction far greater than is obtainable in ordinary tubes. It insures the exact, proper spacing and distance of the grid to the filament and the grid to the plate. This feature is responsible for the marvelous uniformity in results obtained from LaSalle High-Vacuum Radio Tubes. Also, this method of construction adds extra life to the tubes and prevents the microphonic noises created in ordinary tubes.

### Other LaSalle Features

LaSalle tubes are made with thoriated tungsten wire of extremely high emission quality. On Type LS-112 Power Detector or Amplifier an oxide coated platinum ribbon filament is used to further increase emission for better and clearer tuning.

The filament voltage in LaSalle tubes is not critical. On a drop of 25% and more in the filament voltage or "A" current it will not affect volume or clarity of the tubes.

**Bases**—All LaSalle tubes are equipped with the new style standard X, long prong, black genuine Bakelite short bases.

### Special Low Prices

To introduce these wonderful tubes to our trade quickly, we are listing them at the special prices shown. These tubes, representing the highest quality of radio tube construction in the industry, will satisfy your customers one hundred per cent—certainly better than any tube that you have been able to offer them to date. Place your order at once—and see how quickly the radio tube business in your neighborhood wings to your place of business.

## The LaSalle Guarantee

We guarantee that LaSalle High-Vacuum Radio Tubes will give satisfactory results if used at the correct filament and plate voltage. If, for any reason, any tube fails to give absolute satisfaction it may be returned for exchange or credit to the manufacturer or to us.



## LS-201 A

5 volt amplifier and detector for storage battery or "B" eliminator operated sets. Comes equipped with new standard X base. Filament voltage 5; amperes .25; plate voltage 22½ to 150; "C" battery voltage 1.5 to 12.  
2K980—List. \$1.75. Net, each..... **88c**

## LS-200 A

Special power detector for borrowed volume and greater distance. Should be used as detector only in storage battery sets. Filament voltage .5; Filament amperes .25; Plate voltage 22½ to 45.  
2K981—List. \$4.00. Net each..... **\$2.00**

## LS-112

Power amplifier or detector made with oxide coated platinum filament for storage battery sets. Maximum results are obtained with this tube. Filament volts 5; Filament amperes .5; Plate voltage 22½ to 150; "C" battery voltage 4.5 to 10.  
2K982—List. \$4.50. Net, each..... **\$2.25**

## LS-171

Power amplifier in storage battery operated set for last stage of audio frequency only. Gives greater amplification without distortion. Filament volts 5; Filament amperes .5; Plate voltage 90-180; Negative grid volts with (90 plus) 22½; Negative grid volts with 180 plus 40½.  
2K983—List. \$4.50. Net, each..... **\$2.25**

## LS-199

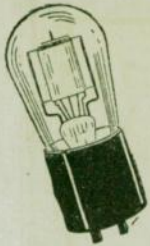
3 volt amplifier and detector with new X base for dry cell operated sets. Filament volts 3; Filament amperes .06; Plate voltage 22½ to 90; "C" battery voltage 1.5 to 4.5.  
2K984—List. \$2.25. Net, each..... **\$1.13**

## LS-120

Power amplifier to be used in last stage of audio only. Produces best results in dry cell operated sets. Filament volts 3; Filament amperes .125; Plate voltage 115; "C" battery voltage 22.5.  
2K985—List. \$2.50. Net, each..... **\$1.25**



# Radiotron and Cunningham Tubes



Radiotron and Cunningham Tubes need no introduction. They are standard for radio use throughout the world. But to obtain the proper results be sure your tubes are always in good condition, and treat them carefully.

Don't use new tubes with old ones—If your tubes have been used for a year—and one needs replacing—much better results will be obtained by replacing all of the tubes. To keep your radio at maximum efficiency, change all your tubes at least once a year. **TUBE PRICES**—Our selling prices are based on standard dealers' discounts of 30% from list prices. Should list prices or discounts decline, our selling prices will be lowered on a proportionate basis.

We supply either R. C. A. or Cunningham tubes which are of identical construction and give identical results.

## CX301A, UX201A Amplifier De- tectors

The standard tubes wherever radio is known. Filament requires current of 5 volts, ¼ ampere. Used with a 6-volt battery, a 10-ohm rheostat is required. Highly efficient as radio or audio frequency amplifiers and as detectors. Recommended for all sockets in any type of receiving circuit. Fit all standard and new X universal sockets. **2K921**—Radiotron UX201A.  
**2K931**—Cunningham CX301A.  
List, \$1.75. Net.....\$1.23

## UX100 Detector

In certain circuits far surpasses any other type of tube as a detector and is recommended in those circuits in spite of high current consumption, which is about 1 ampere at 5.4 volts on filament. Plate voltage varies from 18 to 22½ volts. Both plate and filament voltages are critical, making advisable a vernier rheostat in filament circuit. **2K1016**—Radiotron UX100.  
List, \$1.75. Net.....\$1.23

## UX112-CX112

Storage battery power amplifier tube for improvement of clarity and volume. Plate voltage 135 v., grid bias 9 v., with 157 volt plate voltage maximum. Filament 5 volts 0.5 ampere. Has new X type universal base. **2K1017**—UX112.  
**2K1037**—CX112.  
List, \$4.50. Net.....\$3.15

## UX210-CX210

New super-power amplifying tube designed for use in A. C. operated power amplifiers. Plate voltage 425 v. maximum; grid bias 35 v. at 7.5 v. on filament. Normal plate voltage 135 v., bias 9 v. on normal 6 v. filament. Has new X type universal base. **2K1018**—UX210.  
**2K1038**—CX210.  
List, \$9.00. Net.....\$6.30

## UX171-CX171

A power amplifier of extremely low output impedance for use in last audio stage only. Operates on 5-volt filament voltage using 0.5 ampere. The volume obtainable with this tube, even with 90 volts plate, is exceptionally high. But with higher plate voltage properly biased the output exceeds anything previously obtainable. **2K1032**—Radiotron UX171.  
**2K1033**—Cunningham CX171.  
List price, \$4.50. Net.....\$3.15

## UX213-CX213-Full Wave Rectifier

A full wave rectifier. Has output of 65 milliamperes at a maximum voltage of 220 A.C. **2K1023**—UX213.  
**2K1033**—CX213.  
List, \$5.00. Net.....\$3.50



## Donlie-Bristol Detector

A supersensitive detector designed purely for detection; nothing else. All signals are reproduced with greater fidelity. Volume, especially on weak signals, is increased but not at the slightest expense of quality. The background noise or hiss is greatly lessened and on the majority of signals is entirely absent. As an example of its efficiency, cases have been reported where signals which were otherwise inaudible even with telephone receivers, were brought in with good loud speaker volume solely because of the substitution of the B-6 for the ordinary "hard" tube which had been used. Filament volts, 5; filament amperes, .25; plate volts, 22½-90; grid return, positive, to socket; rheostat resistance, 15-20 ohms; grid condenser, .00025 mfd.; grid leak, ¼-3 megohms.

**2K826**—List price, \$4.00. Net.....\$2.60

## Tube Adapters

**3K814**—To adapt UX199 or C299 tubes to standard base sockets. Net.....\$28c  
**3K815**—To adapt WD11 or C11 tubes to standard base sockets. Net.....\$42c  
**3K816**—To adapt UX199 tubes to standard base sockets. Net.....\$17c



## C299, CX299, UX199, UX199 Dry Cell Tubes

Built for use with dry batteries. Bring in distant stations with loud speaker volume in clear, natural tones. Use only .06 ampere at 3 volts. Work equally well as detectors or amplifiers. Fit all 199 and new X universal sockets. **2K922**—Radiotron UX199.  
**2K920**—Radiotron UX199.  
**2K932**—Cunningham C299.  
**2K930**—Cunningham CX299.  
List, \$2.25. Net.....\$1.58

## UX120-CX120

Dry battery power amplifier tube which, when connected to last audio stage of a dry battery operated receiver, provides volume double that obtainable with 199 tubes. Plate voltage 135 v. Grid bias 22 v. Filament operates at 3 volts, 0.125 ampere. Has new X type universal base. **2K928**—UX120.  
**2K938**—CX120.  
List, \$2.50. Net.....\$1.75

## C11, WD11, C12, CX12

Equally efficient as detectors and amplifiers. Use 1.1 volt ¼ ampere filament current so that an ordinary single dry cell will operate them. Plate voltage 22½ to 45 v. for detector; 45 to 90 v. for amplifier. **2K1019**—Radiotron WD12, CX12, fits standard base and new X universal sockets. List, \$2.50. Net.....\$1.75  
**2K1020**—C11, WD11, requires special type socket. List, \$2.50. Net.....\$1.75  
**2K1039**—Cunningham C12, CX12.  
List, \$2.50. Net.....\$1.75

## UX300A-CX300A

The most sensitive and efficient detector. Very stable, not critical to the adjustment of the plate voltage. Will produce, on distant signals, additional sensitivity and volume approximately equal to that which would be obtained by the addition of one stage of radio frequency amplification. No changes in the set required to use this tube. Filament current 5 volts 0.25 ampere. Plate voltage 45 volts maximum. **2K1021**—Cunningham UX300A.  
**2K1021**—Radiotron UX200A.  
List, \$4.00. Net.....\$2.80

## UX216B-CX216B

A half-wave rectifier used to supply unidirectional current from an alternating current source. Output 65 milliamperes at a maximum impressed voltage of 550 A.C. Has long life. Two of these tubes may be connected to give full wave rectification with an output of 130 milliamperes. **2K1024**—UX216B.  
**2K1034**—CX216B.  
List, \$7.50. Net.....\$5.25

## UX874-CX874

A voltage regulator tube designed to maintain constant voltage of "B" eliminators at different current drains. **2K933**—UX874 Radiotron.  
**2K934**—CX874 Cunningham.  
List, \$5.50. Net.....\$3.85

## UX240-CX340 Hi-Mu Amplifier

Has an amplification constant of 30. Especially adapted to resistance coupled and impedance amplifiers. Gives splendid results in untuned antenna coupling stage. When used with regular A.F. transformers they peak sharply at 1,000 cycles which characteristic produces unusually great volume in code work but makes them unsuitable for broadcast reproduction with transformers. Filament voltage 5 volts; current 0.25 ampere; 135 volt plate. **2K937**—UX240 Radiotron.  
**2K939**—CX340 Cunningham.  
List, \$2.25. Net.....\$1.57

## UY217-CY327 A. C. Detector

A detector tube containing a heater element operating from alternating current. Intended for use with UX 226 type amplifier tubes. Heater voltage 2.5 volts; heater current 1.75 ampere; D. C. Plate Voltage 45-90 Volts. Has special 5 prong base. **2K942**—UY217 Radiotron.  
**2K943**—CY327 Cunningham.  
List, \$6.00. Net.....\$4.20

## UX226-CX226 A. C. Amplifier

An amplifier tube; the filament being operated from alternating current. For I. F. amplification or transformer coupled A.F. amplification, not suitable for detection. Filament voltage 1.5 volts; current 1.05 ampere; D.C. plate voltage 90-180. **2K944**—UX226 Radiotron.  
**2K945**—CX226 Cunningham.  
List, \$5.00. Net.....\$2.10

## UX250-CX250 Full Wave Rectifier

New type oxide coated ribbon filament, very sturdy with high emission at lower input. Requires fewer condensers in rectifying and filtering circuits. Have lower surge peaks. Provide quiet steady operation. Interchangeable with UX213-CX213. Filament Voltage 5 volts; current 2.0 ampere; A.C. Plate voltage (maximum) 300 volts; D.C. output current (max.) 125 milliamperes. **2K940**—UX250 Radiotron.  
**2K941**—CX250 Cunningham.  
List, \$5.50. Net.....\$3.85

## UX281-CX301 Half Wave Rectifier

New type oxide coated ribbon filament, very sturdy with high emission at lower input. Requires fewer condensers in rectifying and filtering circuits. Have lower surge peaks. Provide quiet steady operation. Interchangeable with UX216B-CX216B. Filament voltage 7.5 volts; current 1.25 ampere; A.C. Plate voltage (Max.) 750 volts; D. C. output (Max.) 110 milliamperes. **2K935**—UX281 Radiotron.  
**2K936**—CX301 Cunningham.  
List, \$9.50. Net.....\$6.65

## Na-Aid Power Tube Adapters "Connectoids"



Permit the use of the new power tubes in any set without alteration of wiring. Two "P" and two "C" battery leads are provided so that the additional B and C batteries are connected in the circuit at socket.

**3K828**—Na-Aid No. 120—Adapts UX120 and similar tubes to standard base sockets. List, \$1.25. Net.....\$1c  
**3K829**—Na-Aid No. 112. Permits use of UX112, UX171 and similar power tubes in standard sets. List, \$1.50. Net.....\$98c

## McCullough A. C. 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. No filament to burn out.

**2K824**—A. C. Radio Tubes. List, \$5.00. Net.....\$3.75

## A. C. Tube Transformer

**2K1712**—A. C. Tube Transformer. For use with McCullough A. C. tubes. List, \$6.00. Net.....\$3.60 Postage, 10c extra.





## Jewell Radio Service Set



The Jewell Portable Radio Service Set meets every demand of radio servicing. In its neat, compact case is every instrument and device required to test every part of a set—tubes, batteries, B eliminators and chargers. There are two meters; a voltmeter with four different ranges from 2.5 to 7, 7.5, 140 and 200 volts for testing A battery, B batteries and C battery or B eliminator; a combination meter with range for total filament current or charging rate, of zero to 7 amperes, zero to 14 milliamperes for tube testing and zero to 70 milliamperes for total plate current or B eliminator output. Also a rheostat and tube socket are provided and are arranged to test any type of tube.

A battery compartment is provided to hold four No. 6 dry cells—six sized 22½ volt B batteries and three 7½ volt C batteries. Connections are arranged so that current in any of the following voltages is obtainable: 4½, 6, 7½, 9, 22½, 45, 90 and 135 volts. In addition there is a compartment to hold wire leads, tools, etc. The whole set is made as compact and light as practical. The case is of bent reinforced three ply construction and is covered with beautiful durable black imitation leather.

A good service man with this test set will come in handy for every service call he makes. Not only will he render efficient and satisfactory service, but if he has sales ability he will pick up profitable orders for extra parts, such as instruments for testing batteries and tubes, B eliminators, chargers, lightning arresters, loud speakers, etc. Don't neglect your service calls.

Shipping wt., 25 lbs.  
**3K1706**—List price without tools or batteries, \$78.00.  
 Net price ..... \$58.00

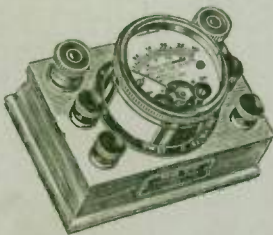
## Sterling B-Eliminator Voltage Tester



An accurate high resistance voltmeter. Will test any battery or D.C. circuit up to 300 volts. Any service man or set owner can get the actual output of any "B" eliminator, in a quick and specific manner. Set owners use it to get the exact socket power voltage for set operation. Never before has such a high resistance tester been available at this remarkably low price. Scale 0-300 volts. Size, 3½x4½ in. long. Shipping weight, 1½ lbs.

**3K1741**—List price, \$8.50.  
 Net ..... \$5.53

## Hoyt Radio Rotary Meter



**3K1922**—List, \$24.00.  
 Net ..... \$18.00

A precision volt-ammeter. D'Arsonval Type. Resistance 70 ohms per volt. Combines all ranges necessary for radio testing—0-15 M.A.; 0-75 M.A.; 0-7.5 Amps.; 0-75 volts; 0-150 volts. Can be used in circuit continuously. By tuning 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 ¼ M.A. or ½ volt easily read. Dimensions overall 4½x5½x2 in. Shipping wt., 2 lbs.

## Readrite Home Tube Tester

Equipped with an accurate milliammeter. Meter detachable for other testing. Is provided with a switch which places a bias on the grid allowing the meter reading a wide range of deflection. A simple table shows instantly what a good or poor tube should indicate. Tests the amplifying efficiency of the tube, also detects shorts. Simple instructions accompany each tester. For all 3 and 5 volt tubes. Shipping wt., 1½ lbs.

**3K1742**—List, \$3.00.  
 Net ..... \$1.95



## Sterling "Universal Service" Tester



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 0-15 scale. Wiring diagram of battery hook-up for counter testing furnished. Size 6½x7½x3½ inches high. Shipping weight, 5½ lbs.

**3K1745**—List price, \$25.00. Net ..... \$16.25

## Jefferson Tube Rejuvenator Tubes Usefulness



At its small cost the Jefferson Tube Rejuvenator saves you for itself many times over in the saving of tubes and batteries. This device will keep tubes at full efficiency at all times.

**3K1710**—For all type tubes.  
 Retail price, \$7.50.  
 Net price ..... \$4.50

**3K1746**—For 301A type or any ½ ampere tubes. List, \$3.50.  
 Net ..... \$2.10

**3K1747**—For 100 type. List, \$3.50. Net ..... \$2.10

## Jefferson Tube Charger

Will charge all types of tubes while in set. Rejuvenates and restores efficiency. Operates from 110-v., 60 cycle A.C.

**3K1748**—List, \$3.50. Net ..... \$2.35

## Jefferson Tube Checker



Shows exact condition of any tube in the set. Tests all type tubes with standard or N base. Shipping weight, 3 pounds.  
**3K1749**—List, \$6.00.  
 Net ..... \$3.60

## Readrite No. 210 Tube Checker



Has 0-6 voltmeter, 0-10 milliammeters, and bias switch, rheostat, standard socket and binding post for making connections—all assembled on neatly finished metal case. Instructions for using included. Shipping wt., 2 lbs.

**3K1751**—List, \$7.50.  
 Net ..... \$4.50  
**3K1752**—Connecting cord with plug to connect to socket of set. List, \$1.00.  
 Net ..... 66¢

## Sterling "Home" Tube Tester R-411



For testing all large tubes, including 300-A, 112 and 171 types. Simple to operate—exchange positions of tube and tester plug, adjust indicator hand to arrow through rheostat on receiver and press indicator button. Indicator hand shows whether tube is "good," "fair" or "poor." No computations. Size, 3½x2½ in. high. Shipping wt., 3 lbs.

**3K1700**—List, \$7.50.  
 Net ..... \$4.60

## Sterling Tube Tester—Professional Model



A tube tester for radio dealers. Easily located up. Checks all tubes including the 171 power amplifier and 300-A detector. Equipped with a rheostat and meters—filament 0-5 volts, plate tube 0-120 and milliamperes 0-15 scale. Requires one "C" battery. A tube socket adapter is supplied with each tester. Size, 4½x5½x2 in. Adapter for UV199 and C299 tubes furnished complete with instructions. Shipping weight, 6 lbs.

**3K1703**—Retail price, \$25.00. Net price ..... \$15.75

## Sterling "Metered" Tube Reactivator R-403



For large and small tubes, including 300-A, 171 and all tubes having thoriated filaments. Extension 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, 6½x5 in. Shipping wt., 8 lbs.

**3K1704** List, \$12.50. Net, \$7.85

## Jewell Tube Checker

A dependable instrument for the merchant who wants to protect himself as well as his customers from putting defective tubes. The case is cast aluminum, black enameled and mounted on a wood base. Its dimensions are 5½ inches high, 5 inches wide and 12 inches long. Has voltmeter with scale 0-6 volts and milliammeter with scale 0-15 milliamperes. Complete instructions are attached to the bottom of the checker. Shipping weight, 5 lbs.

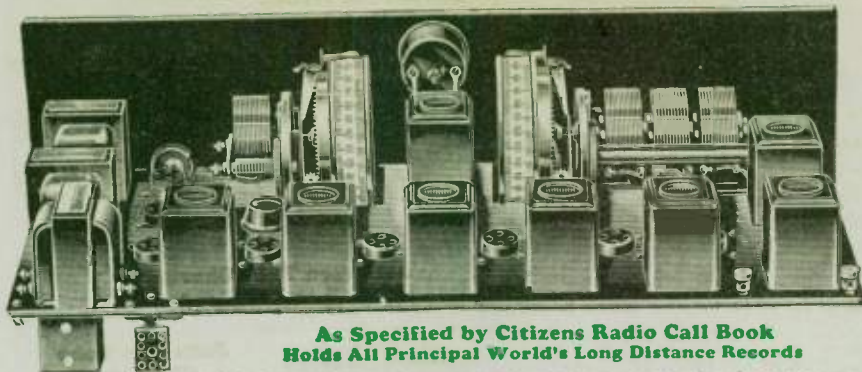


**3K1705**—List price, \$15.00. Net price ..... \$27.25



# NEW WORLD'S RECORD SUPER 10

## RADIO'S MOST POWERFUL RECEIVER



**As Specified by Citizens Radio Call Book  
Holds All Principal World's Long Distance Records**

**DISTANCE**—Here is the receiver for the man who wants the most powerful and sensitive set it is possible to build. Many claim to have received certain stations once or twice, but the World's Record Super stations once or twice, but the World's Record Super proved its claim. Stations distant 6,000 miles or more, night after night. Here are a few of the principal records made by this remarkable receiver:

(1) World's Record for the greatest distance voice has been heard with a receiver using LOEP aerial only. WGBB was heard at Tasman, New Zealand, on air line distance of 8,375 miles on March 17th.

(2) World's Record for the greatest number of stations heard which are distant 6,000 miles or more. A total of 19 stations were brought in.

(3) World's Record for the greatest number of broadcasting stations distant 6,000 miles or more, that have ever been logged on any one evening. Six foreign stations were logged in two hours and a quarter. During a period of three months a total of 117 programs were heard and logged, all stations being 6,000 miles or more distant.

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

**WIDE, NON-CRITICAL, SELECTIVITY**—Consistent long distance reception is only ONE of the attributes of the World's Record Super 10. The amazing selectivity of this remarkable radio, making possible these astounding feats of long distance reception, is further enhanced by keen, non-critical selectivity. The World's Record Super 10 tunes through the local stations with ease and simplicity, and brings in distant stations only a few meters apart. Here is a super radio designed to accommodate the conditions of the present day.

### TREMENDOUS UNDISTORTED VOLUME

The ten tubes, used in the World's Record Super 10 are all connected in a circuit that has as its basic purpose the intensifying and amplification of distant signals, and this ultimate purpose is so expertly achieved that the reception actually improves the timbre and quality of the selections that are received.

A radio, to be entertaining, must be pleasant to listen to. The World's Record Super 10 is more than a pleasure—it is a revelation in sound qualities.

### EASY TO ASSEMBLE

Complete building instructions and full sized working blue prints show exactly where to place each part, and how to execute each operation of assembly so that you cannot go wrong. These prints are so easily followed that anyone without previous experience can make an EXACT DUPLICATE of this unparalleled radio, and be the proud owner of the finest and most powerful radio available today.

### THIS NEWEST MODEL

The New World's Record Super 10, the latest design by Mr. Scott, is the culmination of all the virtues of its predecessors, together with all the latest refinements of proven merit, and the latest discoveries of the World's Record Super 10 was developed. In sharp contrast to other receivers of this type and previous models, the Super 10 is designed for antenna operation. This makes it possible to incorporate the advantages of two stages of tuned RF ahead of the detector in connection with a short antenna of from 20 to 30 feet, conveniently placed around a moulding or other inconspicuous place. This new departure provides sensitivity and selectivity heretofore never possible with a loop pickup arrangement.

The set has only two non-critical tuning controls that are actively used, an ingenious gang control at-

**Front View of World's Record Super 10**



tainment obviating the necessity of the constant adjustments usual with other receivers.

In appearance, this receiver has no peer or equal. It has that intriguing quality of mechanical intricacy which commands the attention and admiration of the most sophisticated engineer—and yet is so beautiful from the mechanical and artistic standpoint that the most discriminating will readily recognize it as the most outstanding receiver of the season.

### LIST OF PARTS

		List	Net
3K5690	1	Permea Panel 26x7 1/2 in. Dr. and Eng. ....	\$6.70 \$4.36
3K5691	1	Permea Sub-panel 25x10 1/2 in. Dr. ....	7.00 4.55
3K4163	1	Remler 3 in. Line Cond. No. 633, .00055 mf. ....	15.00 9.00
3K4156	1	Remler Cond. .00055 mf. ....	5.00 3.00
3K4168	1	Remler 110L Drum Dials ....	4.50 2.70
3K4167	1	Remler 110L Drum Dial ....	4.50 2.70
3K4165	2	Remler Choke Coils # 900 ....	1.80 1.08
3K1216	2	Thordarson R 200 Audio Trans. or #5.00 ....	16.00 9.60
3K1254	1	Thordarson No. 70 Output Trans. ....	6.00 3.60
3K4251	2	Selectone L. W. Trans. No. B-500 or #6.00 ....	12.00 7.80
3K4252	2	Selectone L. W. Trans. No. B-510 or #6.00 ....	12.00 7.80
3K4253	2	Selectone R. F. Trans. No. B-520 or #5.00 ....	10.00 6.50
3K4254	1	Selectone Ant. Coupler ....	5.00 3.25
3K4255	1	Selectone One. Coupler ....	5.00 3.25
3K4108	10	Benjamin Sockets ....	5.00 3.00
3K5719	1	pair Benjamin Brackets ....	.75 .45
3K4585	1	Carter Rheo. 1H-15-8-15 ohms (with switch) ....	1.50 .90
3K4519	1	Carter Rheo. 50 ohms ....	1.00 .60
3K4581	1	Carter Power Rheo. MW-1 ohm ....	.75 .45
3K4521	1	Carter Imp. Pat. B-400 ohms ....	1.25 .75
3K768	1	Carter .00025 mf. PK. Cond. with switch ....	.50 .30
3K755	1	Carter .002 mf. Fix. Cond. ....	.50 .30
3K2426	1	Jan Carter No. 10 Pin Jacks ....	.20 .12
3K4828	1	SM No. 340 Midget Cond. J. well 1 Voltmeter. 0-8 volts, Pat. 155 ....	1.50 .90
3K1901	1	Tone 1 mf. By Pass Condensers or #1.25 ....	7.00 4.55
3K432	4	Tube Grid Leak, 3 max. ....	.50 .30
3K765	1	Jones 10 Contact Plug and Cable, Type BM. ....	3.50 2.10
3K698	1	Miscellaneous Screws, Locks, Nuts, etc. ....	.65 .39
3K2200	1	Ph. Beldan Colorulizer Wire ....	.40 .24
3K1657	1	Blue Prints ....	.25 .15

**3K390** Complete set of parts. List Price, \$139.35. Net..... **\$85.75**

Shipping weight, 25 lbs.

### MATCHED SELECTONE UNITS

The widely known accuracy of design and precision of manufacture represented in all Scott products is embodied in each of these units, which are essential in the construction of the new World's Record Super Ten. May be used in practically any circuit. Housed in a highly polished Bakelite case with all terminals plainly marked. Shipping wt., 1 lb.



### Matched Selectone Units

3K4251	No. B-500 Intermediate Transformer.	List, \$6.00. Net.....	\$3.90
3K4252	No. B-510 Tuned Filter.	List, \$6.00. Net.....	\$3.90
3K4253	No. B-520 Radio Frequency Transformer.	List, \$5.00. Net.....	\$3.25
3K4254	No. B-530 Antenna Coupling Unit.	List, \$5.00. Net.....	\$3.25
3K4255	No. B-540 Oscillator Unit.	List, \$5.00. Net.....	\$3.25

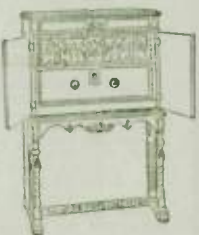
## The Lombardia Console

Words and picture can never portray the consummate beauty and elegance of this massive console. It is the kind of setting befitting such a wonderful receiver as the World's Record Super Ten. For specifications and a larger illustration, see page 113.



## The Arlington Console

The choice of the designer of the World's Record Super Ten is this wonderful console by Pierson. It is, without question, one of the finest radio consoles ever made. It will grace the most elaborately furnished home. See page 108.



## The Canterbury Console

Embodying, as it does, a magnificent design, a marvelous inbuilt speaker and ample space for all power units, this beautiful console will prove very popular with the owners of the W. R. S. Ten. For complete details and large illustration, see page 108.





# The World's Record Super 8



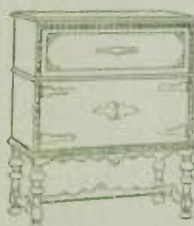
**The  
Canterbury  
Console**

Reflecting the old English period design, this wonderful console is extremely popular. Made by Pierson of the finest materials and richly finished, it makes an ideal housing for the World's Record 8. You will find complete illustration and description of it on **Page 108.**



**The  
Caravel  
Console**

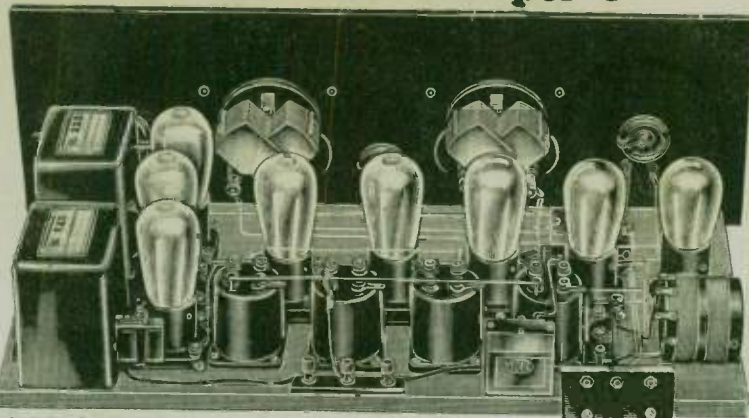
Here is a Spanish design, orthophonic type of console which incorporates one of the most efficient loud speakers made. Together with the wonderful audio system of the W. R. S. 8 Receiver, you have a fine radio set as can be built. See **Page 109.**



**The  
Seville  
Console**

The Spanish Treasure Chest—perhaps the most popular radio console ever made. The work of Pierson, famed for its quality of workmanship and finish. Reasonable in price, yet a most magnificent console and ideal for the W. R. S. 8 receiver. See **Page 109.**

**Has  
Established  
Itself as a  
World  
Wide  
Favorite**



The superheterodyne is acknowledged by leading radio engineers the most selective and powerful receiver it is possible to build. The circuit used in the World's Record Super 8 is practically the same as that used in the famous set that established the four world's records for long distance reception, and is one of the most efficient supers ever developed.

The Selectone Transformers used in the I. F. stages are supplied in perfectly matched sets consisting of two intermediate frequency and two sharply tuned filter transformers, and gives the set hair-line selectivity,

making it particularly suitable for use in locations where a number of powerful broadcasting stations make it difficult for an ordinary receiver to cut through. These transformers in addition to being tested and matched with the finest precision laboratory testing equipment are given a final test in a special testing receiver, making sure that every set of transformers will operate perfectly when built into a receiver.

It brings in distant stations any night in the week with good volume. The use of Silver Marshall audio transformers give it exceptional tone quality.

## List of Parts

Cat. No.	Quantity	Description	List	Net
3K4154	2	Remier Condensers No. 649 0005 mf @ \$5.00	\$10.00	\$6.00
3K3337	1	Hummarlund Midget cond. R0005		
3K4210	2	Selectone transformers R400 @ \$6.00	12.00	7.80
3K4256	1	Selectone Oscillator Coupler No. 340	3.50	2.33
3K4826	2	S. M. Audio Transformers @ \$5.00	16.00	9.60
3K4211	2	Selectone Transformers R410 @ \$6.00	12.00	7.80
3K4619	8	Benjamin Sockets in 75c	6.00	3.60
3K432	2	Tube 1 mf By-Pass Condensers @ .90c	1.80	1.03
3K755	1	Carter .002 mf HX Cond.	.60	.30
3K3302	1	Carter HI-Ohm, 500,000 ohms	2.00	1.20
3K4519	1	Carter Imp. Rheo 30 ohms	1.00	.60
3K4510	1	Carter 15 ohm Fixed Res.	.25	.15
3K4579	1	Carter Imp. Rheo with sw. 6 ohms	1.50	.90
3K2426	3	Carter Tip Jacks No. 10 @ 10c	.30	.18
3K2429	1	Carter Jack No. 1	.25	.15
3K694	3	XL Binding Posts	.45	.30
3K1400	2	Kurz-Kasch Diols 360 degrees @ \$2.00	4.00	2.40
3K5789	1	Bakelite Panel 7x24x3/4 in.	6.00	3.90
3K5644	1	Wooden Backboard 9x23 in.	1.00	.45
3K698		Miscellaneous Lugs, Screws, etc.	.50	.30
3K2101		20 ft. bus bar No. 14	.25	.16
3K1644		Blue Print	.50	.30
3K1529		Jones Multiplier, BM	2.50	1.50
3K352		Complete set of parts, List price, \$84.10. Net.....	\$51.95	
		Shipping weight 25 lbs.		

## Scott Selectone Transformers



### For Baseboard Mounting

These are transformers which made the World's Record Super Nine so good. Type R400 is an intermediate transformer with closed iron core. Peak frequency of 45 K. C. Type R500 is a tuned stage transformer of the air core type. All are matched to within a fraction of 1 per cent, assuring perfect results. A true laboratory product. Shpg. wt. 1 lb.

3K4210	—Selectone R400.	List, \$6.00.	Net, \$3.90
3K4211	—Selectone R410.	List, \$6.00.	Net, 3.90
3K4256	—Selectone Oscillator Coupler.	List, \$3.50.	Net, \$2.33

## New Selectone Two Stage RF Super Amplifier

**Specially Designed for Increasing the Range of any Super**

This unit uses the new Selectone R. F. transformers and is specially designed for addition to existing supers, enabling them to obtain loud speaker volume on distant stations that previously were not get on phones. The reason for this is simply explained. The ordinary super can only amplify the signals detected by the 1st detector. This new amplifier adds two stages of tuned R. F. A.H.P.s of the 1st detector which picks up and amplifies signals that previously were too faint to be picked up by the 1st detector alone.

In addition to increasing range, this unit will increase the general selectivity considerably and reduce the number of harmonics or repeat points on strong local stations. Full-sized blue prints and wiring diagram are packed with each kit and show exactly how to add to your present super.

This unit may also be used with a detector and audio unit to make a very efficient tuned radio frequency receiver. It is very well adapted for this purpose and will enable the listener to have a unit which can be used with any set to increase the range and selectivity.

### LIST OF PARTS

3K4158	—1 Remier two rang cond. 00035 mf	\$12.00	\$7.20
3K1400	—1 Kurz-Kasch Varrier Dial.	2.00	1.20
3K4253	—2 Selectone R. F. Transformers, B 520 @ \$5.00	10.00	6.50
3K4254	—1 Selectone Transformer B530	5.00	3.25
3K4580	—1 Carter Rheo IR-15 ohms	1.00	.40
3K4108	—2 Benjamin Sockets (minut.)	1.00	.60
3K4803	—1 pair S-M brackets No. 450	.70	.42
3K695	—2 XL binding posts, 3K655—Ant. 3K666—Gnd.	.30	.20

**\$24.95  
Net**



### LIST OF PARTS—Continued

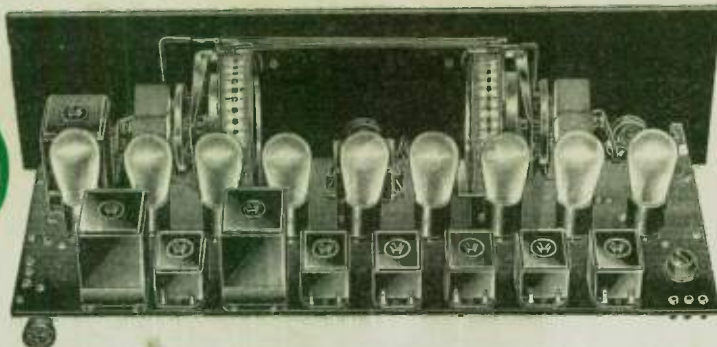
3K5790	—1 Bakelite Panel 7x12x3/4 in.	\$3.00	\$1.95
3K5791	—1 Bakelite Subpanel 7x10 1/2	2.60	1.54
3K1529	—1 Jones Multiplier Type BM	2.50	1.50
3K698	—1 Miscellaneous Lugs, screws, etc.	.65	.39

Shipping weight, 10 lbs.

3K353	—Complete set of parts, List price, \$40.75—Net.....	\$24.95
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Easiest  
to  
Build



Not  
Surpassed  
for DX



# The New Improved 9-in-Line

## Makes Greater DX Records

**This Marvelous Super as Specified by Citizens'  
Radio Call Book Performs Better Than Ever!**

There are thousands of experienced set users in this country who insist upon a radio receiver that reaches everything in the air, breaks through the most tangled interference and produces house-filling volume at all times. To them, the Nine-in-Line is recommended. Its record of popularity here in Chicago—perhaps the most difficult reception spot in America—is eloquent proof of its efficiency.

As an example, while 13 local (mostly super power) stations were broadcasting, it was a simple matter to tune in on a score of long distance stations on a midsummer night. In broad daylight, stations 500 miles distant were received with full loud speaker volume. Seldom if ever has such extreme selectivity and superior reproduction been accomplished.

This ideally balanced circuit employs four stages of R. F. long wave amplification bringing power for reaching great distances under any and all conditions. Tendency of highly amplified intermediate frequency signals to feed back into the audio system has been entirely overcome by the use of a special audio frequency transformer system. The giant H. F. L. Audio transformers perfectly amplify the useful range of audio frequencies but suppress the higher unwanted frequencies effectively.

### Easiest Super to Build

One look at the illustration above shows you how very simple is the construction of the Nine-in-Line. It can be built much more quickly than the average four or five tube job. A notable feature of the H. F. L. layout is that there are no plate and grid leads, the lugs on the transformers fastening directly to the tube sockets. All wiring is placed under the sub-panel, with minimum length leads. Not a complicated part or turn about it, even the inexperienced builder can assemble it.

### Neat, Compact Appearance

The arrangement of parts has been designed along perfectly symmetrical lines. No wiring is visible. The transformers parallel the tubes, which are in one straight line. When finished it presents a most attractive appearance, equal in layout and construction to the highest grade factory built sets.

### Most Economical Operation

Due to its all around efficiency, the Nine-in-Line takes a minimum toll on both "A" and "B" batteries. The filament control is extremely sensitive, the tubes functioning perfectly on low voltages.

### Unsurpassed Tonal Qualities

This improved 1928 model Nine-in-Line carries the new giant audio transformers as shown in the larger illustration. On the opposite page you will find a curve chart showing the action of these marvelous tone reproducers.

### Gets Europe

"I tuned in 2LO England 3 times during international post week, Berlin, Germany, one evening and I got Cuba, Mexico, and Canada every evening."—R. M., Los Angeles, Calif.

"I built a Nine-in-Line super and it is the finest super I ever built and I have built a good many. Can tune in all long distance stations with loud speaker volume. I have built 3 and they all work alike. This is more than I can say of any other super I have ever built."—T. E. M., Michigan City, Ind.

"I have no trouble bringing in KFI nightly on the loud speaker as well as 10 or 20 DX stations through Chicago locals. The tone and volume cannot be beat."—R. G. H., Chicago, Illinois.

"I am located on the south side of Chicago and with my Nine-in-Line I have no trouble in getting the west coast stations consistently while twenty or more powerful local stations are on the air. I get Mexico City as loud as a nearby broadcaster."—W. J. H., Chicago.

"The Nine-in-Line is the best set I have ever built and I have been building supers of all kinds since 1921."—T. H., Little Shute, Wis.

(All names on file—furnished on request)

### Specialize on This Fine Set!

Set builders could make no better selection of a super for their trade. It is quickly built. It presents a fine appearance. Its performance satisfies. Housed in one of the fine consoles shown on pages 107-115, it makes a receiver fit for the finest home.

### List of Parts

3K4338—3	HFL Transformers No. H210 @ \$8.00.	List, \$24.00.	Net, \$14.40
3K4339—2	HFL Transformers No. H215 @ \$8.00.	List, \$16.00.	Net, \$9.60
3K4366—2	HFL Transformers No. C 16.	List, \$8.00.	Net, \$4.80
3K4341—1	HFL R. F. Choke No. L425.	List, \$5.50.	Net, \$3.30
3K4342—1	HFL R. F. Transformer No. L 430.	List, \$5.50.	Net, \$3.30
3K4367—1	HFL Output Transformer.	List, \$8.00.	Net, \$4.80
3K4108—9	Benjamin Sockets No. 9044 @ 50c.	List, \$4.50.	Net, \$2.70
3K5719—2	Benjamin Brackets No. 8029.	List, 70c.	Net, 45c
3K4167—1	Remier Drum Dial, one right.	List, \$4.50.	Net, \$2.70
3K4166—1	Remier Drum Dial, 1101.	List, \$4.50.	Net, \$2.70
3K4154—2	Remier .0005 MF. Variable Condensers No. 619.	List, \$5.00.	Net, \$3.00
3K4828—1	Silver-Mars hall No. 340 .00025 Midget Condenser.	List, \$1.50.	Net, 90c
3K758—1	Carter 1 MF. By-Pass Condensers @ \$1.25.	List, \$3.75.	Net, \$2.25
3K453—1	Tube .0005 MF. Fixed Condenser.	List, 35c.	Net, 21c
3K455—2	Tube .002 MF. Fixed Condensers @ 40c.	List, 80c.	Net, 48c
3K4516—1	Carter 6 ohm Rheostat.	List, \$1.00.	Net, 60c
3K4572—1	Carter 6 ohm Rheostat with switch.	List, \$1.00.	Net, 48c
3K2426—5	Carter Grid Tip Jacks.	List, 80c.	Net, 40c
3K4555—1	Carter 200,000 ohm variable resistance.	List, \$2.25.	Net, \$1.35
3K2938—1	Daven 1/2 amp. ballast resistor with mounting.	List, \$1.00.	Net, 60c
3K1529—1	Jones Multi-plug B. M. List, \$1.50.	Net, \$2.70	
3K5692—1	Formica 7x2 1/2 drilled and enameled front panel.	List, \$8.50.	Net, \$3.62
3K5693—1	Celeron 7 x 2 1/2 x 1 1/2 Drilled sub-panel.	List, \$5.00.	Net, \$3.25
3K2106—1	Package Acme Celatite Wire.	List, 80c.	Net, 48c
3K4013—1	Pkg. Koder solder.	List, 25c.	Net, 18c
3K1656—1	Set Blueprints.	List, \$1.50.	Net, 98c
3K698—1	Miscellaneous Lugs, Screws, Nuts, etc.	List, 65c.	Net, 39c
3K365—1	Complete Set of Parts.	List Price, \$117.85.	Net, \$67.50

Shipping weight, 25 lbs.





# New 1928

**Hammarlund Roberts Hi-Q  
6 Tube Shielded**

**Hammarlund  
ROBERTS  
Hi-Q**

**6 Tube Shielded**

**\$59.60 NET**

The new Hammarlund-Roberts Hi-Q six represents the ultimate in six tube receivers. It incorporates many new refinements which have not been introduced heretofore. The receiver consists of three stages of radio frequency amplification, detector and two audio frequency stages.

## Hair-Sharp Selectivity

Three stages of radio frequency amplification are used giving a very highly amplified signal to the detector tube. The low loss design of the Auto-Couple coils used increases the efficiency of the set to a remarkable degree. The separate stages are individually shielded with Hammarlund Aluminum Shields, preventing pick up by the coils and wiring, and consequent eliminating interstage coupling with its attendant oscillations. Thus the greatest cause of broadness in tuning is at once eliminated. However selectivity is not so great as to cause distortion. The circuit is designed so that the useful odd harmonics are amplified so that the musical note will be pure and undistorted. Many distant stations have been tuned in from the heart of New York's congested broadcast area, without interference from the local station.

The famous Hammarlund Auto-Couple coils are used so that constant coupling is maintained at all times in the r.f. amplifiers. Thus, being neutralized efficiently at one point, the set is just as efficient at all other points. The volume is therefore proportional to the strength of the station—not to its wavelength.

## Perfect Reproduction

To insure the most perfect reproduction attainable, Sanson Synphonic transformers are used in the audio stages. Provision is also made for a power tube so that great volume can be obtained without distortion. This coupled with the well designed radio frequency amplifier produces very natural and life like tones in the loud speaker. The circuit is really an application of the familiar Neutrodyne circuit which is noted for its tonal qualities, easy tuning, and wide range.

## Easy to Tune

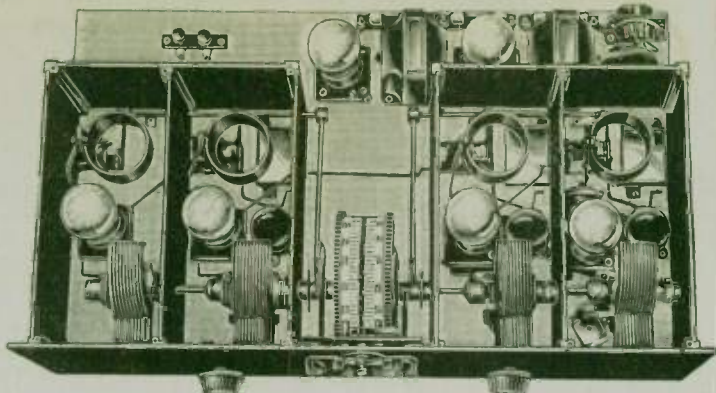
Easy tuning is accomplished by employing the new Hammarlund Drum Dial and coupling the condensers together. A station is tuned in with the dial and there are no other adjustments to make except for volume. The volume may be controlled at will from a whisper to a roar by adjusting the volume control.

## Easy to Build

The construction of the set is very simple. Anyone can build it with no difficulty. A Van Dorn bent and drilled metal chassis complete with all hardware is supplied. Everything is worked out at the factory and it is only necessary for the builder to assemble and wire the set.



No Cabinet included. See page 117. Cabinet No. 10K7910. Panel size is 7 x 21 inches; depth of chassis 12 in.



The only tools needed are a screw driver, pliers and a soldering iron. No difficulty will be experienced by the amateur set builder in duplicating the results obtained in the laboratories.

The set is very neat looking with its well balanced Micarta Panel and the Hammarlund Drum Dial. The inside of the set is particularly neat since all wiring is beneath the top of the metal chassis. The layout is very symmetrical. This set is one which you will be proud to exhibit for your friends' approval, both in appearance and in operating qualities.

Complete and simple constructional information and diagrams are supplied with the kit.

## LIST OF PARTS

Cat. No.	Quant.	Description	List	Net
3K4323	2	Sanson Synphonic Trans. @ \$9.00	\$18.00	\$11.70
3K4321	4	Hammarlund .0005 Midline Condensers @ \$5.50	22.00	13.20
3K4304	4	Hammarlund Hi-Q Six Auto Couple coils (HQ4)	12.00	7.20
3K4305	4	Hammarlund RFC-85, R.F. choke coils @ \$2.00	8.00	4.80
3K1444	1	Hammarlund Drum, Drum Dial	6.00	3.60
3K563	1	Sansone .001 mf. Pk. cond.	.40	.32
3K561	1	Sansone .0025 mf. Pk. cond. with clips	.50	.33
3K5416	1	Carter IR-5 Imp. Res., 6 ohm.	1.00	.60
3K2586	1	Carter Imp. Res., with knob	.75	.46
3K3038	1	Durham metallized Res., 2 meg.	.50	.30
3K448	2	Sansone 1/2 mf. cond. @ \$1.25	3.75	2.44
3K3207	2	Ampette No. 1-A @ \$1.10	2.20	1.32
3K3210	1	Ampette No. 12	1.10	.66
3K4623	6	Elco Universal Switches @ \$40.	2.40	1.56
3K687	3	Elco universal mounting posts @ 15c	.45	.30
3K1532	1	Yalee No. 600 cable connector	3.00	1.80
3K43306	1	Hammarlund-Roberts Hi-Q Six Foundation Unit consisting of dr. and out. panel, Van Dorn steel chassis, shields, shafts, wire, screws, nuts, etc.	15.50	10.08

3K4342—Complete set of parts. List price, \$97.65. **\$59.60**  
Net ..... Shipping weight, 20 lbs.

## Separate Parts for Hi-Q Six

Any of the above parts may be obtained under the catalog number shown and at the net price quoted.

## THE H. F. L. TRANSFORMERS

### The New H. F. L. Audio Transformer

The H. F. L. C-16 is one of the most efficient Audio Transformers built. Constructed to match perfectly the two circuits between which it is placed. Carries signals at highest volume without blasting or developing harmonics. Amplifies all frequencies equally. Specially treated silicon steel alloy core, with proper tapping and tight density. Core saturation is impossible.

The correct size of wire and current primary turns have been determined so that the impedance will be correct for the distinct amplification of low frequencies. Will operate with all power and standard type tubes will work in any circuit and will improve any set. Shipping wt., 4 lbs.

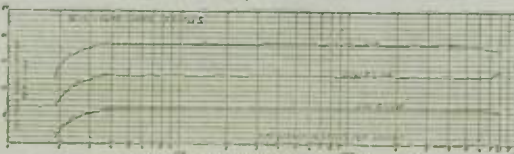
3K4366—List Price, \$8.00, Net ..... \$4.80

C-25 Output Transformer—more recent design as a dual tone former. Protects loud speaker, prevents distortion and blasting.  
3K4367—List Price, \$8.00, Net ..... \$4.80

### H. F. L. Push-Pull Transformers

Push-Pull Transformer 6-167, C-168—The ultimate in quality. Cancels even harmonics, matched primary and secondary. See curves at right.

3K4368—C-167 (Input) List, \$9.00, Net ..... \$5.40  
3K4369—C-168 (Output) List, \$9.00, Net ..... \$5.40



Coil	Primary	Secondary	Imp.	Wt.
C-16	100	100	100	100
C-167	100	100	100	100
C-168	100	100	100	100

### H. F. L. Units

Designed for base board or inchless panel mounting. Enclosed and sealed in uniform size genuine bakelite mounting, absolutely guaranteed against mechanical or electrical defect.

H-29—Iron core transformer with high amplification factor. Range 32 to 42 kilocycles.

3K4338—List price, \$6.00, Net, \$4.80  
H-215 Air core Transformer, tuned for maximum efficiency at 37 kilocycles.

3K4339—List Price, \$8.00, Net ..... \$4.80  
L-125 Radio Frequency choke Unit.

3K4341—List price, \$5.50, Net ..... \$3.30



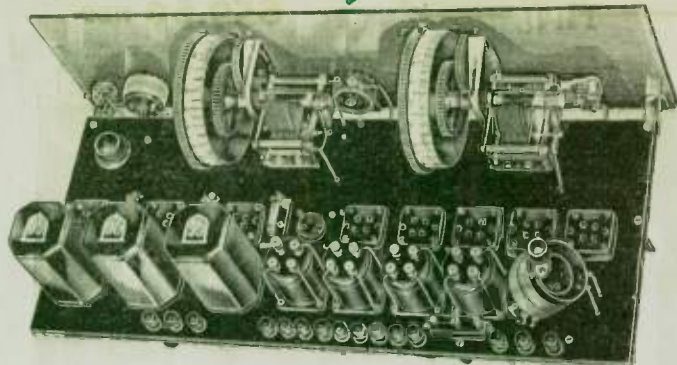
L-430 Low Loss Radio Frequency Transformer and Oscillator Coupler.

3K4342—List price, \$5.50, Net ..... \$3.30

### H. F. L. Curve

The curves were taken under actual operation conditions. They show the remarkable efficiency of the H. F. L. transformers over the entire musical scale. The cutoff at 4000 cycles is important. Below 4000 cycles the drop eliminates motor beating. Above 4000 cycles audio frequency regeneration is prohibited by a drop in amplification. Yet the useful frequencies are all amplified evenly.



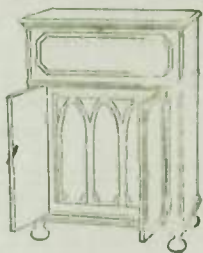


The all Best circuit, which was so efficient and so popular, is the basis for this model. Two tuned and two untuned intermediate stages are used, so that the selectivity is very great. The transformers are so designed that they pass the harmonics over a 10 kilocycle band but yet have a very sharp cutoff to avoid interference. The audio amplifier consists of one stage a. f. and one stage of push pull s. f. The famous Tyman Transformers are used so that the reproduction is as nearly perfect as can be obtained. All wiring is beneath the panel so that the interior is very attractive. The panel is very beautiful with its symmetric layout and the new Tyman Drum Dials. These dials make tuning very easy and simple. They can be tuned very closely as they have a built in Vernier attachment. The builder will find that this set will give even better results than the excellent set which preceded it, both in tone quality and in distance. Its selectivity is proverbial and no difficulty will be had in using it in the most congested broadcast areas. The set is very easy to build when following the complete instructions furnished. The wiring is simple.

List of Parts	List	Net
3K4154 2 Remler .0005 m. f. Var. Cond. @ \$5.00.....	\$10.00	\$6.00
3K4129 2 Remler Transformers No. 610 @ \$5.00.....	10.00	6.00
3K4128 2 Remler Transformers No. 600 @ \$6.00.....	12.00	7.20
3K518 1 Dubilier .0005 m. f. Pix. Cond. @ \$5.00.....	.75	.45
3K510 2 Dubilier .00025 m. f. Pix. Cond. @ \$5.00.....	.70	.42
3K514 2 Dubilier .00025 m. f. Pix. Cond. @ \$5.00.....	.80	.48
3K505 1 Dubilier 1 m. f. By-Pass Cond. ....	.90	.54
3K504 1 Dubilier .5 m. f. By-Pass Cond. ....	.75	.45
3K2914 1 Daven 2 meg. Grid Leak ....	.50	.30
3K2903 1 Daven Grid Leak Mfg. ....	.35	.21
3K4828 1 Silver-Matthiessen .00025 Midnet Var. Cond. ....	1.50	.90
3K3742 1 Canfield One Coupler.....	3.50	2.10
3K4403 1 Front 10 ohm Rheo.....	.75	.45
3K4405 1 Front 50 ohm Rheo.....	.75	.45
3K4404 1 Front 25 ohm Rheo.....	.75	.45
3K2414 1 Carter Jack .....	.60	.36
3K2416 1 Carter Jack .....	.80	.48
3K4742 8 Front Sub-Panel Sockets @ \$40c.....	3.20	1.92

List of Parts (Continued)	List	Net
3K4619 1 Benjamin X Socket.....	\$0.75	\$0.45
3K3213 1 Amperite No. 4A.....	1.10	.66
3K3207 1 Amperite No. 1A.....	1.10	.66
3K686 14 Eby Eng. Blind. Posts @ 15c .....	2.10	1.40
3K3103 1 X-L Variometer G-5.....	1.50	.98
3K4179 2 Tyman Drum Dials.....	10.00	6.00
3K4186 1 Tyman A. F. Trans. ....	8.00	4.80
3K4186 1 Tyman Push-Pull Trans. ....	10.00	6.00
3K4187 1 Tyman Output Transformer .....	10.00	6.00
3K1833 1 Set Karas Brackets.....	.70	.42
3K5671 1 Micarta 7 x 26 x 3/4 in. Dr. and Engr. Panel.....	6.00	3.90
3K5672 1 Micarta 10 x 25 x 3/4 in. Dr. Sub-Panel.....	6.40	4.16
3K4013 1 Plar. Kester Solder.....	.25	.18
3K698 1 Miscellaneous L. U. B. Screws, Nuts, etc. ....	1.65	.39
3K2106 1 Ph. Acme Celanite Wire .....	1.80	.48
3K1661 Blueprints .....	1.50	.90

3K366—Complete set of parts. List Price, \$110.45. Net.....\$66.54  
Shipping weight, 25 lbs.



**The Wyndemere Console**

The kind of furniture you see in the most elegantly furnished homes. Plain and dignified in its lines, it makes a strong appeal to everyone who sees it. The Remler Super fits into it perfectly, making a splendid installation. See page 110.

**Remler is a name long known in Radio as signifying apparatus of the finest quality!**

### Remler Condensers



Dial rotates through full 360 degrees, giving greater separation of stations. Special adjustment permits variation of capacity at zero dial setting, allowing compensation for differences in coil construction, matching tuned circuits very accurately. Both sets of plates rotate. Driven by Bakelite gears; no body capacity. Shipping weight, 2 to 5 lbs.

No.	Description	List	Net
3K4153	Single SLF., .00025 MF..	\$ 5.00	\$3.00
3K4154	Single SLF., .0005 MF..	5.00	3.00
3K4155	Single SLF., .0001 MF..	5.00	3.00
3K4156	Single SLW., .00035 MF..	5.00	3.00
3K4157	Single SLW., .0005 MF..	5.00	3.00
3K4158	Double SLF., .00035 MF..	12.00	7.20
3K4159	Double SLW., .00035 MF..	12.00	7.20
3K4163	3-Gang SLF., .00035 MF..	15.00	9.00
3K4164	3-Gang SLW., .00035 MF..	15.00	9.00

### Remler-Type 600 Intermediate Frequency Transformer

For 45000 cycle inter tube coupling where high core transformer. Insures high voltage step up ratio and uniform primary impedance over efficient frequency range. Bakelite case, highly polished. Terminals marked plainly. Shipping weight, 10 oz.

3K4128—List, \$6.00, Net.....\$3.60

### Remler Choke Coil

No. 35 Choke Coil used for controlling path of radio frequency current to prevent generation of parasitic high frequencies. Used to advantage in any radio receiver. Case of moulded Bakelite. Size 1 inch diameter, 1 inch deep. Shipping weight, 6 oz.

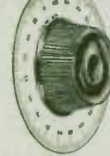
3K4165—No. 35 Choke Coil. List, 90c. Net, each.....54c

### Remler Drum Dial



3K4166—Condenser Mounts on Left Side.  
3K4167—Condenser Mounts on Right Side.  
List, each, \$4.50. Net, each.....\$2.70

### Remler Standard Dial



The well-known dial made of aluminum. Bakelite knob. Fits any 1/4 inch shaft. For 360 degree condenser. Cardboard dials for logging. Shipping weight, 4 oz.

3K4168—No. 636 Remler Dial. List, \$1.00. Net.....60c

### Remler-Type 610 Tuned Stage Transformer

An air core transformer for the tuned stage. Used between last intermediate frequency tube and detector tube. Fixed tuning condenser. Primary secondary terminals in tune to 45,000 cycles. Bakelite case with plainly marked terminals. Shipping weight, 10 oz.

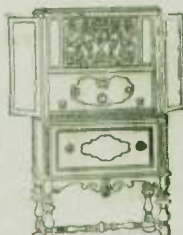
3K4129—List, \$5.00, Net, \$3.00

### Remler Improved Socket



Universal X type socket of moulded Bakelite. Very efficient contact spring, giving contact whole length of tube pin. Contacts self-cleaning. Screws and solder lugs on spring for good contact. Shipping weight, 2 oz.

3K4624—List, 50c. Net, each.....30c  
Postage 3c extra.



**The Sovereign Console**

A Superior console, both in name and quality. This style of cabinet has long been favored, because of the position of the loud speaker. This makes an ideal setting for the Remler Super Receiver. See page 107.

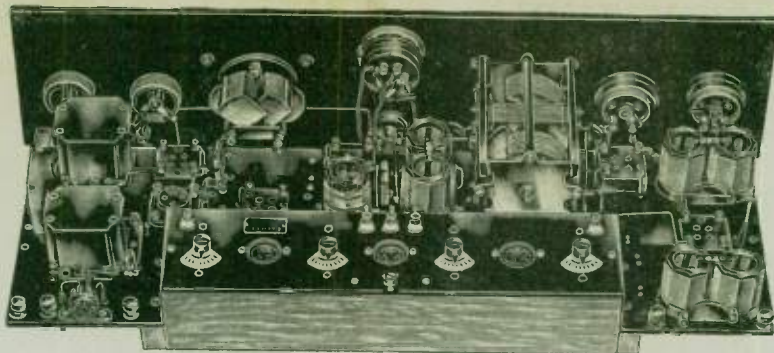


# The Remler Improved Infradyne Receiver

**10 Tubes—Great Selectivity, Volume and Distance**

Ten tubes with Simplified Control—Two Stages R. F. Amplification, Oscillator, First Detector, 3 Stages of 95 Meter Amplification, Second Detector, and Two Stages of Audio Amplification. Only two tuning controls, R. F. being tuned by a triple gang condenser; the oscillator by a double condenser. Simplified Control made possible through use of Remler Infradyne Amplifier, a very efficient device, amplifying at high frequencies, yet preserving the original tone quality. So designed that each station comes in at only one spot on the dial. Consistent distant reception and remarkably clear reproduction are the outstanding features of the set.

All parts supplied were carefully selected for this kit and the builder should have no trouble in following the instructions and making a duplicate of the laboratory model.



**As Specified in Citizens Radio Call Book**

## List of Parts

No.	Quan.	List of Parts	List	Net
3K5222	1	7 x 28 in. Dr. and Eng. Formica Panel.....	\$ 7.00	\$ 4.53
3K5762	1	8 1/2 x 27 x 1/4 in. Dr. Formica Sub-Panel.....		
3K5754	1	Remler Type 700 Amplifier.....	8.00	5.20
3K4153	1	Rotator 645 .00035 MF Var. Cond.....	27.50	16.50
3K3477	1	Cardwell .00035 3-Gang Variable Cond.....	5.00	3.00
3K 122	2	Silver-Marshall 25 minid. Midset Cond. \$1.50.....	12.00	7.80
3K1982	1	Weston Model 500, 0-7-140 Volt-meter.....	3.00	1.80
3K1833	1	Pair Karna Sub-Panel Brackets.....	9.00	5.85
3K4423	2	Yarley 30 ohm Rheo.....	.70	.42
3K3236	1	Fluorad 500,000 ohm Variable Resistance.....	2.70	1.62
3K3297	1	Fluorad 300,000 ohm Variable Resistance.....	2.00	1.20
3K2422	1	Front Outside Circuit Gen. Jar.....	2.00	1.20
3K2421	1	Front Inside Circuit Gen. Jar.....	.45	.30
3K2515	1	Carrier Fil. Switch.....	.65	.39
3K4700	6	Front Type 50 UX Sockets \$ .40e.....	2.40	1.44
3K1529	1	Jones Multiplex with Cable.....	4.50	2.70
3K1220	1	Amertron De Luxe 1st Stage Trans.....	13.00	7.00
3K1221	1	Amertron De Luxe 2nd Stage Trans.....	10.00	7.00
3K3210	1	Type 112 Amperite.....	1.10	.66

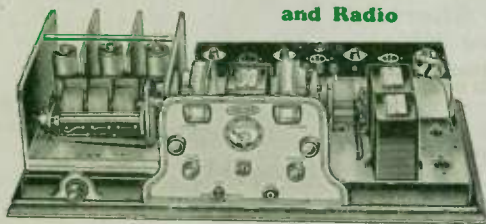
## List of Parts

No.	Quan.	List of Parts	List	Net
3K3205	1	Lynch Grid Lk. Mount.....	\$0.35	\$0.24
3K3146	1	Lynch 1 mezoohm Grid Leak.....	.50	.30
3K3145	1	Lynch 2 mezoohm Grid Leak.....	.50	.30
3K 559	1	Sangamo .0001 MF Fixed Condenser.....	.40	.26
3K 562	2	Sangamo .0005 MF Fixed Cond. \$ .40e.....	.80	.52
3K 561	1	Sangamo .00025 MF Fixed Cond. G. S.....	.50	.33
3K 432	2	Tobe 1 MFd By-Pass Cond. \$1.25.....	2.50	1.63
3K3740	1	Set Camfield Type 22K Duoferrite.....	10.00	6.00
3K5756	1	Special Oscillator Coupler—Camfield.....	1.25	.75
3K1400	2	Kurz-Kasch Aristocrat Vernier Dials \$ .82 00.....	4.00	2.40
3K 868	5	Eby Improved Binding Posts \$1.50.....	.75	.50
3K 602	3	Doz. No. 6x1 in. Machine Screws.....	.50	.30
3K 603	3	Doz. No. 6x1 1/2 in. Machine Screws.....	.40	.24
3K 605	1	Doz. No. 6x1 in. Flat Screws.....	.15	.08
3K3746	1	Doz. No. 6x1 1/2 in. Flat Head Screws.....	.07	.04
3K 743	1	Doz. 6-32 Hex. Nuts.....	.07	.04
3K 621	100	Doz. 6-32 Hex. Nuts.....	.07	.04
3K2101	50	Tinned Solo. Lugs.....	.40	.25
		Feet No. 14 Gauge Tinned Copper Wire.....	.65	.40
3K4013	1	Pkg. Kester Solder.....	.25	.18
3K5758	1	Set Blue Prints and Instructions.....	1.00	.69

3K354 Complete Set of Parts..... \$133.61 **\$84.43**

# The New REMLER 1928 INFRADYNE

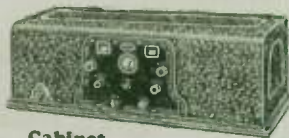
**As Specified in Citizens Radio Call Book and Radio**



Times have changed. Home built radio is now ahead of the factory built set. In this set, all metal construction—illuminated drum control, complete shielding, automatic coupling—concealed wiring—hair splitting selectivity and the finest tone quality obtainable, make it the best set on the American market.

A few well-chosen tools are the only tools needed to assemble this set in an evening's time. You may have 5 or 10 tubes at will by throwing a switch which is mounted on the panel.

The cabinet problem is solved by a beautifully embossed copper cabinet finished in baked crystalline of a neutral shade. Length over all only 26 inches. You will agree with us that it is the finest kit you have ever seen.



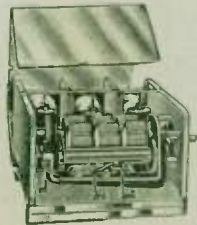
**Cabinet**

## List of Parts

No.	Quan.	List of Parts	List	Net
3K5778	1	Remler Infradyne Foundation Kit includes panels, rheostats, dials, diagrams, jacks, switches, steel tubing, chokes, special coil, resistances, cables, nuts, screws, etc.....	\$52.00	\$31.20
3K5774	1	Remler R. F. Amplifier, shielded with Antenna Compensator.....	55.00	33.30
3K5779	1	Remler Infradyne Cabinet and Base.....	15.00	9.00
3K1900	1	Jewell 0-5 volt meter No. 133.....	7.00	4.55
3K5795	1	Remler Infradyne Amplifier.....	27.50	16.50
3K4826	2	Silver-Marshall 220 Audio.....	16.00	9.60
3K4827	1	Silver-Marshall 221 Output Trans.....	7.50	4.50

3K355—Complete..... \$190.00 **\$108.65**  
Shipping wt. 30 lbs.

## REMLER Radio Frequency Amplifier



No. 710 R. F. Amplifier incorporates two stages of R. F. amplification and a detector. Entirely enclosed in a sheet copper case which is completely electromagnetic shielded. Designed for use with Remler Drum Dial or ordinary 360 degree dial. An antenna compensator is supplied, which nullifies the detuning effect of the antenna on the first amplifier. Thus it is a true, single control amplifier. A switch is provided for selective or non-selective tuning. It is used in the new model Infradyne or it may be used with any audio unit to make an efficient tuned radio frequency receiver. It includes solenoid coils, Remler 3-gang condenser, Remler sockets and special resistances. Put it on any set to increase the range and selectivity. Ship wt. 15 lbs.

3K5774—Complete with Antenna Compensator. List, \$55.00. **\$33.00**

**REMLER  
Infradyne  
Amplifier**



The famous 80 meter Intermediate Amplifier, besides meeting the requirements of the standard circuit, makes a very efficient 3-stage radio frequency amplifier in conjunction with all standard tuned radio frequency or neodyne sets. Makes a marked improvement in selectivity and sensitivity of any set. Instrument control of bakelite and nickel-plated brass in polished Bakelite panel. Shielded in a bequeered copper case. Shipping wt. 5 lbs.

3K5795—List, \$27.50. Net, each..... **\$16.50**

No Set is Right Without the Right Loud Speaker—Pages 29-36



# SUPER SENSITIVE

Aero Universal Coils are extremely small in size and exceptionally practical for all set and circuit building purposes. Note especially the vertical mounting base feature on all the new coils. They are made for use with either .00035 or .0005 condensers.

# AERO COIL SUPER-SENSITIVE

# INDUCTANCES

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

## Aero Tuned Radio Frequency Kit



Kit consists of 4 twice matched coils: one Aero antenna inductance with variable primary and 3 Universal R. F. transformers. For use with C. tubes. Range 200-550 meters. Used in Improved Aero-Dyne 6. Shipping weight, 1 lb. 6 oz.  
**3K1040**—U-16 for .0005 Conductor.  
**3K1041**—U-163 for .00035 Condensers.  
 List, Set, \$15.00, Net.....\$9.00

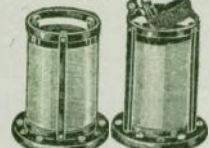
## Radio Frequency Kit for Aero-Seven

Kit consists of 3 twice matched Coils—Three Universal R. F. transformers. Wound on bakelite skeleton forms, 95% air dielectric. Used with 201A, 199, 112, 240 and A. C. tubes. Range 200-550 meters. Used in Aero-Seven circuit. Shipping weight, 1 lb. 2 oz.

**3K1042**—No. U-12 for .0005 Cond.  
**3K1043**—No. U-123 for .00035 Cond.  
 List, each kit, \$12.00, Net.....\$7.20

## Aero R. F. Regenerative Kit

### For Aero 4



An Indispensable kit. Consists of one Aero Universal R. F. Transformer and one Aero Universal 3 Circuit Tuner of fixed tickler type. Any set of this type can be made more efficient with these coils. Range 200-550 meters. Uses only 201A, 112, 199 and A. C. tubes. Used in Chicago Daily News Receiver. Shipping weight, 1 lb.

**3K1044**—U-95 for .0005 mf. Condensers.  
**3K1045**—U-953 for .00035 mf. Condensers.  
 List, set, \$8.00, Net.....\$4.80

## 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 A. C. tubes. Range 200-550 meters. Shipping weight, 8 oz.  
**3K1046**—No. U-55 for .0005 Conductor.  
**3K1047**—No. U-553 for .00035 Conductor.  
 List, each, \$4.00, Net.....\$2.40

## 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 A. C. tubes. Range 200-550 meters. Shipping weight, 8 oz.

**3K1048**—No. U-96 for .0005 Conductor.  
**3K1049**—No. U-963 for .00035 Conductor.  
 List, each, \$4.00, Net.....\$2.40

## 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. Shipping weight, 8 oz.

**3K1050**—No. U-4 for .0005 Conductor.  
**3K1051**—No. U-43 for .00035 Conductor.  
 List, \$4.00, Net.....\$2.40

## Aero Short Wave Kit

### As Specified in Radio Call Book

This is same kit used by the University laboratories, the MacMillan Expedition, etc. Coils are completely interchangeable so that all amateur bands up to 125 meters are covered. Higher wave lengths up to 550 meters may be reached by using other interchangeable coils. On short waves this kit is excellent for world-wide reception. Used in many amateur stations. Can be easily built by the most inexperienced amateur. Employs 3 UX201-A tubes.

	List of Parts	List	Net
<b>3K1052</b>	1 Aero Foundation Unit	\$ 5.75	\$3.74
<b>3K3522</b>	1 Aero Short Wave Tuner Kit LWT 125	12.50	7.50
<b>3K751</b>	1 Aero RF Choke Coil	1.50	.90
<b>3K1062</b>	1 Aero RF Choke Coil	1.50	.90
<b>3K4147</b>	2 National Type B Dials	5.00	3.25
<b>3K3468</b>	1 Ameco .00014 Cond.	2.75	1.65
<b>3K3529</b>	1 Ameco .00025 Cond.	3.00	1.80
<b>3K3508</b>	1 Yaxley Battery Switch	.50	.30
<b>3K4439</b>	1 Yaxley 25 ohm Rheo.	1.35	.81
<b>3K4619</b>	1 Benjamin 9040 Socket	.75	.45
<b>3K4817</b>	2 Silver-Marshall No. 511	1.00	.60
<b>3K1053</b>	9 XL Binding Posts	1.35	.90
<b>3K751</b>	1 Carter .0001 Condenser with Clips	.50	.30
<b>3K3224</b>	1 Yaxley 2 ohm Res.	.15	.10
<b>3K766</b>	1 Toke Thion 5 Meg. Grid Leak	.50	.30
<b>3K1211</b>	2 Thordarson G-1 Trans.	9.00	5.40
<b>3K2101</b>	Bus Bar	.25	.15
<b>3K698</b>	Lugs, Nuts and Screws	.50	.30
<b>3K1059</b>	Complete set of parts		\$28.45
	List Price, \$45.85, Net.....		
	Shipping weight, 15 lbs.		

## AERO SPECIAL SHORT WAVE KIT

### Approved by the Radio News Laboratory

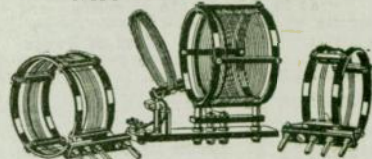
Same as Aero Short wave kit except that it uses 3-Thordarson R-200 transformers, two in the audio amplifier and one as a grid leak. Gives wonderful reproduction on short wave broadcast work. Not recommended for code work. May be used up to 550 meters by using the aero coils INT-4 and INT-5 shown on this page. Shipping weight, 18 pounds.  
**3K774**—List Price, \$60.35.  
 Net.....\$36.89

Optional for Greater Range with Short wave kit  
**3K3524**—INT-4 Coil, 125-550 Meters.  
**3K3526**—INT-5 Coil, 235-550 Meters.  
 List Price, each, \$4.00.  
 Net, each.....\$2.40

## Aero Interchangeable Coil System

The AERO short wave interchangeable coil system unquestionably is the most efficient on the market. Plug-in type coils, with extra coils obtainable, permit the operation of a set built with them for the length of the entire wave band from zero to 550 meters. Base mountings are provided to accept all size coils in this system.

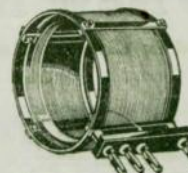
### Aero Short Wave Coils



This kit consists of three interchangeable coils, 15 to 130 meters, each unit comprising a grid and plate inductance. Base is provided with a mounted adjustable primary coil, whose coupling may be set to suit long or short antenna. Any low wave tuner can be greatly improved by using AERO short wave coils. Used by leading engineers and amateurs throughout the world. Uses .00014 tuning condenser, .00025 feedback condenser. Includes 3 coils and mounting base. Shipping weight, 1 1/2 lbs.  
**3K3522**—No. LWT-125. List, \$12.50.  
 Net.....\$7.50

Broken Kits.  
**3K1063**—No. INT-1, Range 15-33.5 meters.  
**3K1064**—No. INT-2, Range 31.5-68 meters.  
**3K1065**—No. INT-3, Range 57-133 meters.  
 List, each, \$4.00, Net.....\$2.40  
**3K1066**—No. LWT Mounting Base.  
 List, \$3.00, Net.....\$1.80

### Aero Interchangeable Coils



With these coils you can increase the range of your short wave set from zero to 550 meters. Shipping weight, 8 oz.  
**3K3524**—Coil No. 4, Range 125-250 meters.  
**3K3526**—Coil No. 5, Range 235-550 meters.  
 List, each, \$4.00, Net.....\$2.40

### Aero TRF Coils



Very low loss, wound on bakelite skeleton forms. 95% air dielectric 3 matched units, 1 antenna coil, 2 r. f. transformers. Range 200-550 meters. Uses .00035 condenser. Complete with mounting brackets and instructions. Use in any 5 tube set. Shipping weight, 1 1/2 lbs.  
**3K3516**—List Price, per set, \$12.00.  
 Net.....\$7.20

### Aero 3 Circuit Tuner



Built in the famous aero low loss fashion, it is the most efficient three-circuit tuner ever offered. Variable tickler, adjustable primary. Range 200-575 meters with .00035 condenser. Shipping weight, 1 lb.  
**3K3523**—List Price, \$5.50, Net.....\$3.30

### 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, 8 oz.  
**3K1062**—No. C-60.  
 List, each, \$1.50.  
 Net.....90c





# AERO-SEVEN RECEIVER 10-Kilocycle Selectivity

## True Single Control

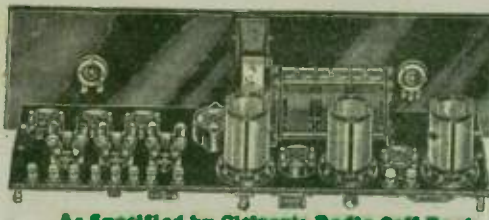
A new and unique hookup. Incorporates 3 stages of R. F. and a 3 stage of A. F.—2 stages tuned R. F. and one coupling stage. The new 240 tubes (High-Mu) are used in R. F., detector, and one audio stage. One 171 and one 201-A and one 240 in audio.

Given 10 kilocycle selectivity—a station for each point

		List of Parts		List	Net
3K1042	3	Aero R. F. Trans-	formers @ \$4.00....	\$12.00	\$7.20
3K1062	1	Aero R. F. Choke Coil	.....	1.50	.90
3K3453	1	A in a 0 .0005. Three	stage variable con-	denser S. P. L. ....	11.25
				3.00	1.80
3K1718	6	Ameco Sockets @ .30	.....		
3K1717	1	Ameco Floating	Sockets .....	1.00	.60
3K1738	1	Ameco 5 Megohm Grid	Gate .....	.50	.30
3K1740	1	Ameco Res. Mounting	.....	.30	.18
3K1756	1	Ameco R C-1 Resistor	.....		
3K4802	1	Coupler Kit .....	7.00	4.20	
3K4803	2	Silver-Marshall Drum	Dial .....	3.00	1.80
		Brackets .....	.70	.42	
3K654	1	Carter 4 ohm Rheo-	stat, Midget .....	.50	.30
3K615	1	Carter 200 ohm Poten-	tiometer, Midget .....	.75	.45
3K4512	1	Carter 8/10 ohm Fixed	Resistance .....	.25	.15
3K4541	1	Carter 1600 ohm Fixed	Resistance .....	.30	.18

## The Evan- shire Console

This beautiful console will make a splendid cabinet for either the Aero Seven or Six Receiver. Presents a very striking appearance with a novel grille. No speaker is furnished, giving purchaser choice of horn or cone type. For full size illustration and description, see page 114.



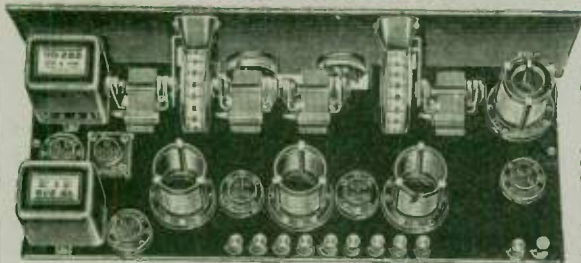
## As Specified by Citizen's Radio Call Book

of the dial without interference. Tremendous volume with type 240 tubes having amplification factor of 30. Low loss throughout. Perfect single control mechanism. Easy to build. Popular price. Needs 200-350 meters. Coils used are matched at both high and low wave-lengths. Extremely sharp selectivity. Panel size is 7x24 inches.

		List of Parts (Continued)		List	Net
3K2512	1	Carter Filament Switch	.....	\$0.65	\$0.39
3K757	2	Carter .5 MF. By-	Pass Condensers ....	.90	.54
3K754	1	Carter .001 MF. Fixed	Condenser .....	.50	.30
3K752	1	Carter .00025 MF.	Fixed Condenser ....	.40	.24
3K788	10	NL Lectoral Binding	Posts .....	1.50	.90
3K353	1	Aero Seven Founda-	tion Unit .....	12.00	7.75
3K2106	1	The. Amco Calatite	Wire .....	.80	.48
3K698		Miscellaneous Lugs,	Bolts, Nuts, Etc....	.25	.15

3K367—Complete set of parts. List Price, \$59.05, Net ..... **\$34.95**  
Shipping weight, 15 lbs.

## Panel View of Aero- Seven



## The Improved Aero-Six Receiver

The Aerodyne Six is a set with a national reputation for performance. Consists of a standard radio frequency amplification, detector and two stages of audio frequency. By the use of the new aero universal coils shielding is entirely unnecessary. Very selective because of the three low loss R. F. stages yet broad enough to pass the necessary harmonics to give perfect reproduction. Only apparatus of proven merit and of nationally known manufacturers are used in the set. Actual size blueprints are included in the foundation unit consisting of sub-panel and front-panel. Panel 7x24 inches. Set employs two dual tuning; uses five UX-201A tubes and one UX-171 tube.

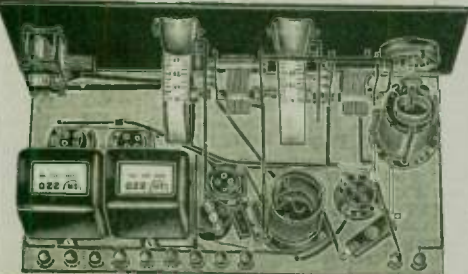
		List of Parts (Continued)		List	Net
3K4424	1	Yaxley Potentiometer, 200 ohm...	.....	1.75	\$ 1.08
3K322	1	Yaxley Fixed Resistance, 1 ohm...	.....	.15	.10
3K3123	1	Polymer E-Z Grid Leak MFG...	.....	.50	.30
3K788	11	NL Binding Posts .....	1.65	.99	
3K698	1	Screw Assortment .....	.65	.39	
3K2101	10	Lengths bus bar .....	.25	.16	

3K368—Complete set of parts. List price, \$84.75, Net ..... **\$52.66**  
Shipping weight, 20 lbs.

## Panel View of Aero-Six



		List of Parts		List	Net
3K3532	1	Aero-Dave Foundation Unit.....	\$12.50	\$ 8.13	
3K1040	1	Aero U-16 Kit of Coils .....	15.00	9.00	
3K4802	2	Silver-Marshall Drum Dials....	6.00	3.60	
3K137	2	Silver-Marshall type 220 Audios...	16.00	9.60	
3K3321	4	Hammarlund .0005 Condensers...	22.00	14.30	
3K139	1	Benjamin Socket, No. 9040.....	.75	.45	
3K4817	5	Silver Marshall No. 311 Sockets	2.50	1.50	
3K432	2	Tube 1 MFD. Condensers.....	1.80	1.08	
3K768	1	Carter .00025 MF. Carter Grid	Cond. with clips.....	.50	.30
3K764	1	Tube 2 Meg. Grid Leak Tipon	.....	.50	.30
3K754	1	Carter .001 MF. Condenser.....	.50	.30	
3K4420	1	Yaxley Switch Rheostat, 6 ohm...	1.75	1.08	



## The Aero-Four The Chicago Daily News Four Tube Receiver

A four tube receiver using the famous aero coils. Will cut through the Chicago stations and bring in DX on any night. This is exceptional performance. Very sensitive, plenty of volume. Approved by many prominent Radio Engineers.

The ticker employed gives a new kind of regeneration that is smooth and even over the entire dial. Selectivity a salient feature. Tone is rich. Out-performs many 5 and 6 tube sets.

Easy to build in a very short time. Answers the need for an excellent inexpensive kit for the home tinker. Instructions included.



		List of Parts		List	Net
3K3533	1	Aero Foundation Unit.....	\$ 5.75	\$3.78	
3K1044	1	U-95 Aero Kit (2 coils).....	8.00	4.80	
3K3513	2	.0005 MF. Ameco cond....	7.00	4.20	
3K3408	1	Ameco .00025 mfd. cond.....	3.00	1.80	
3K4802	2	S-M Drum Dials @ 3.00.....	6.00	1.80	
3K4420	1	Yaxley 6 ohm Rheo.....	1.35	.81	
3K1418	1	Kurtz Kanch Knoch.....	.20	.12	
3K4877	3	S-M 511 Sockets.....	1.50	.90	
3K4619	1	Benjamin S Socket.....	.75	.45	
3K4826	2	S-M Audio Trans. @ 8.00.....	16.00	9.60	

		List of Parts (Continued)		List	Net
3K768	1	Carter .00025 Condenser with	clips .....	\$0.50	\$0.30
3K764	1	Tube 2 meg. Tipon Grid Leak...	.....	.50	.30
3K3105	1	N-L Condenser, Model N.....	1.50	.90	
3K790	11	N-L Binding posts .....	1.65	.99	
3K1062	1	Aero 60 Choke coil.....	1.50	.90	
3K698	1	Miscellaneous screws .....	.65	.39	
3K2101	10	Lengths busbar .....	.25	.16	

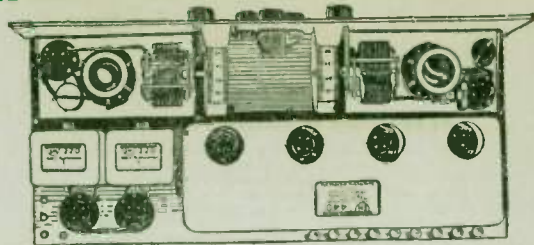
3K369—Complete set of parts. List price, \$56.10, Net ..... **\$33.70**  
Shipping wt., 20 lbs.

Other Aero Parts and Kits Shown on Page 81



# Improved Silver Laboratory Model Super

## A Most Powerful, Selective Receiver



List of Parts

	List	Net
3K741 — 1 Van Doorn Panel and Chassis Unit pierced with hdwe.....	\$8.50	\$5.10
3K767 — 1 Carter .00015 cond. with clips.....	.50	.30
3K615 — 1 Carter M200 Potentiometer....	.75	.45
3K431 — 2 Tobe 1/2 mf. cond. at 75c.....	1.50	.90
3K3539 — 1 Carter 3 ohm Rheostat.....	.50	.30
3K2426 — 4 Carter No. 10 tip jacks at 10c.....	.40	.24
3K4586 — 1 Carter Battery Switch, No. 2 Imp.....	.50	.30
3K764 — 1 Tobe 2 meg. Grid Leak.....	.50	.30
3K4817 — 4 S-M No. 511 tube sockets at 50c.....	2.00	1.20
3K4826 — 2 S-M 220 Audio trans. at \$8.00.....	16.00	9.60

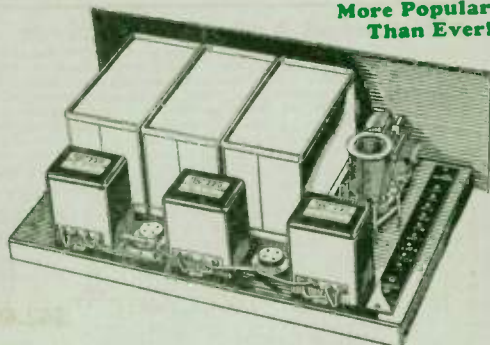
Consists of standard regenerative first detector circuit and a conventional oscillator, having tuning controls at ground potential and free of hand capacity. Following these two tubes is the new S-M 440—(112KC) 3 stage, long wave amplifier and detector—a completely shielded, laboratory measured and calibrated long wave amplifier in one single compact unit. Then there are two stages of audio with S-M 220 transformers. All tubes, including the new AC tubes, can be used with a great degree of efficiency. Used on a 20 or 40 foot antenna, in preference to a loop, greater selectivity and sensitivity are obtained.

The performance is a revelation. So selective that, if pushed to the limit, it will separate local and distant stations less than 10 kilocycles apart. In comparative tests it will outperform any factory-built commercial receiver on the market, irrespective of the number of tubes. It is believed the most sensitive and selective set ever offered to the public. Supplied with or without stage shields, as they need be used only in congested broadcast areas.

3K4802 — 2 S-M 805 Vernier Drum Dials at \$3.00.....	\$6.00	\$3.60
3K4829 — 1 S-M 275 RF choke.....	.90	.54
3K4801 — 1 S-M 342 Condenser.....	1.50	.90
3K330 — 1 S-M 440 time signal amplifier.....	35.00	21.00
3K4816 — 2 S-M 515 coil sockets at \$1.00.....	2.00	1.20
3K4814 — 2 S-M 111A coils at \$2.50....	5.00	3.00
3K786 — 9 X-L Binding Posts at 15c.....	1.35	.90
3K4915 — 2 S-M 320 .00035 mf. Cond. at \$3.25.....	6.50	3.90
3K360—Complete, List, \$89.40.....		\$53.73
3K361—Complete with Stage Shields, List, \$97.40. Net.....		\$58.53

## Silver 630 IMPROVED SHIELDED SIX

More Popular Than Ever!



On Pages 107-117 You Will Find The Greatest Array of Fine Radio Consoles Ever Assembled! Their Sale Offers Big Profits

3K385—Kit Complete, List \$95.00..... \$55.86  
Net, \$57.00 or less 2% for Cash.

The 1927-1928 improved model of the famous Shielded Six is one of the highest types of broadcast receivers ever developed. Three stages of shielded tuned radio frequency amplification, with manual sensitivity control, providing peak efficiency over the entire broadcast wave length range, give extreme sensitivity and selectivity to the receiver. Individual stage shielding prevents internal oscillation or the pick up of outside noise and interference. In tone quality the Shielded Six can be equaled by only a few of the very highest priced factory-built receivers, and is surpassed by a link motion two-dial control of the Shielded Six is provided by a link motion which ranges together the second, third and detector stage condensers. So accurate is the matching of the coils and condensers provided in each No. 630 factory matched kit that no balancing or compensation is required. The receiver is assembled upon a pierced and formed steel chassis with decorated metal panel and removable aluminum shields. A slide knob varies the volume from a whisper to a roar, the filament adjustment of all tubes (5-CX201A and 1-CX371) being non-critical and automatically controlled. The "Six" is remarkably simple to construct, smooth in operation, functioning perfectly with a short indoor aerial or 50-foot outdoor antenna, adequately selective to separate all the locals, and sensitive enough to pull in far distant stations, through local broadcasting. With its amazingly faithful quality of reproduction, the Shielded Six is a real receiver—difficult to equal at any price.

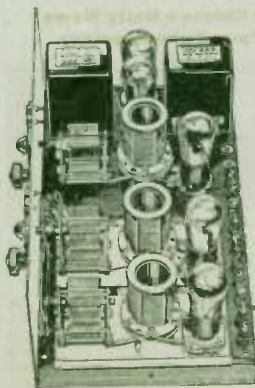
### Factory Built Silver Shielded Six

Same as 630 Kit except completely assembled, wired, and guaranteed by the Silver-Marshall Co. Complete in carved cabinet without accessories.

3K362—List price, \$140.00, Net..... \$84.00

## Silver-Cockaday S C-II Receiver

4 Tubes with the Power of Five



Represents the combined engineering skill of McMurdo Silver and Lawrence M. Cockaday. It is a two-dial five tube receiver (two stages r. f. detector and two stages transformer coupled A. F.) designed to equal or outperform any five tube receiver on the market. Its sensitivity is exceeded by no five tube set, its selectivity is ample and its tone quality is guaranteed exceeded only by the Shielded Six. Has been given highest praise by authorities throughout the world. Can be used on long waves by using one S-M 116D and two 115D coils for 500 to 1,500 meters; or one 116E and two 115E for 1,400 to 3,000 meters. May be used with all tubes and power units.

3,000 meters. May be used with all tubes and power units.

Power of Five		List of Parts	List	Net
3K4906—2	316 B Cond. at \$4.50.....		\$9.00	\$5.40
3K4905—1	316-A Condenser.....		4.50	2.70
3K4904—1	637 Double Link Motion.....		2.00	1.20
3K4816—3	515 Coil Sockets at \$1.00....		3.00	1.80
3K4817—4	511 Tube Sockets at 50c.....		2.00	1.20
3K4826—2	220 Transformers at \$8.00....		16.00	9.60
3K4841—1	116-A Plug in Coil.....		2.50	1.50
3K4842—2	118-A Plug in Coils, matched at \$2.50.....		5.00	3.00
3K4850—2	631 Stage Shields at \$2.00..		4.00	2.40
3K742—1	Van Doorn Pierced Steel Chassis (17 1/2 x 9 1/2 x 1 1/2 inches; with hardware and insulation.....		2.00	1.20
3K743—1	Van Doorn Pierced and Decorated Steel Panel (size 7x18 in.).....		3.00	1.80
3K4146—2	National Vern. Dials, type B..		5.00	3.00
3K4590—1	Carter H-1/2 resistor.....		.25	.15
3K4591—1	Carter M-200 S Potentiometer.		1.25	.75
3K2426—2	Carter Tip Jacks.....		.20	.12
3K4619—1	Benjamin 0040 Socket.....		.75	.45
3K541—2	Polymet 1 mfd. Condensers....		2.00	1.20
3K574—1	Polymet .002 Cond.....		.40	.24
3K787—10	Ebr Binding Post.....		1.50	1.00
3K363—	Complete. List price, \$64.35.....			\$38.66
Net.....				

Shipping weight, 25 lbs.



SM

## Transformers and Power Equipment

**Acclaimed the Best in the Radio Field**

### 220 Audio Transformer

The finest produced regardless of price. Provides substantially straightline amplification from 50-5000 cycles. Falls off at 5000 cycles, compensating against static, squeaks and noises above the musical range. Turns ratio 2-1. For use with all type tubes. Guaranteed to give more satisfactory quality than any other amplifying device. Weight, 4 lbs., 6 oz.

3K4826—List, \$8.00, Net...\$4.80

### 221 Output Transformer

For use between last power tube and loud speaker. Prevents blasting or damage to speaker from direct current. Possess unique advantage of bringing out almost low notes from inferior amplifiers, or improving the tone quality of the best transformer. Its impedance matches the tube and loud speaker giving maximum energy transfer. Will improve any set using any loud speaker and any kind of tubes. Weight, 4 lbs., 4 oz.

3K4827—List, \$7.50, Net...\$4.50

### 222 Output Transformer

Same as No. 221 except equipped with four phone tip jacks and a 5 foot heavy duty extension cord, instead of four binding posts. Instantly attached to any radio receiver. Weight, 4 lbs., 5 oz.

3K4832—List, \$8.00, Net...\$4.80

### 230 Push-Pull Input Transformer

Used either for the highest quality Push Pull Power amplifier that can be built, or as variable ratio audio transformer by virtue of its center tap, either 6-1 or 2-1. Weight, 4 lbs., 8 oz.

3K4833—List, \$10.00, Net...\$6.00

### 231 Push-Pull Output Transformer

For use in conjunction with No. 230 in push-pull circuits or as output transformer for, by means of center tapped primary, its impedance may be adjusted to match accurately, the plate impedance of the tube used. Weight, 4 lbs., 6 oz.

3K4834—List, \$10.00, Net...\$6.00

### 325 Stepdown Transformer

Designed to supply 1½ and 2½ volts filament current required for the operation of all A.C. tubes as well as 5 and 7½ volts for the filaments of 112, 171, or 210 power tubes. Capacity 5 or 7½ volts at 3 amperes; 1½ and 2½ volts at 12 amperes. Provided with electrostatic shield and equipped with cord and plug. Weight, 4 lbs., 15 oz.

3K4835—List, \$8.00, Net...\$4.80

### 329-A Power Transformer

Used with 312, 280, QRS, or Raytheon rectifiers and in addition to "B" supply, will furnish A and C power for A.C. and power tubes. Has two 250 volt, 125 MA secondaries; one 5 volt, 1 amp.; one 1 volt 6 amp.; and one 2.5 volt, 6 amp. secondary. For 103-120 volt 60 cycle current. Complete with cord and plug. Weight, 5 lbs.

3K4836—List, \$11.00, Net...\$6.60

### 328 Super Power Transformer

A full wave power transformer, for use with 210-B or 281 tubes. Contains 2-250 volt secondaries, rating 110 ma., 2-7½ volt 2.42 amp., 1-1½ volt 2.42 amp. windings and 1-110-120 volt 60 cycle primary. Cord and plug not included. Shipping wt., 8 lbs.

3K4837—List, \$18.00, Net...\$10.80

### 331 Uni-Choke

A two winding high inductance choke licensed under the Clough Patent Application. Its filtration, when properly used, is guaranteed to be superior to any other power supply filter. Its tuned section eliminates the 120 cycle ripple. With only 7 Mfd condenser capacity, it will outperform two section chokes with 8-12 mfd capacity. Very satisfactory for use in impedance coupled amplifiers. Primary inductance 2 henries, secondary 47 henries at 60 MA load. Air gap to prevent saturation. Rated at 85 MA continuous duty. Weight, 4 lbs., 10 oz.

3K4838—List, \$8.00, Net...\$4.80

### 332 Condenser Bank

A condenser block for "B" eliminator circuits where ballast or glow tube is used in conjunction with a filament or thermionic type full wave rectifier tube. Contains 2-1 mfd, 2-1 mfd; 2-2 mfd, and 1-4 mfd filter condensers. Weight, 2 lbs., 2 oz.

3K4839—List price, \$12.50, Net...\$7.50

### Long Wave Transformers

The S-M 210 and 211 long wave transformers with their black Bakelite cases (the 2½ inches long, ¾ inches wide, 1½ inches high) are so well known the world over, as to require no introduction.

### 210 Long Wave Transformer

An iron core transformer of exceptional amplification supplied at any desired peak frequency from 50-60 K.C., for 201A type tubes, or from 50-70 K.C. for 120 tubes. Weight, 1½ lb.

3K4820—List price, \$6.00, Net...\$3.60

### 211 Long Wave Transformer

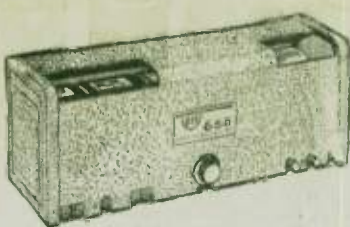
A sharply tuned air core transformer. Supplied tuned with fixed primary capacitors, at any desired peak frequency from 50-70 K.C. for any type of tubes. Includes fixed condenser. Weight, 6 oz.

3K4821—List price, \$6.00, Net...\$3.60

SM

## Unipacs Universal Push-Pull Power Packs

Four S-M "Unipacs"—two kits, and two assembled ready-to-use units—with attractive crinkle-brown steel cabinets and plated steel chassis. Provide a quality of distortionless power amplification and an extraordinary degree of power handling capacity never before attained. The S-M 660-210A Unipac and the 660-171A Unipac are the peers of all power packs in their respective fields, yet the prices are very low. They incorporate the great advantages of push-pull power amplification and are "universal" in application as phonograph amplifiers, two-stage amplifiers, receiver B supplies, or complete ABC power supplies for receivers using the new AC tubes.



### 660-210A Unipac

The S-M 660-210A Unipac is the finest power pack obtainable on the market. Utilizes two CX316 rectifier, a CX374 glow tube for "B" voltage regulation and two CX310 tubes in a push-pull amplifier. Provides unequalled bass note reproduction and undistorted 2.5 to 3 volts for receiver A power when A-C tubes are used. Supplied complete in a sealed S-M kit. Shipping wt., 35 lbs.

3K5659—Complete (no tubes included). List, \$83.25, Net...\$49.95

### 666A Wired Unipac

3K5660—666A. The 660-210 Unipac completely assembled and wired (tubes not included) by the S. M. factory. List price, \$93.25, Net...\$55.95

### 660-171A Unipac

The SM No. 660-171A Push-Pull Unipac provides a power pack vastly superior to any other 171 power pack on the market. Though the voltage amplification is 9 (with 171 tubes) as compared to 21 in the 660-210, the volume is amply sufficient for ordinary home reproduction, and the handling capacity is considerably greater than most 210 power packs. Has an extra tube socket so that it can be used as a complete two stage power amplifier or as a phonograph amplifier by the addition of a CX326 tube. Contains 329A transformer and will supply AB and C voltage to sets using AC tubes. Shipping weight, 40 lbs.

3K5661—Complete (no tubes included). List, \$66.00, Net...\$39.60

### 667 Wired Unipac

3K5662—667—The 660-171A Unipac completely assembled and wired by Silver Marshall (tubes not included). List, \$76.00, Net...\$45.60

### S-M Reservoir "B" Power Supply

The Reservoir "B" Power Supply is the only unit available on the market with glow tube voltage regulation. Guaranteed absolutely free from hum, motor boating or other troubles when operating with any standard receiver. The 90 volt tap furnishes up to 45 MA with only a variation of a few per cent. 45 volt tap has negligible variation up to 10 MA. Will operate 371 or other type power tube. Guaranteed to operate up to 60 tubes. Has 320 A power transformer which also supplies A and C power for the new A.C. tubes. Weight, 15 lbs., 14 oz.

3K5663—32A complete (no tubes included). List, \$36.50, Net...\$21.90



### 656A Wired Reservoir "B" Supply

3K5664—656A Reservoir B Assembled and wired by the Silver-Marshall factory. No tubes included. List price, \$40.50, Net...\$24.30

### Tubes for Unipacs and Reservoir "B"

660-210A Unipac requires two CX316B rectifier tubes, one CX374 glow tube, and two CX310 amplifier tubes. 660-171A Unipac requires one QRS 15 MA rectifier tube, one CX374 Ballast tube and 2CX371 Power tubes.

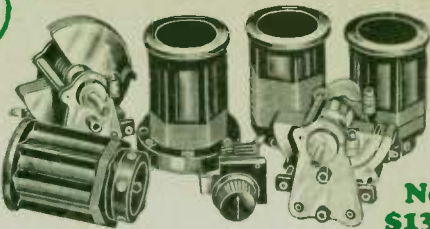
S-M Reservoir B Supply requires one CX374 glow tube and one QRS 150000 rectifier tube.

	List	Net
3K1034—CX316 B rectifier tube.....	\$7.50	\$5.25
3K9334—CX374 Glow tube.....	5.50	3.85
3K841—QRS 15 MA Rectifier tube.....	4.50	2.70
3K1038—CX310 Power tube.....	9.00	6.30
3K1032—CX371 Power tube.....	4.50	3.15



SM

## 635 Short Wave Receiver



**Net**  
**\$13.80**

The S-M 635 Short Wave Kit contains carefully designed and matched essentials for constructing a receiver with wavelength range from 18 to 150 meters and a practically unlimited distance range.

Has been given great prominence through its use by expeditions such as Commander Tytt's in Brazil. Using the four coils supplied, the amateur transmitting bands fall well to the center of the tuning condenser scale, and may be shifted as desired irrespective of normal antenna length. "Dead spots" where the receiver will not oscillate are totally eliminated. Further, the antenna condenser allows easy adjustment of antenna coupling to suit individual condition of location and antenna.

When built up using a pair of 220 transformers for audio amplification, making a three tube set, they will give excellent reception of distant short wave amateur and broadcast stations even in bad radio conditions.

Kit contains one each No. 117 M, N, O, and P, plug in coils; one 515 coil socket; one 510 millifarad condenser and two 517 variable condensers. Weight, 3 lbs.

**3K4875**—List price, \$23.00, Net.....**\$13.80**

## Type 117 Kit of Coils Only

Consists of one each No. 117 M, N, O, and P coils licensed under Armstrong Patent No. 1,113,149. Range 18-150 meters with .00014 mfd condenser. Weight, 1 lb.

**3K4819**—List price, \$11.00, Net price.....**\$6.60**

## S-M Interchangeable Plug-In Coils



These coils have attained a widely desired position of leadership. Confined magnetic field, extreme uniformity, most efficient low-loss design, suitable for all circuits. Made for all ranges from 18 to 3000 meters. Spaced wound on ribbed bakelite tubing having six threaded ridges, providing practically an support. Rotors are of green silk wound on small bakelite forms. Concentrated primary windings on some types are slot wound at the bottom end of the grid winding. Very good for single control work since all coils of one type are exactly alike. All coils are for use with .00035 mfd variable condensers.

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

**3K4814**—Type A, 190-550 meters..... List, \$2.50, Net, **\$1.50**

**3K4813**—Type B, 70-210 meters..... List, \$2.50, Net, **\$1.50**

**3K4812**—Type C, 30-75 meters..... List, \$5.00, Net, **\$3.00**

**3K4831**—Type D, 500-1500 meters..... List, \$5.00, Net, **\$3.00**

**3K4845**—Type E, 1100-3000 meters..... List, \$5.00, Net, **\$3.00**

Type 111-Stator consists of single winding, concentrated slot primary and adjustable rotor.

**3K4807**—Type A, 190-550 meters..... List, \$2.50, Net, **\$1.50**

**3K4808**—Type B, 70-210 meters..... List, \$2.50, Net, **\$1.50**

**3K4809**—Type C, 30-75 meters..... List, \$5.00, Net, **\$3.00**

**3K4810**—Type D, 500-1500 meters..... List, \$5.00, Net, **\$3.00**

**3K4846**—Type E, 1100-3000 meters..... List, \$5.00, Net, **\$3.00**

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

**3K4815**—Unwound Bakelite form with hardware and rotor. Weight, 3 oz. List, \$1.25, Net.....**\$0.75**

## Type 101-B Coupler



Consists of bakelite stator tube having two 28 turn windings, and an adjustable rotor with a single 28 turn winding. Winding terminates at six solder lugs. An ideal oscillator for all circuits using .0005 mfd condensers. Range 150 to 550 meters. Weight, 5 oz.

**3K4822**—List price, \$2.50, Net.....**\$1.50**

## 515 Coil Socket

Moulded Bakelite ring with 6 contacts to take all S-M plug in coils. 2 1/4 inches diameter, 1/2 inch thick. Shipping weight, 3 oz.

**3K4816**—List, \$1.00, Net.....**\$0.60**

## S-M R. F. Chokes



275—For short waves up to 600 meters. Impregnated winding encased in Bakelite housing. Inductance, 24 millihenries. Shipping weight, 4 oz.

**3K4829**—List, \$0.90, Net.....**\$0.54**

276—Same as 275 for use above 600 meters. Inductance, 10 millihenries. Shipping weight, 4 oz.

**3K4830**—List, \$1.00, Net.....**\$0.60**

## S-M Link Motions

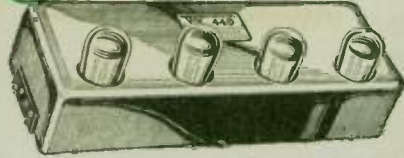
180° mechanical links designed for coupling two or three condensers (4 inches between centers) together for single dial operation. Shipping weight, 6 oz.

**3K4908**—622 Triple for 3 condensers. List, \$2.50, Net.....**\$1.50**

**3K4904**—627 Double for 2 condensers. List, \$2.00, Net.....**\$1.20**

SM

## 440 Jewelers' Time Signal Amplifier



**Net**  
**\$21.00**

The S-M No. 440 Time Signal Amplifier is a three-stage tuned R. F. amplifier, and detector, consisting of four extra-large size tuned air-core transformers and four tube sockets, properly by-passed, all wired up and sealed in a copper and brass catabomb, size 1 1/2 x 5 x 5 inches, and tuned exactly to 112 K. C., the 2677 meter wave length of the U. S. Naval Observatory Station at Arlington (NAA). Each of the four stages of the Amplifier is individually shielded. The selectivity of this unit is so great that interference from other wave-lengths is impossible. With its large low resistance tuned air-core transformers, hermetically sealed, the amplification is tremendous—higher than that of any 3-stage long wave amplifier that can be constructed from standard parts today.

Jewelers wishing to set their clocks and watches accurately from the time signals transmitted direct from Arlington at 12 noon and 10 P. M. daily need only to connect up the Amplifier as shown by the instructions provided.

The S-M No. 440 Time Signal Amplifier is sold only in completely wired form, factory sealed, laboratory tuned and calibrated for Arlington (112 K. C.). It is guaranteed for positive accuracy of time, and any unit will be repaired at the factory, free of charge (provided the coils have not been broken) at any time within one year after purchase should it prove unsatisfactory. Uses 201A type tubes throughout. Overall size, 1 1/2 x 5 x 5 inches. Weight packed, 5 lb.

**3K330**—List Price, \$35.00, Net.....**\$21.00**

## Type 316A Variable Condenser



Designed to provide the electrical uniformity and mechanical rigidity necessary for unit control circuits. Modified straight-line frequency type providing equal spacing of stations over entire dial. Plates of soldered brass plate assemblies swung in a rigid metal frame designed for base or panel mounting. Rotor and stator plates are lacquered and are adjustable as are both front and rear bearings. Made of nickel plated brass. Held together by steel tie rods. Capacity, .000007 to .00025 mfd. Weight, 1 lb.

**3K4905**—List, \$4.50, Net.....**\$2.70**

## Type 316 B Condenser

Same as 316 A, except provided with extra long shaft, weight, 1 lb.

**3K4906**—List price, \$4.50, Net.....**\$2.70**

## Type 317 Condenser

Similar to 316 A, except capacity is .000005 to .00014 mfd. Shipping weight, 1 lb.

**3K4907**—List price, \$4.50, Net.....**\$2.70**

**3K4915-SM-320** Condenser—.00025. Similar to 316-A, except lighter construction. 3 in. deep by 3 in. square. Shipping weight, 2 1/2 oz. List, \$3.25, Net.....**\$1.95**

## Type 340 Condenser



A small .00025 mfd. adjustable condenser, designed for compensation, balancing or antenna coupling. Brass plates, mounted on bakelite and plate. 3 1/2 inch wide, 1 inch deep, 1 1/2 inches high. Single hole panel or base board mounting. Complete with knob. Weight, 6 oz.

**3K4852**—List, \$1.50, Net.....**\$0.90**

## Type 342 Condenser

Same as 340, except capacity is .000075 mfd. Shipping wt., 6 oz.

**3K4801**—List, \$1.50, Net.....**\$0.90**

## 805 Vernier Drum Dial

Attractive oxidized brass panel window. Simple to mount. Suitable for any type standard condenser. Universal for either right or left hand mount. Dial controlled by the lamp bracket furnished. Size, 4 1/2 x 3 1/2 inches. Shipping weight, 12 oz.

**3K4802**—List, \$3.00, Net.....**\$1.80**



## 631 Stage Shield



An aluminum can with removable top and bottom. 7 1/2 x 5 1/2 x 3 1/2 inches, pierced for S-M condenser, 515 coil socket, tube socket, choke, by-pass condenser and all leads. Weight, 12 oz.

**3K4850**—List, \$2.00, Net.....**\$1.20**

**3K4850**—List, \$2.00, Net.....**\$1.20**

## 540 Sub-Panel Brackets



Nickel finished steel. 6 inches long, 1 1/2 inches high, 1/4 inch wide. Shipping weight, 7 oz.

**3K4803**—List per pair, \$0.70, Net.....**\$0.42**



# Camfield Super-Selective 9

## Sensitive, Selective!

The circuit used has many features of proven merit never before incorporated in a radio receiving set. Outstanding among these features is the use of the famous Runcy Band Pass Filter in the intermediate frequency amplifier. This filter is designed to pass a band of frequencies 10 kilocycles wide. The amplification over this band is uniform and the cut-off on either side is extremely sharp. The result is perfect selectivity between wave bands & only 10 kilocycle separation in frequency. The uniform amplification over the band maintains perfect tone quality. The selectivity of this device is so perfect that it permits the use of radio frequency amplification ahead of the Super and the operation of the set on an antenna. This makes the Camfield Super-Selective 9 the most sensitive receiver ever developed. The net result is the simultaneous increasing of both sensitivity and selectivity to a degree heretofore considered impossible.

The turning of a switch on the panel converts this set from a five tube two control radio frequency receiver for the reception of local stations to a nine tube super-selective and super-sensitive circuit capable of tuning through powerful local stations and receiving distant stations from coast to coast on a 10 kilocycle separation of frequencies.

This new circuit is easy to construct and simple to operate and comparatively inexpensive. It is entirely free from disturbing oscillator harmonics and it will out-perform any radio set you have ever used.

### Parts for Camfield Super-Selective Nine

Cat. No.	Quan.	Description	List	Net
3K4066	1	Camfield, .00025 Var. Cond....	\$ 5.50	\$ 3.30
3K4067	1	Camfield, .00025 Var. Cond....	5.75	3.45
3K4068	1	Camfield, .00025 Var. Cond....	10.50	6.30
3K3740	1	Camfield Kit of Duoformers....	10.00	6.00
3K3742	1	Camfield No. 620 Coupling Unit...	3.50	2.10
3K3744	1	Runcy No. 10KC Band Pass Filter	15.00	9.00
3K3745	2	Runcy No. 95 I.F. Transformers	12.00	7.20
3K513	1	Dublier .002 Fix. Cond.....	.40	.24

## The Camfield Duoformer Seven Receiver

### As Specified in Citizens' Radio Call Book \$64.10

The new Camfield Seven is a triumph of radio engineering. It combines all of the features of the finest sets and eliminates their bad points. It uses two extremely efficient tuned radio frequency stages preceded by an untuned antenna coupling tube. Thus, true single control is at once realized. There is one stage of audio amplification and one stage of push-pull, 171 type tubes in conjunction with Tynman Transformers are used in the push-pull stage so that the reproduction is perfect. Instantaneous coupling is eliminated by the use of Tynman Shielded Sockets. For beautiful appearance and simplicity in building, this kit cannot be surpassed. All wiring is beneath the sub-panel and the layout is symmetrical, making the interior very attractive. The beautiful Tynman Dial gives the panel a distinctive appearance which cannot be overlooked.

The set is very easy to build and to operate. Everything is supplied; all the technical work has been done—so that assembly is the only work with which the builder is associated. Complete instructions are included with every kit.

Cat. No.	Quan.	List of Parts	List	Net
3K3743	1	Camfield 10 in. Cond. Shaft....	\$ 0.30	\$ 0.18
3K4067	3	Camfield, .00025 mf. Var. Cond. No. 331	17.25	10.35
3K3740	3	Camfield Type 22 Duoformers....	10.50	6.30
3K4185	1	Tynman Audio Trans. No. 3-30..	8.00	4.80
3K4186	1	Tynman In-cou Trans. No. 3-30..	8.00	6.00
3K4187	1	Tynman Output Trans. No. 3-51..	10.00	6.00
3K4180	1	Tynman Drum Vernier Dial.....	10.00	6.00
3K4188	7	Tynman Sockets	8.75	5.25
3K4516	1	Cartier Imp. 6 ohm Rheo.....	1.00	.60
3K4518	1	Cartier Imp. 20 ohm Rheo.....	1.00	.60
3K2440	1	Cartier Type X 10,000 ohm Var. Res.	2.00	1.20
3K2512	1	Cartier Imp. Battery Switch.....	.65	.39
3K754	1	Cartier .001 pf. Fix. Cond.....	.50	.30
3K768	1	Cartier .00025 mf. Fix. Cond. with Clips	.50	.30

### The Camfield Duoformer Kit



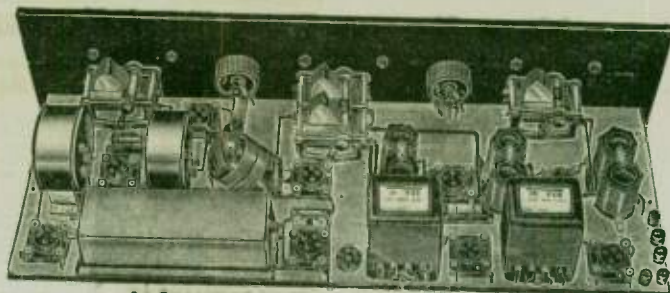
The Duoformers are wound on a moulded Bakelite form, insuring uniformity and accuracy to a degree not attainable with a self-supporting winding. They are non-oscillating and make a very selective and sensitive tuned R. F. receiver. Dielectric losses and field coupling are at a minimum. For use with .00025 mf. condensers only.

Supplied in matched sets of two intermediate transformers and one antenna coupling coil or in single lots. Shipping weight, 1 lb.

**3K3741**—Type 22 Duoformer. Per Set, List, \$10.50, Net..\$6.30

The Camfield Duoformers, Type 22K, were designed for use in multiple tuned circuits by single control. Recommended for many popular circuits, for instance, the Infrafine and the Camfield Super-Selective Nine.

**3K3740**—Type 22K Camfield Duoformers. Per set of 3 Matched, List, \$10.00, Net.....\$6.00

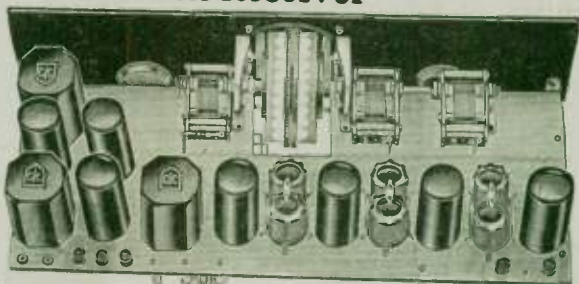


### As Specified by Citizens' Radio Call Book

Cat. No.	Quan.	Description	List	Net
3K424	2	Dublier .00025 Grid Cond. @ 45c	\$0.90	\$0.54
3K3041	2	Durham 5 Meg. Grid Leaks @ 50c	1.00	.60
3K431	2	Tube .5 Mfd. Fixed Condensers	1.80	1.08
3K4826	2	Silver-Mantle No. 220 Trans.	16.00	9.60
3K4411	1	Prost No. S96, 6 ohm Rheostat..	1.00	.60
3K4413	2	Prost No. 824, 400 ohm Pot....	2.50	1.50
3K1400	3	Kurz-Kauch No. 592 Diads.....	6.00	3.60
3K4619	9	Benjamin No. 8020 Sockets.....	6.75	4.05
3K1833	3	Karoz Brackets	.70	.42
3K2512	1	Cartier Magnet Bn. Switch No. 2	.50	.30
3K2439	1	Cartier No. 6 Jack Switch.....	1.25	.75
3K692	5	Day Binding Posts	.75	.50
3K1531	1	Jones Type P.M. Multiplying (Sub-Panel with 8 foot Cable).....	2.50	1.50
3K3213	2	Amperite No. 4-A	2.20	1.32
3K5696	1	Micarta 7x50 in. Dr. and Eng. Pn.	7.60	4.56
3K5697	1	Micarta 10x20x1/2 in. Dial		
3K698	1	Sub-Panel	7.60	4.56
3K1653	1	Miscellaneous lugs, wds, screws, etc.	.50	.30
		Actual Size Blueprint.....	1.50	.90

**3K349**—Complete Set of Parts. List price, \$125.45, Net.....\$75.39

Shipping weight, 24 lbs.



Cat. No.	Quan.	List of Parts	List	Net
3K2426	2	Cartier No. 10 Tin Jacks.....	\$0.20	\$0.12
3K4541	1	Cartier H-1000 Resistor.....	.30	.18
3K758	1	Cartier 1 mf. By-Pass Cond.....	1.25	.75
3K3144	1	Lynch 3 member Grid Lock.....	.50	.33
3K3213	1	Amperite, 1 ampere.....	1.10	.66
3K3207	1	Amperite, 1 ampere.....	1.10	.66
3K1532	1	Yaxley No. 600 Cable Connector	3.00	1.80
3K693	5	The Encased Binding Posts.....	.75	.50
3K5719	2	Benjamin No. 8220 Brackets.....	.75	.45
3K2106	1	Phn. Acme Calafate Wire.....	.80	.45
3K5694	1	7x20x1/2 inch Dr. and Eng. Micarta Panel	6.90	4.49
3K5695	1	10x20x1/2 in. Dr. Formica Sub-Panel, Micarta	6.40	4.16
3K698		Miscellaneous Lugs, Screws, Nuts, etc.	.65	.39
3K1654	1	Set Blueprints	1.50	.90

**3K351**—Complete. List Price, \$105.65, Net.....\$64.10

Shipping weight, 22 lbs.

### Camfield Equaltune Variable Condensers

See Page 91 for complete listing of the well known Camfield Equaltune Condensers.

### Camfield Type 620 Coupling Unit

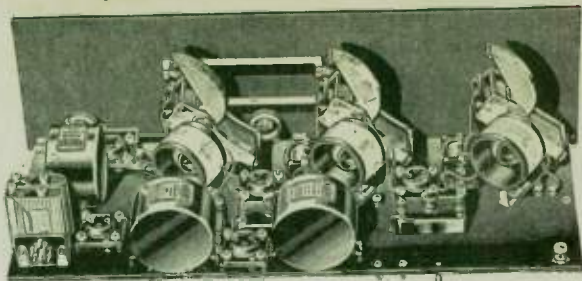
The Camfield coupling unit is adapted to many circuits besides the Camfield 9. May be used in any superheterodyne as an oscillator or antenna coupler. Covers wave length from 200-550 meters. Wound on Bakelite tubing, secondary in two equal sections, 4 terminals provided for the secondary and two for the primary. Shipping weight, 4 oz.

**3K3742**—Camfield No. 620 Coupling Unit, List, \$3.50, Net, each.....2.10





# New Karas Two-Dial Equamatic



As Specified In Citizens  
Radio Call Book

**\$58.90 Net**

Completely balanced and perfectly neutralized, insuring easy tuning and simplified control. Equal efficiency over entire broadcast waveband. All of the superb tone quality and great value of the Karas 3-dial, 5-tube Equamatic. Complete neutralization makes tuning easy and gives a purer and richer tone.

The variable primaries are set so that energy transfer to secondary is constant at minimum, just below the oscillation point. Two condensers tuned with one dial with no back-lash. Micrometric dials allow tuning to 1/1000 of an inch with the gear ratio of six hundred thirty-seven to one.

Gives exceptional results under every condition of operation. Its sharpness, its clear, pure tones the wonder of radio. Better results than from most 7-tube receivers of other designs. The new Karas transformers and tone filter make the reproduction perfect. No distortion is possible unless used with poor loudspeakers.

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

## List of Parts

Cat. No.	Quan.	List of Part	List	Price	Net
3K1825	3	Karas .00037 mf Var. Cond.			
		(\$5.25)	\$15.75	\$9.45	
3K1831	3	Karas Equamatic R. F. Trans. @ \$4.00	12.00	7.20	
3K1840	2	Karas Type 28 Audio Trans. @ \$8.00	16.00	9.60	
3K1828	2	Karas Micrometric Dials @ \$3.50	7.00	4.20	
3K1841	1	Karas Output Filter	8.00	4.80	
3K1833	3	Karas Sub-Panel Brackets	.70	.42	
3K4619	5	Benjamin No. 9040 Sockets @ 30c	2.50	1.50	
3K4517 1/2	1	Carter 10 ohm Rheostat—Imp. (Gold Arrow)	1.00	.60	
3K4518 1/2	1	Carter 20 ohm Rheostat—Imp. (Gold Arrow)	1.00	.60	
3K4509	2	Carter 2 ohm Fixed Resistors @ 25c	.50	.30	
3K2426	2	Carter Tip Jacks No. 10 @ 10c	.20	.12	
3K2529	1	Yaxley 69-B Two Stage Switch	1.50	.90	
3K1532	1	Yaxley Cable Connector	3.00	1.80	
3K4331	2	Samson No. 85 B. F. Chokes @ \$2.00	4.00	2.60	
3K4332	2	Samson Bal. Cond. @ \$2.25	4.50	2.93	
3K1844	1	Karas 2-Dial Control System Complete with extra Shafts and Hardware for Complete Set	3.00	1.95	

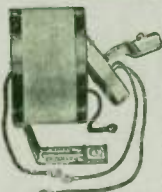
and selectivity are proverbial; its volume tremendous; its clear, pure tones the wonder of radio. Better results than from most 7-tube receivers of other designs. The new Karas transformers and tone filter make the reproduction perfect. No distortion is possible unless used with poor loudspeakers.

## List of Parts

Cat. No.	Quan.	List of Part	List	Price	Net
3K 552	2	Polymet .001 mf Fix. Cond. @ 30c	\$0.60	\$0.36	
3K 556	1	Polymet .006 mf Fix. Cond. @ 50c	.50	.30	
3K 559	2	Sangamo .0001 mf Fixed Condensers	.40	.26	
3K 561	1	Sangamo .00025 mf Grid Condensers with Clips	.50	.33	
3K2914	1	Daven 2 Megohm Grid Leak	.50	.30	
3K1355	1	X-L Binding Post Ant.	.15	.10	
3K5785	1	Formica 7 x 24 x 3/4 D. and Eng. Panel	5.68	3.69	
3K5786	1	Formica 9 x 23 x 3/4 Drilled Sub-Panel	6.00	3.90	
3K2106	1	Pkg. Aque Celatite Hook-Up Wire	.40	.24	
3K4013	1	Pkg. Kester Solder	.25	.18	
3K1649	1	Blueprints and Instructions	1.50	.98	

3K 338 Complete Kit. . . . \$97.13  
Shipping weight 25 lbs. **\$58.90**

## Karas Equamatic R. F. Transformer



Variable primary fastens to shaft of condenser and is automatically varied. Improved sensitivity, selectivity and volume. Gives constant coupling on all wave lengths, thus giving volume proportional to strength of station—not wave-length.

3K1831—Per set of 3 matched units. Shipping weight 1 lb. List, \$12.00. Net. . . . \$7.20  
3K1832—Karas Retard Coils for old style Equamatic set. Shipping weight 8 oz. List, \$1.00. Net. . . . 60c  
3K1833—Karas Sub-Panel Brackets. Per set of 3. Shipping weight 12 oz. List, 70c. Net. . . . 42c

## New Karas 5 L.F. Condensers



Has same general advantages as Orthometric. Removable shaft so they can be ganged easily. Mounting for sub-panel, baseboard or single hole panel from either side. Made to the standard Karas specification and guaranteed. Shaft diameter 1/4 inch. Shipping weight 1 lb.  
3K1837—Type 11, .00025 mf. List, \$5.00. Net. . . . \$3.00  
3K1838—Type 17, .00037 mf. List, \$5.25. Net. . . . \$3.15  
3K1839—Type 23, .0005 mf. List, \$5.50. Net. . . . \$3.30

## Karas Micrometric Dial



Provides finest tuning with no back-lash. Ratio 63 to 1, permitting movement of 1/1000 of an inch. Turns easily and smoothly. No holes to drill. Moulded bakelite. Diameter 4 1/4 inches. Fits 1/4-inch shaft. Shipping weight 10 oz.

3K1828—180 degree counterclockwise (List, \$3.50.)  
3K1843—180 degree clockwise (Net, \$2.10)  
3K1829—360 degree clockwise only. (List, \$3.50.)  
**Karas Harmonik Transformer. For Karas Harmonik Transformer See Page 66**

## New Karas Transformer



Marvelous reception secured with the new Karas Type 28 Audio Frequency Transformer.

Undistorted amplification of the low notes, as well as perfect reproduction of high notes. Gives tremendous volume. Amplifies the many vital harmonics and rich overtones that combine to form musical sounds.

Completely shielded and hermetically sealed against climatic conditions. Dampness, heat or cold will not affect them. Completely impregnated. Compound guaranteed to never leak out.

Provided with extra long lugs. Finished in polished black Duco. Shipping weight 1 lb. 14 oz.  
3K1840—List, \$8.00. Net. . . . \$4.80

## New Output Filter

A fitting companion to the new audio transformer. Not only prevents damaging D. C. currents from entering the loudspeaker but greatly improves the quality of reproduction. Consists of special 100 henry choke and a large capacity paper condenser of the finest quality. Shell richly finished in black Duco. Terminal extra long and plainly marked. Insulation is genuine Bakelite. Shipping weight, 1 lb. 12 oz.  
OK1841—List, \$8.00. Net. . . . \$4.80

## 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 1/4 lbs.

3K1823—.00014 mf. List, \$6.50. Net. . . . \$3.90  
3K1824—.00025 mf. List, \$6.50. Net. . . . \$3.90  
3K1825—.00037 mf. List, \$6.75. Net. . . . 4.05  
3K1826—.0005 mf. List, \$7.00. Net. . . . 4.20  
3K1842—.00037, with extended shaft. List, \$7.00. Net. . . . \$4.20



## The Lombardia Console

Such a good receiver as the Karas Equamatic deserves a fine console setting. Here is one of the very finest radio consoles made, yet it is not high priced. Complete illustrations and description, together with listing is given on Page 113.



## The Stratford Console

This beautiful creation by Lund offers opportunity to the builder of the Karas to set it in an orthophonic type console. The Stratford is one of the most popular types of radio consoles and is an outstanding value at the special price we have secured on it for our Dealers. For complete details and illustration, see Page 113.



## The Mayfair Console

It is impossible to describe or illustrate the richness and stateliness of this elegant console. It is perfectly adapted to the fine Karas receiver. You will find a complete listing, price, illustration and description of it on Page 107.



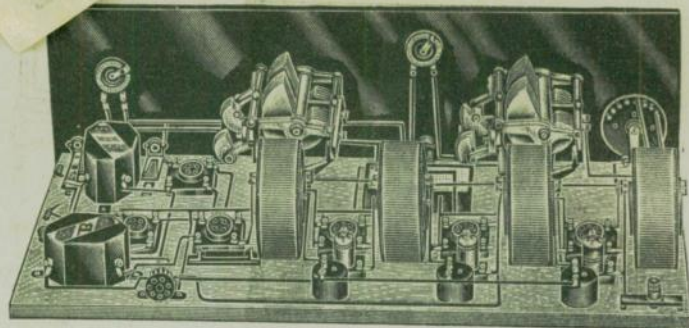
# Counterphase Power-Six \$49.90 Net

## A Set of Great Power and Tone Quality

The Bremer-Fully Power-Six offers all of the latest improvements in radio. It includes the basic superiority of the original counterphase circuit with the additional refinements now possible thru improvements in tubes, resistances and other parts.

3 stages of radio frequency amplification are used which greatly extend the range and selectivity of the set. Due to the use of the Torostyle coils shielding is entirely unnecessary. The new kit is much easier to balance and to operate. All 3 r.f. stages are tuned by only two control dials thru the use of B-T multiple condensers. New style balancing condensers are used, which are very accurate and make the set balance very easily. A Jones Multiplug is used to facilitate battery connections. Long distance operation may be obtained with only a short indoor aerial, and it will give super volume with excellent tone quality.

The construction of the set is very simple and easy by using the wiring harness provided. This set will make a good appearance in any home if it is put into the time and money spent.



### LIST OF PARTS

	List Price	Net Price
1 TA Torostyle Transformer	\$ 4.00	\$ 2.40
3 TC Torostyle Transformers @ \$4.00.	12.00	7.20
2 Ld-17 Condensers @ \$9.50.	19.00	11.40
3 BT mmf Balancing Cond. @ \$1.00.	3.00	1.80
1 B-T 500,000 ohm res.	2.70	1.62
1 B-T 500,000 ohm res.	2.00	1.20
3 1500 ohm resistances @ 50c.	1.50	.90
1 set color charts and diagrams	.90	.54
*3K4373-1 7 x 24 Panel, Dr. and Engr. Formica.	6.00	3.90
*3K4374-1 Wood Baseboard 3/4 x 23 1/2 inches.	1.25	.75
*3K4375-1 B-T Euphonic Trans. 2-2-1.	5.75	3.45
*3K4376-1 B-T Euphonic Trans. 2-2-1.	5.00	3.00
*3K4377-1 B-T Tuning Controls @ \$2.50.	5.00	3.00
*3K5122-1 .001 mf Fix. cond. Dubilier.	.40	.24
*3K510-1 .00025 mf Fix. cond. Dubilier.	.35	.21
*3K518-3 .0006 mf. Fix. cond. Dubilier @ 50c.	1.50	.90

	List Price	Net Price
3K4332-2 1 mf Fix. cond. Tobe @ \$1.25.	\$2.50	\$1.50
3K3040-1 2 mag. grid leak Tobe.	.50	.30
3K4329-6 B-T UX shock sockets @ 75c.	4.50	2.70
3K3205-1 Grid leak mounting.	.35	.21
3K2416-1 Double circuit Jack No. 104.	.80	.48
3K2413-1 Single circuit Jack No. 101.	.50	.30
3K3539-1 Filament Switch, Carter.	.65	.39
3K4543-1 S. P. D. T. Jack Switch Carter Imp.	.65	.39
3K639-1 Binding post-Eby-engr-Ant.	.15	.10
3K1069-1 One hole mounting strip.	.20	.12
3K1529-1 Jones B. M. Multiplug set, 8 ft. cable.	2.75	1.65
3K2200-1 Pkg. Belden Colorrubber wire.	.40	.24
3K699-1 Miscellaneous lugs, screws.	.50	.30
3K1070-1 Complete Kit Price.	\$85.35	\$49.90

Shipping weight 25 lbs.

### B-T COUNTERPHASE POWER-SIX KIT

This kit is made up at the B-T factory and consists of the B-T essentials used in the Kit.

	List Price	Net Price
3K4232-1 TA Torostyle transformer	\$ 4.00	\$ 2.40
3K4233-3 TC Torostyle Transformers @ \$4.00.	12.00	7.20
3K4234-2 Ld-17 B-T Condensers @ \$9.50.	19.00	11.40
3K4235-3 B-T mmf Condensers @ \$1.00.	3.00	1.80
3K4308-1 B-T RF Chokes @ 90c.	2.70	1.62
3K4370-1 B-T 500,000 ohm Variable Resistor.	2.00	1.20
3K4371-3 1,500 ohm Resistance @ 50c.	1.50	.90
*3K4372-1 Set Color Charts and Diagrams	.90	.54
*3K4331-Complete Kit.	\$45.10	\$24.90

Shipping wt. 10 lbs.

### B-T LABORATORY TYPE CONDENSERS

One of the finest condensers made. Low loss style of superior mechanical strength. Straight line wave length change over entire scale. Low minimum capacity. Panel or base mounting. Small amount of insulation placed outside of electrostatic field. Pigtail rotor condenser. Binding post connections, grounded frame. Heavy aluminum plates. Cast aluminum ends finely finished. 1-inch shaft. No dial included. Shipping wt. 1 lb.

	List Price	Net Price
3K4243-.000125 mfd. Price each.	\$4.25	\$2.55
3K4244-.00025 mfd. Price each.	4.50	2.70
3K4245-.00035 mfd. Price each.	4.75	2.85
3K4246-.0005 mfd. Price each.	5.00	3.00

### B-T STRAIGHTLINE FREQUENCY CONDENSERS

A real B-T achievement. Eliminates crowding of stations regardless of their wave length. Spaces stations uniformly over dial when used with B-T coils. Shpg. wt. 1 lb., 2 oz.

	List Price	Net Price
3K4305-.00025 mfd.	\$5.50	\$3.30
3K4306-.00035 mfd.	5.75	3.45
3K4307-.0005 mfd.	6.00	3.60

### B-T LIFETIME MULTIPLE CONDENSERS

The double condenser is for use in circuits designed for simultaneous tuning. Same high grade construction as used in the B-T single condenser. Similar shaped plates assure best possible tuning under all conditions. The compensating "trimmers" are an exclusive feature of high merit. The second trimmer is adjusted but once, after which the first trimmer will compensate the whole unit. Shpg. wt. 1 1/2 lbs.

3K4242-Type Ld-17, each unit .00035 mf. List, \$9.50, Net, \$6.45.

### B-T MICRO-MIKE CONDENSER

Straight line capacity gives highly accurate and permanent adjustment from 1-30 mmf. Indicator shows relative adjustment. Use in any circuit for balancing condenser. Shpg. wt. 4 oz.

3K4238-New Vertical Micro-Mike.

List, \$1.00, Net, \$0.60.

### B-T UNIVERSAL SOCKET

Takes all style of tubes with X bases. Shock absorbing, no cushions needed. Takes up small space. Made of molded bakelite. Shipping wt. 4 oz.

3K4229-List Price, \$0.75, Net, \$0.48.

### METAL PANEL FOR COUNTERPHASE POWER-SIX

	List Price	Net Price
3K4227-Bronze panel, elegant walnut finish. Holes punched to take B-T apparatus. Neatly engraved. Eliminates body capacity. Size 7x24 inches. Finest looking panel made. Gives set factory-made appearance. Shipping wt. 1 lb.	\$6.50	\$3.90

### METAL SHIELD FOR COUNTERPHASE AND POWER-SIX

	List Price	Net Price
3K4228-A brass box, 23x9 1/4 x 6 1/4 inches. Fits in 7x24 1/2 inch cabinet. Shields set completely except for front panel. Shpg. wt. 4 lbs.	\$7.60	\$4.50

### B-T TOROSTYLE TRANSFORMERS

When properly designed, toroidal coils give results hitherto impossible. B-T's years of experience in design and research produced this coil. Reduces external fields, eliminates critical angles, lessens interstage coupling and pickup by the coils and wiring. Makes a very sensitive and selective r.f. amplifier. Frame moulded bakelite. 7 binding posts arranged for simplified wiring. For use with .00035 mf. condensers. Shipping wt. 12 oz.

3K4232-Type TA Antenna Coupler.	List, \$4.00, Net, \$2.60.
3K4233-Type Tc Intermedial R. F. Stages.	
3K4234-Type 4A for 4-tube set.	

### B-T TUNING CONTROL

This tuning control combines attractive appearance with the highest degree of efficiency. 12-1 ratio provides positive control with smooth, easy flowing action. Works with either right or left hand condensers. Reversible erasable disc is calibrated on one side in meters and other side for station letters. Black and Gold finish. Diameter 4 inches for 1/2" shaft. Shpg. wt. 14 oz.

3K4224-List, \$2.50, Net, \$1.50.

### B-T EUPHONIC AUDIO TRANSFORMER

Produces remarkable amplification and tone quality, being one of the first constructional audio transformer improvements. Can be mounted either side up in various positions to eliminate all crossed wires, thus preventing howls and distortion. Shpg. wt. 1 1/2 lbs.

3K4235-Type 210, ratio 4-7-1.	List, \$5.00, Net, \$3.25
3K4236-Type 410, ratio 4-7-1.	List, \$5.75, Net, \$3.73.

### B-T R. F. CHOKE COIL

Increases efficiency of circuits by preventing radio frequency currents from entering the audio circuits. Bank winding for better results. Housed in neat bakelite case with binding post terminals. Mounts with single screw. Shipping wt. 4 oz.

3K4308-List, \$0.90, Net, \$0.58.

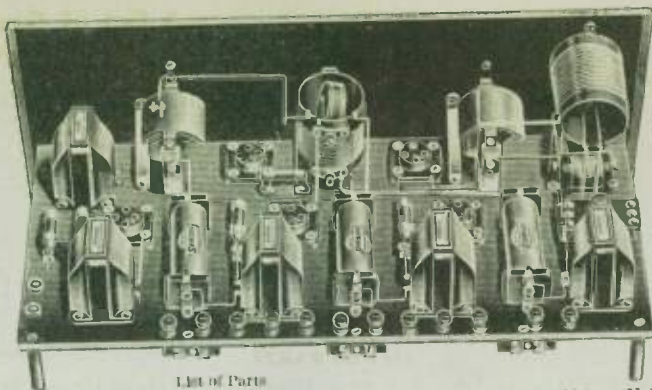


# Samson De Luxe T.C. Receiver

## As Specified by Citizen's Radio Cell Book

A very efficient set, capable of wonderful tone reproduction. R. F. circuit, well-known T. C., where one stage tuned neutralized R. F. provides a regenerative detector. Variable coupling is provided between the R. F. and detector for most efficient operation.

Unusually large condensers used in the amplifiers to insure reproduction of low notes. The well-known Samson Dual Impedances are used and the reproduction is nearly perfect. The impedance load affords a greater amount of amplification and permits a very high quality of reproduction. Full size wiring diagram included. Panel size is 9 1/4 x 24 inches, depth 10 inches.



Cat. No.	Quan.	List	Net
3K5783-1	Samson T. C. Panel Kit (cont. hardware)	\$13.50	\$8.78
3K4619-5	Benjamin UX Cushion Socket @ 74c	3.75	2.25
3K4330-1	Samson Type 41 Antenna Coil	2.00	1.30
3K4329-1	Samson Type 51 Double Rotor Coupler	5.00	3.25
3K4334-2	Samson Type 67, 500 muf Variable Condensers @ \$5.50	11.00	7.15
3K4331-2	Samson Type 55 Radio Frequency Chokes @ \$2.00	4.00	2.60
3K4361-5	Samson Type 3 Audio Frequency Chokes @ \$1.25	9.75	6.34
3K4332-1	Samson Type 61 Neutralizing Condenser	2.00	1.30
3K4324-3	Samson Type P Plate Impedances @ \$4.50	13.50	8.85
3K4326-1	Samson Type G Grid Impedance	4.50	2.95
3K4328-1	Samson Type O Output Impedance	5.00	3.25
3K4365-2	Samson Type "Universal" Vernier Dial @ \$2.50	5.00	3.25
3K562-1	Samson 0005 muf Fixed Condenser	.40	.28

Cat. No.	Quan.	List	Net
3K563-1	Samson .001 muf Fixed Condenser	\$0.50	\$0.30
3K559-1	Samson .0001 muf Fixed Condenser	.40	.28
3K446-1	1 pair Samson Grid Leak Clips	.10	.07
3K3143-1	1 midget Grid Leak, Lynch	.50	.33
3K3143-1	1 25 midget Grid Leak, Lynch	.50	.33
3K435-5	Tube 4 muf By-Pass Condensers @ \$3.50	17.50	10.50
3K433-1	Tube 2 muf By-Pass Condenser	1.75	1.05
3K431-1	Tube 1 muf By-Pass Condenser	.30	.54
3K4451-1	1 pair Yaxley Pin Jacks	.30	.18
3K2508-1	1 Yaxley Illuminated Switch	.50	.30
3K791-1	11 By Engraved Binding Posts	1.65	1.10
3K3240-1	1 CRL 500,000 ohm Variable Resistance	2.00	1.30
3K3362-3	3 Type 3 Ekay Equalizers with Mounting @ 75c	2.25	1.44
3K3218-2	2 Type 4 Ekay Equalizers with Mounting @ 75c	1.50	.96
3K2200-50	50 feet Belden Color Rubber Wire	1.80	.48
3K1651-Set	Blueprints and Instructions	No charge	
3K370	Complete	List price, \$111.55. Net	\$69.75

## Samson Impedances and Transformers



Heliocally wound, gives superior results in all circuits. Especially recommended for their wonderful tone quality by all leading engineers. Shipping weight, 1 1/2 lbs.

3K4354-Standard Transformer (Type HW-A2)	Ratio 3-1	List \$4.00. Net \$2.60
3K4322-Standard Transformer (Type HW-A3)	Ratio 3-1	List \$5.00. Net \$3.25
3K4311-Standard Transformer (Type HW-A3)	Ratio 2-1	List \$3.25. Net \$2.25
3K4355-Standard Transformer (Type HW-A3)		List \$3.25. Net \$2.25
3K4320-1-1/2 Symphonic Transformer		List \$10.00. Net \$6.95
3K4356-Push-Pull Input Transformer (Type X)		List \$4.00. Net \$2.60
3K4324-Plate Impedance (Type P)		List \$4.50. Net \$2.95
3K4326-Grid Impedance (Type G)		List \$4.50. Net \$2.95
3K4327-Dual Impedance (Type D)		List \$5.00. Net \$3.25
3K4328-Output Impedance (Type O)		List \$5.00. Net \$3.25
3K4357-Push-Pull Output Impedance (Type Z)		List \$5.00. Net \$3.25
3K4358-Type Y Symphonic Interstage Push-Pull Transformer		List \$14.00. Net \$9.10

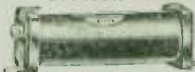
## Samson R.F. Choke Coils



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

3K4359-1/2 Henry	List \$2.75. Net \$1.79
3K4360-250 Millihenry	List \$2.25. Net \$1.58
3K4331-85 Millihenry	List \$2.00. Net \$1.30

## Samson Audio Frequency Chokes



Heliocally wound A. F. Chokes for use in A. F. "B" battery leads to keep the stages isolated. Shipping weight, 1 lb.

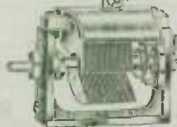
3K4361-31 Henries	List \$3.25. Net \$2.28
3K4362-30 Henries (for power supply)	List \$5.00. Net \$3.25

## Samson Book on Amplification

Explains all systems used, illustrates them thoroughly, shows all of their good and bad points. A real text-book of audio-amplification. Shipping weight, 4 oz.

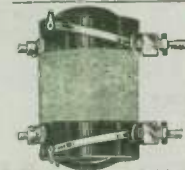
3K4333-List 25c. Net	17c
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## Samson Uniform Frequency Condensers



A guaranteed condenser, accurate within 1 per cent of laboratory fineness and precision. Rigorously built. Will last indefinitely. Very low losses. Ship. wt., 1 lb.

No.	Mf.	List	Net
3K4334	.0005	5.50	\$3.58
3K4335	.00035	5.25	\$3.42
3K4336	.00025	5.00	\$3.28
3K4363	.000125 muf	5.00	\$3.28
3K4337	.000075 muf	5.00	\$3.28
3K4332	Neutralizing Condenser	5.00	\$3.28



## Samson Double Rotor Coupler

Wound with double silk-covered wire on Formica tubing. 160-550 meters with .0005 muf condenser. Rotors may be used as variable, primary or tickler, etc. Solder lug connection. Shipping weight, 14 oz.

3K4329-List \$7.50. Net	\$4.88
3K4364-Single Rotor Coupler	List \$6.00. Net \$3.90

## Samson Antenna Coil



Used with double rotor coupler in Brownling-Drake T. C. De Luxe circuit, etc. Silk wound on Formica tubing. 160-550 meters with .0005 condenser. Shipping wt., 1 lb.

3K4330-List \$1.85. Net	\$1.30
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## Samson Vernier Dial

Universal—for right or left hand rotation—and non-magnetically adjustable tension. Very close hair line. No back lash. Will wear indefinitely. For 1 inch shaft. For years past one of the most popular vernier dials in the market. Always firm and steady in operation. It insures the utmost in fine tuning and control.

Shipping weight, 4 lb.	
3K4365-List \$2.50. Net	\$1.63



## Samson Neutralizing Condenser

For neutralization of radio frequency amplifiers. Minimum capacity, .00002 muf. Maximum capacity, .00015 muf. Bakelite case 3 1/2 x 1 1/2 inches. Shipping weight, 6 oz.

3K4332-List \$2.00. Net	\$1.30
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## The Sovereign Console

This is one of the most beautiful of the long line of consoles we offer. It makes a wonderful cabinet for the Samson De Luxe T. C. Receiver. It incorporates a splendid built-in loudspeaker which does full justice to the excellent audio system of the receiver itself. See page 107.



## The Wyndemere Console

Plain and dignified in line, this is the kind of console you see in the most tastefully furnished homes. A masterpiece of the furniture craftsman's art. It is an ideal setting for the splendid Samson Receiver. See page 110.



## The Mayfair Console

There's a certain charm to this design that makes it an instant favorite with all who see it. Made by Superior, it is of the finest materials, beautifully finished and an excellent value. Sell it with the Samson Receiver. See page 107.

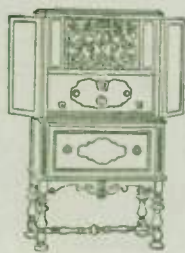
See page 107.





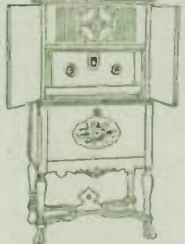
## The Martinique Console

A Spanish design console of a most refined, tasteful type. It has proven very popular and makes a wonderful appearance when equipped with a set such as the Browning-Drake. For full data and illustration, see Page 107.



## The Sovereign Console

The kind of console you see offered with the very finest radio sets, yet not at all high in price. It is made by Superior and is of the highest quality. The Browning-Drake receiver fits into it perfectly. See Page 107.



## The Eldorado Console

A dainty, striking Spanish design much favored by the womenfolk. You will find it easy to sell this splendid console along with the Browning-Drake receiver. It makes a beautiful installation. For full details of this console, see Page 114.

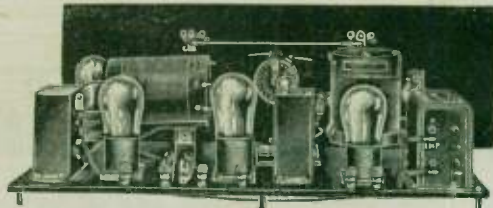
# Official Browning-Drake Receiver

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

Featured by  
**Popular Radio**

**\$37.95**

**Net**  
**Without Tone Filter**



This is the final and official Browning-Drake Circuit as developed by G. H. Browning and Dr. F. H. Drake. The original circuit which has been used for several years is the basis of this kit. It is noted for its sensitiveness, selectivity, volume and tone quality. It has the highest radio frequency stage gain of any receiver on the market. This is due to the design of the transformers, the bunched primary tertiary coil being very closely coupled to the tuned coil or secondary.

The new Browning-Drake has the same distance getting ability which made a transcontinental reception record of Los Angeles from Boston for seven consecutive nights. It is extremely selective and is highly recommended for the most congested locations.

In addition to retaining this excellent selectivity and range, there is added a much improved audio frequency amplifier using a combination of the famous National Impedafomers and resistances for coupling. The first and third stages are impedance coupled, the second resistance coupled. This amplifier has the advantage of amplifying all frequencies as low as 25 cycles per second. Thus all of the overtones of the various notes are retained and the result is pure undistorted music. Impedance coupled amplification is becoming more popular with the constructors of receivers, due to its superiority in tonal color and musical range. In all tests with this set the cone speakers gave the best reproduction.

The net is very easy to build and to operate. Everything is laid worked out in the laboratory so that the constructor has only the assembling and wiring to do. The set is laid out in an attractive manner, and has only two tuning dials. Complete instructions included.

## National Impedafomers

For perfect reproduction, the method of coupling by impedance is recognized now as the best. This method has the advantage of reproducing every note in the musical scale with extreme fidelity. The amplification per stage is high compared to resistance methods. Due to the use of the impedance coils instead of resistance, the full plate voltage reaches the tube at all times. All frequencies as low as 25 cycles are amplified alike. Thus, the mellow, harmonious, background of the contrabass and cellos is lost.



### Type "B"

This type Impedafomer embodies a 100 henry choke coil, a 1 m. f. condenser and a grid leak in a single unit. It facilitates the assembly of the amplifier and saves space. The first stage unit contains also an R. F. choke coil for the detector plate circuit. Shpg. wt., 1 1/2 lbs.

**3K4169**—1st Stage with Choke.  
**3K4170**—2nd or 3rd Stage without choke. Shpg. wt., 1 1/2 lbs.  
List, \$5.50. Net, each... **\$3.30**

### Type "A"

This type consists of a 109 henry choke coil in a metal case. No grid leak or condenser. First stage unit includes an R. F. choke coil. Shpg. wt., 1 lb.  
**3K4171**—1st stage with R. F. Choke.  
**3K4172**—2nd or 3rd stage without choke.  
List, \$4.00. Net, each... **\$2.40**



## National Tone Filter

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 Tole Filter Condenser. No D. C. can reach the speaker. Chattering, distortion and burn-outs are therefore prevented. Attractive metal case with tip jack connections. 5 foot phone cord included. Shipping weight, 2 1/2 lbs.

**3K4173**—List price, \$8.00. Net... **\$4.80**

### List of Parts

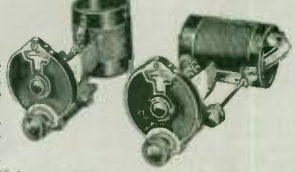
	List	Net
<b>3K4174</b> —1 Browning-Drake Kit (coils, condensers, dials, and instructions).....	\$25.00	\$15.00
<b>3K4176</b> —1 Browning-Drake Foundation Unit consists of: 7x21 in. Mounts Panels drilled and engraved, with sockets, resistor clips, soldering lugs, machine screws, nuts, bolts and wire.....	15.00	9.00
<b>3K4169</b> —1 National Impedafomer (1st stage).....	5.50	3.30
<b>3K4170</b> —1 National Impedafomer (3rd stage only).....	5.50	3.30
<b>3K4189</b> —1 Tole Condenser, special B-D type.....	.60	.36
<b>3K454</b> —3 Tole 001 Tinytube fix. cond. 40c.....	1.20	.72
<b>3K4193</b> —1 0007 Tinytube fix. cond. 40c.....	.40	.24
<b>3K2432</b> —1 Yaxley Filament Switch No. 10B1 (gold).....	.60	.36
<b>3K2433</b> —1 Yaxley 30 ohm Rheo. No. 130 K-BD (gold).....	1.40	.84
<b>3K792</b> —8 Ely Binding posts.....	1.20	.80
<b>3K4194</b> —1 Precise Midget .0001 var. cond.....	1.75	1.05
<b>3K4191</b> —1 Browning-Drake 33 ohm Resis.....	.75	.50
<b>3K3127</b> —1 Durham .1 meg resistances.....	.50	.30
<b>3K3128</b> —1 Durham .25 meg resistances.....	.50	.30
<b>3K3129</b> —1 Durham 8 meg resistances.....	.50	.30
<b>3K4190</b> —1 Browning-Drake balancing device.....	1.00	.65
<b>3K3213</b> —1 Amperite No. 4A.....	1.10	.66
<b>3K4197</b> —1 Constructional booklet.....	.25	.17
<b>3K4451</b> —2 Yaxley Pup Jacks .15c.....	.30	.18
<b>3K371</b> —As specified above. List price, \$63.05. No. 10B1 (gold).....		
<b>3K372</b> —Same as above with National Tone Filter No jacks. List, \$70.75. Net.....		\$37.95
Shipping weight, 20 lbs.....		\$42.75

## Official Browning-Drake Kit of

### Coils and

### Condensers

Kit consists of: one Antenna System Unit; one Browning-Drake Space-wound Antenna Coil mounted on a 0003 mf. Variable Condenser with a National Velvet Vernier Illuminated dial; one Regenerafomer System; one Browning-Drake Transformer with slot wound primary, space wound secondary, mounted on a 00025 mf. Variable Condenser with Velvet Vernier Illuminated dial. Specified for the Official Browning-Drake Circuit. Shpg. wt., 6 lbs.  
**3K4174**—List, \$25.00. Net... **\$15.00**



## Browning-Drake Foundation Unit

Consists of front and base panels, drilled and engraved, with sockets, resistor clips, soldering lugs, machine screws and wire. Shpg. wt., 5 lbs.  
**3K4176**—List, \$15.00. Net... **\$9.00**

## National Variable Velvet Vernier Dial

### Type "B"

Embodies a modified application of the famous Velvet Vernier mechanism. No slippage and no back lash. Turns very easily, and really has a velvet touch. Has a new device which enables the user to adjust the Vernier ratio from 6 to 1 to 20-1. Hair line indicator for accurate tuning. Beautifully made of milled bakelite. Metal parts nickel-plated. Fits any 1/2 inch shaft. Shpg. wt., 8 ounces.



**3K4146**—Clockwise..... List, \$2.50.  
**3K4147**—Counter-clockwise..... Net each... **\$1.50**

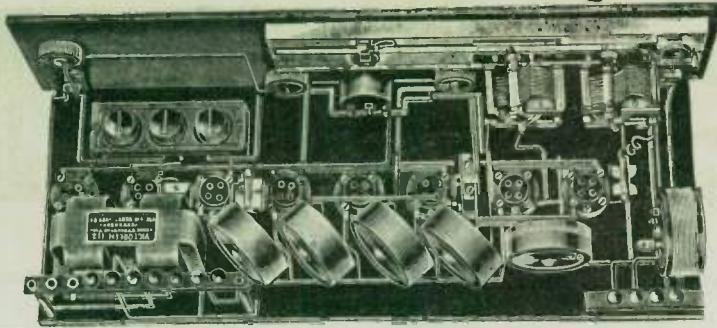
### Type "C"

This dial is the same as type "B" in construction except that it is equipped with a concealed 6-volt bulb which brightly illuminates the scale from the rear. Shipping weight, 8 oz.

**3K4177**—Clockwise..... List, \$3.00.  
**3K4178**—Counter-clockwise..... Net, each... **\$1.80**



# The New Victoreen Super 8



As Specified by Citizens Radio Call Book

In this receiver all tedious and expensive matching and oscillation suppressing methods have been eliminated, due to the exact design of the transformers. All core transformers are used, being sharply peaked at 88 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  $\frac{1}{2}$  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.

## Victoreen Transformers

Very sharp resonance point—means great selectivity. Thus an aperiodic primary is used and interstage oscillation is suppressed, making set more stable. Potentiometer used solely as volume control, not as a loss. Each transformer tuned to  $\frac{1}{2}$  of 1 per cent. No matching of tubes, no adjustments to make. Peak at 88,000 cycles where there is no interference from harmonics.



- 3K4718**—No. 170 R. F. Transformer for 201A Tubes. List, \$7.00, Net, \$4.20  
**3K4710**—No. 171 R. F. Transformer for Dry Cell Tubes. List, \$7.00, Net, \$4.20  
**3K4720**—No. 160 Antenna Coupler. List, \$3.50, Net, \$2.10  
 Either type of tube. To use antenna and ground, as well as loop, this unit is necessary.  
**3K4721**—No. 150 Coupling Unit. List, \$5.50, Net, \$3.30  
 Fixed type, requires no adjustment. Works with any tube.

## Victoreen Manganin Rheostats and Potentiometers

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



- 3K4722**—2 ohm Rheostat } List, \$1.20  
**3K4723**—6 ohm Rheostat } Net, 72c  
**3K4724**—10 ohm Rheostat }  
**3K4726**—20 ohm Rheostat }  
**3K4727**—30 ohm Rheostat }  
**3K4728**—200 ohm Potentiometer } List, \$1.50  
**3K4729**—400 ohm Potentiometer } Net, 90c

Cat. No.	Quan.	List of Parts	List	Price	Net
<b>3K4739</b>	—1	Victoreen Master Control with 2 .0005 mf Var. Cond. ....	\$19.50	\$11.70	
<b>3K4718</b>	—1	Victoreen Inter. Trans. No. 170 .....	28.00	16.80	
<b>3K4740</b>	—1	Victoreen Audio Control Unit .....	4.50	2.70	
<b>3K4723</b>	—1	Victoreen 6 ohm Rheo. ....	1.20	.72	
<b>3K4722</b>	—1	Victoreen 2 ohm Rheo. ....	1.20	.72	
<b>3K4720</b>	—1	Victoreen No. 160 Antenna Couplers .....	3.50	2.10	
<b>3K4729</b>	—1	Victoreen 100 ohm Pot. ....	1.50	.90	
<b>3K4721</b>	—1	Victoreen No. 150 Osc. Coupler .....	5.50	3.30	
<b>3K512</b>	—1	.001 mf Fixed Cond. ....	.40	.24	
<b>3K505</b>	—1	1 mf cond. Dub. No. 907 .....	.80	.54	
<b>3K424</b>	—2	.00025 mf Grid Cond. with clip or 40c Dub. ....	.80	.48	
<b>3K3040</b>	—2	2-Megohm Grid Leaks @ 50c .....	1.00	.70	
<b>3K4733</b>	—1	Victoreen Audio Unit type 112 .....	22.00	13.20	
<b>3K4700</b>	—8	Prot. No. 530 Sockets @ 40c .....	3.20	1.92	
<b>3K5781</b>	—1	7x26 $\frac{1}{2}$ inch Lignole Panel, dec. and dr. ....	6.00	3.60	
<b>3K5782</b>	—1	Wooden Baseboard, 9 $\frac{1}{2}$ x24 $\frac{1}{2}$ in. ....	1.25	.69	
<b>3K710</b>	—1	Formica Strip, 6x $\frac{1}{2}$ x $\frac{1}{2}$ in. ....	.25	.16	
<b>3K711</b>	—1	Formica Strip, 5x $\frac{1}{2}$ x $\frac{1}{2}$ in. ....	.24	.15	
<b>3K2512</b>	—1	Carter Filament Switch .....	.65	.39	
<b>3K2439</b>	—1	Carter No. 6 Jack Switch .....	1.25	.75	
<b>3K793</b>	—10	13 $\frac{1}{2}$ Eng. Bind. Posts .....	1.50	1.20	
<b>3K1529</b>	—1	Jones Type BM Multi-plug .....	2.75	1.65	
<b>3K4146</b>	—1	National Type B Dial. ....	2.50	1.75	
<b>3K2101</b>	—50	ft. tinned copper wire .....	.65	.40	
<b>3K4013</b>	—1	plug. Kester Solder. ....	.25	.18	
<b>3K699</b>	—1	Miscellaneous Nuts, Lugs, Screws, etc. ....	.50	.30	
<b>3K1652</b>	—	Blueprints .....			
<b>3K373</b>	—	Complete set of parts for 201A tubes. List, \$110.99, Net, .....	\$66.75		
<b>3K374</b>	—	Complete set of parts for 193 type tubes. List, \$110.99, Net, .....	\$66.75		

Separate parts may be obtained under catalog number and price shown in above list. Shipping weight, 25 lbs.



Shows Appearance of the Attractive Front Panel of the Victoreen Super

## Victoreen Audio Units



- 3K4733**—No. 112. List, \$22.00, Net, \$13.20

Answers the need for a transformer unit that will give wider tonal limits with exceptional freedom from distortion. Many new measurements used to check the manufacture. A laboratory achievement of precision, without a peer.



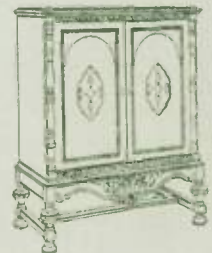
## The Stratford Console

This strikingly beautiful orthophonic type console has proven a favorite. It makes an ideal setting for the New Victoreen Super 8 receiver. It has a marvelous in built speaker that will ideally operate with the audio system of this splendid set. See page 113.



## The Monterey Console

A plain modern design console with an inbuilt speaker of fine tonal qualities. Worthy of the most finely furnished home and makes a perfect installation with the Victoreen Super 8. Complete description and details given on page 111.



## The Lombardia Console

A Lund creation of superior elegance. Its massive, majestic appearance make it a favorite with lovers of fine furniture. It makes a perfect console for the Victoreen Super 8 Receiver. See page 113.





### The Chelsea Console

Do not overlook the demand for special consoles for special receivers. Here is an Excello console in the favored Spanish design that makes a fine setting for the Tyrman Ten set. You will find it illustrated, described and priced on Page 111.



### The Canterbury Console

An old English period design produced by Pierson. In materials, workmanship and finish this line is not excelled. You will find quick acceptance of this splendid console as the perfect setting for the splendid Tyrman Ten receiver. See Page 108.

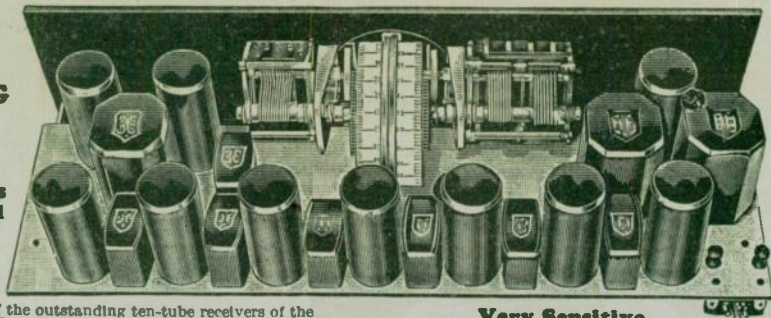


### The Tivoli Console

In magnificence and massiveness of appearance it would be difficult to imagine a finer console than this. It has a four door front richly carved. The base is especially tastefully designed. The Tyrman Ten perfectly fits into this fine console. See Page 113.

## ONE SPOT TUNING

As Specified in Citizens Radio Call Book



This is one of the outstanding ten-tube receivers of the 1928 season. Described in the September issue of the Citizens Radio Call Book. Each tube functions at full value of efficiency. This set is destined to put set building far ahead of the previous stages of development and constitutes an achievement of unceasing engineering progress.

### Great Selectivity and Tone

The Tyrman Ten is a receiver of great selectivity and unexcelled tone. The radio frequency transformers are matched to within a fraction of one per cent. They are designed for more amplification—better selectivity—stable operation. True Ten kilocycle separation of stations is maintained yet the design is such that the odd harmonics are all amplified properly. This property makes the reproduction pure and natural. To further the tone qualities, a new audio transformer has been designed. The program is amplified to life-like volume—all the notes, round, clear, and full—from the deepest organ bass to highest piccolo note. The amplification curve is ideal for reproduction no matter what speaker is employed to interpret the output.

### One Spot Tuning

The long sought advantage of one spot tuning has been accomplished in this receiver. A station is received at only one point on the dials. No bothersome harmonics and interference. The set is therefore more selective and is much easier to operate. One stage of radio frequency amplification is used before the first detector in order to better accomplish this and make the set suitable for use on an outside antenna. The set can therefore be used on an outside antenna without reradiation and the radio frequency stage makes it sharper than loop reception.

### Every Set Alike

Every set built is an exact duplicate of the laboratory model. This is assured by the use of ready drilled and engraved panel and subpanel and by use of a marvelous new piece of radio engineering, The Kurz-Kasch Capacity Connection. This device eliminates approximately 80% of the wiring and soldering. It also acts as a condenser between battery leads and eliminates all by-pass condensers. Its influence on the stability of the circuit is very pronounced. The amateur builder is assured of obtaining results equal to those of the laboratory model.



### Tyrman Vernier Drum Dial



An answer to the demand for better ear entrance plus superior performance. Gives both direct and vernier tuning. Can be used with any standard condensers. Beautiful eucalypton plate furnished. Distinct silver etched graduations. Perfect concentricity of drums and condenser shafts.

Absolutely no back lash. Shipping wt., 1 lb.  
**3K4178**—Single dial control. . . . . \$3.00  
 List, \$5.00. Net. . . . . \$3.00  
**3K4180**—Two-dial control sets. . . . . \$6.00  
 List, \$10.00. Net. . . . . \$6.00

### Tyrman Radio Frequency Transformer



A unit of a high standard of excellence and quality. Guaranteed matched to the fraction of a kilocycle. Terminals accommodate Kurz-Kasch Capacity Connector. Encased in molded bakelite. Shipping wt., 4 oz.  
**3K4181**—Type 8-70, 200 to 500 meters. List, \$4.00. Net. . . . . \$2.40  
**3K4182**—Type 8-71, 160 to 360 meters. List, \$4.00. Net. . . . . \$2.40  
**3K4183**—Type 8-80, long wave, 3,000,000 cycles. List, \$7.00. Net. . . . . \$4.20  
**3K4184**—Kurz-Kasch Capacity Connector for use with these Transformers. Shipping wt., 1½ lbs. List price, \$7.50. Net. . . . . \$4.50

### Very Sensitive

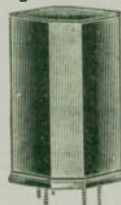
The Tyrman Ten has been tested under the most severe conditions, and has given remarkable performances. All fields are confined with their place of origin. All tubes are shielded by the new Tyrman shielded socket so that even intertube coupling is eliminated. The shield also keeps the tubes at the proper operating temperature for greater efficiency. Unsurpassed in beauty with the new Tyrman Drum control and the symmetric layout the set has unsurpassed beauty which you will be proud to exhibit to your friends.

The set is so simple to build that the most inexperienced builder can assemble it. Complete instructions are furnished with the kit.

### List of Parts

	List Price	Net Price
<b>3K4181</b> —2 Tyrman Type 8-70 R. F. Transformers. . . . .	\$8.00	\$4.80
<b>3K4182</b> —1 Tyrman Type 8-71 R. F. Transformer. . . . .	4.00	2.40
<b>3K4183</b> —4 Tyrman Type 8-80 R. F. Transformers. . . . .	28.00	16.80
<b>3K4185</b> —1 Tyrman Type 3-30 Audio Transformer. . . . .	8.00	4.80
<b>3K4186</b> —1 Tyrman Type 3-50 Input Transformer. . . . .	10.00	6.00
<b>3K4187</b> —1 Tyrman Type 3-51 Output Transformer. . . . .	10.00	6.00
<b>3K4180</b> —1 Tyrman Vernier Drum, double. . . . .	10.00	6.00
<b>*3K4188</b> —10 Tyrman Shielded Sockets. . . . .	12.50	7.50
<b>3K4184</b> —1 Kurz-Kasch Capacity Connector. . . . .	7.50	4.50
<b>*3K5698</b> —1 7x20" front panel Formica, and dec. . . . .	6.90	4.14
<b>*3K5699</b> —1 7x26 subpanel Formica. . . . .	6.20	3.72
<b>3K5719</b> —2 Benjamin brackets. . . . .	.70	.42
<b>3K758</b> —2 Carter 1 mfd. cond. . . . .	2.50	1.50
<b>3K757</b> —1 Carter ½ mfd. cond. . . . .	.90	.54
<b>3K752</b> —1 Carter .00025 cond. . . . .	.40	.24
<b>3K754</b> —1 Carter .001 Mica cond. . . . .	.50	.30
<b>3K1532</b> —1 Yaxley No. 660 Cable connector, complete. . . . .	3.00	1.80
<b>3K3144</b> —1 Lynch 3 meg. res. . . . .	.50	.33
<b>3K3205</b> —1 Lynch res. mtg. . . . .	.35	.24
<b>3K3263</b> —1 Filament res. Yaxley 1½ amp. 5 volts. . . . .	.15	.10
<b>3K3262</b> —1 Fila. Resist. Yaxley 1½ amp. 5 volts. . . . .	.15	.10
<b>3K4424</b> —1 Yaxley 200 Pot. . . . .	1.75	1.05
<b>3K3264</b> —1 Yaxley Grid Resistance No. 7200, 200 ohms 1½ Hammarlund 50 mmf. . . . .	.25	.15
<b>3K3337</b> —1 Midget condenser. . . . .	1.80	1.20
<b>3K4439</b> —1 Yaxley 25 ohm Rheostat with switch. . . . .	1.75	1.05
<b>3K748</b> —2 Binding Posts—Ethy. . . . .	.30	.20
<b>3K4067</b> —1 Camfield .00035 variable condenser. . . . .	5.75	3.45
<b>3K4069</b> —1 Camfield .00035 Two-gang condenser. . . . .	10.50	6.30
<b>*3K698</b> —Miscellaneous screws. . . . .	.60	.39
<b>*3K1655</b> —1 Set Blueprints. . . . .	1.50	.90
<b>*3K376</b> —Comp. set of parts, List 144.45 Net Shipping Weight, 28 lbs. . . . .		\$84.95

### Tyrman Audio Transformers



Unique in design. Large, heavy core and amplify uniformly on the lowest audible frequencies. Perfect tone beyond the limits heretofore expected. Types 3-50 and 3-51 especially for use with UX-112 and UX-171. Ship. wt., 3 lbs.  
**3K4185**—3-30 ratio 3 to 1. List, \$8.00. Net. . . . . \$4.80  
**3K4186**—3-50-Power input transformer for second audio stage. List, \$10.00. Net. . . . . \$6.00  
**3K4187**—3-51 Power output transformer for second audio stage. List, \$10.00. Net. . . . . \$6.00

### Tyrman Shielded Socket



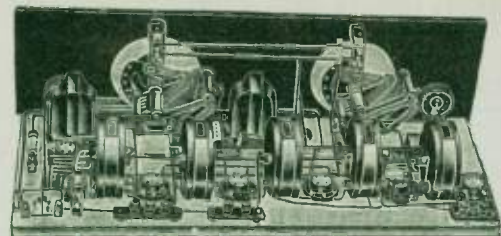
A single hole, subpanel or baseboard mounting socket. Entirely shields tube, preventing stray fields from affecting its operation. Shielding of aluminum, best heat radiator obtainable, keeping temperature of tube constant. Ship. wt. 4 oz.  
**3K4188**—List, \$1.25. Net. . . . . 75c



# St. James Upright Eight Receiver

The new Upright Eight, as specified in Citizens Radio Call Book, was designed for mounting in an automobile. It is an ideal set for the motorist, for it is always with him, ready to entertain at the turn of a switch. The eight tube circuit, using St. James transformers in the radio frequency stages and Silver Marshall in the audio end, is very efficient and will give distant reception on a small loop, even under adverse conditions. Perfect reproduction and extreme selectivity combined.

Can be assembled by anyone in a short time. Extremely simple when following the instructions and blueprints included with kit. Shipping weight, 20 lbs.  
**3K341**—Complete, as specified in Citizens Call Book.  
 List, \$82.91. Net.....\$50.18



List of Parts

		Price	
		List	Net
<b>3K358</b>	—(1) set of 5 Madison-Moore Units.....	\$55.00	\$33.00
<b>3K1826</b>	—(1) Karas .00035 mf. var. cond.....	7.00	4.20
<b>3K1824</b>	—(1) Karas .00025 mf. var. cond.....	6.50	3.90
<b>3K1434</b>	—(2) Marco Illuminated Dials @ \$3.50.....	7.00	4.00
<b>3K1222</b>	—(2) Karas Harmonic Trans. @ 5.00.....	10.00	6.00
<b>3K4403</b>	—(1) Frost 10 ohm Rheo.....	.75	.45
<b>3K4404</b>	—(1) Frost 20 ohm Rheo.....	.75	.45
<b>3K2515</b>	—(1) Frost Filament switch.....	.30	.19
<b>3K3218</b>	—(4) type 4 Elkey Equalizers with mtg.....	.75	.48

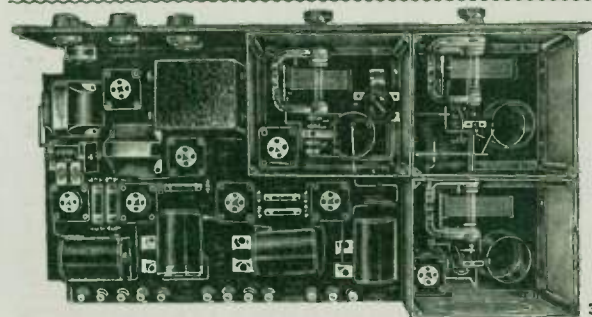
The Madison-Moore AC Receiver. Always first with the latest for our dealers.

When announced in the Magazines we will have in stock the new Madison-Moore AC Receiver. You are invited to write for prices.

## Madison-Moore Transformers

Made and tested with great precision. From Canada to Mexico and from the Atlantic to the Pacific is their unrestricted range. Extremely selective. No difficulty in tuning out powerful locals and bringing in the distant stations. Excellent tonal reproduction. Registers every tone perfectly. Covers waves from 200 to 600 meters with .0005 condenser. Air core type mounted in nickel plated brass case. Matched in sets of five transformers. Shpg. wt., 3 lbs.

**3K358**—List, \$55.00. Net.....\$33.00



Parts for Strobodine

Cat. No.	Quan.	Description	List	Net
<b>3K3322</b>	3	Hammurlund Midline Condensers .00035 mf. @ \$5.25.....	\$15.75	\$ 9.45
<b>3K3351</b>	1	Set Hammurlund Strobodine Coils @ \$3.50.....	10.00	6.00
<b>3K3352</b>	1	No. 10 Hammurlund Shield.....	2.00	1.20
<b>3K3353</b>	2	No. 2 Hammurlund Shields @ \$2.00.....	4.00	2.60
<b>3K3307</b>	2	Hammurlund Equalizing Condensers @ 50c.....	1.00	.60
<b>3K3354</b>	1	Brass Shaft 10 1/4 in. long.....	.25	.15
<b>3K4323</b>	2	Samson Synphonie Transformers @ \$10.00.....	20.00	13.00
<b>3K4331</b>	1	Samson No. 85 R. F. Choke.....	2.00	1.30
<b>3K3355</b>	4	Lacault Type F. R. F. Units @ \$1.50.....	18.00	11.70
<b>3K3356</b>	5	Lacault Fixed Matched Condensers @ 50c.....	1.55	1.00
<b>3K5787</b>	1	Micarta 8 in. x 21 in. x 3/4 in. Drilled and Engraved Panel.....	6.50	4.23
<b>3K5788</b>	1	Micarta 12x25 1/4 in. Drilled Sub-Panel.....	13.50	8.78
<b>3K3357</b>	1	Intermediate Output Filter.....	6.50	3.90

# St. James Transformers



The St. James transformers are sealed in a vacuum in a glass bulb, so that the atmosphere cannot affect them in any way. They have been tested by Captain Adams of the U. S. Signal Corps in all climates and adverse conditions, such as in the tropics and aboard ships. The report is outstanding performance in distance-getting qualities and the ability to go through static conditions. Their true form inductances are loss free, and of very small size, preventing interstage coupling and outside pick-up. They operate on 250 kilocycles, giving pure r. f. amplification and a minimum of repeats. Matched as accurately and tuned so sharply no filter stage is needed.

**3K2729**—Intermediate Frequency Transformer.  
 List, \$7.50. Net.....\$4.50  
**3K2730**—Oscillator Coupler. List, \$5.00. Net.....3.00  
**3K2731**—Choke Coll. List, \$1.50. Net......90

## Madison-Moore 8 Tube Super As Specified in Citizen's Radio Call Book

The Madison-Moore incorporates the latest development in Super-Heterodyne circuits. It is built around the new transformers which are more wonderful than the previous Madison-Moore's. They give positive selectivity at any point on the dial and in addition higher quality and greater distance. Thus the frequent occurrence of the high heat of one local station interfering with another station is eliminated. No harmonics of any kind. Renowned for extreme clarity and tone reproduction.

Very easy to wire and assemble by the most inexperienced constructor. It is very simple to properly balance the loop and oscillator circuits so that high selectivity and easy tuning are obtained.

<b>3K3219</b>	—(1) type 2 Elkey Equalizers with mtg.....	\$0.75	\$0.48
<b>3K3220</b>	—(1) type 4/3 Elkey Equalizer with mts.....	.75	.48
<b>3K3038</b>	—(1) Durham 2 meg. grid leak.....	.50	.30
<b>3K462</b>	—(1) Tobe .00025 mf. fix. cond.....	.35	.22
<b>3K458</b>	—(1) Tobe .005 mf. fix. Cond. @ 90c.....	.90	.55
<b>3K4903</b>	—(1) Tobe 1 mf. By-Pass cond. @ 90c.....	1.80	1.08
<b>3K2903</b>	—(1) Grid leak mounting, Daven.....	.35	.24
<b>3K1532</b>	—(1) Yazley Cable Connector.....	3.00	1.80
<b>3K629</b>	—(7) Eby Engraved Blind. Posts @ 15c.....	1.05	.70
<b>3K4619</b>	—(8) U sockets—Benjamin @ 75c.....	6.00	3.60
<b>3K5209</b>	—(1) 7x26 3/4 in. Dr. and Eng. fr. pan.....	6.00	3.90
<b>3K712</b>	—(1) Tormica Terminal strip, 3 hole.....	.25	.15
<b>3K713</b>	—(2) Formica Terminal strip, 2 hole.....	.40	.26
<b>3K5221</b>	—(1) 10 1/4x25 1/4 wooden base board.....	1.00	.60
<b>3K1646</b>	—(1) Set Blueprints and Instructions.....	1.40	.91
<b>3K699</b>	—(1) Miscellaneous Lugs, Screws, etc.....	.50	.30
<b>3K2101</b>	—60 ft. Tinned Copper Wire.....	.80	.48
<b>3K339</b>	—Complete. List, \$113.40.....		\$68.63

Net ..... Shipping wt., 25 lbs.

## New Madison-Moore A. C. Transformers

When announced in the radio magazines we will have in stock the new Madison-Moore AC Transformers of the celebrated One Spot type. Buy them in matched sets and build a batteryless Super that will operate direct from the electric light socket. Same characteristics as the original One Spot Transformers. Shpg. wt., 3 lbs.

**3K324**—List, \$55.00. Net.....\$33.00

## 8 Tube Strobodine

The Greatest Circuit of the Year by Radio News Laboratories

A new circuit—not an adaptation of an old type. Designed by Lucien Clouston, sponsored in America by R. E. Lacault and RADIO NEWS. Superheterodyne type with entirely new frequency changer, operating on a new principle. Unexcelled for distance, with great selectivity. Outperforms best superheterodyne of today. Remarkable sensitivity. Stations come in at but one point of the dials. Tremendous volume, with no distortion.

With this set, WGY heard in France on loop antenna one foot square. DX of 1,500 to 2,000 miles obtained consistently from the heart of New York's broadcast area. Fading and interference unknown quantities with this set.

Easily constructed by following directions included with kit, and the home-builder can easily duplicate the results cited here.

<b>3K3449</b>	1	Cardwell Balanced Type 618-A .000035 mf. ....	\$2.25	\$ 1.35
<b>3K656</b>	3	Carter M-20, 20 ohm Rheostats @ 50c.....	1.50	.90
<b>3K659</b>	1	Carter M-400, 400 ohm Midgel Potentiometer.....	.75	.45
<b>3K2429</b>	1	Carter No. 1 Open Circuit Short Jack.....	.25	.15
<b>3K2430</b>	1	Carter No. 2A Short Jack Closed Circuit.....	.30	.18
<b>3K2512</b>	1	Carter Imp. Battery Switch.....	.65	.39
<b>3K504</b>	4	Dubiller .5 mf. By-Pass Condensers @ 75c.....	3.00	1.80
<b>3K513</b>	1	Dubiller .002 mf. Fixed Condenser No. 601.....	.40	.24
<b>3K4619</b>	8	Benjamin No. 9040 Sockets @ 75c.....	6.00	3.60
<b>3K3233</b>	1	Electrad Type B Royalty Variable Resistance.....	1.50	.97
<b>3K3207</b>	4	Amperites Type 1A @ \$1.10.....	4.40	2.64
<b>3K3210</b>	1	Amperite Type 112.....	1.10	.66
<b>3K4147</b>	2	National Type B Dials @ \$2.50.....	5.00	3.00
<b>3K1647</b>	1	Blueprint and Instructions.....	1.75	1.14
<b>3K698</b>	1	Miscellaneous Lugs, Screws, Nuts.....	.65	.39
<b>3K340</b>	—Complete set of parts. List, \$130.55.....			\$81.77

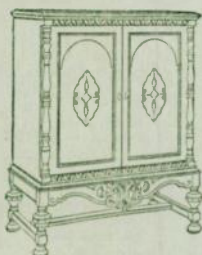
Net ..... Shipping weight, 25 lbs.





## The Tivoli Console

Surely this wonder 14-tube set deserves installation in a fine cabinet. No better choice could be made than this stately Spanish design console by Lund. Made of the finest materials and richly finished. For full details, see page 113.



## The Lombard Console

Here is another Lund Console in a design that has quickly become very popular. It has one of the most beautiful grille fronts of any cabinet you have ever seen. For complete description and listing, see page 113.



## The Stratford Console

Suitable either for the Melo-Heald Fourteen or the Loftin-White Receiver. Of the orthophonic style, incorporating a huge horn that brings to the receiver the proper reproducing qualities. One of the finest consoles made. See page 113.

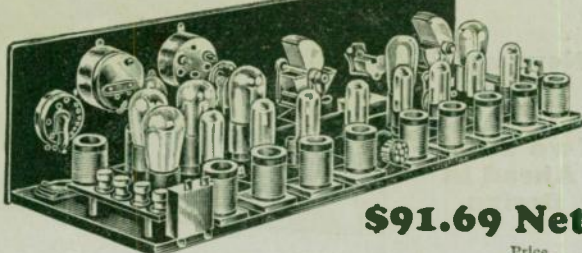
# Famous Melo-Heald Hot-Spot Fourteen True One-Spot Tuning As Specified by Citizens Radio Call Book

A new circuit by Melo-Heald using the famous Melocouplers and Meloformers. 14 tubes consisting of: Oscillator, Two Detectors, 8 Intermediate Stages and 3 Audio Stages. True Single Spot tuning—no oscillator repeats. Tuning so simple anyone can operate it—like a single stage. Same mixing system as the famous Melo-Heald Eleven. Each intermediate transformer designed specifically for its purpose—Air core, peaked, wound and tested at the same point of efficiency, making kits unnecessary. Famous Meloformers in audio stages give 3 stages of ideal audio amplification, rendering beautiful reproduction with no distortion.

Battery consumption very economical—filament current, 2 amps.; plate current, 35 mls.—less than most 7 and 8 tube sets. Plenty of reserve power. Distant stations tuned in with ease from the heart of Chicago's congested broadcast area—24 stations, including K-F, WJZ, all outside of Chicago, in two and one-half hours. No interference from station on next channel. The supreme set for use in crowded air districts.

Instructions furnished make it easy to build and it is so designed that anyone can obtain the proper results.

No.	Quan.	List	Price	Net
3K1240	1	Melocoupler No. 420.....	\$ 5.75	\$ 3.45
3K1241	1	Melocoupler No. 460.....	5.25	3.13
3K1242	1	Melocoupler No. 461.....	6.00	3.60
3K1243	1	Melocoupler No. 462.....	6.00	3.60
3K1244	1	Melocoupler No. 463.....	6.00	3.60
3K1245	1	Melocoupler No. 464.....	6.00	3.60
3K1246	1	Melocoupler No. 465.....	6.00	3.60
3K1247	1	Melocoupler No. 466.....	6.00	3.60
3K1248	1	Melocoupler No. 467.....	6.00	3.60
3K1249	1	Melocoupler No. 468.....	6.00	3.60
3K1250	1	Melocoupler No. 469.....	6.00	3.60
3K1251	1	Melocoupler No. 470.....	1.50	.90
3K1252	3	Multistage Meloformers @ \$5.00.....	15.00	9.00



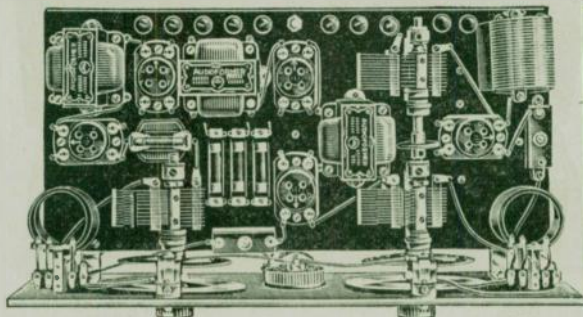
**\$91.69 Net**

No.	Quan.	List	Price	Net
3K4619	14	Benjamin Sockets @ 75c.....	\$10.50	\$ 6.30
3K1529	1	Jones Cable Plug, Type BM.....	.75	1.65
3K688	8	XL Binding Posts.....	1.20	.80
3K568	2	Tobe .006 mf. Fixed Condensers.....	1.70	1.02
3K561	1	Sangamo .00025 mf. Grid Cond.....	.50	.30
3K432	5	Sangamo 1 mf. By-Pass Cond. @ \$1.25.....	6.25	3.75
3K2916	1	Daven 5 meg. Glaser.....	.50	.30
3K3227	1	Yaxley 4 ohm Fixed Resistance.....	.15	.10
3K3215	1	Yaxley 3 ohm Semi-Fixed Dbl. Arm Res.....	.15	.10
3K3229	1	Yaxley 6 ohm Resistance.....	.15	.10
3K4426	1	Yaxley 400 ohm Potentiometer.....	1.35	.81
3K4446	1	Yaxley 3 ohm Rheostat.....	1.35	.81
3K3321	2	Hammarlund .0005 mf. Midline Var. Cond. @ \$5.00.....	10.00	6.00
3K1400	2	Kurz-Kasch Dials @ \$2.00.....	4.00	2.40
3K3860	1	Frost 200,000 ohm Pot. Sw.....	2.10	1.26
3K1906	1	Jewell 0-7½-150 Voltmeter.....	8.50	5.53
3K1913	1	Jewell 0-100 Milliammeter.....	7.00	4.55
3K5797	1	Formica 7x30x¾ Dr. & En. Pl. Base.....	7.60	4.94
3K5687	1	10x29x½ in. Wood Base board.....	1.25	.70
3K4013	1	Pkg. Keester Radio Solder.....	.25	.18
3K699	1	Misc. Nuts, Screws, Lugs, etc.....	.50	.30
3K1658	1	Set Blueprints and Instructions.....	1.40	.91
3K343		Complete set of parts. List Price, \$150.65, Net.....		<b>\$91.69</b>

## The Loftin-White Receiver

**Constant  
Coupling  
Receiver  
As Specified in  
Radio News**

**\$54.27  
Net**



No.	Quan.	List	Price	Net
3K3739	1	Pacent Foundation Unit.....	\$ 6.00	\$ 3.60
3K4403	1	Frost 10 ohm Rheostat.....	.75	.45
3K4630	5	Pacent No. 83 Tuning Sockets.....	3.25	2.10
3K1314	2	Pacent Input Superaudioformer.....	15.00	9.74
3K1310	1	Pacent Output Superaudioformer.....	7.50	4.87
3K3738	1	Set Hammarlund L-W. Coils.....	10.00	6.00
3K3321	3	Hammarlund .0005 MF Midline Condensers @ \$5.50.....	16.50	9.90
3K2508	1	Yaxley Midget Battery Switch.....	.50	.30
3K2501	1	Yaxley No. 704 Interstage Jr. Jack.....	.75	.45
3K1434	2	Marco Illum. Dials No. 200-0-100.....	7.00	4.20
3K689	12	Eby Binding Posts, Engraved.....	1.80	1.20
3K3103	2	X-L Variometers, G-5 @ \$1.50.....	3.00	1.96
3K3210	1	No. 112 Amperite.....	1.10	.66
3K3207	2	No. 1A Amperites.....	2.20	1.32
3K447	1	Sangamo Kit—Special Tested Cond. 2—.004 5% mfd. Sangamo Cond.....	1.80	1.26
		1—.004 Sangamo Condenser.....	.60	.42
		1—.001 Sangamo Condenser.....	.50	.35
		1—.00025 Sangamo Condenser.....	.50	.35
3K3040	1	2 megohm Resistor.....	.60	.42
3K5688	1	Front Panel, 8x17, Dr. and Eng.....	3.25	2.12
3K5689	1	Sub-Panel, Drilled.....	4.00	2.60
3K344		Complete set of parts. List Price, \$86.60, Net.....		<b>\$54.27</b>

Shipping weight, 25 lbs.

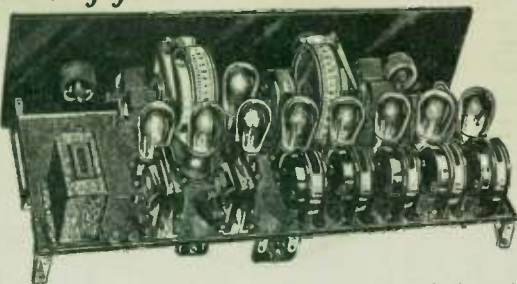


# Magnaformer 9-8 A New Radio Thrill

Commander-in-chief of the Air

New and Novel

Two Years Ahead in Design



As Specified in Citizens Radio Call Book

\$80.39 Net

The new Magnaformer Circuit incorporates the most advanced design in radio quality and performance. Uses new Magnaformer Intermediate transformers with self-enclosed, factory fixed and 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 (pat.).

No.	Quan.	List	Net
3K5666	1	Formica 7x2 1/2 x 3 1/4 in. Dr. and Eng. Panel.....	\$ 6.50 \$ 4.23
3K5667	1	Formica 4 x 2 1/2 x 3 1/4 in. Drilled Sub-Panel.....	6.50 4.23
3K1236	5	Magnaformer Intermediate Trans. @ \$8.50.....	42.50 25.50
3K1237	1	Uncoupler, 1 1/2 No. 71.....	6.50 3.90
3K4167	1	Remler Mid Dial.....	4.50 2.70
3K4166	1	Remler Universal Drum Dials No. 110.....	4.50 2.70
3K4154	2	Remler .0005 mfd. Variable Cond. @ \$5.00.....	10.00 6.00
3K4108	8	Benjamin UX Sockets @ 50c.....	4.50 2.70
3K4117	1	Pair—Benjamin Brackets.....	.70 .42
3K1344	2	Ferranti Audio Frequency Trans. @ \$3.50.....	17.00 10.20
3K4173	1	National Tone Filter.....	8.00 5.20
3K4331	1	Samson Radio Frequency Choke No. 85.....	2.00 1.30
3K561	2	Sangamo .00025 mf. Grid Cond. with By-Pass Cond.....	1.00 .65
3K432	1	Tone mfd. By-Pass Cond.....	.90 .54
3K3040	2	Burlum 2 megohm Grid Leaks @ 50c.....	1.00 .70
3K4418	1	Frost DeLuxe 400 ohm Potentiometer.....	1.25 .75

prevents speaker blasting; retains constant quality. Uses 7 UX201A unmatched tubes, UX112 in first stage, UX171 in second stage. Instant change from 9 to 8 tubes. Very sensitive. As many as 43 stations from coast to coast and foreign countries logged in one night in Chicago's congested broadcast area. Can be built very easily by the most inexperienced set builder. Instructions included.

No.	Quan.	List	Net
3K3294	1	Frost DeLuxe 10 ohm Rheostat with Switch.....	\$ 1.35 \$ 0.81
3K4412	1	Frost DeLuxe 10 ohm Rheostat.....	1.00 .60
3K4414	1	Frost DeLuxe 30 ohm Rheostat.....	1.00 .60
3K2441	2	Pair—Frost Tip Jacks @ 30c.....	.60 .36
3K3210	2	Amperites No. 112 @ \$1.10.....	2.20 1.32
3K1532	1	Yaxley Cable Con. No. 660.....	3.00 1.80
3K3295	1	Yaxley Jack Switch No. 60.....	1.25 .75
3K2106	2	Coils, Acme Celastite Wire @ 80c.....	1.60 .96
3K4013	1	Package—Kester Radio Solder.....	.25 .18
3K698		Miscellaneous Lugs, Screws, Nuts, etc.....	.65 .39
3K1662	1	Set Blueprints.....	1.50 .90

3K356—Complete set of parts. List, \$80.39 Price \$131.75, Net

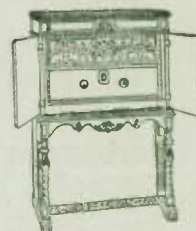
Shipping weight, 25 lbs.

Magnaformer Long Wave Transformer



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—very sound clear and distinct. Peak at 72 K. C.

Scientifically shielded. Will not oscillate. No fuses, no squeals or squawks. Coils and condenser are fixed, sealed and shielded separately. Cannot vary. Shipping weight, 1 lb. 3K1236—No. R. F. 61 Magnaformer. Size, 3 1/2 x 3 1/4 x 1 1/2 in. List, \$8.50, Net, ea. \$5.10 3K1237—No. C.U.71 Uncoupler. Size, 3 1/4 x 3 1/4 x 1 1/2 in. List, \$6.50, Net, each.....\$3.90



Canterbury Console

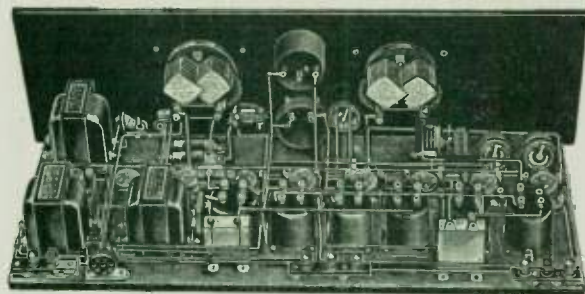
Complete illustration, description and price of this fine console is shown on page 108.

Lincoln Transformers



The construction of these transformers makes a set operate with a peculiar efficient performance of its own. Each stage operates at a different harmonic of the fundamental frequency, making the intermediate amplifier its own filter. This with the air core gives a high degree of selectivity. No stray fields—no squeals or noises. 3K1238—Nine Ensembles—5 Transformers and Coupler. List, \$42.00, Net.....\$30.00 3K1239—Eight Ensembles—4 Transformers and Coupler. List, \$50.00, Net.....\$18.00

## The Best—Lincoln Super Receiver



As Specified in Citizens Radio Call Book

A nine tube set of very high quality. Intermediate transformers are long-wave, low resistance air core transformers that are free from interaction oscillations without shielding. Thus when tuning there are no squeals or howls. Slides into signal and volume is only adjustment needed. Selectivity is perfect. No interference from adjoining channel even though station is local and of high power. The use of Thordarson R-200 transformers assures perfect reproduction of all frequencies in the audio stages.

Very easy to build by following instructions included in kit. Anyone can build it with the perfectly matched parts supplied.

No.	Quan.	List	Net
3K4154	2	Remler .0005 mf. Var. Cond. No. 84 @ \$5.00.....	\$10.00 \$ 6.00
3K4619	9	Benjamin Sockets 9010 @ 75c.....	6.75 4.41
3K566	2	Cartier Midset 20 ohm Rheo. @ 50c.....	1.00 .62
3K3539	1	Cartier Midset 3 ohm Rheo.....	.50 .31
3K3243	1	CRL 50,000 ohm Var. Res.....	2.00 1.30
3K2410	1	Yaxley closed circuit Jack.....	.50 .30
3K2409	1	Yaxley open circuit Jack.....	.50 .30
3K2508	1	Yaxley filament Switch.....	.50 .30
3K1904	1	Jewell 0-50 Milliammeter-Pat-135.....	7.00 4.55
3K1401	2	Kurz-Kasch Aristocrat Dial—walnut @ \$2.00.....	4.00 2.40
3K1529	1	Jones B. Mt. Multiplug.....	2.75 1.65
3K1238	1	Lincoln Oscillator Coupler.....	42.00 25.20
3K496	1	Lincoln Intermediate Transformers.....	
3K496	1	Sangamo .0025 mf. fixed Cond.....	.50 .33
3K432	2	Tone 1 mf. By-Pass Cond. @ 90c.....	1.80 1.08
3K560	1	Sangamo .0005 mf. Grid Cond.....	.40 .26

No.	Quan.	List	Net
3K446	1	Pair Grid Leak Clips.....	\$ 0.10 \$ 0.07
3K684	8	E by Engraved Blinding Posts.....	1.20 .80
3K1216	2	Thordarson R-200 Audio Transformers.....	8.00 4.80
3K1254	1	Thordarson R-70 Output Transformer.....	6.00 3.60
3K3337	1	Hammamham Midset Cond. Micarta 7x2 1/2 x 3 1/4 in. Dr. and Engr. Panel.....	1.80 1.08
3K5644	1	9x2 1/2 x 3 1/4 Wood Baseboard.....	.80 .49
3K4013	1	pkg. Kester, Radio Solder.....	.25 .18
3K2108	1	pkg. Acme Celastite Wire.....	1.00 .65
3K712	1	3x 1/4 x 3/8 Terminal Strip (2 hole).....	.25 .14
3K713	1	2 1/2 x 3/8 Terminal Strip (2 hole).....	.23 .13
3K711	1	3x 1/4 x 3/8 Terminal Strip (4 hole).....	.25 .15
3K765	1	3 megohm Grid Leak—Tone.....	.50 .30
3K3210	2	112 Amperites @ \$1.10.....	2.20 1.32
3K685	1	Set Blueprints and Instructions.....	1.40 .84
3K698	1	Miscellaneous lugs, nuts, screws, etc.....	.50 .30

3K357—Complete set of parts. List, \$67.48 Price, \$110.38, Net

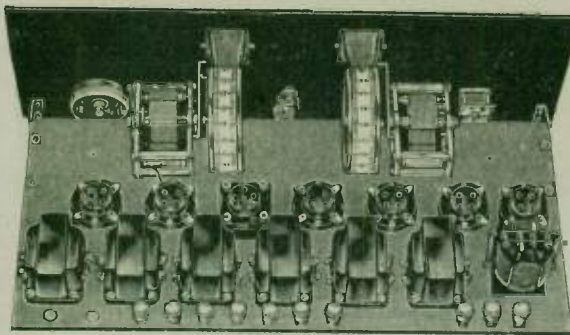
Shipping weight, 25 lbs.



# The Thomson Super Seven Receiver

**\$47<sup>95</sup>**

**Complete Parts**



The Thompson Super Seven is a highly efficient Super Heterodyne receiver that will satisfy the most critical for both distance and tonal quality. It was designed by the chief Engineers of several prominent parts manufacturers and incorporates all the latest ideas for a fine receiver.

In all seven tubes are used, but they all work at maximum efficiency, giving the equal of a 9 or 10 tube set of ordinary design. The stages are as follows: oscillator, first detector, 2 stages intermediate frequency amplification, second detector, 2 stages of audio frequency.

The famous Halldorson transformers, noted for their tonal qualities, are used throughout.

3,000 miles consistent reception in congested broadcast area is accomplished regularly with this set.

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

## List of Parts

	List	Net
3K1235-2 Halldorson Iron Core No. 540 Trans.		
at \$6.00	\$12.00	\$7.20
3K1234-1 Halldorson No. 541 Filter Trans.	6.00	3.60
3K1232-2 Halldorson Overtone Audio Trans. at \$6.00	12.00	7.20
3K1233-1 Halldorson Overtone Output Trans.	6.00	3.60
3K4802-2 Silver-Marshall Drum Dials No. 805 at \$3.00	6.00	3.60
3K3628-1 Ellis Oscillator Coupler	3.00	1.80
3K4817-6 Silver-Marshall Tube Sockets at 50c.	3.00	1.85
3K4619-1 Benjamin X Socket	.75	.45
3K4828-1 Silver-Marshall No. 340 Midget Condenser	1.50	.90
3K4070-2 Camfield .0005 mf. Cond. at \$6.00	12.00	7.20
3K2508-1 Yaxley Filament Switch	.50	.30
3K4451-2 Yaxley Tapp Jacks	.25	.15
3K459-1 Tube .006 Condenser	.45	.28

	List	Net
3K4332-1 Tobe 1 mf. Condenser	1.25	\$0.75
3K455-1 Tobe .002 Condenser	.40	.25
3K3259-1 Yaxley 2L resistance	.15	.10
3K3260-1 Yaxley 5L resistance	.15	.10
3K4423-1 Yaxley 30 ohm Rheo.	1.35	.81
3K6668-1 Micaarta 7x21 Panel Dr. and Eng.	3.40	2.21
3K5669-1 Micaarta 9x20 Su panel Dr. and Eng.	4.95	3.22
3K3144-1 Lynch 3 mag. grid leak	.50	.33
3K3205-1 Lynch Mounting	.35	.24
3K491-1 Tobe .0025 Condenser	.40	.26
3K454-1 Tobe .001 Condenser	.40	.24
3K2200-1 pkg. Belden Colormaker Wires	.40	.24
3K794-10 LX Spring Binding Posts	1.50	.90
3K698-1 Miscellaneous Lugs, Screws, etc.	.65	.39

3K377-Complete set of parts. List price, \$79.30, Net **\$47.95**  
Shipping weight, 20 lbs.

## Halldorson Transformers

These transformers are the result of many years of research in transformer design and acoustics. The overtone audio has a practically straight line amplification up to 3,000 cycles where it drops rapidly, preventing tube noise and audio frequency regeneration. Amplifies the low notes and overtones with a richness that is astounding. Encased in a beautiful brown polished bakelite case. Made in one type for all circuits and all tubes. Shipping



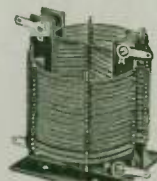
weight, 1 lb.

3K1232 Overtone Audio Transformer. List, \$6.00, Net, \$3.60	
3K1233 Overtone Output Transformer. List, \$6.00, Net, \$3.60	
3K1234 Precision Filter Transformer. List, \$6.00, Net, \$3.60	
3K1235 Precision Intermediate Long Wave Transformer. List, \$6.00, Net, \$3.60	

## Ellis "D" Coils

The Ellis "D" coils are the result of four years of intensive research and development. They are as low as it is possible to make them. Air insulation and spaced winding. They are superior because they have super volume; no interstage coupling; matchless tone; freedom from pick-up; unexcelled selectivity; low radio frequency resistance; low distributed capacity. Supports of bakelite. Packed in kits of 3, 4 or 5 coils, as desired, at a list price of \$2.50 per coil.

3K3626-For .00035 Condenser. List price, per Coil, \$2.50, Net, \$1.50	
3K3627-For .0005 Condenser. List, per Coil, \$2.50, Net, \$1.50	
3K3628-Oscillator Coil for Supers for .0005 m. f. Condenser. List, \$3.00, Net, \$1.80	



## Aero Transmitter Kit



A universal transmitter designed by Mr. F. J. Macco, noted short wave expert. Covers amateur bands with interchangeable coils. Uses tuned-grid tuned-plate circuit. Extremely flexible. Makes a very efficient low power, long distance. Has worked all districts from Chicago and New York regularly using only a 201-A tube. May be used with tubes not larger than 7 1/2 watts. Supplied for two different ranges. If to be used with AC filament supply specify so AC voltmeter will be supplied.

## List of Parts

	List	Net
1 Aero Transmitter Kit, 2040K, 4080K, or 9018K with 2 mounting bases and 2 No. 248 choke coils	\$12.00	\$7.20
3K1826-3 .0003 Variable Condensers, Karam	16.50	9.90
3K1435-3 Dials at 60c.	1.80	.87
3K4584-1 Carter T. P. 10000-25 resistance	.85	.51
3K751-2 Carter .0001 Mica Condensers at 40c.	.80	.48
3K752-2 Carter .00025 Mica Condensers at 40c.	.80	.48
3K4817-1 Silver-Marshall UX Socket	.50	.30
3K701-7 Binding Posts at 5c.	.35	.18
3K5295-1 Micaarta 7x18 Panel	1.96	1.28
3K5670-1 Micaarta 10x18 Sub-Panel	2.70	1.76
3K2101-10 lengths No. 14 Tinned Copper Wire	.25	.16
3K698-1 Miscellaneous Screws, Lugs, Nuts, etc.	.65	.39
3K3535-1 pair Aero Subpanel Brackets	.70	.42

(This Kit does not include Meters.)  
3K378-For 16.5 to 52 Meters, 2040K coils.  
3K379-For 36 to 90 Meters, 4091K coils.  
3K380-For 72 to 190 Meters, 9018K coils.  
Complete set of parts. List, \$39.86, Net, **\$23.93**  
Shipping weight, 15 lbs.

## Aero Short Wave Converter

Tremendous interest has been displayed in short wave reception. Therefore this converter was designed to make your present receiver a short wave set. An old tube base may be used as a plug and the converter is simply plugged into the detector tube socket of your receiver so that you can have either short or long wave reception at will. Employs one UX 201 A tube.

## List of Parts

	List	Net
3K3522-1 LVT 125 Aero Short Wave Tuner Kit	\$12.50	\$7.50
3K3469-1 Ameco .00025 Cond.	3.00	1.80
3K3468-1 Ameco .00014 Cond.	2.75	1.45
3K1062-1 Aero C-60 Choke	1.50	.90
3K751-1 Carter .0001 mf. Cond. with Clip	.30	.30
3K766-1 Tobe Tipex 3 mag. Grid Leak	.30	.30
3K4619-1 Benjamin Socket	.75	.45
3K4471-1 Yaxley 25 ohm Rheostat	1.35	.81
3K4146-2 National Type "B" Dials	5.00	3.00
3K6296-1 Telixia Westinghouse Micaarta Panel	1.53	.99
3K5297-1 Telixia Westinghouse Micaarta Panel	2.13	1.38
3K3535-1 Pair Aero Subpanel Brackets	.70	.42
3K2101-5 lengths No. 14 Bus Wire	.15	.08
3K698-1 Miscellaneous Lugs, Screws, etc.	.65	.39

3K381-Complete set of parts. List, \$33.01, Net, **\$20.02**

## Aero Coil Transmitters with Meters

These kits are exactly the same as the above except they have in addition 10x18 1/2 panel, 1 0-100 D. C. Jewell Milliammeter; 1 0-10 Jewell Voltmeter and 1 0-1 Ampere Jewell Antenna Meter. Specify whether to be used on AC or DC filament supply. Shpg. wt., 22 lbs.

3K382-16.5 to 52 meters.	
3K383-36 to 90 meters.	
3K384-72 to 190 meters.	
List, each, \$67.60, Net, <b>\$44.67</b>	

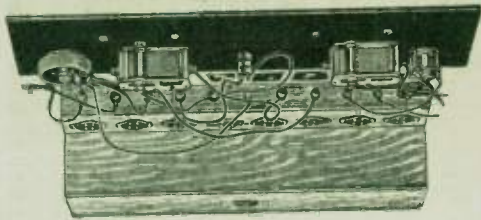
## Transmitter Coils

3K3629-.0040C 16.5 to 52 meter coil.	List, Each, \$4.00.
3K3630-.0010C 36 to 90 meter coil.	Net, \$2.40
3K3631-.0010C 72 to 190 meter coil.	
3K3632-100 300 Antenna Mounting Base.	List, \$3.00, Net, \$1.80
3K3633-GRID-100 Grid Mounting Base.	List, \$1.00, Net, .60
3K3634-Aero Choke Cell No. 248.	List, \$1.50, Net, .90
Shipping weight above, each 1/4 lbs.	

Consoles Are Selling Fast Now! See Pages 107-117

Page 81





# THE EIGHT-IN-LINE SUPER

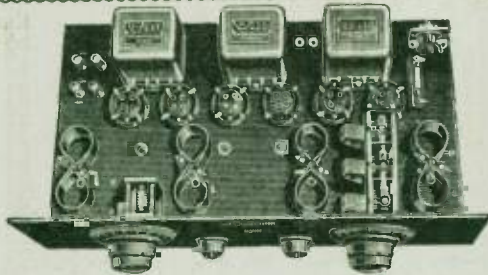
As Specified by Citizens Radio Call Book

An innovation for the set builder. With this kit all of the thrills of building your own receiver are experienced, yet you have a factory-built and balanced receiver.

The Eight-in-Line unit consists of all parts except those which go on the panel. Unit is all wired, ready to put the panel on. Only a few additional parts are necessary. May be connected in a very short time. Will outdemonstrate most sets now on the market—from competitive tests. May be built by the most inexperienced builder.

## List of Parts

Cat. No.	Quan.	List Price	Net	Cat. No.	Quan.	List Price	Net
3K2728	1	\$105.00	\$63.00	3K3337	1	Hammarlund .000045 mf. Mid-set Variable Condenser.....	\$ 1.80 \$ 1.08
3K4508	1			3K1401	2	Kurz-Kasch Aristocrat Vernier Dials, Walnut Finish.....	4.00 2.40
3K4606	1			3K3223	1	Yaxley 1 ohm Resistance.....	.15 .10
3K3471	2			3K4013	1	Package Kester Radio Solder.....	.25 .18
3K2512	1			3K2106	1	Coll Acme Celatette Wire.....	.85 .48
				3K3337	—	Complete set of parts. List Price, \$126.10.	\$75.93



## Bodine Twin-Eight Six-Tube Receiver

Using Bodine Twin-Eight Coils, a gang condenser and phasatrols, combines the desirable features of superheterodyne and tuned r. f. sets. Knife-edge selectivity. Phenomenal distance getting ability. Operates on either loop or outside antenna, cutting through locals easily. Has excited the wonder and respect of Chicago experts.

Contains 3 stages radio frequency which are very easy to build and balance with phasatrols. Easy to build, simple to tune, cost is not prohibitive.

## List of Parts

Cat. No.	Quan.	List Price	Net	Cat. No.	Quan.	List Price	Net
3K3623	3	\$6.00	\$3.60	3K2582	1	Allen-Bradley Filament Switch.....	\$ 0.80 \$0.39
3K3624	1	@ \$2.00	2.00	3K5206	1	7x21x3/16 inch Front Panel.....	5.50 3.58
3K4440	3		8.25	3K5207	1	9 1/2 x 20 inch Sub-Panel.....	6.00 3.90
3K4817	6			3K2200	1	Coll Belden Colorrubber Wire (Red).....	.40 .24
3K4826	2			3K2200	1	Coll Belden Colorrubber Wire (Blue).....	.50 .30
3K4827	1			3K2200	1	Coll Belden Colorrubber Wire (Green).....	.50 .30
3K3123	1			3K2200	1	Coll Belden Colorrubber Wire (Natural).....	.50 .30
3K3055	1			3K1411	2	4 inch Black Dials (Kurz-Kasch) @ 85c.....	1.70 .86
3K4803	1			3K2801	1	Belden 5-Wire Cable.....	.75 .30
3K3452	1			3K638	6	Binding Posts, Ely.....	.90 .60
3K3509	1			3K697	1	Miscellaneous Screws, Nuts, Lugs, etc.....	.65 .39
3K4431	2			3K1648	1	Blueprints and Instructions.....	1.25 .82
3K5541	1			3K336	—	Complete set of parts. List, \$74.60.	\$45.65
3K5542	1					Shipping weight, 20 lbs.	
3K5549	1						

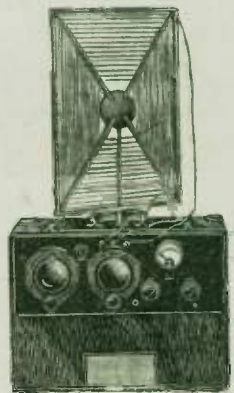
## The M-S 8 Portable Super

Cat. No.	Quan.	List Price	Net
3K5593	1	\$6.00	\$ 3.90
3K5592	1		2.60
3K4210	2		7.80
3K4211	2		7.80
3K4226	1		2.10
3K4630	1		3.36
3K1210	1		2.40
3K1209	1		3.00
3K4154	2		6.00
3K3337	1		1.08
3K1900	1		4.55
3K654	1		.30
3K658	1		.30
3K5802	1		.33
3K5802	1		.26
3K4566	1		.53
3K431	2		.90
3K3041	1		.50
3K4453	3		.90
3K5591	16		2.40
3K698	1		.65
3K2101	1		.25
3K697	7		1.05
3K1663	1		2.00
3K359	—		\$2.06

## Great Selectivity and Power

## The Most Efficient Portable Ever Designed

The M S 8 Super is an 8-tube portable set of very great power, using the famous Scott Selectone transformers. It is the most selective and most powerful portable that can be built in a convenient form. Its selectivity has been demonstrated by tuning in stations from New York City early in the evening through the powerful Chicago local stations with great volume and with no background of nearby local stations. In its cabinet it is very easily portable and weighs but 35 pounds. The size is only 12x 17 1/2 x 18 inches. Everything is reduced except the efficiency and power. On a standard size loop you may expect the efficiency and results equal to those obtained from any super. The blue prints and instructions furnished simplify the assembly until the most inexperienced builder can assemble and wire the complete outfit in only a few hours.



3K5340—Portable case as illustrated above with built-in Speaker. Less unit and loop. Shpg. wt. 15 lbs. List, \$15.00. Net, \$10.50.  
3K1670—Junior Loop for above. Shpg. wt. 3 lbs. List, \$5.00. Net, 3.50



This view shows how the excellent portable cabinet appears when ready to move. The lid is attached and the small loop fits into it. The total assembly complete with batteries weighs only 35 lbs.

There is a great vogue for portable sets now and the Dealer will find a ready market for all he constructs.



# Popular Radio L. C. 28 Broadcast Receiver

## The New LC-28 Receiver as Featured in Popular Radio

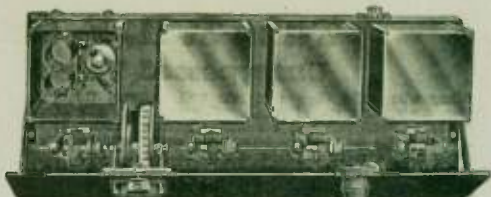
This new circuit is another of Popular Radio's great features and lives up to their standard of excellence. A six tube receiver consisting of 3 stages radio frequency, detector and 2 of audio. It is very selective.

Will bring in distant stations when used in the most congested broadcast areas. The use of Silver-Marshall transformer assures a quality of reproduction seldom attained. The balancing is complete. No squeaks or squeals.

The best you have ever used.

Cat. No.	Quan.	List of Parts	List	Net
3K3329	1	Hammarrlund Midline .000275 mf. var. cond. @ \$5.10.....	\$20.40	\$12.24
3K1449	1	Hammarrlund Double Drum Dial.....	6.00	3.60
3K3642	1	Set Acme-Precision double solenoid coils, 4 coils type 4-B.....	12.50	7.50
3K4360	3	Samson 250 mh R.F. chokes @ \$2.25.....	6.75	4.74
3K4331	1	Samson 85 mh R.F. choke.....	2.00	1.30
3K568	3	Polymet Condensers .02 mf. @ \$1.50.....	4.50	2.70
3K571	1	Polymet condenser .00025 mf.....	.35	.21
3K449	1	Polymet condenser .00075 mf.....	.40	.24
3K4458	1	Yaxley comb. switch and Rheo. 6 ohm.....	1.75	1.05
3K4508	4	Carter 4 ohm fix. resistance type H-4 @ \$0.25.....	1.00	.60
3K1532	1	Yaxley cable connector plug, type 600.....	3.00	1.80
3K2422	2	Carter Imp. plugs @ 15c.....	.30	.18
3K2426	1	Carter Tip Jack No. 10.....	.10	.07
3K2434	1	Carter Tip Jack No. 10 with insulating bushings.....	.15	.10

Shipping wt., 30 lbs.



Cat. No.	Quan.	List of Parts	List	Net
3K2435	1	Carter Imp. Nameplate Aerial.....	\$0.05	\$ 0.04
3K2436	1	Carter Imp. Nameplate, Ground.....	0.05	.04
3K4619	6	Benjamin UX sockets @ 75c.....	4.50	2.70
3K3205	1	Lynch Single resistance mounting.....	.35	.24
3K3150	1	Lynch Suppressor, 500 ohms.....	1.50	.98
3K3151	1	Lynch Suppressor, 600 ohms.....	1.50	.98
3K3152	1	Lynch Suppressor, 700 ohms.....	1.50	.98
3K3019	1	Durham Metallized Resistor, 6 meg.....	.50	.35
3K5722	1	Pair Talt brackets.....	2.00	1.35
3K2200	1	Phar. Belden Colrubber wire.....	.40	.24
3K5685	1	Aluminum chassis.....	7.50	4.88
3K5886	4	Sets special aluminum box shields for LC-28 @ \$2.00.....	8.00	5.20
3K5684	1	Aluminum Panel, 6x26 inches.....	3.00	1.95
3K3311	1	10 1/4 inch extension shaft.....	.50	.25
3K4826	2	S-M 220 Audio Transformer.....	16.00	9.60
3K698	1	Miscellaneous lugs, screws, nuts, etc.....	.65	.39
3K1659	1	Set Blue Prints and Instructions.....	1.00	.65

3K348—Complete set of parts. List price, \$106.70. **\$67.15**

# Popular Mechanics Economy Nine

A new super by Popular Mechanics. Resistance coupled intermediates and S-M audio, make for wonderful tone quality. This set will enjoy the same popularity the others from Popular Mechanics have. Super selective. Very economical on batteries. A set well deserving of praise.

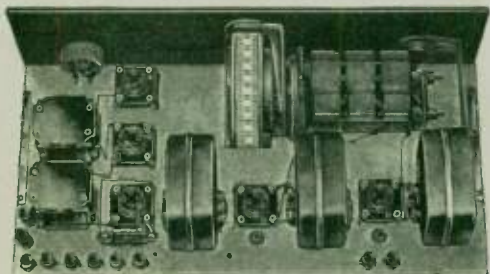
Cat. No.	Quan.	List of Parts	List	Net
3K5607	2	Panel 3 1/2 x 7 1/2 inches (not drilled) @ \$3.90.....	\$ 7.80	\$ 5.00
3K4803	1	Pair S-M 540 Subpanel brackets.....	.70	.42
3K4157	2	Remier cond. No. 659 .0003 mfd. @ \$5.00.....	10.00	6.00
3K4168	2	Remier dials No. 636 @ \$1.00.....	2.00	1.20
3K4404	1	Front 25 ohm rheostat @ 75c.....	.75	.45
3K2429	1	Carter open circuit jack, short type.....	.25	.15
3K2512	1	Carter filament switch.....	.65	.39
3K4801	1	S-M 242 midinet cond.....	1.50	.90
3K4619	1	Benjamin 5000 spring socket.....	.70	.42
3K4622	8	Phar. American UX prong contacts, Style A.....	.80	.48
3K4850	1	S-M 631 Aluminum shield.....	2.00	1.20
3K4814	1	S-M 110A coil.....	2.50	1.50
3K4816	1	S-M coil socket, type 515.....	1.00	.60
3K1342	1	S-M 240 audio transformer.....	6.00	3.60
3K4821	1	S-M 211 tuned-range transformer at 45 to 50KC.....	6.00	3.60
3K426	1	.0005 mfd. with gridlock clip.....	.40	.26
3K453	4	Tube cond. .0005 mfd. @ 35c.....	1.40	.84
3K491	2	Tube cond. .0025 mfd.....	.80	.48
3K452	1	Tube cond. .0025.....	.35	.21
3K459	1	Tube condenser .006 mfd.....	.45	.27
3K4650	1	Alcoa aluminum shield 4 1/2 x 6 in.....	.45	.32

Shipping weight, 20 lbs.



Cat. No.	Quan.	List of Parts	List	Net
3K432	1	Tube 1 mfd. condenser.....	\$0.90	\$ 0.54
3K3124	5	Double resistor mounts, DeJura.....	1.75	1.15
3K760	5	Tube Tapon resistors 1/4 meg. (25).....	2.50	1.50
3K759	4	Tube Tapon resistors 1/10 meg. (1).....	2.00	1.20
3K763	1	Tube Tapon resistor 1 meg. (1).....	.50	.30
3K764	1	Tube Tapon resistor 2 meg. (2).....	.50	.30
3K3214	2	Amperite 1/4 amp. filament control units.....	2.20	1.32
3K3207	1	Amperite 1/4 amp. filament control unit.....	1.10	.66
3K3210	1	Amperite 1/4 amp. filament control unit.....	1.10	.66
3K3831	16	Pinstock clips, small single type.....	.35	.20
3K2101	10	Lenath. round, tinned-copper busbar wire No. 14.....	.25	.16
3K2105	4	Lenath. good black spaghetti tubing.....	.40	.30
3K5715	4	Small, brass, angle brackets, 1/2 x 3/4 in.....	.15	.08
3K698	1	Miscellaneous Lugs, Screws, etc.....	.65	.39
3K1560	1	Blueprint.....	1.00	.65

3K347—Complete set of parts. List price, \$61.85. **\$37.70**



# The Quadruphase Five

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

Another excellent circuit by Mr. G. M. Best using the famous Phasatrols for complete neutralization. The set absolutely will not oscillate when properly adjusted. The efficient Quadruphase coils are entirely shielded. There can be absolutely no pickup due to the coils and wiring. Therefore the selectivity is very great. The coils are all matched at the factory assuring a very efficient set. Single dial control is attained by the use of a Remier 3 gang condenser and Drum Dial.

Very easy to build when following instructions included. Easy to operate for there is only one dial and the volume control. Volume control perfectly from a whisper to a roar.

Cat. No.	Quan.	List of Parts	List	Net
3K1812	1	Set Quadruphase coils with switch equip.....	\$17.50	\$10.50
3K4619	5	Benjamin Cushion Sockets @ 75c.....	3.75	2.25
3K1220	1	American DeLuxe Transformer (First Stage).....	10.00	7.00
3K1221	1	American DeLuxe Transformer (Second Stage).....	10.00	7.00
3K4163	1	Remier No. 633 capacity unit.....	15.00	9.00
3K4166	1	Remier No. 110 Drum Dial.....	1.00	.60
3K4403	1	Front No. 700—10 ohm Rheo.....	.75	.45
3K2400	1	Front No. 273 Pantab Jack.....	.65	.39
3K2508	1	Yaxley Filament Switch.....	.50	.30
3K4828	1	Silver-Marshall No. 340 Midinet cond.....	1.30	.90

Shipping weight, 18 lbs.

Cat. No.	Quan.	List of Parts	List	Net
3K5719	1	Pair Benjamin Brackets.....	\$0.70	\$ 0.45
3K4440	1	Electrad Phasatrol.....	2.75	1.65
3K3103	1	XL G-5 ant. series cond.....	1.50	.98
3K452	1	Tube .00025 mf fix. cond.....	.35	.21
3K454	1	Tube .001 mf fix. cond.....	.40	.24
3K432	2	Tube 1 mf bypass cond.....	1.80	1.05
3K3207	2	No. 1 A Amperite @1.10.....	2.20	1.32
3K3210	1	No. 112 Amperite.....	1.10	.66
3K1740	1	Ameco Grid Leak Mounting.....	.25	.15
3K766	1	Tube 5 Meg grid leak.....	.30	.20
3K691	11	Ezy Binding Posts.....	1.65	1.10
3K5673	1	Backelite Panel, 7x11 1/2 inches.....	5.19	3.38
3K5683	1	Backelite Subpanel, 10x20 1/2 inches.....	6.41	4.17

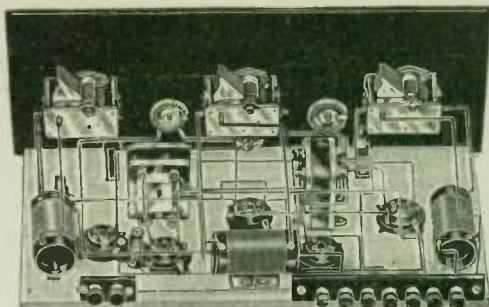
3K348—Complete set of parts. List price, \$65.25. **\$53.95**



## 5 Tube T. R. F. Set Unsurpassed Value

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.

Cat. No.	Quan.	List of Parts	List	Net
3K5650	1	7x13x $\frac{1}{2}$ inch metal panel, dr. and dec.	\$3.00	\$1.80
3K5651	1	9x17x $\frac{1}{2}$ inch wooden baseboard	.65	.39
3K713	1	14x4x $\frac{1}{2}$ inch terminal strip (2 hole)	.25	.13
3K714	1	Terminal strip with posts	.50	.30
3K701	2	Binding Posts	.10	.05
3K3612	1	Set screwdriver R.F. transformers	4.00	2.00
3K3314	3	.00035 M. F. var. cond. @ \$2.00	6.00	3.00
3K1305	2	5% to 1 audio trans.	6.00	1.96
3K3032	1	Polymet 2 meg. grid leak	.25	.15
3K4610	5	DeLux UX sockets	1.25	.75
3K657	1	Carter Midset 25 ohm Rheo.	.50	.30
3K658	1	Carter Midset 10 ohm Rheo.	1.00	.60
3K2517	1	Battery Switch	.40	.20
3K3227	2	Yaxley 4 ohm Fixed resist.	.30	.20
3K553	1	Polymet .002 mf. Fix. Cond.	.30	.18



Cat. No.	Quan.	List of Parts	List	Net
3K548	1	Polymet .00025 mf. Fix. Cond. with Clips	\$0.35	\$0.21
3K1402	3	Bakelite Knobs @ .45	1.35	.69
3K2101	40	Feet No. 14 tinned copper wire	.55	.32
3K628		Miscellaneous Screws, lugs, etc.	.50	.30
3K332		Complete set of parts. List, \$27.25.		\$13.53
Net				
				Shipping weight, 15 lbs.



## HAZELTINE NEUTRODYNE

**\$23.46**  
Net

All the parts needed to build this circuit, which has been the leader of all circuits. Tunes sharply through interference. 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.

Cat. No.	Q	List of Parts	List	Net
3K5634	1	Panel 7x24x $\frac{1}{2}$ inch Drilled and Engraved	\$ 5.50	\$ 3.58
3K4175	1	Neutrodyne Kit	17.50	11.38
3K1201	1	A. F. 6 to 1 Transformer	3.50	1.40
3K1202	1	A. F. 6 to 1 Transformer	4.00	1.70
3K699	1	Box Screw Assortment	.50	.30
3K2101	10	Round Bus Bar	.25	.16
3K3033	1	3 meg. Grid Leak	.25	.15
3K1435	3	4 in. Dials @ .60	1.20	.87
3K424	1	.00025 Grid Condenser with Clips	.40	.24
3K512	1	.001 Condenser, Fixed	.40	.24
3K5645	1	61x23 Baseboard	.55	.32

Cat. No.	Quan.	List of Parts	List	Net
3K2414	1	Closed Circuit Jack Carter	\$0.80	\$0.48
3K2413	1	Open Circuit Jack Carter	.70	.42
3K5712	2	Brackets @ .05	.10	.05
3K714	1	Binding Posts on Panel Strip	.50	.30
3K540	1	0.5 M. F. By-pass Condenser	.80	.40
3K2516	1	Battery Switch	.50	.25
3K4504	1	50 ohm Rheostat	.45	.26
3K4500	1	6 ohm Rheostat	.45	.26
3K4610	5	DeLux Spring Sockets @ .25	1.25	.70
3K333		Complete set of parts. List, \$39.60.		\$23.46
Net				
				Shipping weight, 14 lbs.



### Workrite Neutrodyne Kit

Contains 5 licensed Neutroformers, 2 neutrodynes, panel layout template and 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. Shipping weight, 5 lbs.

3K4175—List, \$17.50. Net...\$11.38

## The Pacent Balcon



A balancing condenser especially designed for use with tuned radio frequency circuits or where capacity balance is desired. Two nickel-plated electrodes enclosed in glass tube around which is a piece of split brass tubing fitted so that it can be moved to adjust capacity radion base. Shipping weight, 4 oz.

3K4121—List, \$0.40. Net.....\$0.27

## Sterling Microcondenser



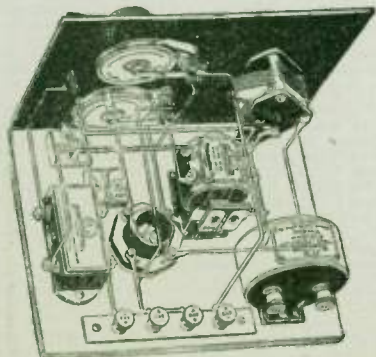
High quality adjustable condenser of "micro" size with maximum capacity of approximately 5 micro-microfarads. The miniaturizing grid to plate capacity of tubes in neutrodyne and other similar circuits. One-piece rotary plate. The best grade of clear mica dielectric is used. Because of small size (1x1 1/2 in.) can be soldered directly into bus wiring without other support. Shipping weight, 5 oz.

3K4122—Capacity .00000025-.000005 mf. List, \$1.00. Net.....\$0.65  
3K4136—Capacity .00000004 to .000010 mf. List, \$1.50. Net.....\$0.98

## ALL-AMERICAN REFLEX KITS

In semi-finished form. Can be wired in a few hours.

These kits are supplied with all parts mounted on the panel and baseboard, but are not wired. Anyone can easily complete the simple wiring and have a fine, high-grade set at a low cost. Built with the famous All-American parts. Full wiring directions and 48-page book on Radio included free.



### ALL AMAX SENIOR KIT

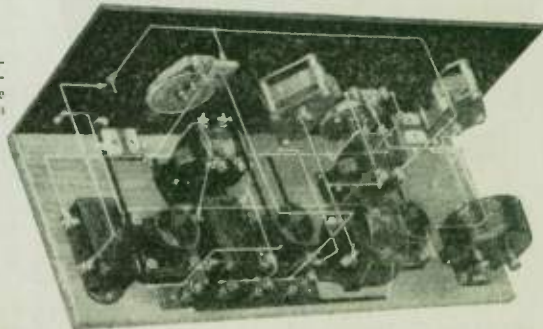
Three tubes with crystal detector do the work of six tubes. When wired, this kit is a highly selective long-distance Reflex receiver. Embodies 3 stages of radio frequency amplification detector and 2 stages of audio. Covers entire broadcast range. Brings in distant stations with loudspeaker volume on an outside aerial. Only two controls, easily logged. Panel size, 7x18 inches. Uses 201-A type tubes. Shipping weight, 15 lbs.

3K4133—List, \$34.00. Net.....\$13.95

### ALL AMAX JUNIOR KIT

A powerful one-tube Reflex set. One tube does practically the work of three in other circuits. One stage radio frequency, detector and one stage audio. Uses 199 type tubes. Panel size, 7x9 inches. Shipping weight, 10 lbs.

3K4134—List, \$18.00. Net.....\$7.95



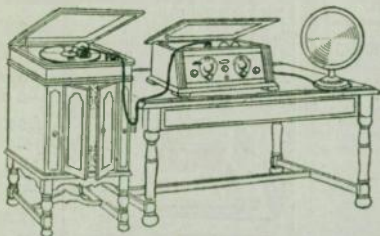


# Sensational New Musical Instrument

## Electrical Reproduction of Phonograph Records

There are hundreds of old phonographs right in your own territory which can be brought up to date and transformed into an electrical instead of a mechanical process phonograph. The Gradeon does this. This new instrument is a device for reproducing records on old phonographs through the radio set so that the new full toned effect of latest type talking machines is realized. A fast seller, sure profit producer.

Gradeon reproducer is placed inside phonograph in place of the regular reproducer. Wire leads to plug, which is inserted in detector tube socket in your own radio. Wind phonograph and play record in usual way. Music comes from your loud speaker. Control volume at will. Works perfectly on practically any phonograph.



This Picture shows how the Gradeon takes the place of the reproducer of the phonograph and how it is attached to the radio.

## The GRADEON

LIST  
\$17.50

\$5.35  
NET

Brings Old  
Phonographs  
Up-to-date

Attached to the tone arm of any phonograph, the Gradeon carries the sound impulses from the radio set; amplifies them electrically, picks up all the fine tones usually lost and pours them forth in glorious splendor and volume through your radio loud speaker. Volume enough for dancing—tone quality surpassing the most expensive instruments. You run your own broadcasting station, pick up tunes you desire to play and have just the music you want on tap always—and you can play as many encores as you wish.

You can now make the newest, the most sensational of all music reproducing instruments using only your phonograph and your radio! This new instrument adds the wizardry of radio to your most beloved phonograph records. No matter how satisfactory your present phonograph may be; no matter how splendid your radio—you can create an even better instrument by combining the two with the new Gradeon. Leading stores use the Gradeon to demonstrate new phonograph records; to sell phonographs to radio owners. And here on the season's greatest sales item we offer you a buy that cannot be equalled. A fortunate special purchase in the slack season when the manufacturer needed cash makes this bargain possible. Only 2,000 at this price. All new perfect merchandise fresh from the factory. When they are sold the price goes back to \$11.38, the regular wholesale price. Send your order now. No tone arm included. Shipping wt., 2 lbs.

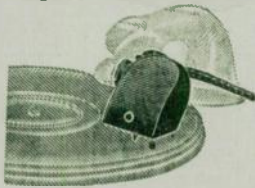
3K2650—List, \$17.50. Your Special Net Cost.....\$5.35

## Patent Phonovox Electric Phonograph Reproducer

This unit, developed by Patent Engineers, though very low in price has proven to be one of the best. It provides true tone values together with volume that will equal the electric phonographs selling at several hundred dol-



lars. Equipment consists of Reproducer, Volume control, plug for detector socket and connecting wires. Shipping wt., 3 lbs. 3K2652—Retail Price, \$12.50. Net.....\$7.50

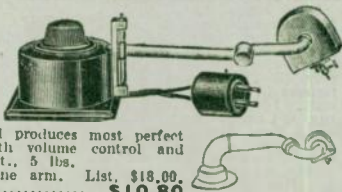


## The Sensitone Electric Pick-Up

One of the most sensitive and yet most rugged of this class of devices. Incorporates the most scientific construction. Made of best materials. Perfect workmanship. Gets the most volume and produces most perfect tones. Complete with volume control and adapter. Shipping wt., 5 lbs.

3K2653—With Tone arm. List, \$18.00. Net.....\$10.80

3K2654—Without Tone arm. Reproducer fits standard phonograph tone arm. List, \$16.00. Net.....\$9.60



## How the Electric Pick-Up Operates

If you have heard an electric phonograph, you no doubt marveled at the fidelity and naturalness of tone and the majestic volume of the reproduction without a trace of blur or distortion. Phonograph engineers turned to radio to obtain this depth and fullness of reproduction together with great volume without distortion. Contained within their cabinets are the latest type of radio power amplifiers—the secret of their life-like and natural reproduction.

Recently engineers have developed a simple and highly effective method for converting the old style phonograph into an electric phonograph. In conjunction with a radio receiver, together with an electric pick-up such as the Gradeon, Phonovox or Sensitone, and any old style of phonograph, the quality of reproduction is similar to that of the expensive electric phonographs is easily obtainable. No changes whatsoever are made in wiring of set.

The Pick-Up consists of three units—the reproducer, the adapter, which is inserted in the detector socket of your radio set in place of the detector tube and—the volume control unit. The reproducer replaces the ordinary reproducer and consists essentially of a permanent magnet in the field of which is a specially designed coil; an iron rod placed within the coil terminates at the needle support or arm. A cord connects this reproducer with the adapter, which is inserted in the detector socket of the radio set. With the Pick-Up thus attached, and the radio set turned "on," the phonograph is started. As the needle moves in the grooves of the record it actuates the iron rod, causing the magnetic field about the coil to be altered, thereby setting up a current in the coil. This current varies in proportion to the intensity of the vibration of the needle in groove of record.

The energy thus developed is transferred, through the adapter in the detector socket of the radio set, to the audio frequency amplifier. Here the small initial energy is built up and amplified many times—just as a radio signal is amplified—then delivered to the loud speaker with a volume ample for all occasions. By the aid of the volume control the volume can be conveniently varied from a whisper to the volume suitable for dancing purposes. The volume obtained will be largely dependent upon the type of the audio amplifier in the radio set, together with the type of transformers used in the audio system. Sets using power tubes of the UX 112 and 171 type in the last audio stage will give more volume than where the ordinary 201 A type tubes are used. Likewise, the volume will be still greater when an external power amplifier is used. With electric reproduction you will particularly note the entire absence of all forms of interference common to radio reception such as static, neighboring interference, spark stations, and other forms of electrical disturbances.

## Weston Model No. 519 Radio Set Tester

A compact portable "trouble shooter" for complete and rapid servicing of both battery and battery eliminator operated sets. Designed for measuring all voltages used in a radio set both at the battery terminals and at the tube sockets; for quickly checking tubes and for testing continuity and condition of circuits. It's a big time and money saver for the radio service man. A complete check up can be made in a very few minutes.

Full scale deflection is produced on the instrument with a current of only one milliamperes. Testing can

be done while set is in operation without change in connections or the use of auxiliary batteries.

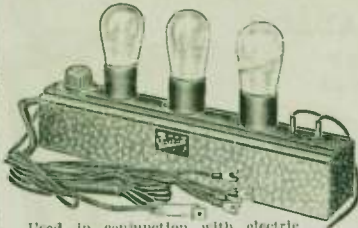
The instrument has three voltage ranges—200/50/8 volts—and a 20 milliamperes range. Voltage ranges have a resistance 1000 ohms per volt. Extremely accurate. Each set is provided with a plug and socket of the UX type together with adapters for use on other types of connections. Shipping wt., 6 lbs.

3K2651—List, \$75.00. Net.....\$58.75





## Na-Ald Truphonic Power Amplifier



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. **3K5784**—List, \$25.00, Net.....\$15.00

Has established itself as one of the finest audio amplifiers. A completely wired unit incorporating a distinctive circuit, employing neither transformer, 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.

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. **3K5784**—List, \$25.00, Net.....\$15.00

### Jefferson Transformers



Carefully designed of the best materials to incorporate the newest principles in transformer construction. Pronounced by leading engineers to be one of the finest lines of transformers made. Jefferson transformers are adaptable to all circuits and all standard makes of tubes.

**3K1307**—Jefferson Concertone. Shipping wt., 3½ lbs. List price, \$6.00, Net.....\$3.60

**3K1308**—Jefferson Star. Ratio 5 to 1. Shipping wt., 1 lb. List price, \$2.75, Net.....\$1.67

**3K1309**—Jefferson Star. Ratio 6 to 1. Shipping wt., 1 lb. List price, \$3.00, Net.....\$1.80

### Amertran DeLuxe Transformer

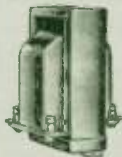
Long recognized for their superiority in the radio field. Many laboratories employ these transformers in making tests. Long identity with the radio field has proven the quality of the product. The Amertran DeLuxe now introduced has put the "Audio Slide" far in advance of broadcasting facilities and reproducing instruments. Its faithful amplification when combined with the best of reception conditions will reproduce natural volume over the entire range. Made in two types. Shipping wt., 2½ lbs.

**3K1220**—1st stage. List, \$10.00, Net.....\$7.00

**3K1221**—2nd stage. Net.....\$7.00



### Pacent Super Audioformer



Designed for finer musical values in broadcast reception. Built to sturdily handle the work. The ratio of 3 to 1 is capable of handling energy amplification of 500—1 per audio step and yet low enough so that higher frequencies are not distorted. Especially designed for power amplification. Suitable for use in all sets of the popular hook-ups now in use. Its attractive arched shield protects it from interference offered by other elements in the set. Shipping wt., 3 lbs.

**3K1310**—Output Superformer. List price, \$7.50, Net.....\$4.50

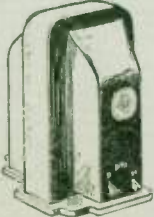
**3K1311**—Input Superformer. List price, \$7.50, Net.....\$4.50

### General Radio Audio Transformer

Completely shielded in black painted metal case. Terminals individually marked for proper connections. Two stages of amplification using 1 to 6 ratio in the first and 1 to 2 in the second gives a remarkable loud speaker volume in pleasing tones. Shipping wt., 2 lbs.

**3K1300**—Type 255. Ratio 1-6. List, \$6.00, Net.....\$4.50

**3K1301**—Type 254. Ratio 1-2. List, \$6.00, Net.....\$4.50



## Individual Truphonic Couplers



For those who plan to construct their own sets, and who want to build into them the finest possible type of audio frequency amplification separate Truphonic couplers are provided. Individual units in iron clad cases. Brackets included for mounting in convenient position. Flexible leads for easy connection. 2½ in. square, 1½ in. thick. Shipping wt., 2 lbs.

**3K1345**—No. 501R for first stage. List, each, \$5.00, Net, each.....\$3.00

**3K1346**—No. 501 for second or third stage.

**3K1347**—No. 500 Output unit. Protects speaker. List, each, \$5.00, Net, each.....\$3.00

### Acme Audio Amplifier

The A-2 is unquestionably the most audio transformer for the money. The MA-2 was made in response to the demand for a transformer with high primary impedance and more amplification without distortion.



Impedance and resistance coupled amplifiers have come into prominent use. However, without the impedance leak, this form of amplification does not give the quality because of rectification in the tubes.

The Z-3 unit consists of a coupling resistance and condenser with impedance leak. Binding posts are provided with the same marking as transformers. Can be used to great quality advantage by replacing one stage of audio in a two-stage amplifier. Shipping wt., 1½ lbs.

**3K1338**—Z-2 A. F. Impedance 200 henries.....\$4.50 \$2.70

**3K1339**—Z-3 A. F. R. Res. Impedance Stage.....5.00 3.00

**3K1340**—MA-2 A. F. Trans. 5-1 ratio.....6.00 3.60

**3K1341**—A-2 A. F. Trans. ....3.00 1.80



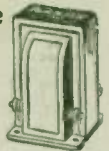
True quality depends almost entirely on the audio frequency end of a reproducer set. Ferranti transformers are recommended wherever it is desired to obtain audio frequency amplification of the highest quality in radio sets equipped with a power tube in the last stage. They may be used with equal success in any set equipped with any type tube where resulting volume is not sufficient to overload the last tube. Many dissatisfied set owners will purchase more efficient audio frequency and substitute them for the original transformers in their sets. Ferranti will do the job as the finest engineering unit is in each Ferranti Transformer. Known for total qualities throughout the radio field. Ratio, 2½ to 1. Dimensions, 2½x2½x1½ inches. Shipping wt., 2½ lbs.

**3K1344**—Type AF-3. List, \$12.00, Net.....\$7.20



## Rauland-Lyric

**3K1318**—List, \$9.00, Net.....\$5.40  
Shipping wt., 3 lbs.



### Rauland-Trio

Similar in appearance to the Rauland-Lyric, except slightly smaller in size. An impedance coupling device containing in one housing the three necessary units—inductance, resistance and capacity in correctly balanced relation. Shipping wt., 1 lb. 10 oz.

**3K1319**—For first and intermediate stages. Each.....\$3.60

**3K1320**—For last audio stage. Each, postpaid.....\$3.60

### Push Pull Transformers

**3K1332**—R30 Input. List, each, \$5.00, Net.....\$3.00

**3K1333**—R31 Output. List, each, \$5.00, Net.....3.00

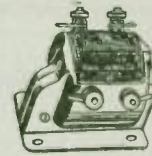
### All-American A.F. Transformer

**3K1329**—3 to 1. List, \$4.50, Net.....\$2.70

**3K1330**—5 to 1. List, \$4.50, Net.....\$2.70

**3K1331**—10 to 1. List, \$4.50, Net.....\$2.70

Shipping wt., 1 lb.



### Hedghog A.F. Transformer

Smallest audio frequency transformers in size. Suitable for portable and other sets where space is limited. Very efficient. High amplification. Shipping wt., 1 lb.

**3K1302**—2 to 1.....\$3.30 \$2.10

**3K1303**—5 to 1.....3.50 2.10

**3K1304**—10 to 1.....4.50 2.70



### Karas Harmonik Audio Frequency Transformers

Suitable for regenerative circuits, radio frequency sets, superhets and reflex circuits. High amplification without distortion. All stage ratio. Shipping wt., 1 lb. 12 oz.

**3K1222**—Karas Harmonik. List, \$5.00, Net.....\$3.00



### New Silver-Marshall 240 Transformer

A new small transformer for replacement in present sets. Second only to S-M 220. Straight line amplification 50 to 500 cycles then falls off to compensate for static and regeneration spreads. Turns ratio 5:1. Size, 3½ x 2½ x 2½.

Weight, 2 lbs. 4 ounces.

**3K1342**—List, \$6.00, Net.....\$3.60

**3K1343**—241 Output Filter Unit. Similar to 240. Turns ratio 1:1.50. List, \$6.00, Net.....\$3.60



### Audio Frequency Transformer Type AF-3

True quality depends almost entirely on the audio frequency end of a reproducer set. Ferranti transformers are recommended wherever it is desired to obtain audio frequency amplification of the highest quality in radio sets equipped with a power tube in the last stage. They may be used with equal success in any set equipped with any type tube where resulting volume is not sufficient to overload the last tube. Many dissatisfied set owners will purchase more efficient audio frequency and substitute them for the original transformers in their sets. Ferranti will do the job as the finest engineering unit is in each Ferranti Transformer. Known for total qualities throughout the radio field. Ratio, 2½ to 1. Dimensions, 2½x2½x1½ inches. Shipping wt., 2½ lbs.

**3K1344**—Type AF-3. List, \$12.00, Net.....\$7.20





## Thordarson Autoformer

An all frequency amplifier. Amplifies low-impedance 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. **2K1217—Thordarson Autoformer.** Each.....\$3.00



## Interstage Power Amplifying Transformer

Designed to couple the input and output transformers in a power amplifier circuit. When used in connection with the Thordarson input and output power amplifying transformers, this type completes the equivalent of two power amplification stages.

**2K1219—List, Price, \$8.00.** Net.....\$4.80

## Thordarson A. F. Transformer

The Thordarson transformer is now being used as standard equipment in more high grade sets than any other make. It is a very efficient, clear toned transformer and gives excellent volume.

**2K1209—2 to 1.** List, \$5.00. Net.....\$3.00  
**2K1210—3½ to 1.** List, \$4.00. Net.....\$2.40  
**2K1211—6 to 1.** List, \$4.50. Net.....\$2.70  
**2K1212—Thordarson Push-Pull Transformers, one input and output.** List, \$13.00. Net.....\$7.80

## Thordarson Sub-Panel Transformers

Furnished with leads coming out the base for sets mounted in sub-panel. Provides neater assembly, shorter leads and greater efficiency.

**2K1213—6 to 1 ratio.** List, \$4.50. Net.....\$2.40  
**2K1214—3½ to 1 ratio.** List, \$4.00. Net.....\$2.70  
**2K1215—2 to 1 ratio.** List, \$5.00. Net.....\$3.00

## National Transformer

Tone quality is a requirement of vital importance in audio frequency transformers. National has tone quality. A pronounced characteristic is the successful amplification of a bass toned human voice 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 nickel-plated case.

**2K1305—1½ to 1.** Value, \$3.00. Net.....\$0.98  
**2K1306—6 to 1.** Net.....\$0.98



## Tuned Double Impedance Units

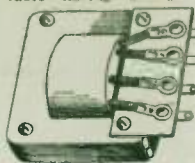
**SPECIFICATIONS—**Miller coils with Muter condensers assembled under Muter standard of precision, giving the finest tuned audio frequency unit in present day amplifiers. Doubly sealed in highly enameled metal case against atmospheric conditions. Size 4 in. high, 3¼ in. long, 2 in. wide. Packed in individual cartons with complete diagrams for assembly. Weight, 1½ lbs. each.

**2K1348—First Stage.**  
**2K1349—Second Stage.**  
**2K1351—Third Stage.**  
List, \$6.00. Net.....\$3.60



## Marvelo Transformers

A decidedly superior type of audio frequency transformer. Exceptional in pure tone reproduction and volume. Laboratory tests show the wonderful response to frequency variations over the entire musical scale. Have high impedance to match UV 201-A type, UV 199 or C 200 WD or C 11 and 12 and other type tubes having similar characteristics. The bakelite terminal plate prevents leakage and losses. No electro-magnetic or electro static coupling. Completely shielded.



## Completely Shielded

**2K1200—2 to 1.** List, \$4.50. Net.....\$2.10  
**2K1201—3½ to 1.** List, \$3.50. Net.....\$1.60

## Manufacturer's Model

**For Sub-panel or Sub-base Mounting**  
**2K1206—2 to 1 ratio.** List, \$4.00. Net.....\$1.45  
**2K1207—3½ to 1 ratio.** List, \$3.00. Net.....\$1.25



## Thordarson Type 200 Transformer

A quality transformer with unusually faithful reproductive power 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.

**2K1216—List price, \$8.00.** Net.....\$4.80



## Knight Units Audio Transformer

New power audio transformers. Large scientifically designed coil with low impedance primary affords perfect amplification over entire musical and audible scale of frequencies. For use with standard and all power tubes. Provides straight line amplification; perfect reproduction of lowest bass and highest treble notes.

**2K1229—List, \$8.00.** Net.....\$3.45



## Knight Output Filter

Designed to keep the direct current component out of loud speaker preventing possibility of damage to speaker windings when power tubes with high voltage are used.

**2K1230—List, \$8.00.** Net.....\$2.95

## Knight Push Pull Transformers

Full wave power amplification of exceptional quality is obtained with the new, modern push pull transformers. Admirably adapted for use with 112, 171, or 210 power tubes. Enormous amplification is obtained. May also be used with standard 201A tubes.

**2K1227—List, net pair, \$15.00.** Net.....\$6.85

## Our Special Units

The type RR Step Up Transformer for A. C. tubes has a primary voltage of 110 and a secondary voltage of 350 with a tap in the center giving 275 volts on each side. Will deliver 50 mills without heating.

**2K1223—List, \$5.00.** Net.....\$2.70

The 30 Henry filter choke has an inductance of 30 henries at approximately 40 mhos. This drops somewhat below 50 henries on a 20 mil. load. The D. C. resistance is 375 ohms. While they are most efficient with the current from 0 to 60 mills, they will not overheat with a load of 85 mhos. They may be used in a filter circuit for B Eliminators, also across the output terminals of the radio set in conjunction with a 2 microfarad condenser to prevent the high D. C. current from getting into the loud speaker. Completely shielded.

**2K1224—List, \$3.00.** Net.....\$1.80

Our 85 millihenry 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 225 ohms.

**2K1226—List, \$2.00.** Net.....95c

The 1 to 1 output filter transformer is designed for protection of the loud speaker where high plate voltage is used. It is wound on a 1 to 1 ratio and has sufficiently high impedance to take care of the high voltage and current when the power tubes are used. The average loud speaker coil will not stand the high voltage and current delivered by the larger sets where power tubes are used. The output transformer enables the operator to take advantage of the maximum voltage of the set without in any way injuring the coil of the loud speaker. The transformers are equipped with cord and tip so that they can be readily attached to the plug of the set and the tips of the loud speaker cord may in turn be attached to the secondary binding posts of the transformer.

**2K1228—List, \$5.00.** Net.....\$2.25

## Variable Audio Transformer

Really matches the characteristics of tube. Result of years of experimenting by radio engineers, which cuts out squealing and howling in any radio receiver. Merely turn knob until reception is clearest and sharpest—the result is perfect co-ordination between tube and transformer. The entire transformer is magnetically and statically shielded, thus permitting the mounting of the transformer at any angle desired without howling and squealing due to magnetic and static coupling of successive stages.

**2K1231—List, \$10.50.** Net.....\$6.30





# Superior Low-Loss Tuners

**\$1.19**



## 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 stations and yet cause little interference to surrounding sets as most regenerative circuits do. Consists of an aperiodic aerial inductance and secondary, wound on a stator tube within which is a tapper 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 in most other circuits. Distant stations can be consistently tuned in with an exceptional volume and quality of tone. Shipping weight, 12 oz.

- 3K3615**—Large size, 3 inches diameter; 3 1/4 inches high. Covers 190 to 570 meters with .0005 condenser. Each.....\$1.19  
**3K3616**—Small size, 2 1/4 inches diameter; 2 1/4 inches high. Covers 190 to 570 meters with .0005 condenser. Each.....\$1.19  
**3K3617**—Small size. Low wave type. Covers 47 to 150 meters with .0005 condensers. Each, \$1.19  
 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 oz.  
**3K3618**—Large size. 3-in. diam.; 3 1/4 in. high. Each.....\$9c  
**3K3619**—Small size, 2 1/4-in. diam.; 2 1/4 in. high. Each.....\$9c



## Benjamin Tuned Radio Frequency Transformers

- 3K4113**—3-inch diameter. Set of 3 with mounts. List, \$6.00. Net.....\$3.90  
**3K4114**—2 1/4 inch diameter. Set of 3. List, \$5.75. Net.....\$3.70



Self-supporting cylindrical form. Extremely strong and rigid and will stand hard usage. Advanced scientific design gives minimum distributed capacity and greater tuning range; lower resistance; greatest energy transfer. Green silk wire. For .00025 condensers. Shipping wt., 1 lb.

## Benjamin "Lekeless" Transformers

Closed field preventing leakage and feedback. Minimum insulation lowers power losses. Extremely low distributed capacity, low resistance and high inductance. Used in any tuned radio frequency circuit. Especially desirable for single control. Self supporting green silk winding. For use with .00025 mf condensers. Shipping weight, 1 lb. 5 oz.  
**3K4115**—Set of 3 matched coils. List price, \$7.50. Net.....\$4.95

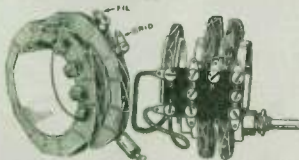


## Basket Weave Coils



**3K3710**—Set of three with condenser mounts.....98c  
**3K3711**—Single coil only without mount. Each.....30c  
 Real value for the set builder. At our prices a fine five-tube 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 surface. Used with .00025 condensers. Shipping weight, 1 lb.

## 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. Shipping wt., 8 oz.  
**3K5767**—List, \$8.09. Net.....\$5.55

## Sickles Coils for Browning Drake

Antenna coil and R. F. unit with tapper. Diamond weave winding. R. F. unit one hole panel mounting. Use with one .0005 and one .00025 condensers. Instructions included. Shipping wt., 8 oz.  
**3K5768**—List, \$7.50. Net.....\$5.10

## Coils for Browning Drake

**3K4143**—List, \$6.50. Net.....\$3.60  
 Antenna coil and R. F. unit of spare wound enamel wire. Exactly correct for this circuit. Finest workmanship. Use with one .0005 and one .00025 condensers. Mounting brackets included. Shipping wt., 9 oz.

## Improved Low-Loss Coils



**3K3709**—Set of three with mounts.....\$1.17  
 An improved type of basket weave inductance. Diameter 2 inches. Height 2 inches. Special fibre mounting disk enables easy mounting on condenser panel or baseboard. Each set of coils is very carefully selected and balanced for use with two or three .00025 condensers having ratio of .00025 to .00025 capacity. Shipping weight, 14 oz.

## Bakelite Three-Circuit Tuner



**3K3700.**  
 Net each, \$1.19  
 Wound on bakelite form with green silk covered wire. Single hole mounting. Diameter 3 inches, height 3 1/2 inches. Covers broadcast range 200 to 550 meters with .0005 condenser. Shipping weight, 15 oz.  
**3K3699**—Antenna Coil. Operates with above tuner. Shipping weight, 10 oz. Net, each.....\$5c

## 180° Variometer and Variocoupler

**3K3701**—Variometer. List, \$2.00  
**3K3702**—Variocoupler. Net, \$1.10  
 Properly designed and of good mechanical construction. Green silk windings. Firm contacts 1/4 inch shaft. Suitable for all broadcast wave lengths. Variocoupler primary is tapped for fine tuning. Use with .0005 condenser. Shipping wt., 15 oz.



## Three-Circuit Tuner

Low-Loss Type



Self-supporting rotor and stator. Very low loss and very efficient. For use with .00025 mfd condenser. Shipping weight, 8 oz.  
**3K3703**  
 List, \$2.50. Net.....\$1.15

## Honeycomb Coils

Very firm. Range class is in meters when used with .001 variable condenser. Mounted coils have standard plug mounting. Ship. wt., 4 to 16 oz.



Tunes	Range	Art. No.	Net Art. Price
25	120-250	3K3712	\$2.26 3K3727 \$.68
35	175-450	3K3713	.29 3K3728 .70
50	250-750	3K3714	.31 3K3729 .72
75	300-910	3K3715	.35 3K3730 .75
100	500-1450	3K3716	.40 3K3731 .79
150	600-2000	3K3717	.43 3K3732 .81
200	900-2500	3K3718	.50 3K3733 1.15
250	1500-4500	3K3719	.59
400	2000-5000	3K3720	.63
500	2500-6100	3K3721	.70 3K3734 1.40
600	4000-10000	3K3722	.90 3K3735 1.55
750	5000-12000	3K3723	.75
1000	7000-15000	3K3724	.80 3K3736 1.25
1500	14500-20500	3K3726	1.55 3K3737 1.90

## Mounts for Honeycomb Coils

**3K3800**—3-Coil. List \$5.00. Net \$1.40  
**3K3801**—2-Coil. List \$3.50. Net \$1.40

Made of polished black bakelite. Mount on front of panel. Fitted with flexible connectors with lugs.



**3K3802**—Back of panel 3 coil mounting. List, \$6.00. Net.....\$1.40

## Coil Mounting Plugs

**3K3803**—Plug for mounting "Honeycomb" coil. Ship. wt., 4 oz. List, 50c. Net.....27c  
**3K3804**—Plug to fasten mounted coil stationary to panel. Each.....25c  
**3K3805**—Fibre strip to hold coils for mounting. Two-foot piece. Each.....12c



## Spider Web Coils

**3K3705**—Set of three with mounting pins.....\$1.15  
 Primary and secondary wound together in spider-web form, making a highly efficient transformer coil for tuned Radio Frequency circuits. For use with .00025 condensers. Fine silk insulation. Can be mounted any place. Ship. wt., 5 oz.





### Eria Reflex Transformers



The transformer listed here is the genuine Eria Reflex Radio Frequency Transformer for use in reflex and standard radio frequency circuits. Made in two types. Type 1 is for one 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.

Shpg. wt., 8 oz. List, \$5.00. Net  
**3K1312**—Reflex No. 1.....\$1.20  
**3K1313**—Reflex No. 2.....1.20

### Dubiller R. F. Transformer



A highly efficient iron core radio frequency transformer which has achieved a prominent place among radio frequency transformers. Wavelength range 225 to 550 meters. Mounted in a bakelite case with plainly marked binding posts. Shpg. wt., 8 oz.

**3K1315**—List price, \$4.00. Net, each .....\$2.60

### 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. Shpg. wt., 8 oz.

**3K1316**—For 100 or 11 or 12 tubes.  
**3K1317**—For 201A or 301A tubes.  
 List, \$2.00. Special net.....\$1.20

### Bodine Twin-8 R. F. Transformer



Closed-field coil for improving all r.f. circuits. Combines very limited field with tremendous high amplification, more so than is generally possible for .00035

with limited-field coils. Cond. Shpg. wt., 1 lb.  
**3K3600**—Set of 3 matched transformers. List, \$6.00. Net.....\$3.95  
**3K3623**—Type T-135. For use with Phasotron. List, ea., \$2.00. Net.....\$1.28  
**3K3624**—Type T-35. Antenna type to match. List, ea., \$2.00. Net.....\$1.28

### Tuned Radio Frequency Unit

**3K3613**—  
 Each  
 \$2.85  
 Three matched units  
 \$7.65

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. Shpg. wt., 4 1/2 lbs.



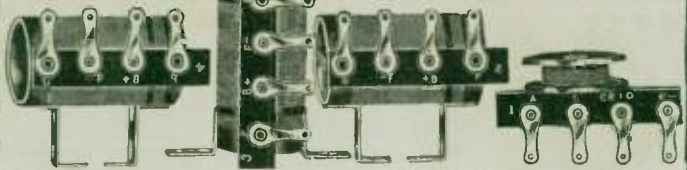
### Radio Frequency Coils



**3K3614**—Set of three. Net price .....\$2.45

Meltonoid form transformer coils for use in tuned radio frequency circuits. Provided with neutralizing taps. Green silk wire wound on genuine bakelite tubing.

## Coil Kit for 6 Tube R. F. Circuit



**3K3620**—List, \$7.50.

Net .....\$4.38  
 Contains the essential coil units and resistors for the most improved style of R.F. circuit. Includes three solenoid coils with mounting brackets and connecting strip, three resistors, one antenna resistance coil and hook-up sheet. To complete circuit requires 3-.00035 variable condensers

(either triple, double or single control); rheostat 20 or 25 ohm, battery switch, front panel and sub-panel, 6 tube sockets, 5 Amperites or other current controls, 2 audio transformers, 2-1 mfd fixed cond., 1 grid leak and condenser, 1 .002 mfd fixed cond., 10 binding posts, binding post strips and hook-up wire. Shpg. wt., 1 1/2 lbs.

### Bruno No. 99 3-Circuit Tuner



Primary and secondary wound on quartzite glass rod. Tickler coil permits regeneration without squeaks. Single hole mounting. Pigtailed rotor leads. 2 1/2 in. high; 2 1/2 in. diam. Shpg. wt., 8 oz.

**3K3621**—200 to 575 meters for .00025 or .00035 condenser. List, \$5.50. Net .....\$3.24

**3K3622**—20 to 110 meters for .0001 condenser. List, \$5.50. Net.....\$3.24

**3K3007**—R.F. Transformer. Same construction as tuner. Primary in center of secondary. Very low loss and efficient. Size, 2 1/2 x 2 1/2 in. List, \$3.00. Net.....\$1.77

### 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 1/2 in. outside diam, 1 1/2 in. deep. Especially desirable for compact sets. No interstage coupling. Tunes 200 to 550 meters with .00035 condenser. Shpg. wt., 2 lbs.

**3K3014**—Per set of three. List, \$6.50. Net.....\$3.25

### Spaced-Air-Wound Radio Transformer

Perhaps the most efficient type of coil made. Very high amplification with minimum losses. Sharp tuning, pure tone quality. Firm and strong. Easily mounted. Tunes 200 to 550 meters with .00035 condensers. Shpg. wt., 2 lbs.  
**3K3015**—Per set of three. List, \$4.50. Net .....\$2.25



### R. F. Choke Coils

Designed for use in all circuits to confine the radio frequency current. Prevents distortion in the amplifier. Very desirable in plate circuits of intermediate and untuned stages. Shpg. wt., 6 oz.

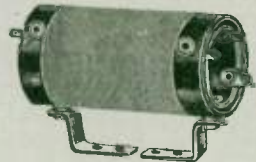
**3K3016**—Type 450 for 200-600 meters. List, 70c. Net.....42c  
**3K3017**—Type 850 for 600 meters up (intermediate stage). List, 80c. Net.....48c

### Wood Form Variometer



**3K3605**—Variometer. List, \$3.50. Net, each.....98c  
 Accurate wood forms thoroughly seasoned. Correct inductive ratios. Solid baked windings. Plenty of large sized wire insures highest efficiency.

### Solenoid R. F. Transformer Coils



**3K3612**—Set of three. Retail price, \$4.00. Net.....\$2.00

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. Shpg. wt., 12 oz.

### Shielded R. F. Transformer Coils



**3K3601**—Set of three. Retail, \$7.50. Net .....\$3.75

Consist of solenoid wound coils mounted inside of copper "can." Full electrostatic and electromagnetic shielding without eddy current losses. Units may be mounted in any position desired. Also prevent coil "pick-up," eliminate interstage coupling and add increased sensitivity and selectivity to any tuned radio frequency circuit. Binding post connections. Easily mounted. Height, 4 inches. Diameter, 2 1/2 inches. Shpg. wt., 2 lbs. 4 oz.

### Duo-Control 3-Circuit Tuner



Air spaced coils, with green silk insulation. Primary and tickler are variable. An especially desirable type of tuner. Permits very close tuning. Tunes out interference. Gets greatest distance. Covers 200 to 600 meters with .00035 condenser.  
**3K3018**—List, \$6.00. Net.....\$3.45

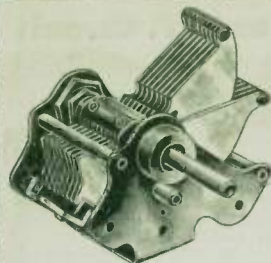
### Little Giant Doughnut R. F. Transformer

**3K3611**—Set of Three. List, \$5.25. Net.....\$3.48

Send - band windings. The smallest doughnut coil, only 2 1/2 inches diameter, short magnetic path. Has no core or supporting frame. Tunes over range of 200 to 575 meters with .00035 condenser. Volume on high wave lengths is as great as on low waves. Antenna coil tapped for long, medium and short antenna. Bracket for mounting. Shpg. wt., 1 lb.



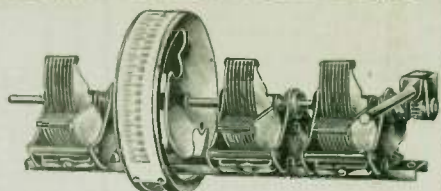




## Set Builders Special Condensers

A big condenser value for the set builder and manufacturer who desires a quality condenser at a low price. All types have removable shafts and are strongly built mechanically. Heavy brass plates held in alignment with brass tie rods. Excellent insulation with minimum dielectric. Very low loss and highly efficient. The drum dial type illustrated. All units .00035 mf. Modified straight-line wavelength tuning curve.

	Shpg. wt.	List	Net
3K3419—Single—Brass	12 oz.	\$ 2.50	\$0.90
3K3420—Triple—With Drum Dial	3 1/2 lbs.	15.00	5.95
3K3421—Triple—With Link Motion	3 lbs.	9.00	5.40
3K3422—Double—With Link Motion	2 lbs.	6.00	3.60



## Coto-Variable Air Condenser

Built upon a rigid aluminum casting, non-warping and non-cracking. Unique bearing makes operation smooth and easy. Positive electrical connections. Novel construction avoids absorption and resistance losses.



Practically straightline characteristics. Mounted in horizontal or vertical position and reversed as to direction. Plates may be removed to make any capacity desired. Shpg. wt., 1 1/4 lbs.

	List	Net
3K3416—.0005 max.	\$4.50	\$1.80
3K3417—.0007 max.	5.00	2.00
3K3418—.001 max.	6.00	2.00

## Chelton Midget Condensers

Best grade construction. Fine looking. Used as verifiers on any condenser or separately as a neutralizing or balancing condenser. Shpg. wt., 4 oz.



	List	Net
3K3423—Panel Mount type—13 plates maximum .00045.	\$1.50.	
Net, each.		.90c
3K3424—Panel Mount type—9 plates maximum .00035.	List, \$1.50.	
Net, each.		.90c
3K3426—Base Mount type—9 plates maximum .00035.	List, \$1.75.	
Net, each.		\$1.05

## Hammarlund, Jr.



Soldered brass plates, cone bearings. Has new locking device for fixing rotor plates in any position. Bakelite knob, 3/4-in. diameter shaft.

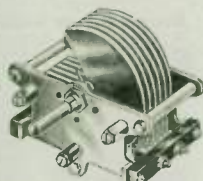
	Shpg. wt., 5 oz.	M. Cap.	List	Net
3K3335—.00016		\$1.50	\$0.90	
3K3336—.00032		1.50	.90	
3K3337—.00064		1.50	.90	
3K3338—.00065		2.00	1.20	
3K3339—.0001		2.25	1.35	
3K3319—Table Mounting bracket for above.	Each.		15c	

## Cardwell Variable Condensers

Pioneers in precision-made instruments. Accuracy equal to laboratory requirements. Superior mechanical designs will keep them that way.

### Type E

Taper plate, clockwise rotation only. Tuning curve midway between straight wave length and frequency.



	Shpg. wt., 1 1/4 lbs.	Mfd.	List	Net
3K3400—1911E		.000075	\$4.00	\$2.80
3K3401—1671E		.00015	4.00	2.80
3K3402—1681E		.00025	4.25	2.97
3K3403—1691E		.00035	4.75	3.25
3K3443—1921E		.0005	5.00	3.38

### Type C

Tuning curve gives straight frequency at low end and straight wave length at top.

	Shpg. wt., 1 1/4 lbs.	Mfd.	List	Net
3K3444—167C		.00015	\$4.00	\$2.80
3K3445—168C		.00015	4.00	2.80
3K3446—170C		.00025	4.25	2.97
3K3447—171C		.00035	4.75	3.25
3K3448—173C		.0005	5.00	3.38

## Cardwell Balancer

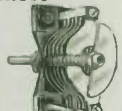
A midget condenser of supreme efficiency.

### Type Cap.

	Shpg. wt., 1 1/4 lbs.	Single actly	List	Net
607A .00025		\$1.25	\$0.87	
3K3457—				
609A .00035		1.25	.87	
3K3458—				
615A .0005		1.50	1.05	

### Type Dual Capacity

	Shpg. wt., 1 1/4 lbs.	Cap.	List	Net
3K3459—614A		.00025*	2.25	\$1.57
3K3460—622A		.0004*	2.50	1.75
*Each Side.				



## Hammarlund Transmitting Condensers

Tested to withstand very high potentials.

	Max. Cap.	List	Net
3K3461—.0001 mfd.		\$ 6.00	\$3.90
3K3462—.0002 mfd.		7.00	4.55
3K3463—.0004 mfd.		10.00	6.50

## Karas Orthometric Short Wave Condensers

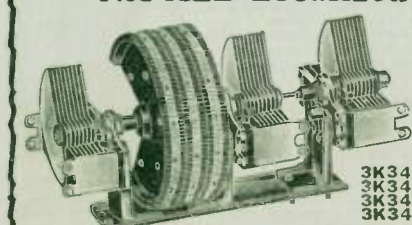


Straight-line frequency type. Rotor is installed to the frame and binding post insuring noiseless action. Resistance is negligible.

	Capacities	mfd.	List	Net
3K1823—5		1001	\$6.50	
3K1809—7		140	Net.....	\$3.90
3K1824—11		250		

See Page 72 for other Karas Products.

## NA-ALD Localized Control Unit



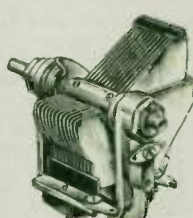
Multiple Condenser units on a straight shaft. Speedometer type controls for separate condensers placed side by side for convenient manipulation. Control placed flush with panel. Handsome embossed bronze face plate included. Corrected frequency type condensers used. Condenser units capacity .000375. Shpg. wt., 2 to 4 lbs.

	List	Net
3K3411—Double cond.	\$8.00	\$4.80
3K3412—Triple cond.	10.00	6.05
3K3413—Quadruple cond.	15.00	9.50
3K3410—Double cond. with tickler control.	10.00	6.50

## Hammarlund

## Midline Condensers

A scientific precision condenser. Hard brass rotor and stator plates of high conductivity placed in slotted brass posts and soldered securing 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. Lenses 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 ranges separated on tandem shaft can be built up from the single units. Template, hand-capacity shield and anchoring screw included. All units accurately matched in capacity. Tested on 1,000 volts A.C. Ideal for drum dial. Shpg. wt., 1 1/4 lbs.



	Cap.	Plates	List	Net
3K3321—.0005	23	\$5.50	\$3.30	
3K3322—.00035	17	5.25	3.15	
3K3329—.000275	13	5.10	3.06	
3K3323—.00025	11	5.00	3.00	
3K3331—.0001	5	4.75	2.85	
3K3325—.00015	7	5.00	3.00	
3K3332—.0001	1-10*	5.00	3.00	

	Shpg. wt., 1 1/4 lbs.	Cap.	List	Net
3K3340—11		.00025	\$7.75	\$4.65
3K3341—13		.000275	8.25	4.95
3K3342—17		.00035	8.75	5.00
3K3343—23		.0005	9.25	5.00

	Shpg. wt., 2 1/4 lbs.	Cap.	List	Net
3K3345—11		.00025	\$11.00	\$7.15
3K3346—13		.000275	12.00	7.80
3K3347—17		.00035	13.00	8.45

	Shpg. wt., 2 1/4 lbs.	Cap.	List	Net
3K3348—11		.00025	\$11.00	\$7.15
3K3349—13		.000275	12.00	7.80
3K3350—17		.00035	13.00	8.45

\*Capacities given are for each unit.

## 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. Minimum capacity, 2 mfd. 3K3307—Each. . . . . 31c



## Insulated Flexible Coupling

Its flexibility permits operation of any number of condensers in tandem, without requiring exact alignment of condensers. Bakelite insulation. Bronze springs. Two sets screws. 3K3308—Each. . . . . 36c



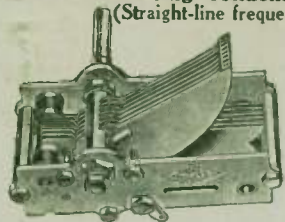
## Condenser Shafts

	Material	Length	Each
3K3309—	Brass	8 in.	14c
3K3310—	Brass	12 in.	19c
3K3311—	Brass	16 in.	25c
3K3312—	Bakelite	8 in.	34c
3K3313—	Bakelite	12 in.	51c
3K3348—	Bakelite	16 in.	68c

Shpg. wt., Brass 8 oz.; Bakelite 4 oz.



## Amseo Allocating Condensers (Straight-line frequency)

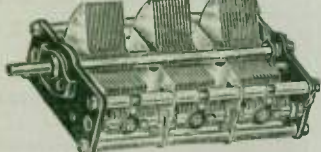


Grounded rotor, aluminum outer frame, rotor studs at zero and full scale positions, flexible plate connections and rotor shaft of chromium nickel needle steel make this a highly efficient and desirable instrument. Polished nickel-plated frame. **Single Unit.** Shipping wt. 1 lb.

**3K3508**—No. SLF1213—13 plates, cap. .0003 mfd. List, \$2.75. Net, **\$1.65**  
**3K3509**—No. SLF1217—17 plates, cap. .00035 mfd. List, \$3.00. Net, **\$1.80**  
**3K3510**—No. SLF1223—23 plates, cap. .0005 mfd. List, \$3.50. Net, **\$2.10**

**Double Unit**  
**3K3511**—No. SLF1226—13 plates, cap. .0003 mfd. List, \$5.50. Net, **\$3.45**  
**3K3512**—No. SLF1234—17 plates, cap. .00035 mfd. List, \$6.00. Net, **\$3.60**  
**3K3540**—No. SLF1246—23 plates, cap. .0005 mfd. List, \$7.00. Net, **\$4.35**  
 Shipping weight, 1½ lbs.

## Amseo Gang Condenser



Allocates stations on dial in equal wave length divisions. Rotors on common shaft for single dial control. Insulated rotors. Connected stators. Perfect bearings. Single hole mounting. Electrically shielded. Easily and accurately compensated. Shipping wt. 2 lbs.

**3K3450**—2-gang .00035 6.50 4.23  
**3K3451**—2-gang .0005 7.50 4.88  
**3K3478**—3-gang .00035 13.00 8.46  
**3K3453**—3-gang .0005 15.00 9.76

## 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 ¼ in. shaft, 3 in. dial required on vernier type included. Shipping wt. 1 lb.



No. M. Cap. Type List Net  
**3K3479**—00025 Plain \$2.00 **\$0.89**  
**3K3409**—001 Plain 3.50 **1.10**  
**3K3465**—00025 Vernier 3.50 **1.75**  
**3K3464**—001 Vernier 4.50 **1.75**



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

**3K2932**—List, \$1.75. Net, **\$1.15**

## Bakelite End Condensers



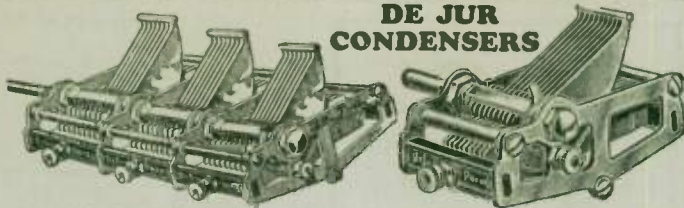
Sturdy, heavy aluminum alloy plates perfectly spaced to insure smooth, even, reliable capacity, and plates genuine bakelite. Workmanship unusually good and careful. 1-inch shaft. Shipping wt. 1 lb.

Plain Without Dial List Net

**3K3438**—3 plate vernier 1.30 48c  
**3K3439**—11 plate, .00025 1.60 62c  
**3K3440**—17 plate, .00035 1.78 70c  
**3K3441**—21 plate, .0005 1.80 72c  
**3K3442**—13 plate, .001 2.00 89c

**Vernier Condensers**  
 Same as above, with single-plate Vernier Including Dial and Knob. Net.  
**3K3501**—00025 mfd. 89c  
**3K3502**—0005 mfd. 93c  
**3K3503**—0001 mfd. 95c

## DE JUR CONDENSERS

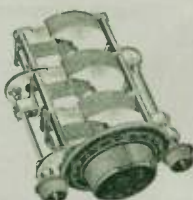


Moulded Bakelite insulation outside electrostatic field suspends stator plates which bear only on one point. Condenser frame grounded to rotor, eliminates all hand capacity. End tie bar of rotor supports spacing uniform. End plates of brass, finished in highly polished nickel. Direct electrical connection made from rotor to frame by spring phosphor bronze pig-tail connector. Small phase angle difference; low minimum capacity. Double and triple gang fitted with compensators. Shipping wt. 1 lb., single, 1½ lbs., double; 2½ lbs., triple.

**3K3480**—00014 mfd. Single List Net  
**3K3481**—00025 mfd. Single 3.00 1.80  
**3K3470**—00035 mfd. Single 3.25 1.95  
**3K3471**—0005 mfd. Single 3.50 2.10

**3K3472**—00035 mfd. Double List Net  
**3K3473**—0005 mfd. Double 6.50 3.90  
**3K3474**—00035 mfd. Double 7.00 4.20  
**3K3475**—0005 mfd. Triple 10.50 6.30

## U. S. L. Compensated Multiple Variable Condenser



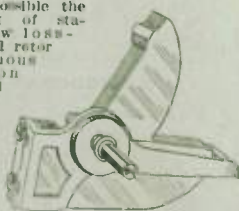
This condenser makes possible the construction of one dial control sets. Used with any good type of coil maximum results will be obtained and reception will equal or surpass the best results obtainable when using three separate condensers. Capacity each unit .00035.

Bakelite 3-inch dial. Rigid construction. Radon insulation. Low minimum capacity. .000111—Extends 6¼ inches back of panel, 5 inches wide, 3 inches high when open. Shipping wt., 4 lbs.

**3K3500**—List price, \$13.50  
 Net price, ..... **\$8.60**

## Pacent S. L. F. Condensers

Makes possible the equal-spacing of stations. Low loss—grounded rotor in continuous connection with metal end-plate. Small absorption losses. Simple 1-hole mounting. Shipping wt., 1 lb.



**3K3427**—00035 Cap. List Net  
**3K3428**—0005 Cap. 3.50 2.06  
 4.50 2.63

## Signal Condenser

Separates uniformly over the entire 360 degrees of the dial all broadcast wave lengths from 150 to 600 meters. Low minimum capacity. At no point on the dial will stations be crowded. Resistance losses are extremely small. Partial connections. Single or three hole mount. Shipping wt., 1½ lbs.

**3K3435**—00025 1 list, \$4.00.

**3K3436**—00035 Net ..... **\$1.95**

**3K3437**—0005

## Pilot Condensers



Parts are gold finished, end plates heavy polished aluminum. Automatic constant tension, pig-tail lead to rotor, extension shaft in rear, low minimum capacity, extremely low losses, single or two-hole mounting. Shaft ¼ in. diameter. Calibration and coil data furnished. Shipping wt., 1½ lbs. each.

**3K4161**—8 p. .00017 mfd. List Net  
**3K4151**—13 p. .00030 mfd. 2.10 1.23  
**3K4152**—17 p. .00035 mfd. 2.30 1.30  
**3K4198**—23 p. .00050 mfd. 2.50 1.38

**S. L. F. Precision Type** List Net  
**3K4051**—8 p. .00017 mfd. \$1.90 **\$1.16**  
**3K4035**—13 p. .00030 mfd. 2.10 **1.24**  
**3K4036**—17 p. .00035 mfd. 2.30 **1.31**  
**3K4037**—23 p. .00050 mfd. 2.50 **1.39**

## Camfield Synchrotune Condenser

A new invention making possible perfect synchronization of two or more tuning circuits. Especially adapted to construction of single control super-hets. Will make any set single dial control. Ten points of adjustment over scale and once adjusted it need never be touched again. Complete instructions included. Shipping wt. 2 lbs.

**3K4033**—Type 350 .00035 mf. List, \$14.75.

Net, ..... **\$8.85**

**3K4055**—Type 500 .0005 mf. List, \$15.00.

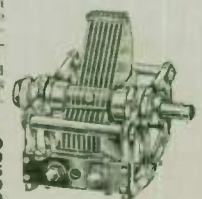
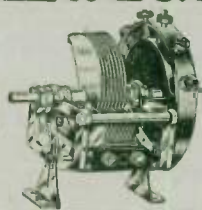
Net, ..... **\$9.00**

## Camfield Equaltune Condensers

These condensers are an outstanding achievement in the radio field. Recommended for many sets in which single control multiple tuning is essential. Equipped with special adjustment for perfect synchronization. No necessity for trimmers. Shaft may be shortened or lengthened without disturbing rotor adjustment. Mounted from either end. Variable spring tension provided. Rotor mounted on ball-bearings.

Insuring long life. Designed for either panel or baseboard mounting. Plates finished in bright dipped brass. Other parts nickel plated. Made in single, double and three gang units. For all purposes. Ship. wt.

No. lb. oz. List Net  
**3K4065** 151 Single Gang .00015 mf. 14 \$5.00 **\$3.00**  
**3K4066** 251 Single Gang .00025 mf. 15 5.50 **3.30**  
**3K4067** 351 Single .00035 mf. 1 5.75 **3.45**  
**3K4068** 352 Two Gang .00035 mf. 1 13 10.50 **6.30**  
**3K4069** 353 Three Gang .00035 mf. 2 10 15.00 **9.00**  
**3K4070** 501 Single .0005 mf. 1 3 6.00 **3.60**







### K-K Aristocrat Vernier Dial

3K1400—Black—0-100-0 }  
3K1401—Walnut—0-100-0 }  
3K1407—Black—0-200 }  
List, \$2.00, Net.....\$1.20

Can be used either clockwise or counterclockwise.

Most artistic and attractive vernier dial on the market. Made of genuine black bakelite in handsome polished finish. Easy to install. Requires only one hole for condenser shaft, and two small anchor holes. No screws visible on the panel. The split bushing insures permanent ease of operation without possibility of the condenser shaft slipping. No gears to strip. No back lash. Ratio of vernier 14 to 1. Constructed along lines of beauty and service. Beauty is evident, service is proven. Housing is 4 inches wide by 4 1/4 inches high.



### Bakelite Knob

A beautiful version 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.

3K1402—Black. List price, 45c. Net 23c  
3K1403—Walnut. List price, 45c. Net 26c

### Etched Dial Plate

Brass plate with etched graduation. Gives any set neat appearance. Easily mounted on steel bakelite or composition panel. Recommended for use with the bakelite knob above.

3K1404—Each.....



30c

### Aristocrat Rheostat Pointer Knob

Same design as the bakelite knob above but built on a smaller scale for use on rheostats and potentiometers.

3K1418—Black. List, 30c. Net.....

3K1419—Walnut. List, 30c. Net.....18c

### Rheostat Knobs

Small bakelite knobs with arrow pointer. Completes a handsome appearance when used on rheostats in sets equipped with etched plates and pointer knob.

3K1405—Black } List price, 20c. Net 12c  
3K1406—Walnut }



### Vernier Dial Adjuster

3K1438—Each.....13c  
Installed at edge of dial. A slight turn gives closest adjustment. Postage, 2c extra.



### Accuratune Dial

Combines efficiency with appearance. Distinctive in appearance and in its mechanically improved. Absolutely no back lash. Fine adjustment and smooth operation, with space for logging. Encased in bakelite. Twelve to one reduction. Graduated 360 degrees on the dial, either reading.

Postage, 5c extra.  
3K1439—Your price.....\$1.39

### Pilot Vernier Dial

Improved vernier dial. Genuine bakelite. Vernier ratio 10 to 1. No back lash. Diameter 4 in. For 3/4 in. shaft. List, each, \$1.00, Net 60c. Shp. wt., 12 oz.  
3K4031—Clockwise.



### Apex Vernier Dial



Runs true, parallel to panel. No back lash. Quiet, no friction noises. Easily installed. Artistic metal dials, beautifully etched in jewelry finish. Diameter, 4 inches. Shp. wt., 1 lb.

3K1500—Royal Brass. Each.....86c  
3K1501—Satin Silver. Each.....97c  
3K1502—Deluxe Gold Plated \$1.39

### B. M. S. Vernier Dial

A distinctly new design vernier dial. Moulded of genuine bakelite. Richly embossed pattern. 3 1/4 inches wide; 4 1/4 inches high; gear ratio, 15 to 1. Space for logging. Shp. wt., 1 lb.

3K1744—Retail, \$1.50. Net 90c



### ARISTOCRAT DIALS

Genuine bakelite dials finished in either black or walnut. Use them together in the different sizes required; they give that attractive manufactured appearance to any set.



	Black Finish	Walnut Finish	List	Net
3K1412—4 in.	100-0	85c	43c	
3K1411—4 in.	0-100	85c	43c	
3K1410—3 in.	100-0	60c	32c	
3K1409—3 in.	0-100	60c	32c	
3K1408—2 in.	rheostat dial	40c	21c	
3K1417—4 in.	100-0	85c	45c	
3K1416—4 in.	0-100	85c	45c	
3K1415—3 in.	100-0	60c	34c	
3K1414—3 in.	0-100	60c	34c	
3K1413—2 in.	rheostat dial	40c	23c	

### Marco 4-Inch Vernier Dials

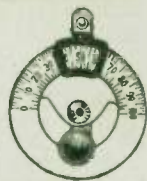


A non-microphonic, no backlash vernier dial that makes tuning easy and simple. Two openings in the face for recording either wave lengths or call letters. Black bakelite case to harmonize with panel.

Special template for proper fitting. Metal parts heavily nickel plated and polished. A good seller, attractively priced. The best looking and most popular vernier dial this season. 4-inch vernier type. Shp. wt., 116 lbs. List \$2.00, Net \$1.20  
3K1430—0-100.....  
3K1431—100-0.....2.00 1.20  
3K1445—Illuminated.....2.50 1.50  
3K1446—Illuminated.....2.50 1.50  
0-200-360 degrees.....

### Marco Illuminated Control

The newest in dial features. A black panel mounting dial with scale illuminated from the rear, making visible reading in a dark room. Non-microphonic; no back lash. A bakelite bezel with glass crystal protects the scale and assures accurate reading. A good seller. Complete with template and instructions. Bulb included. Shp. wt., 1 1/4 lbs. List price, \$3.00. Net.....\$1.80  
3K1434—0-100.....  
3K1447—100-0.....  
3K1448—360 degrees.....



### Marco Rheostat Dial

Designed for use with the Marco condenser dials. Diameter, 2 1/4 in. 3K1429—List price, 75c. Net.....45c

### Genuine Bakelite Dials

The best dial value on the market. Moulded of genuine bakelite in polished black finish. Scale in contrasting white. Large deep fluted knob allows positive action. For 1/4 inch shaft.

### Gee Haw Vernier Dial

A high grade dial. Excellent quality. No back lash, no slipping. Slightest pressure on knob will move it. 100-1 vernier ratio. Black bakelite knob. Silvered dial. Diameter 4 inches. Postage 5c extra.  
3K1506—List price, \$2.50. Net.....\$1.50

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### PILOT Vernier Drum Dial

A precision dial. Both fast and slow motion tuning. Fits any condensers with 1/4 in. shaft. No back lash. Condensers can be mounted on either side. Superior to any other drum control. Shp. wt., 1 lb.

List Net

3K1543—Single Drum. \$3.75 \$2.25

3K1544—Double Drum 7.00 4.20



### PILOT Art Dials

The most beautiful dial we have seen. Velvet vernier. White and black figures in combination give clockwise or anticlockwise control. Strong and substantial, easily carries "gang" condensers without slippage or back lash. Made of genuine black bakelite.

3K1440—Black. List, 95c. Net.....57c

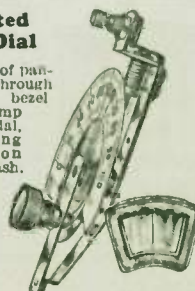
### Illuminated Vernier Dial

Mounts back of panel with view through special window bezel. Tiny Mazda lamp shows through dial, making reading easy. Friction drive; no back lash. Bakelite knob. Complete with drilling template, bulb and bezel.

3K1443—

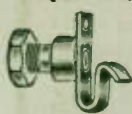
List.....\$1.50

Net.....98c





## Special Tip Jacks



Used in place of plug jacks where rapid change from 1 phone to 2 speaker is desired.

3K2419—  
List price, per pair.....12c

## Cutler-Hammer Toggle Switch



This is the newest in panel switches. A flip of the finger puts it ON or OFF. A simple, quiet operating switch mechanism. Neatly etched plate for panel provides definite indication. Simple one-hole mounting.

3K2510—C-H Toggle Switch  
List. 60c. Net.....39c

## Cutler-Hammer Heavy Duty Switch

3K2511—List price, 60c.  
Net.....39c

Controlled by pull and push button. Quick make and break connection. Working parts enclosed in dustproof insulated case.

Easily attached. Shpg. wt., 4 oz.

## Cutler-Hammer Radio-Lock Switch

Protects not from tampering. Easily mounted, operates with a key, two of which are furnished with the lock. Shpg. wt., 4 oz.

3K2509—List. 60c. Net. 39c



## Miniature Switches

3K2521—Single pole, single throw. List. 60c. Net.....39c  
3K2522—Single pole, double throw. List. 70c. Net.....42c  
3K2585—Double pole, single throw. List. 90c. Net.....59c  
3K2524—Double pole, double throw. List. \$1.00. Net.....60c  
3K2526—Triple pole, double throw. List. \$1.50. Net.....90c  
3K2527—Four pole, double throw. List. \$2.00. Net. \$1.30  
3K2528—Five pole, double throw. List. \$2.50. Net. \$1.50

Bases and handle of polished hard rubber. Nickel plated metal parts. Single throw types to 2 inches long. Double throw types 2 1/2 inches long.



## Special Miniature Switches

3K2518—Single pole, single throw. List. 20c. Net.....12c  
3K2519—Single pole, double throw. List. 30c. Net.....18c  
3K2520—Double pole, double throw. List. 50c. Net.....30c

Compact, substantial, neat appearing. For base or panel mounting. Bakelite base 1 1/2 inches long. Highly nickel plated blades and posts.

## 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.

Each  
3K2404—Open circuit.....18c  
3K2405—Closed circuit.....20c  
3K2406—Double circuit.....22c  
3K2407—Single circuit filament control.....31c  
3K2408—Double circuit filament control.....33c

# CARTER QUALITY PRODUCTS



## Carter Midget Rheostat

A high quality rheostat at a remarkably low price. Smallest rheostat made. Diameter 1 1/2 inches. Projects 1/2 inch from panel. One piece all-metal frame, absorbs and radiates heat more readily than a moulded frame. Wires cannot move and short circuit. Shpg. wt., 6 oz.

List price, 50c. Net price, 30c

3K653 2 ohm 3K656 20 ohm

3K654 6 ohm 3K657 25 ohm

3K655 10 ohm 3K658 30 ohm

3K656 20 ohm 3K659 40 ohm

3K657 25 ohm 3K660 50 ohm

3K658 30 ohm 3K661 60 ohm

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3K694 390 ohm 3K697 420 ohm

3K695 400 ohm 3K698 430 ohm

3K696 410 ohm 3K699 440 ohm

3K697 420 ohm 3K700 450 ohm

3K698 430 ohm 3K701 460 ohm

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3K702 470 ohm 3K705 500 ohm

3K703 480 ohm 3K706 510 ohm

3K704 490 ohm 3K707 520 ohm

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3K717 620 ohm 3K720 650 ohm

3K718 630 ohm 3K721 660 ohm

3K719 640 ohm 3K722 670 ohm

3K720 650 ohm 3K723 680 ohm

3K721 660 ohm 3K724 690 ohm

3K722 670 ohm 3K725 700 ohm

3K723 680 ohm 3K726 710 ohm

3K724 690 ohm 3K727 720 ohm

3K725 700 ohm 3K728 730 ohm

3K726 710 ohm 3K729 740 ohm

3K727 720 ohm 3K730 750 ohm

3K728 730 ohm 3K731 760 ohm

3K729 740 ohm 3K732 770 ohm

3K730 750 ohm 3K733 780 ohm

3K731 760 ohm 3K734 790 ohm

3K732 770 ohm 3K735 800 ohm

3K733 780 ohm 3K736 810 ohm

3K734 790 ohm 3K737 820 ohm

3K735 800 ohm 3K738 830 ohm

3K736 810 ohm 3K739 840 ohm

3K737 820 ohm 3K740 850 ohm

3K738 830 ohm 3K741 860 ohm

3K739 840 ohm 3K742 870 ohm

3K740 850 ohm 3K743 880 ohm

3K741 860 ohm 3K744 890 ohm

3K742 870 ohm 3K745 900 ohm

3K743 880 ohm 3K746 910 ohm

3K744 890 ohm 3K747 920 ohm

3K745 900 ohm 3K748 930 ohm

3K746 910 ohm 3K749 940 ohm

3K747 920 ohm 3K750 950 ohm

3K748 930 ohm 3K751 960 ohm

3K749 940 ohm 3K752 970 ohm

3K750 950 ohm 3K753 980 ohm

3K751 960 ohm 3K754 990 ohm

3K752 970 ohm 3K755 1000 ohm

3K753 980 ohm 3K756 1010 ohm

3K754 990 ohm 3K757 1020 ohm

3K755 1000 ohm 3K758 1030 ohm

3K756 1010 ohm 3K759 1040 ohm

3K757 1020 ohm 3K760 1050 ohm

3K758 1030 ohm 3K761 1060 ohm

3K759 1040 ohm 3K762 1070 ohm

3K760 1050 ohm 3K763 1080 ohm

3K761 1060 ohm 3K764 1090 ohm

3K762 1070 ohm 3K765 1100 ohm

3K763 1080 ohm 3K766 1110 ohm

3K764 1090 ohm 3K767 1120 ohm

3K765 1100 ohm 3K768 1130 ohm

3K766 1110 ohm 3K769 1140 ohm

3K767 1120 ohm 3K770 1150 ohm

3K768 1130 ohm 3K771 1160 ohm

3K769 1140 ohm 3K772 1170 ohm

3K770 1150 ohm 3K773 1180 ohm

3K771 1160 ohm 3K774 1190 ohm

3K772 1170 ohm 3K775 1200 ohm

3K773 1180 ohm 3K776 1210 ohm

3K774 1190 ohm 3K777 1220 ohm

3K775 1200 ohm 3K778 1230 ohm

3K776 1210 ohm 3K779 1240 ohm

3K777 1220 ohm 3K780 1250 ohm

3K778 1230 ohm 3K781 1260 ohm

3K779 1240 ohm 3K782 1270 ohm

3K780 1250 ohm 3K783 1280 ohm

3K781 1260 ohm 3K784 1290 ohm

3K782 1270 ohm 3K785 1300 ohm

3K783 1280 ohm 3K786 1310 ohm

3K784 1290 ohm 3K787 1320 ohm

3K785 1300 ohm 3K788 1330 ohm

3K786 1310 ohm 3K789 1340 ohm

3K787 1320 ohm 3K790 1350 ohm

3K788 1330 ohm 3K791 1360 ohm

3K789 1340 ohm 3K792 1370 ohm

3K790 1350 ohm 3K793 1380 ohm

3K791 1360 ohm 3K794 1390 ohm

3K792 1370 ohm 3K795 1400 ohm

3K793 1380 ohm 3K796 1410 ohm

3K794 1390 ohm 3K797 1420 ohm

3K795 1400 ohm 3K798 1430 ohm

3K796 1410 ohm 3K799 1440 ohm

3K797 1420 ohm 3K800 1450 ohm

3K798 1430 ohm 3K801 1460 ohm

3K799 1440 ohm 3K802 1470 ohm

3K800 1450 ohm 3K803 1480 ohm

3K801 1460 ohm 3K804 1490 ohm

3K802 1470 ohm 3K805 1500 ohm

3K803 1480 ohm 3K806 1510 ohm

3K804 1490 ohm 3K807 1520 ohm

3K805 1500 ohm 3K808 1530 ohm

3K806 1510 ohm 3K809 1540 ohm

3K807 1520 ohm 3K810 1550 ohm

3K808 1530 ohm 3K811 1560 ohm

3K809 1540 ohm 3K812 1570 ohm

3K810 1550 ohm 3K813 1580 ohm

3K811 1560 ohm 3K814 1590 ohm

3K812 1570 ohm 3K815 1600 ohm

3K813 1580 ohm 3K816 1610 ohm

3K814 1590 ohm 3K817 1620 ohm

3K815 1600 ohm 3K818 1630 ohm

3K816 1610 ohm 3K819 1640 ohm

3K817 1620 ohm 3K820 1650 ohm

3K818 1630 ohm 3K821 1660 ohm

3K819 1640 ohm 3K822 1670 ohm

3K820 1650 ohm 3K823 1680 ohm

3K821 1660 ohm 3K824 1690 ohm

3K822 1670 ohm 3K825 1700 ohm



## Yaxley Radio Jacks



These jacks are superior in design and quality—genuine bakelite used for insulation. Springs extra heavy phosphor bronze. Silver contact points. Widely spaced terminals. Mounts on up to 1/2 in. panel. Shipping wt., 6 oz.

**3K2409**—Open Circuit No. 1. List, 50c, Net, ..... **30c**  
**3K2410**—Closed Circuit No. 2A. List, 60c, Net, ..... **36c**  
**3K2411**—Double Circuit No. 4. List, 80c, Net, ..... **48c**  
**3K2412**—Single Open Circuit Filament Control for last audio stage No. 3. List, 70c, Net, ..... **42c**

## Yaxley Junior Jacks



For use where space is at a premium. Extends only 1 1/4 in. behind panel. 1 3/4 in. long overall. Shipping

wt., 6 oz.  
**3K2427**—No. 701 Open Circuit. List, 40c, Net, ..... **24c**  
**3K2428**—No. 702 Closed Circuit. List, 55c, Net, ..... **33c**  
**3K2500**—No. 703 Single Circuit Filament Control. List, 65c, Net, ..... **39c**  
**3K2501**—No. 704 Interstage. List, 75c, Net, ..... **45c**  
**3K2502**—No. 707 Interstage Filament Lighting. List, \$1.05, Net, ..... **65c**

## Yaxley Phone Plugs



Neat appearing plug. Highly polished bakelite handles. Perfect contact and bakelite insulation prevent leakage. Shorts are impossible. Shipping weight, 6 oz.  
**3K1517**—No. 50. For one phone or speaker. List, 50c, Net, ..... **30c**  
**3K1510**—No. 75. Duplex for two phones or speakers. List, 50c, Net, ..... **30c**

## Cord Extension Jack



Connects extension cord or wire to Speaker or Phones may be plugged at a point distant from the set. Shipping weight, 6 oz.  
**3K1522**—No. 100. List, 75c, Net, ..... **45c**

## Pup Jack and Plug



Very small, easy to mount, phone tip jack. Mounts in 3/16 in. hole. Nickel finish. Plug designed to use as phone tip without soldering. Ship. wt., 3 oz.  
**3K4451**—No. 418 Pup Jack. List, per pair, 25c, Net, ..... **15c**  
**3K4452**—No. 415 Pup Plug. List, each, 10c, Net, ..... **6c**

## Midget Jack and Plug



Serves same purposes as Pup Jacks and Plugs, except larger. Mounts in 1/8 in. panel hole. Shipping weight, 2 oz.  
**3K4453**—No. 16 Midget Jack. List, each, 30c, Net, ..... **18c**  
**3K4454**—No. 15 Midget Plug. List, each, 15c, Net, ..... **10c**

## Switch and Pilot

A gentle reminder to turn off the radio. Brilliant jewel. Small 6 v. lamp. Complete with switch, lamp and jewel. Shipping weight, 4 oz.

**3K2541**—List, 75c, Net, ..... **45c**  
**3K2542**—No. 310 Pilot Light only without switch. List, 50c, Net, ..... **30c**



## Panel Light



Illuminates dials, making tuning easy. Mounts in 1/2 in. hole. Shipping weight, 4 oz.  
**3K2543**—No. 330. List, 50c, Net, ..... **30c**  
**3K2564**—Panel Light Bulb. List, 30c, Net, ..... **18c**  
**3K2565**—Pilot Light Bulb. Each, 20c, Ten for, ..... **\$1.40**

# YAXLEY

## Yaxley Convenience Outlets

These outlets fit any standard switch box. Plate is insulated from jack. Very convenient for battery connection.



For Battery Connection. No plug included.

**3K2566**—No. 137. List, \$2.50, Net, ..... **\$1.50**

## For Loud Speaker



Consists of jack and name-plate. Mounted on wall plate. Use one in each room.

**3K2567**—No. 135. List, \$1.00, Net, ..... **60c**

## Antenna and Ground Plate



Two tip jacks mounted on plate with markers.

**3K2568**—List, \$1.00, Net, ..... **60c**

## Gang Plates

The above may be obtained on one plate as follows:

**3K2569**—No. 238 Two-gang Plate with Aerial, Ground and Loud Speaker Jacks. List, \$2.00, Net, ..... **\$1.20**  
**3K2570**—No. 239 Two-gang Plate with Aerial, Ground and Battery Connections. List, \$3.50, Net, ..... **\$2.10**  
**3K2571**—No. 250 Three-gang Plate with Loud Speaker, Antenna, Ground and Battery Connections. List, \$4.50, Net, ..... **\$2.70**



## Inductance Switches



1 1/2 inches diameter. Perfect contact. Complete with dial plate and knob.

**3K2672**—No. 44—4-Point ..... List, 75c, Net, ..... **45c**  
**3K2673**—No. 70—8-Point ..... List, 80c, Net, ..... **48c**  
**3K2674**—No. 90—9-Point ..... List, 90c, Net, ..... **54c**

## Jack Nameplates



Fit under Jack Nut. Very neat. Letters etched on silver background.

Each, 5c; Ten for, ..... **33c**  
**3K2630**—Detector ..... **3K2535**—Radio  
**3K2631**—1 Stage ..... **3K2536**—Loud  
**3K2632**—2 Stage ..... **3K2537**—Off-On Speaker

## Yaxley Cable Connector



With these devices, unsightly battery wires are brought to set in one neat, compact cable.



Set is easily disconnected for cleaning. Cannot be inserted improperly. Therefore, you always have the correct connections. All have bakelite plug base—no loose pins or springs. Easily soldered. Standard RMA colors. Equipped with tagged rubber 5 ft. long.  
**3K2575**—No. 670 for sets equipped with binding posts. Pin plug has 15 in. pigtail. List price, \$4.00, Net, ..... **\$2.40**  
**3K2576**—No. 660 Subpanel mounting type for the Kit Builder. List, \$3.00, Net, ..... **\$1.80**

## SEPARATE PARTS

	List	Net
<b>3K2577</b> —No. 640 Pin Plug, 15 in. leads	\$1.50	\$0.90
<b>3K2578</b> —No. 650 Receptacle Plug and Cable	2.50	1.50
<b>3K2579</b> —No. 680 Base Mounting Plates	1.00	.60
<b>3K2580</b> —5 ft. Cable	1.00	.60
<b>3K2581</b> —8 ft. Cable	1.45	.87

## Yaxley Rheostats

**3K4419**—2 ohms  
**3K4446**—3 ohms  
**3K4469**—6 ohms  
**3K4470**—10 ohms  
**3K4422**—20 ohms  
**3K4471**—25 ohms  
**3K4423**—30 ohms  
**3K4444**—60 ohms  
**3K4447**—100 ohms  
 List, each, \$1.35, Net, ..... **81c**



Air cooled bakelite frame. No excessive heating. Single hole mount. Complete with knob. Ship. wt., 10 oz.  
 Potentiometer, same construction. Complete with dial. Shipping weight, 10 oz.  
**3K4424**—200 ohms | List, \$1.75  
**3K4426**—400 ohms | Net, \$1.05  
**3K4448**—1000 ohms |  
**3K4455**—2000 ohms |

## Switching Rheostat

Same as standard rheostat, except emulates filament switch of highest grade. Complete with knob. Ship. wt., 10 oz.  
**3K4456**—2 ohms |  
**3K4457**—3 ohms |  
**3K4459**—6 ohms |  
**3K4460**—10 ohms |  
 List, each, \$1.75, Net, ..... **\$1.05**

## Pilot Switching Rheostat

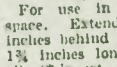
Same as above, but has pilot light which mounts above knob. Jewel furnished. Shipping weight, 12 oz.  
**3K4461**—6 ohms |  
**3K4462**—10 ohms |  
**3K4463**—25 ohms |  
 List, each, \$2.00, Net, ..... **\$1.20**

## Yaxley Midget Battery Switch



**3K2508**—List Price, 50c, Net, ..... **30c**  
 Small filament control snap switch. Quick action. One-hole mounting.  
**3K4464**—No. 11 single pole, double throw. List, each, 65c, Net, ..... **39c**

## Yaxley Junior Jack Switch



For use in small space. Extends 1 1/2 inches behind panel; 1 3/4 inches long over all. Ship. wt., 10 oz.  
**3K2503**—Battery Switch. List price, 70c, Net, ..... **42c**  
**3K2504**—Two Circuit. List price, 85c, Net, ..... **51c**  
**3K2505**—Double Circuit. List price, 95c, Net, ..... **57c**  
**3K2506**—Five Spring. List price, \$1.10, Net, ..... **66c**  
**3K2507**—Two Way Two Circuit. List price, \$1.20, Net, ..... **72c**

## Resistance Units

Units for any radio purpose. Small, accurate, provided with combination screw eye and solder lug.



Yaxley	Resistance	Yaxley	Resistance
List, each, 15c, Net, ..... <b>10c</b>			
<b>3K3223</b> —1 ohm	<b>3K3231</b> —10 ohms		
<b>3K3224</b> —2 ohms	<b>3K3248</b> —15 ohms		
<b>3K3226</b> —3 ohms	<b>3K3249</b> —20 ohms		
<b>3K3227</b> —4 ohms	<b>3K3251</b> —25 ohms		
<b>3K3228</b> —5 ohms	<b>3K3252</b> —30 ohms		
<b>3K3229</b> —6 ohms	<b>3K3253</b> —40 ohms		
<b>3K3230</b> —8 ohms			
List, each, 35c, Net, ..... <b>21c</b>			
<b>3K3254</b> —50 ohms	<b>3K3256</b> —200 ohms		
<b>3K3255</b> —100 ohms	<b>3K3257</b> —400 ohms		

## Filament Resistances

Same construction as above. Designed to control tube filaments as follows:  
**3K3258**—No. 1L—For 1-201A type tubes  
**3K3259**—No. 2L—For 2-201A type tubes  
**3K3260**—No. 3L—For 3-201A type tubes  
**3K3261**—No. 4L—For 4-201A type tubes  
**3K3262**—No. 5L—For 5-201A type tubes  
**3K3263**—No. 6L—For 6-201A type tubes  
 List, each, 15c, Net, ..... **10c**

## Grid Resistances

Wire wound resistance for the grid circuit to damp oscillations. Mount directly to socket. Shipping weight, 2 oz.  
**3K3264**—200 ohms ..... **3K3265**—400 ohms  
**3K3266**—500 ohms ..... **3K3267**—1000 ohms  
 List, each, 25c, Net, ..... **15c**  
**3K3268**—600 ohms ..... **3K3271**—1500 ohms  
**3K3269**—800 ohms ..... **3K3272**—2000 ohms  
 List, each, 35c, Net, ..... **21c**







# TOBE FIXED CONDENSERS

## Tobe Filter and By-Pass Condenser

Working voltage up to 300 volts D. C. Accurate ratings. Perfectly and rigidly constructed, allowing little variation in rated capacity. Case of matt-finished aluminum; very compact and neat in appearance. Shpg. wt., 12 oz.



No.	Cap. Mf.	List	Net
3K429	1	\$0.70	\$0.42
3K430	.25	.75	.45
3K431	.5	.90	.54
3K432	1	1.25	.75
3K433	2	1.75	1.05
3K435	4	3.75	2.10

## Tobe 760 "B" Block

For use with Raytheon or Q. R. S. 85 mill. and similar tubes where plate supply currents do not exceed 300 volts D. C.

Contains on 8 mfd., two 2 mfd. and two 10 mfd. Easy connecting terminals at bottom of silvered metal case. Shpg. wt., each, 3 1/2 lbs.

**3K465**—List, \$11.00.

Net, \$6.60

**3K466**—B1 Block. Contains two 4 and one 6 mfd. 400 v. cond. For B. H. tube. List, \$11.00. Net, \$6.60

**3K471**—Tobe No. 210. Capacity, 2-2-2-0-1-4. List, \$13.00. Net, \$7.80

**3K472**—Tobe No. 171. Capacity, 8-2-2-0-1-1 mfd. List, \$12.00. Net, \$7.20

**For Raytheon A-B-C**

Power supply using 350 MU tube. Shpg. wt., 3 1/2 lbs.

**3K497**—No. 1; 4-4 mfd. List, \$10.00. Net, \$6.00

**3K498**—No. 2; 8-1-1 mfd. List, \$10.50. Net, \$6.30

**3K499**—For Q. R. S. Power Supply using 400 MU tube. 16 mfd. List, \$14.00. Net, \$8.40

## Dubilier Moulded Micadon

Moulded bakelite condenser of compact size, highly efficient. Accurate, moisture proof. Shpg. wt., 2 oz.

No.	Cap. Mf.	List	Net
3K462	.0001	\$0.45	\$0.27
3K463	.00025	.45	.28
3K464	.0005	.45	.29
3K468	.001	.50	.30
3K473	.002	.50	.31
3K474	.0025	.50	.32
3K479	.004	.50	.32

## Dubilier Condensers 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. Shpg. wt., 12 oz. to 3 lb.

No.	Mr. Volt	List	Net
3K400	1 160	\$2.00	\$1.20
3K401	2 160	2.50	1.50
3K402	4 160	3.50	2.10
3K403	6 160	5.00	3.00
3K404	1 400	2.50	1.50
3K405	2 400	3.50	2.10
3K406	4 400	5.50	3.30
3K407	6 400	7.50	4.50
3K408	1 600	3.00	1.80
3K409	2 600	5.50	3.30
3K410	4 600	7.50	4.50
3K411	6 600	11.50	6.90



## Tobe 600 Line

Operate continuously on 1,000 v. D. C. Standard high voltages of American, Thordarson and other power packs. Silvered containers. Terminals arranged to permit compact bank wiring. Two larger sizes are 5 inches high, 5 1/2 inches wide, 1 1/2 and 3 inches deep. Shpg. wt., 1 1/2 to 2 1/2 lbs.



No.	Cap. Mf.	List	Net
3K441	0.5	\$2.00	\$1.20
3K442	1.0	2.50	1.50
3K443	2.0	3.50	2.10
3K444	4.0	6.00	3.60

## Tobe 400 Line

Designed for continuous operation on 400 volts D. C. Suitable for "A", "B" and "C" Eliminators using Raytheon, Q. R. S. 85 mill. or 210 B Tubes. Short Path-type. Very compact. Strouglugs for connections. Attractive silver finished case. Shpg. wt., 1 1/2 lbs.

No.	Cap. Mf.	List	Net
3K437	1	\$2.00	\$1.20
3K438	2	2.75	1.65
3K439	4	4.50	2.70

## Tobe Buffer Condenser Unit

Contains two 0.1 high test condensers for eliminator transformer secondary. For use with above unit. Shpg. wt., 12 oz.

**3K467**—List, \$2.00. Net, \$1.20

Tobe Condensers stand up in use. They will withstand voltage specified with a wide margin of safety. Rated capacities are accurate and remain so. For these reasons Tobe Condensers are specified by radio engineers and experts in most new circuits now being brought out.

## Tinytobe Condensers

The smallest condensers made. So light that no other support than the bus wire to where they are attached is required. Case is 1-in. wide, 1 1/2-in. high, 1/4-in. thick. In 0001 size for constant operating voltage not over 500 volts D. C. Shpg. wt., 2 oz.



No.	Capacity Mf.	List	Net
3K451	.0001	35c	21c
3K453	.00025	35c	22c
3K455	.0005	35c	23c
3K454	.001	40c	24c
3K455	.002	40c	25c
3K456	.003	40c	26c
3K457	.004	40c	26c
3K458	.005	45c	27c
3K460	.01	55c	33c
3K461	.02	60c	36c

## Tobe Interference Filter



Motors in the home such as 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. Here is a big sales possibility. Shpg. wt., 4 1/2 lbs.

**3K469**—List, \$15.00. Net, \$9.00

## Polymer Condenser Blocks



## Special Block for Raytheon Circuit

**3K536**—14 Mfd. Total shpg. wt., 5 lbs. List, \$9.50. Net, \$5.80

**3K537**—1-C-1 Mfd. Shpg. wt., 10 oz. List, \$2.00. Net, \$1.20

**3K584**—R210 Thordarson Block—totaling 11 Mfd. Shpg. wt., 5 lbs. List, \$14.00. Net, \$8.40

**3K585**—American Block—totaling 8 Mfd. Shpg. wt., 5 lbs. List, \$12.00. Net, \$7.20

**3K586**—Raytheon "A.B.C." Eliminator Blocks. An efficient assembly unit totaling 19.2 Mfd. for use with Raytheon BA-350 tube and consisting of following units: Block "A", tapped at 4-1-c, Block "B", tapped at 6-8-1-1-c-1, Small Buffer type F1001, tapped 1-2-1. Shpg. wt., 5 1/2 lbs. List, \$22.00. Net, \$13.20



## Dubilier Micadon 640C

With mounting for tubular grid leak. No grid leak included. **3K424**—00025. List, 45c. Net, 29c

## Polymer Hi-Volt Condensers

For by-pass and filter circuits. Non-Inductive Type. Long life, free from leakage. Made with finest linen paper and higher grade foil. Vacuum impregnated with most stable insulating compounds. Withstand voltage specified with wide margin of safety. Accuracy guaranteed within 5%. Shpg. wt., 3 lbs.



No.	Cap. Mf.	List	Net
3K588	.1	\$0.60	\$0.36
3K589	.25	.70	.42
3K590	.5	.80	.48
3K591	1	1.00	.60
3K592	2	1.50	.90
3K593	4	3.50	2.10

Type C, 1,000 volts D. C.

No.	Cap. Mf.	List	Net
3K594	.1	\$1.00	\$0.59
3K595	.25	1.50	.90
3K596	.5	2.00	1.20
3K597	1	2.50	1.50
3K598	2	4.00	2.40
3K599	4	7.00	4.20

## Polymer Mica Condensers

Guaranteed within 5 percent of accuracy and individually tested to withstand 500 volts breakdown test. Shpg. wt., 2 oz.



3K546	.00015 with grid leak clips	13c
3K547	.00025	14c
3K548	.00025 with grid leak clips	17c
3K549	.0005	15c
3K551	.0005 with grid leak clips	18c
3K552	.001	17c
3K553	.002	18c
3K554	.0025	19c
3K555	.005	25c
3K556	.006	29c
3K557	.01	36c

## Polymer Moulded Condenser

Composed of alternate layers of finest mica and carefully inspected foil, individually tested to insure accuracy and finally impregnated and compressed by a special process.

This perfect Condenser section is then molded in highest quality bakelite. Shpg. wt., 2 oz.

No.	List	Net
3K569	.00005 \$0.35	\$0.17
3K570	.0001 .35	.18
3K571	.00025 .35	.19
3K572	.0005 .35	.21
3K573	.001 .40	.23
3K574	.002 .40	.24
3K576	.0025 .40	.25
3K577	.005 .50	.30
3K578	.006 .50	.34
3K579	.01 .90	.54
3K568	.02 1.50	.79

With Grid Leak Clips

No.	List	Net
3K677	.00015 \$0.45	\$0.29
3K678	.00025 .45	.30
3K679	.0005 .45	.31

## Sangamo Mica Condensers



Impervious to moisture. Mica Condenser molded in smooth brown bakelite, enclosed for protection. They are accurate and stay accurate. Small size, 1 1/2 x 3 1/2-in. Shpg. wt., 3 oz.

No.	List	Net
3K558	.00004 40c	26c
3K559	.0001 40c	26c
3K560	.00025 40c	26c
3K561	.0005 50c	33c
3K562	.001 50c	33c
3K563	.002 50c	33c
3K564	.005 70c	45c
3K565	.01 85c	53c
3K566	.0075 95c	61c
3K446	—Grid leak or resistor clips. Pair, 7c	



# DAVEN PARTS

## Daven Tubes



These tubes are manufactured in two types especially for use in sets having Resistance Coupled Amplifiers. The type Mu-20 is recommended for detector and first and second audio stage. For the last audio stage use type Mu-6. The 201A type are superior to most tubes of this type offered and supply uniform appearance to complete set of tubes. Fit all standard sockets. Ship. wt., 12 oz.

**2K910—Mu-20.** List, \$2.25, Net.....\$1.53  
**2K911—New Mu-6.** List, \$4.50, Net.....3.15  
**3K907—Type 201A (Same style bulb).** List, \$1.75, Net.....1.23

## Electric Phonograph



### Pick-Up

A new idea in pick-ups. Magnetic type with double coil. Completely covers musical range with equal efficiency. Greatest volume. No needle scratch noise. Has volume control. Used without changing phonograph tone arm. Ship. wt., 2 1/2 lbs.

**3K923—List, \$17.50, Net...\$10.50**



## Daven Glastor

These new Daven resistors entirely eliminate the use of impregnated paper or fibre. Glastor will carry a much higher and is absolutely noiseless. Will not vary from rated value under any condition. Ship. wt., 2 oz.

No.	Ohms	Merch. List	Net
3K2905	2,500	.0025	\$1.00
3K2906	5,000	.005	1.00
3K2907	12,000	.012	.75
3K2908	25,000	.025	.75
3K2909	50,000	.05	.75
3K2910	100,000	.1	.75
3K2911	250,000	.25	.75
3K2912	500,000	.5	.75
3K2913	1,000,000	1.	.75
3K2914	2,000,000	2.	.75
3K2915	5,000,000	5.	.75
3K2916	10,000,000	10.	.75
3K2917	7,000,000	7.	.75
3K2918	10,000,000	10.	.75

## New Improved Daven R. F. Coils

Solenoid type coils, small external field. Designed for use in Daven R. F. Note Circuit with 6000 Condensers. Suitable for use in any circuit of this type. Range 200 to 550 meters. Greater Selectivity. Ship. wt., 1 1/2 lbs.



**3K2941—Set of 3 coils.** List, \$8.00, Net.....\$4.80

## Amplifier Kit Type 3-K

For 3 stages of amplification and for those who prefer self assembly. All resistors and grid leaks are included (no sockets). Contains three Daven No. 42 Resisto-Couplers, fitted with coupling condensers of proper capacity. Gives best tone quality and volume on sets using "B" batteries. When assembled will produce the same results as the Daven Super Amplifier. Packed complete with instructions for building. Ship. wt., 1 1/2 lbs.



**3K2901—List, \$8.00, Net.....\$4.80**

### Type 3L Kit

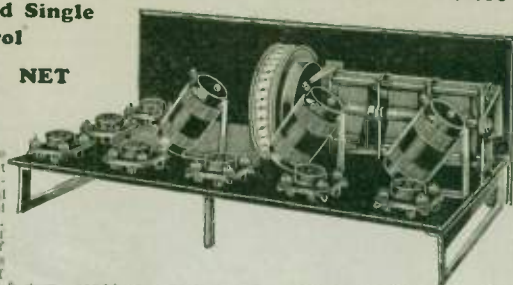
Intended especially for operation with "B" Eliminator sets and with superheterodyne circuits. Will not "motor-boast". Ship. wt., 2 1/2 lbs.

**3K2931—List, \$8.00, Net.....\$4.80**

## New Daven Seven Tube Bass Note Circuit

Illuminated Single Dial Control

**\$41<sup>10</sup> NET**



The Bass Note Circuit is built around resistance coupled amplification and the D. R. F. coils. Purity of tone, quality of reproduction is the first aim of this set. This feature, combined with great volume and marvelous selectivity, make this one of the most favored of all circuits for quality entertainment. The circuit employs seven tubes—3 stages R. F., detector and 3 Daven Resistance coupled audio. Ship. wt., 15 lbs.

**3K2976—Complete set of parts not assembled with 7x18 drilled and engraved panel and sub-panel, single dial control condensers. No tubes, no cabinets.** List, \$68.50, Net.....\$41.10

**3K2977—Set of 7 Daven Tubes for Bass Note Circuit—3 type 201A, 3 type Mu20 and 1 type Mu6. Ship. wt., 4 lbs. List, \$16.50, Net.....\$11.55**

## Anti-Motorboater



Prevents motor boating in resistance coupled amplifiers. Increases power handling capacity. Quickly installed by replacing grid leak in second audio stage. Ship. wt., 3 lbs.

**3K2978—List, \$4.00, Net.....\$2.40**

## Daven Filament Ballast

Eliminates the filament rheostat—automatically regulates current to tubes. Saves wiring space and "A" Battery Current. One Daven Ballast will control the filament of from one to five tubes. Price includes mounting. Ship. wt., 4 oz.

<b>3K2936—1 Tube 1/4 Amp.</b>	List, each, \$1.00.
<b>3K2937—2 Tubes 1/4 Amp.</b>	
<b>3K2938—3 Tubes 1/4 Amp.</b>	
<b>3K2939—4 Tubes 1/4 Amp.</b>	
<b>3K2940—5 Tubes 1/4 Amp.</b>	Net...\$0.60
List, each, \$1.00, Net.....	\$0.60

## Daven Resisto-Coupler

The fixed coupling condenser is sealed in the base. Resistor and grid leak are not included in the price as low as 10 w. The range of values of these are as follows:

Plate Resistor, all stages 100,000 ohms.  
 Grid Leaks: 1st stage, 1 meg.; 2d stage, 1/2 meg.; 3d stage, 1/4 meg. Instructions included. Ship. wt., 6 oz.  
 Price without resistors. List, \$1.50  
 Net.....90c  
**3K2904—B-Battery type.**  
**3K2930—B-Eliminator type (will not "motor-boast").**



## Grid Stabilizer

Inserted in Grid circuit of each R. F. Tube, it stops squeals and whistles—oscillations. Ship. wt., 4 oz.

List, each, 75c, Net.....45c  
**3K2942—200 ohm.** **3K2945—500 ohm.**  
**3K2943—300 ohm.** **3K2946—600 ohm.**  
**3K2944—400 ohm.** **3K2947—750 ohm.**

## Hi-Duty Glastor



The big brother of the Daven Glastor—made the same way. Designed particularly for "B" Eliminators where high current capacity is required. DO NOT OVERLOAD. Ship. wt., 4 oz.

List, \$1.00, Net.....60c

No.	Ohms	Merch. List	Current Carrying Capacity
3K2950	2,500	.0025	28.00 MA
3K2951	5,000	.005	20.00 MA
3K2952	10,000	.01	14.00 MA
3K2953	15,000	.015	11.50 MA
3K2954	25,000	.025	8.90 MA
3K2955	50,000	.05	6.75 MA
3K2956	100,000	.1	4.48 MA
3K2957	500,000	.5	2.00 MA

## Daven Mount

Bakelite base. Nickel-plated fittings, with nuts and lugs for connections. Grid leak not included. Ship. wt., 4 oz.



**3K2903—No. 50 Standard Resistance Mounting.** List, 35c, Net.....22c

## Daven Manual

Resistors—their practical applications in radio reception. Giving circuit diagrams and other data by leading authority. Ship. wt., 4 oz.

**2K2902—List, 25c, Net.....17c**



## New Improved Super Amplifier Type "3S"



A compact 3 stage resistance coupled unit including all resistors, grid leaks and coupling condensers of the proper capacity. Each loading post terminals in rear. Moulded bakelite base 4 1/2 x 7 1/2. All interior wiring complete. Sockets fit all standard tubes. Equipped with "C" battery binding posts on each stage permitting power loading of each individual tube, giving greater power without distortion. Ship. wt., 2 1/2 lbs.

**3K2900—List, not including tubes. List, \$15.00, Net.....\$9.00**



## De Jur Wired Resistance Amplifier



3K946—Retail price \$8.00. Your price, special..... \$4.80

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. Shpg. wt., 2 lbs.

### Durham Metallized Resistors



Has new type resistor consisting of a film of metal supported on a glass rod and sealed within a glass tube. No open circuits. No loose contacts. Shpg. wt. 2 oz.

Meg.	List	Net
3K3037—1	\$0.50	\$0.30
3K3038—2	.60	.30
3K3041—3	.50	.30
3K3039—4	.50	.30
3K3042—5	.50	.30
3K3043—.75	.50	.30
3K3044—1	.50	.30
3K3045—.25	.50	.30
3K3046—.3	.75	.45
3K3047—.1	.75	.45
3K3048—.05	.75	.45
3K3049—.025	.75	.45

### Lynch Metallized Fixed Resistors



Metallized resistors recognized as the most reliable and constant electrical conductor. Lynch resistors have a concentrated metallized deposit on a glass core sealed within a glass tube. This construction gives a conductive non-arc resistance absolutely noiseless and permanently accurate. Guaranteed not to develop noises nor open circuit. Shpg. wt. 2 oz.

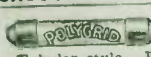
Meg.	List	Net
3K3143—3	\$0.50	\$0.29
3K3144—3	.60	.30
3K3145—2	.50	.31
3K3146—1	.50	.32
3K3147—.50	.60	.33
3K3148—.25	.60	.33
3K3201—.1	.75	.48
3K3202—.05	.75	.48
3K3203—.025	.75	.48
3K3204—.01	1.00	.67
3K3205—.005	1.00	.67

### Allan Bradley Fixed Resistor



A fixed resistor, accurately calibrated, for resistance coupled amplifiers, "B" eliminators, etc. Terminal clips included. Silver-plated metal parts. Shpg. wt. 2 oz.

Meg.	List	Net
3K3051—10	\$0.60	\$0.39
3K3052—5	.60	.39
3K3053—3	.60	.39
3K3054—2	.60	.39
3K3055—1	.60	.39
3K3056—2.5	.60	.39
3K3057—1	.60	.39
3K3058—.5	.60	.39
3K3059—.25	.60	.39
3K3060—.1	.60	.39
3K3061—.05	.60	.39
3K3062—.025	.75	.48
3K3063—.01	.75	.48
3K3064—.005	.75	.48
3K3065—.0025	1.00	.65
3K3066—.001	1.00	.65
3K3067—.0005	1.00	.65



### Polymet Grid Leaks

Tubular style. Resistance unit is metal, therefore permanent. Guaranteed within 5% of ratings. Shpg. wt. 2 oz.

Meg.	List	Single	Lots of Ten
3K3070—1/4	3K3074—3	neg.	neg.
3K3071—1/2	3K3075—5	neg.	neg.
3K3072—1	3K3076—7	neg.	neg.
3K3073—2	3K3077—10	neg.	neg.
Single lots, 15c.	Lots of ten, 12c.		
100 lots			10c

### Polymet Resistors

For resistance coupled amplification. Very accurate. Shpg. wt. 2 oz.

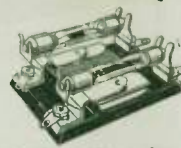
Meg.	Price	Lots of Ten
3K3078—.005	75c	30c
3K3079—.025	75c	30c
3K3080—.05	50c	25c
3K3081—.1	50c	25c

### Mountings for Grid Leaks



3K3123—Single Mounting Ea. 13c  
3K3124—Double Mounting Ea. 23c  
Shpg. wt. 2 oz.

### Polymet Three Stage Resistance Amplifier



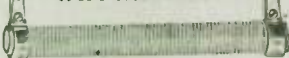
All parts of this kit are finest quality. Resistor and condenser bases are of genuine molded bakelite. Resistors and condensers are well made and accurate. The kit includes the following: 3 resistor couplers, 1 condenser mounting, 3,000 condensers, 3.1 meg. resistors, 1 .002 condenser, 1 grid leak 1/4 meg., 1 grid leak 1/2 meg., 1 grid leak 1 meg. Set of instructions and diagrams. Shpg. wt. 1 lb.  
3K3023—List, \$4.00. Net..... \$2.32  
3K3025—Single coupler without resistances but with .002 condenser. Shpg. wt. 1 lb.  
List, \$1.50. Net..... 69c

### 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  
List Net  
3K3083—5.75 .45 1,000 3K3190—1.25 .75  
3K3084—.75 .45 1,500 3K3191—1.25 .75  
3K3085—.75 .45 2,000 3K3192—1.25 .75  
3K3086—.75 .45 3,000 3K3193—1.25 .75  
3K3087—1.00 .60 5,000 3K3194—1.50 .90  
3K3088—1.00 .60 8,000 3K3195—1.50 .90  
3K3089—1.00 .60 10,000 3K3196—1.50 .90  
3K3090—1.00 .60 15,000 3K3197—1.50 .90  
3K3091—1.25 .75 20,000 3K3198—1.50 .90  
3K3092—1.25 .75 25,000 3K3199—1.75 1.05

### Electrad Truvolt Wire Resistances



Copper-nickel alloy resistance wire, closely wound on an asbestos cord having an enameled copper core. This whole assembly is wound on an insulative tube. Constant value, maximum heat dissipation.  
25 Watt—2 inches Long  
Ohms List Net  
3K3161—500 \$0.85 \$0.51  
3K3162—1,000 .85 .51  
3K3163—1,500 .85 .51  
3K3164—2,000 .85 .51  
3K3165—2,500 .85 .51  
3K3166—3,000 .85 .51  
3K3167—3,500 .85 .51  
3K3168—4,000 1.00 .60  
3K3169—4,500 1.15 .69  
3K3170—5,000 1.40 .98  
50 Watt—4 inches Long  
Ohms List Net  
3K3171—1,000 \$1.35 \$0.81  
3K3172—3,000 1.35 .81  
3K3173—5,000 1.36 .81  
3K3174—10,000 1.65 .99  
3K3175—15,000 1.65 .99  
3K3176—25,000 1.85 1.11

### Ward Leonard Resistors



The standard of quality for many years. Special resistance wire wound on porcelain tube coated with baked-on enamel. Rated at 44 watts. Length, 4 inches, 7/16-inch diameter. Shpg. wt. 10 oz.

Ohms	List	Net
3K3181—1,500	\$0.95	\$0.67
3K3182—2,000	1.00	.70
3K3183—2,500	1.00	.70
3K3184—3,000	1.00	.70
3K3185—3,500	1.25	.88
3K3186—4,000	1.50	1.15

### Vitrohm Resistance Kit

Eight separate resistors: 1-750; 3-1500; 1-3000; 1-3500; 2-5000. Total, 21,750 ohms. Many combinations can be made. Each unit size 2x7/16 inches. Rated 20 watts.  
3K3187—List, \$8.75. Net.... \$6.13

### Bradley Leak

Resistance can be varied from 1/4 to 10 megohms. Mounts on panel. Shpg. wt. 6 oz.

3K3121—Without condenser. List, \$1.85. Net..... \$1.30  
3K3122—With .00025 condenser. List, \$2.20. Net..... \$1.54



### Eagle Variable Grid Leak

Adjustable grid leak with a range from 0 to 50 megohms. Once set the instrument remains constant until readjusted. Shpg. wt. 2 oz.

3K3110—List price..... \$1.00  
Net..... 43c

### X-L Vario-Denser—Model G

Has variable capacity range. Easily gets value of grid capacity better suited for a particular tube or circuit.



Shpg. wt. 4 oz.  
3K3102—.00002 to .0001 M. F.  
3K3103—.0001 to .0005 M. F.  
3K3104—.0003 to .001 M. F.  
List price, \$1.50. Net..... 98c

Neutralizes grid and plate capacity in tuned radio frequency sets. Micrometer adjustment.  
3K3105—Model N. List, \$1.00. Net..... 65c

### Muter Variable Condensers

Condensers with adjustable capacities. Black moulded bakelite shell 2 1/2 inches long, 1 1/4 inches wide. Holes for mounting 1/2 inch, 2 1/2 inches from center to center. Shpg. wt. 4 oz.

3K3100—Variable balancing condenser. .000003 to .00005 M. F.  
3K3101—Variable grid condenser, .00015 to .0005 M. F.  
List price, \$1.00. Net..... 60c

### Aerovox Lavite Resistors

Built to carry a load. For "B" eliminators, service and resistance coupled amplifiers. For Power Packs, connect two in parallel on high voltage taps, thereby dividing the load. Will fit standard grid mounting or can be wired in circuit by means of the screws on end caps. Shpg. wt. 2 oz.

List price, each, \$1.00. Net, each, 50c. Lots of Ten..... 45c

Order size wanted by article number.  
3K3131—2,000 ohm 3K3137—50,000 ohm  
3K3132—5,000 ohm 3K3138—75,000 ohm  
3K3133—10,000 ohm 3K3139—100,000 ohm  
3K3134—15,000 ohm 3K3140—200,000 ohm  
3K3135—20,000 ohm 3K3141—250,000 ohm  
3K3136—25,000 ohm 3K3142—500,000 ohm



### Amsco Metallized Grid Gates and Resistors

Guaranteed accurate and to remain so. Noiseless. Resistor is metallic enclosed in sealed glass tube. Fits standard mounting. Shpg. wt. 2 oz.

Resistance Megohms	List	Net
3K1728—.0025	90c	57c
3K1729—.005	90c	57c
3K1730—.025	65c	42c
3K1731—.05	65c	42c
3K1732—.1	65c	42c
3K1733—.25	45c	29c
3K1734—.5	45c	29c
3K1735—1	45c	29c
3K1736—2	45c	29c
3K1737—3	45c	29c
3K1738—5	45c	29c
3K1739—10	45c	29c

### Amsco Resistor Mounting

3K1740—Ten for 95c. Each..... 15c  
Has two strong phosphor bronze, nickel-plated clips. Assures positive and noiseless contact. Shpg. wt. 4 oz.



## Brach-Stat

Automatic filament control of tubes. Eliminates hand rheostats. With mounting, complete.



- Last, \$1.00. Net 59c  
 3K3238—1 amp. (for 1-201-A)  
 3K3273—1 amp. (for 2-201-A or 2-112, 1-171)  
 3K3274—1 amp. (for 3-201-A, etc.)  
 3K3275—1 amp. (for 4-201-A or 2-112, etc.)  
 3K3276—1 1/2 amp. (for 5-201-A, etc.)  
 3K3277—1 1/2 amp. (for 6-201-A, etc.)  
 3K3239—0.6 amp. (for 1-199 or 4 1/2 V)  
 3K3278—1.25 amp. (for 1-199 or 4 1/2 V)  
 3K3279—1.9 amp. (for 3-199 or 4 1/2 V)  
 3K3280—2.5 amp. (for 4-199 or 4 1/2 V)  
 3K3281—3.15 amp. (for 5-199 or 4 1/2 V)

## Elkay Equalizer

With the entrance of new type tubes in radio sets were unprepared for rapid changes to the various types.



- Elkay has devised a control which equalizes the working voltage by inserting this device into the tube circuit. With slight change in wiring tubes may be changed on short notice by merely changing the control.  
 3K3218—For 1 201A tube. List price, 75c  
 3K3219—For 2 201A tubes. Including mounting, Net, 39c  
 3K3220—For 3 201A tubes  
 3K3221—For 112 tube  
 3K3225—For 199 tube

## Bradleystat

- 3K4431—List, \$1.85. Net, \$1.20  
 Latest improved type for use with all types of tubes. Provides an unbroken, noiseless, stepless range of control. One hole panel mounting. Enclosed switch to cut off current entirely. 2 inches long, 1 1/2 inch thick.



## Bradleyometers

- 3K4432—200 ohm. List, \$2.00. Net, \$1.30  
 3K4433—400 ohm. List, \$3.00. Net, \$1.95  
 The smooth, even precision resistance control for balancing of the plate and grid circuits.

## Bradleyohm Type E

An adjustable graphite disk resistor. Provides a wide stepless range of non-inductive resistance suitable for B eliminators. One hole mounting. Extends 1 1/2 inch behind panel.



- List, \$2.25. Net, \$1.46  
 3K4434—100 to 5,000 ohm.  
 3K4435—1,000 to 50,000 ohm.  
 3K4436—10,000 to 500,000 ohm.  
 3K4437—25,000 to 1,500,000 ohm.

## "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-hygroscopic. No parts to break or wear. Practically indestructible. Unusually high current-carrying capacity.

- List price, \$1.50. Net, 95c  
 3K3232—Type A Variable grid leak—1 to 7 megohms.  
 3K3233—Type B—1,500 to 100,000 ohms.  
 3K3234—Type C—500 to 50,000 ohms.  
 3K3235—Type D—10,000 to 700,000 ohms (detector control for B eliminators).  
 3K3282—Type E—0 to 2,000 ohms.  
 3K3283—Type K—0 to 5,000 ohms.  
 3K3284—Type G—0 to 10,000 ohms.  
 3K3285—Type H—0 to 25,000 ohms.  
 3K3286—Type J—0 to 200,000 ohms.  
 3K3287—Type L—0 to 100,000 ohms.  
 3K3236—Type B—Compensator, 500,000 ohms potentiometer for perfect tone and volume control. List price, \$2.00. Net price, \$1.30  
 3K3288—Tonatrol—Standard Volume Control. List price, \$1.50. Net, 95c  
 3K3289—Tonatrol—Type W. S. List, \$2.00. Net, \$1.30

## AMPERITE

The Self Adjusting Rheostat

REG. U. S. PAT. OFF.

The automatic filament control which eliminates all forms of hand rheostats from every type of radio receiving circuit and by perfect self-adjustment permits the uniformly efficient operation of vacuum tube filaments.

No moving parts. Permits the use of any type of tubes or any combination of tubes.

Amperite operates on the Thermo-Electric principle. It consists of a special treated filament hermetically sealed in a glass tube and surrounded by an inert gas. This filament has the unique property of changing its resistance automatically as the "A" battery voltage changes. Thus the vacuum tube filament is constantly operated at maximum efficiency—for the best volume and longest life.

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 66c  
 3K3207—No. 1-A—1 ampere type—for the UV-201-A; C-301-A; UX-201-A; CX-301-A; UX-200-A; DV-2 or any 1/4 ampere, 5 volt tube on the 6-volt "A" battery

3K3208—No. 4V-190—For the UV-190; C-200; UX-190; CX-200; DV-3 on 4 1/2 volts (3 dry cells) or on 4 volt storage battery.

3K3209—No. 6V-190—For the UV-190; C-200; UX-190; CX-200 and similar tubes on the 6-volt "A" battery.

3K3210—No. 112—1/2 ampere type—for the UX-112; CX-212; UX-171; CX-371 and similar tubes or 2 1/4 amp. 201-A tubes on the 6-volt battery.

3K3211—No. 120—For the UX-120 and the CX-220 on 4 1/2 volts (3 dry cells) or on the 4-volt storage battery.

3K3214—3-A—1 ampere—to control 3 1/4 amp. (201-A) tubes on 6 volts  
 3K3213—No. 4-A—For all 1 ampere 3-volt tubes or 4 1/4 amp. (201-A) on 6 volts.

3K3299—Double Amperite Mounting. Shp. wt., 4 oz. List, 70c. Net, 42c



## C.R.L. Radiohm and Modulator

Non-inductive variable resistances smoothly variable from zero to maximum. Modulator is used in audio frequency circuit to modulate and control volume. Bakelite shell and knob. 1-hole mounting.



- List, each, \$2.00. Net, \$1.30  
 3K3241—2,000 ohms max. Radiohm.  
 3K3242—25,000 ohms max. Radiohm.  
 3K3243—50,000 ohms max. Radiohm.  
 3K3244—100,000 ohms max. Radiohm.  
 3K3245—200,000 ohms max. Radiohm.  
 3K3246—500,000 ohms max. Modulator  
 3K3248—100 ohm max. Potentiometer  
 3K3247—2,000 ohm max. Potentiometer

## Standard Rheostats and Potentiometers

- 3K4500—0 ohm plain  
 3K4501—6 ohm vernier  
 3K4502—10 ohm rheo.  
 3K4503—20 ohm rheo.  
 3K4504—30 ohm rheo.  
 3K4505—50 ohm rheo.  
 Each, .26c  
 3K4506—200 ohm potentiometer. 39c  
 3K4507—400 ohm potentiometer. 50c  
 These instruments are of high quality and careful workmanship. High heat resisting base. Resistance element securely wound and will not work loose. Binding post connections. Standard spaced screw holes for mounting. Smooth working contact lever.



## DE LUXE RHEOSTATS

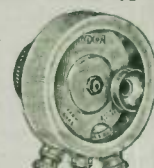


Fine looking rheostat of the highest quality. Carefully made of best materials.

- Genuine bakelite base. 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.  
 3K4604—2 ohm.  
 3K4605—6 ohm.  
 3K4637—10 ohm.  
 3K4606—20 ohm.  
 3K4608—30 ohm.  
 3K4609—50 ohm.  
 List, \$1.00. Net, 45c  
 3K4638—200 ohm potentiometer. List \$1.25. Net 65c  
 3K4611—400 ohm potentiometer. List \$1.25. Net 65c

## Naxon Variable Resistor

An ideal oscillation control, modulation and current control for both sets and battery eliminators. Gradual, clear action secured by rolling contact against resistance element. Roller enables high ratio vernier control. All vital parts encased in metal shield with transparent mica on rear. Equipped with bakelite knobs. One hole mounting.



- 3K3300—200,000 ohms. List price, \$2.00. Net, \$1.20  
 3K3301—500,000 ohms. List price, \$2.00. Net, \$1.20

## Frost De Luxe Rheostats

Nationally advertised. Carefully built, smooth operating and noiseless.

### Metal Frame

- 3K4400—2 1/2 ohms  
 3K4401—4 ohms  
 3K4402—6 ohms  
 3K4403—10 ohms  
 3K4404—25 ohms  
 3K4405—30 ohms  
 3K4406—50 ohms  
 3K4407—75 ohms



List price, 75c  
 Net, 45c

### Potentiometers

- 3K4408—200 ohms. } List price, \$1.00  
 3K4409—400 ohms. } Net, 60c  
 Bakelite Frame  
 3K4412—10 ohms } List each, \$1.00  
 3K4414—30 ohms } Net, 60c

### Metal Frame with Switch

- 3K3291—3 ohms. } List price, \$1.10  
 3K3292—10 ohms. } Net, 66c  
 3K3293—25 ohms.

### Bakelite Frame with Switch

- 3K3294—10 ohms. List, \$1.35  
 Net, 81c

## Frost Variable High Resistance



Non-inductive. Silent in operation. Resistance does not change under varying temperature or constant use. Nickel plated. Attractive arrow marked dial.

- 3K3845—50,000 ohm  
 3K3846—100,000 ohm  
 3K3847—200,000 ohm  
 3K3290—500,000 ohm  
 List, \$1.75  
 Net, \$1.05



### Crystal Detector

**3K3806**



Each .....28c  
Crystal enclosed  
in glass case. Cut  
whisker spring  
controlled by real  
projecting through  
composition top.  
Blinding past con-  
nections. No crystal included.  
Shpg. wt., 5 oz.

### Grewol Crystal Detector

**3K3808**—List, \$1.50, Net, .90c

Has permanent  
adjustments can be  
fully set and  
tested. Very sen-  
sitive. Always  
ready for use.  
Ideal for reflex  
circuits. Mounts  
on panel in very little space.  
Dust-proof glass cover. Shpg.  
wt., 4 oz.



### R. W. Crystal Detector

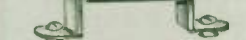
**3K3809**—List, \$1.50, Net, .90c

Seal-fixed.  
A touch of the knob gives sen-  
sitive spot. Hard rubber case  
with nickelized ends. Mounts  
on panel. Shpg. wt., 5 oz.

### Pyratek Fixed Detector

**3K3810**—List, \$1.25, Net, .85c

Permanent stability with great  
sensitivity. Especially recom-  
mended for reflex circuits. Stands  
high plate voltage. Has  
mounting clips. Shpg. wt., 4  
ounces.



### Dubilier Micadon Type 601



Best grade  
India sheet  
mica insula-  
tion and me-  
tallic foil  
placed between

pieces of genuine bakelite  
and sealed under pressure.  
Shipping weight, 2 oz.

No.	Capacity	List	Net
3K507	.00005	\$0.30	\$0.18
3K508	.0001	.30	.19
3K509	.00015	.30	.19
3K510	.00025	.30	.20
3K511	.00035	.30	.20
3K512	.001	.35	.21
3K513	.002	.35	.22
3K514	.0025	.35	.23
3K515	.003	.50	.30
3K516	.004	.50	.31
3K517	.005	.50	.32
3K518	.006	.50	.32

### Wave Trap Coil

**3K3707**—List, \$1.25, Net, .65c  
Slider web wound coil with loose cou-  
pled primary and secondary.  
Can be used in practically  
any wave trap circuit.  
Print and instructions in-  
cluded. Shpg. wt., 5 oz.



### Spider Web Coil for Reinartz Circuit

**3K3704**—Slide  
coil.....60c

Made of green silk  
covered wire, spider-  
web wound. 21 turns  
so arranged that  
crossing is avoided.  
Mounting bracket at-  
taches various styles  
of mounting. Direc-  
tions included.



### D-Coil Tuned R. F. Transformer

Consists of a tuned audio fre-  
quency transformer,  
mounted on the shaft  
of an Aeme low loss  
condenser, so that it  
can be tuned simul-  
taneously with the low  
circuit. Extremely  
low in radio frequency re-  
sistance, has a high ampli-  
fication factor and gives great selectivity.  
**3K4346**—List, \$15.00, Net, \$9.00



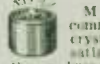
### Pandora Crystal Set



Nationally known for years,  
the Pandora crystal set is ef-  
ficient, compact and distinctive  
appearing. Simple adjustment.  
Covers entire broadcast band.  
20 to 30-mile range, longer  
for super-power stations. Crys-  
tal reception has perfect tone  
quality, no distortion. Shpg.  
wt., 2 lbs.  
**3K3833**—  
List Price, \$2.50. Net, \$1.15  
**3K3834**—Crystal set, com-  
plete with aerial and ground  
equipment, quality head phones.  
Shpg. wt., 5 lbs.  
Your special price.....\$4.35

### Broadcast Tested Crystals

Mounted. Good  
commercial quality  
crystals give results  
satisfactory for the or-  
dinary broadcast listener, not  
recommended for reflex cir-  
cuits. Shpg. wt., 2 oz.  
**3K3818**—Silicon.  
**3K3819**—Gallena.  
List, each.....10c  
Ten for.....60c



### Carborundum Detector

**3K3816**—List, \$1.50, Net, \$1.05

A detector using a specially  
selected carborundum crystal  
sealed under pressure. This  
insures permanent solid con-  
tact and dependable operation,  
guaranteed not to "burn out."  
Does not lose sensitivity. Gives  
more volume than other crys-  
tals. Best for reflex circuits.  
Shpg. wt., 3 oz.



### Carborundum Stabilizing Detector Unit

A highly  
efficient  
stabilizing  
device. By  
adjusting de-  
tector resist-  
ance to match  
the circuit,  
it absolutely  
controls self-oscil-  
lation in r.f. tubes. Permits  
operation in peak of regenera-  
tion—gives greater sensitivity,  
increased selectivity, cleaner  
tones. A small flash-light  
battery is all it needs. Com-  
plete with Carborundum De-  
tector. Shpg. wt., 2 oz.  
**3K3817**—List Price, \$3.50,  
Net (without battery), \$2.45



### Meter Tested Crystals

Produce loud and  
clear signals. These  
are exceptionally fine  
quality crystals. Labo-  
ratory tested on sen-  
sitive meters. Shpg.  
wt., 2 oz.  
**3K3820**—Silicon.  
**3K3821**—Gallena.  
List price, 60c, Net price, 39c



### Dutec 3K3822

List price, 30c,  
Net price, 21c  
A Duffiller  
chemically made  
radio resistor.

Replace crystals. Every point  
sensitive and remains so. No  
adjustments necessary. Mounted  
in cup ready for use. Shpg.  
wt., 2 oz.

**3K3823**—Genuine million  
point crystal. Sensitive all  
over. Mounted. Each, 21c

**3K3824**—Meteorite. A syn-  
thetic crystal mounted in  
metal cup. Very sensitive.  
Each.....12c

**3K3826**—Silver clay crys-  
tal, a fused crystal of great  
volume and clarity.  
Each.....17c



### Test Buzzer

**3K3828**—  
Each.....76c  
Watch case  
buzzer. Pol-  
ished nickel  
finish. Diam.,  
2 1/2 in. Shpg. wt., 4 oz.



### Test Buzzer Push Button

**3K3829**—  
Each.....21c  
A small compact but-  
ton with pearl center.  
Held in 1/2-inch hole  
by small spring clips. Shpg.  
wt., 2 oz.



### Aeme R. F. Transformer

Iron core type  
mounted in genuine  
bakelite case made  
with different wind-  
ings for each sep-  
arate stage of am-  
plification. For use  
in any type R. F. cir-  
cuit and especially suited to reflex circuits.  
Shpg. wt., 12 oz.



**3K4347**—R2 1st stage } List, \$3.00,  
**3K4348**—R3 2d stage } Net .....\$1.80  
**3K4349**—R4 3d stage }

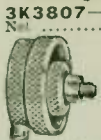
### B-T Short Wave Outfit

Consists of  
variable rotor  
mounted on  
bakelite base  
and a set of  
four inter-  
changeable  
coils covering  
the following  
range: 12 to  
25 meters, 25  
to 50 meters, 50 to 100  
and 100 to 200.  
Shpg. wt., 1 lb.  
**3K4241**—Short Wave Outfit, complete.  
List, \$8.50, Net.....\$5.20



### Microphone Button

**3K3807**—Retail Price, \$1.00,  
Net.....65c  
Carbon granule  
type. Can be ap-  
plied to any vi-  
brating surface or  
diaphragm. Used  
for broadcast  
modulation; for  
telephone and re-  
pair work; for dictaphones;  
for stethoscopes, amplifiers,  
etc. Offers every Radio fan  
the means of building his own  
powerful speech amplifier. In-  
struction sheet included. Shpg.  
wt., 4 oz.



### Zincite and Tellurium Detector

**3K3811**—List, 50c, Net, 33c

An efficient detector. Recti-  
fication is obtained by con-  
tact of two super sensitive  
crystals. No cut whisker used.  
Especially recommended with  
the use of tubes for reflex or  
other types or circuits. Shpg.  
wt., 6 oz.



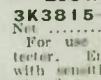
### Brownlie Vernier Detector

**3K3814**—List, \$2.00, Net, \$1.40  
Provides perfect re-  
flex or crystal re-  
ception. A combina-  
tion permanent,  
fixed and semi-ad-  
justable detector.  
Provides maximum  
rectification and pure tone.  
Simple to adjust. Shpg. wt.,  
4 oz.



### Brownlie Crystal

**3K3815**—List Price, 75c, Net, 52c  
For use with Brownlie de-  
tector. Entire surface alive  
with sensitive spots. Shpg.  
wt., 2 oz.



### Coto Compact Variocoupler

**3K3706**—List, \$5.50, Net, \$2.75  
Form moulded of genuine  
brown bakelite with green silk  
windings. 8 turns  
on primary coil.  
Dimensions over  
all, 2 1/2 x 1 1/2 x 1 1/2 inches.  
For base or panel mounting. Tunes  
in all broadcast wave lengths.  
Shpg. wt., 10 oz.



### Mammarlund "Auto-Couple" F. F. Coils

Provides auto-  
matic, gradu-  
ated cou-  
pling of pri-  
mary coil  
throughout the  
range of con-  
denser set-  
tings. Insures  
scientifically  
correct cou-  
pling and maximum energy transfer at  
all wave lengths. No oscillations at  
lower wave lengths. For use with .00053  
condenser having back extension shaft.  
Can attach to condenser shaft and  
moves primary coil. Shpg. wt., 1 lb.  
**3K3525**—List, \$3.50, Net, \$2.28  
Drum dial type auto-couple coil. Ar-  
ranged for operation with new Mammar-  
lund Drum Dial. For .00053 condensers.  
**3K3534**—List, \$3.00, Net, \$1.95



### R. E. L. Basket Weave Coils

5 coils covering  
10 to 110 meters  
when used with  
.0001 mfd. con-  
denser. Flexible  
braid and cloth,  
and adjustable  
mounting included.  
Shpg. wt., 1 1/2 lbs.  
**3K3527**—Five  
coils with mount-  
ing. List, \$4.50, Net, \$3.15





# SAVE MONEY—HERE! ON SUPPLIES! BRASS SCREWS Polished Nickel-Plated Heads

The five styles of screws shown are all brass with polished nickel plated heads, especially made for radio set builders.

## Round Head Machine Screws

Size	Length	Gross
3K876	1/4 in.	39c
3K877	1/2 in.	42c
3K878	3/4 in.	43c
3K879	1 in.	44c
3K880	1 1/4 in.	55c
3K881	1 1/2 in.	58c
3K882	2 in.	68c

## Flat-Head Machine Screws

Size	Length	Gross
3K877	1/4 in.	43c
3K878	1/2 in.	46c
3K879	3/4 in.	46c
3K880	1 in.	47c

## Oval-Head Machine Screws

Size	Length	Gross
3K878	1/4 in.	47c
3K879	1/2 in.	48c
3K880	3/4 in.	49c
3K881	1 in.	50c

## Round-Head Wood Screws

Size	Length	Gross
3K611	1/4 in.	45c
3K612	1/2 in.	53c
3K613	3/4 in.	55c
3K614	1 in.	63c

## Oval-Head Wood Screws

Size	Length	Gross
3K616	1/4 in.	55c
3K617	1/2 in.	60c

## 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.

3K618	Gross	52c
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## Flat Washers

Made of brass nickel plated. Fit size 6 screws.

3K619	Gross	27c
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## Flat Lugs

Flat lug with two holes. Illustration is actual size. Best fitted lug on the market. Makes soldering easy. Punched from sheet copper—evenly hot tinned, no bare spots.

3K621	Per 100	35c
3K622	Per thousand	\$1.75

## 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.

3K631	Lugs, per 100	39c
3K632	Washers, per 100	35c



## 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 1/4 inch. Size 6-32 screw—1/4 inch long.

3K638—Plain.	3K885—B Amp. +	3K863—C Bat. —
3K639—Ant.	3K886—22 Volts +	3K891—9 Volts C —
3K880—Short Ant.	3K847—45 Volts +	3K892—9 Volts C —
3K881—Long Ant.	3K886—67 Volts +	3K893—27 Volts C —
3K840—Gnd.	3K848—90 Volts +	3K894—40 Volts C —
3K882—	3K849—135 Volts +	3K851—Phones.
3K883—	3K887—150 Volts +	3K895—Speaker +
3K641—A Bat. +	3K888—180 Volts +	3K896—Speaker —
3K642—A Bat. —	3K889—200 Volts +	3K897—Input.
3K862—A + Bat B —	3K890—A — Bat. C +	3K898—Output.
3K644—B Bat. —	3K652—C Bat. +	3K846—Loop.
3K643—B Bat. +		3K899—Loop 2.
3K884—B Det. +		3K879—Loop 2.

## 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.

3K637	List price, \$1.25.	Net.....79c
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## 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.

3K662	List price, \$1.50.	Net.....98c
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## Binding Posts on Panel Strip

3K795—Black. Each 30c  
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.

3K1355—Aerial	3K1363—	3K1367—C Bat. +
3K1356—Ground.	3K1364—B Bat. 22 1/2 +	3K1368—A + B —
3K1357—Lidsprk.	3K1365—B Bat. 45 +	3K1369—B + Det.
3K1358—A Bat. —	3K1366—B Bat. 90 +	3K1370—B + Amp.
3K1359—A Bat. +	3K1367—C Bat. —	3K1371—Sht. Aerial
3K1360—Phones		3K1372—I.K. Aerial
3K1361—B Bat.		3K1373—Loop

List price, 15c. Lots of ten.....10c

## Switch Levers

3K635—With black knob. Each.....11c  
3K636—With mahogany knob. Each.....14c  
Tapered polished knob. Nickel plated metal parts. Lever adjustable from 1 1/4 to 1 1/2 inch radius.

## Switch Contact

3K630—Per doz.....10c  
Per hundred.....30c  
Per thousand.....\$1.50  
Well made of brass, fine polished nickel finish. Screws are 1/4 in. long; size, 6-32.

## Switch Lever Stop

3K797—Per doz.....14c  
Made of brass, fine polished nickel finish. Has 1/4 in. long 6-32 screw. Fitted with one nut.

## Solderless Lugs

A copper lug on which no solder is required. Wire is held in grip.

3K623	Pkg. of fifty	20c
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## "T" Lug

Solders three wires together or makes "T" connection with two wires.

3K624	3 doz.	30c
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## Solder Lugs

A good solder job easy to do with these lugs. Fits binding posts and contact points.

3K626	Per 100	30c
3K627	Per thousand	\$1.40

## Rajah Connectors

A positive solderless snap for connecting lead wires. Just push on or pull off to make or break connection.

3K796	List price.....20c
3K797	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.

3K3876	Single connector.	15c
3K3877	Double connector.	30c

## Lamp Bracket

Ideal for illuminating dials or as trouble lamp inside cabinet. Bulb runs from A battery. Complete with bulb.

3K3881	List 40c.	
3K3882	Net, each.....24c	

## Jeweled Pilot Light

This pilot light is mounted by nut behind the red jewel at back of panel. Shows when batteries are turned on. (No bulb furnished—see page 94 for bulbs).

3K3882	List, 40c. Net.....24c
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## Radio Screw Assortment

3K628—List price.....60c.  
Net price.....29c  
A handy assortment of wood screws, machine screws, nuts and washers in the sizes and styles needed for assembling radio sets.

## Lettered Binding Posts

3K700—Per set of eight. List 60c. 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.

## Composition Top Binding Posts

3K701—Per doz.....30c  
Well made. Attractive looking. Polished black insulated top. Brass body nickel plated. Size 6-32 screw with washer extends 1/4 inch.

## Ready Panel Mounting for Binding Posts

3K715—Black, each.....15c  
3K716—Mahogany, each.....16c  
Consists of a strip of finest hard board paneling 1 1/4 inches wide, 7 inches long and 3-16 inch thick. Drilled and marked as shown.

## Binding Post Mounting Strips

Drilled for mounting binding posts. Screw holes at ends, 3-16 inch thick. Strips unlettered.

3K705	For 10 posts.....30c
3K706	For 9 posts.....26c
3K707	For 8 posts.....22c
3K708	For 7 posts.....20c
3K709	For 6 posts.....18c
3K710	For 5 posts.....16c
3K711	For 4 posts.....14c
3K712	For 3 posts.....12c
3K713	For 2 posts.....10c

## Brass Binding Posts

Brass binding posts, fine polished nickel finish, well made. Fitted with washer and 6-32 screw extending 1/4 inch.

## Double Binding Post

3K702—Each.....8c  
Made of brass polished nickel finish. Has two holes for wires or cord tips. Fits any thickness of panel.

## Post Markers

K627-

er doz.....30c

Nicely finished in  
ilver and black. Sold  
n dozen lots only.  
pecify titles wanted.

Plate

Sec'd

erial

+ A Bat.

+ B Bat.

round

+ A Bat.

+ 20 V.

hones

+ C Bat.

+ 60 V.

output

+ C Bat.

+ 90 V.

input

+ B Bat.

+ 130 V.

ickler

Grid

Loop

## Spring Connector

3K3840—Set of 2.....10c  
Net 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.



# MATHIESON LOOPS

## Master Console

This size is used especially by experimenters and laboratories. Has very large volume with exceptional selectivity. Open it measures 46x21 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 solid plated and Bakelite arms, also three taps. Revolves on its base. By turning it in the proper direction, it is possible in most instances to tune out objectionable interference. It thus serves as a wave trap.

**3K150**—List, \$12.50.  
Net .....\$7.50

## Baby Console

Smaller in size than the Master Console. Takes less space to revolve, therefore it is an Ideal Loop for the home. Has good volume and is very directional. Built especially for Super-Heterodyne circuits. The same material used in the Master Type. Wound in single turns with 3 Taps. When set up measures 30x14 inches and folded 15x8.5.

**3K250**—List, \$12.50.  
Net .....\$7.50

## 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 thumb-screw adjustment always keeps wire taut and in line. Size erected 34x16x3 1/2 inches. Packed 4 1/2 x 7 1/4 inches. Shipping weight, 4 lbs.

**3K2850**—List, \$10.00.  
Net .....\$6.00



## Korach Loop

This loop has many exclusive features. Has 9 tap switch panel. Compass in base with dial for tuning. Collapsible. Size 3 1/2 feet wide, 4 1/2 feet long, 120 feet wire in loop. Mahogany finish. Three binding post connections.

**3K1750**—List price, \$12.50. Net .....\$7.50



## JUNIOR MODEL

Same loop as above except without compass, and 2 1/2 feet wide, 3 1/4 high; 5 taps.

**3K1650**—List price, \$10.00. Net .....\$6.00

## The Alaco Loop



Height folded, 22 inches. Opened, 30 inches. Weight, 3 1/2 lbs. Wound with 64 strands low resistance wire. Furnished in two types.

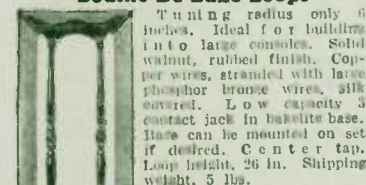
**3K550**—No. 5 for superheterodyne and circuits with .0005 condensers.

**3K859**—Type No. 35 used with neutrodyne, tuned radio frequency, Browning-Drake and other receivers using .00035 condensers.

List price, \$12.50.  
Net, \$7.50  
Order by article number

Alaco Loops are approved by the leading technical magazines and laboratories. Wave length range from 180 to 570 meters. Made of genuine walnut all metal parts of nickel-plated brass.

## Bodine De Luxe Loops



Tuning radius only 6 inches. Ideal for building into large consoles. Solid walnut, rubbed finish. Copper wires, stranded with large phosphor bronze wire, 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.

**3K3260**—Standard for sets with .0005 condensers. List, \$12.00. Net, \$7.20

**3K3350**—De Luxe for sets with .00035 condensers. List, \$12.00. Net, \$7.20

## Signal Cabinet Loop



Supported with bracket of cast aluminum which may be fastened to cabinet, console or other flat surface. Portable, folds like umbrella. Over 100 feet of silk-covered nonkinkable wire on bakelite spacers. Base and arms beautiful walnut finish. Special tap for superhets operating on shorter aerials.

**3K1950**—List, \$8.50. Net .....\$5.10

## Flat Bank Wound Loop

New Model Flat bank wound loop. 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. 13 1/2 in. wide, 30 in. high. Weight, 3 lbs.

## 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.P.F.; Condensers, 180 to 600 Meters. List price, \$12.50.

**103K750** Net .....\$7.50

## Frost Loop Plug and Jack

Easily mounted in cabinet or panel. Plug connected to loop leads. Supports loop when plug is mounted in base.

**3K2540**—Per Set, List, \$1.50. Net .....95c

## B-T 3-Circuit Tuners

B-T bank-wound, skeleton frame tuner. The scientifically balanced relations between inductance values, circuit coupling, insulation and resistance gives unequalled results in one to four-tube sets.

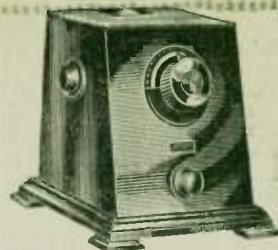
**3K4248**—Type B, for broadcasting, covers 200 to 565 meters. List, \$5.00. Net, \$3.10

**3K4249**—Type SW, for short-wave, covers 0 to 150 meters. List, \$4.00. Net, \$2.52

## 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.

**3K4440**—List, \$2.75. Net, each .....\$1.65



## Walbert Penetrola

188 Times the Energy!

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 arrangement 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 Isofarad 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.

**3K1525**—Penetrola in Black Crystallite Cabinet, for Instant Attachment. List, \$35.00. Net, \$22.75

**3K1550**—Penetrola Kit with Complete, Simple Instructions, without Cabinet. List \$15.00. Net, \$9.75

## Muter Interference and Static 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 and which gives results when other Eliminators fail.

**3K2712**—List price, \$2.50. Net .....\$1.60



## Steinitz 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.

**3K2711**—Each .....68c



## The Vari-Unit

By changing the setting of a multi-point switch inside the unit, and altering connections to fourteen binding posts at the back, the Vari-Unit can be made to serve as a stage of neutralized radio frequency, detector with or without regeneration, straight radio frequency, oscillator, station selector, superheterodyne first detector, wavemeter, etc.

Each Vari-Unit, measuring 7x7x3 inches, contains a .00035 variable condenser, a .000015 midrange condenser, rheostat, universal socket, grid leak, fixed condensers, multiple switch and subpanel with mounting for interchangeable coils that cover the waveband from 80 to 2,600 meters. Those furnished regularly are for the broadcasting range of 200 to 550 meters.

Can be used with standard receivers either to sharpen tuning or to receive very long and very short waves. Converts any set (except reflex) into a loop operated receiver with more selectivity and greater sensitivity. Shipping weight, 8 lbs.

**3K1571**—List, \$20.00. Net, \$12.00





# WIRE, SHIELDING, TUBING, COIL FORMS, ETC.

## 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 the new low windings for any circuit can be constructed. All tubing is 1/2-inch wide, 1/16-inch thick. Dimension given is inside diameter.

Two Ten pieces	Two Ten pieces
3K2300—2 1/2 in. 19c 68c	
3K2301—2 1/2 in. 22c 74c	
3K2302—3 in. 24c 78c	
3K2303—3 1/4 in. 26c 82c	
3K2304—3 1/2 in. 29c 89c	
3K2305—Bakelite string 1/2 in. wide, 1/16 in. thick, 6 in. length.....	20c

## Bakelite Tubing

Genuine bakelite tubing. Pieces 3 in. long only. For winding coils. Very strong. Will not warp nor bend. 1/16-inch wall. Natural color. Diameter given is inside.

Single Lots	Single Lots
3K2311—2 1/2 in. 16c 15c	
3K2312—2 1/2 in. 19c 17c	
3K2313—2 1/2 in. 20c 18c	
3K2314—2 1/2 in. 22c 20c	
3K2315—2 1/2 in. 23c 21c	
3K2316—2 1/2 in. 24c 23c	
3K2317—3 in. 25c 24c	
3K2318—4 in. 29c 27c	

NOTE: Tubing any diameter and any length can be supplied at prices in proportion to above. Minimum charge on special orders for tubing is 50c per order.

## Cardboard Tubing

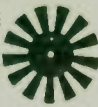
Used for making tuning coils, loading coils, etc. Firm and strong. Made of selected stock covered with smooth paper. Easily cut to any length desired. All sizes are 1 foot long.

3K3835—Diameter 2 in. Single lots, 13c; Lots of ten.....	11c
3K3836—Diameter 2 1/2 in. Each, 14c; Lots of ten.....	12c
3K3837—Diameter 3 in. Each, 15c; Lots of ten.....	13c
3K3838—Diameter 3 1/4 in. Each, 17c; Lots of ten.....	15c
3K3839—Diameter 4 in. Each, 19c; Lots of ten.....	18c

Sizes can be assorted for 10 lot price.

## Spider-web Coil Form

3K2214—Fiber. Diam. 5 inches, 13 spokes. Each.....



3K2215—Bakelite. Diam. 3 1/2 in. 15 spokes. Each.....

For winding spider web coils. Made of strong material that will support coil under severest handling.

## Wood Winding Form

3K2216—Each..... 20c  
For winding spider web coils. When coil is finished it can be left on form or removed and impregnated to make self-supporting low loss coil. Diameter 6 inches. 17 spokes.

## Radio Insulating Cement

3K2210—Bottle..... 22c  
A transparent celluloid base cement for insulating and impregnating wires and coils. Strengthens spider web, honey comb and other types of coils so they are firm and self-supporting. No capacity or absorption effects. 2-oz. bottle.

## Magnet Wire

We carry a most complete assortment of magnet wire, suitable 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. Both wire and insulation is uniformly perfect. Be sure to state article number and size. Prices quoted are for 9-ounce spools unless otherwise stated.



Double Cotton White	Enameled	Double Silk Green	Wire Size	Feet per 8-oz. Spool D.C.C.
3K2000	3K2001	3K2002		
22c			14	38
25c			16	61
28c			18	90
31c			20	149
35c			22	232
36c			24	356
52c	24c	50c	26	540
62c	34c	4 oz 48c	28	815
75c	40c	4 oz 60c	30	1210

## Bus Bar Strip

3K2213—3-foot strips. List each, 30c. Net..... 19c  
Flat brass strip 1/4-inch wide approximately .0010 inch thick. Replaces bus wire on high grade sets. More satisfactory because of better, firmer and more durable contacts.

## Tinned "Bus" Wire

Cut into two-foot lengths  
3K2101—Round.  
10 lengths (20 feet)..... 14c  
100 lengths (200 feet)..... \$1.17  
3K2102—Square.  
10 lengths (20 feet)..... 15c  
100 lengths (200 feet)..... \$1.20  
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

3K2107—Round; 2-ft. lengths. 10 lengths (20 feet)..... 28c  
100 lengths (200 feet)..... \$2.40

## Gosilco Bus-Wire

Size 14 copper bus-wire, silver plated, with protective covering of 24K gold.  
3K2108—10 feet. List, 60c Net..... 40c

## Rubber Covered Hookup Wire

3K2103—25 feet. List, 40c Net..... 24c  
This wire is now being extensively used for wiring sets. Consists of a stranded copper wire, size 18, covered with outer layer of gray black rubber. Has smooth, neat appearance. Very flexible and easily handled.

## Pigtail Wire

3K2006—10 feet. List price, 35c..... 20c  
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 avoids high frequency resistance losses. Prevents noise caused by loose or imperfect connections due to sliding contacts.

## Celatsite Bus Wire

3K2100—List price per 30-inch length, 10c. Net price, 10 lengths for..... 45c  
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.

## Litz Wire for Coils

3K2003—Per 100 ft. List, \$1.00. Net..... 65c  
Consists of 20 strands of No. 38 enameled wire, twisted and covered with a double serving of silk. The correct wire for low loss inductance coils. Equivalent to size 25.

## Litz Wire for Loops

3K2004—Per 125 ft. List, \$1.00. Net..... 65c  
Conductor of 60 strands No. 35 wire with 5 strands No. 36. Served with a litz treated to prevent stretching. Covered with maroon cotton.

## Silk Covered Loop Antenna Wire

3K2005—Per 125 ft. List, \$1.75. Net..... 97c  
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. The ideal wire for loops and other special types of antenna. Looks well, will not stretch and holds its shape.

## Acme Flexible Celatsite Hook-up Wire

3K2106—25 ft. coll. Net..... 45c  
Very flexible stranded copper conductor. Covered with cotton serving and smooth, glossy varnish. Easily handled. Makes attractive job. Supplied in black, yellow, brown, green, maroon, salmon, slate gray, blue, white and red colors. Specify color wanted.

## Acme "Spaghetti" Tubing

3K2105—List price per 30-inch length, 10c. Net price, 10 lengths for..... 45c  
The best quality spaghetti made. Made of high grade cambrie 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.

## Set of Bearings for Tuning Coils

Self-aligning assure positive electrical contact. Set includes two bearings with front and rear shafts. Adjustable to meet practically any size conditions. 3K2208—List price, set, 75c. Net..... 50c



## Radio Shellac Compound

For covering cabinets, base boards, etc. Also used for impregnating wires, but our insulating cement is recommended in preference for this purpose. 2 oz. bottle. 3K2209—Bottle..... 18c

## Bakelite Discs

	Single of	Lots of
3K2306—2 in.	8c	20c
3K2307—2 1/4 in.	9c	23c
3K2308—3 in.	11c	27c
3K2310—3 1/4 in.	12c	31c
3K2310—3 1/2 in.	14c	36c

Plain solid black bakelite discs—thickness 1/8 inch.

## Belden Col rubber Wire

3K2200—List, 40c. Net 24c  
For wiring sets or connecting batteries. Flexible tinned stranded copper conductor, insulated with rubber in yellow, brown, red, blue, green and gray. 25-foot coil in carton. Specify color wanted.



3K2200 1/2—Black List..... 50c. Net 30c.

## Copper Foil

3K2201—6x24 inches. Per piece..... 25c  
3K2202—8 1/2 x 72 inches. Per piece..... \$1.20  
3K2203—12 x 30 inches. Per piece..... 75c  
Thin copper foil for shielding panels or cabinets. 005 inch thick (about same thickness as the paper of this book). Easily cut or soldered.

## Tin Foil

3K2204—Sheet 6 1/2 x 8 1/2 inches, about 25 sheets to the pound. Per lb..... 36c  
3K2205—Sheet 6 x 24 in., about 8 sheets to the pound. Per lb..... 39c  
Used for making condensers and shielding panel or cabinets.

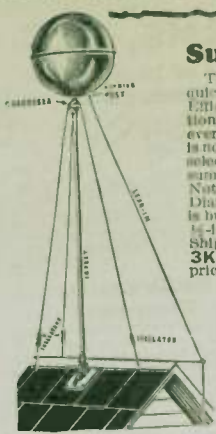
## Zinc Shielding

Used for shielding between stages of audio or radio frequency. Also for shielding panels or cabinets. Thick enough to be self-supporting and hold shape firmly when bent. Easily formed or cut. Made of zinc with poll-shed nickel coating. Very attractive appearance.  
3K2206—Size 6 x 12 inches. Per sheet..... 40c  
3K2207—Size 7 x 24 inches. Per sheet..... 80c

## Aluminum Sheets for Shielding

Proper thickness for maximum shielding effect with ample mechanical strength. Commercially pure aluminum sheets. Easy to work into shape for either box or circular shields. About 1/32 inch thick. Shipping wt. 2 to 6 lbs.  
3K2319—6 x 12 inches. Each..... 45c  
3K2320—7 x 24 inches. Each..... 82c  
3K2321—8 1/2 x 30 inches. Each..... \$1.15





## 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. Sheds ice 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 190). Shipping wt. 4 lbs.

**3K2725**—Retail price, \$10.00. Net price wholesale, single lots.....\$6.67

Lots of 10.....\$6.00

**3K2726**—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, Brass lead-in, nail knobs, screw eyes and eyes and 10 ft. of pipe. Shipping wt. 18 lbs.

**3K2727**—Each.....\$2.92

6 lots.....\$2.70



## 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.

**3K2733**—Extended length 7 ft. Collapsed length 4 ft. Ship. wt. 8 lbs. List, \$2.50. Net.....\$1.50

**3K2734**—Extended length 10 ft. Collapsed length 4 ft. 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. Ship. wt. 10 oz.

**3K2714**—Single pole, single throw. Each 14c

**3K2715**—Single pole, double throw. Each 22c

**3K2716**—Double pole, double throw. Each 31c

**3K2717**—Double pole, single throw. Each 24c

## Fahnestock Antenna Connector

Makes secure connection on aerial wire without soldering. Easily attached. Ship. wt. 2 oz.

**3K2713**—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 wt. 1 1/2 lbs.

**3K2702**—Each.....25c

Ten for.....\$1.65

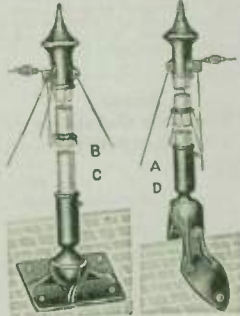
## Morris Ball Aerial Kit



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 wt. 5 lbs.

**3K2743**—List, \$5.00. Net.....\$3.00

## Antenna Mast Fittings



**3K2736**—Style A. 3K2737—Style B. 1-inch pipe size. Per set.....\$1.80

**3K2738**—Style C. 3K2739—Style D. 1 1/2-inch pipe size. Per set.....\$1.05

Price quoted is for one set of fittings. Two sets are required for each aerial. With this outfit you can easily install a solid, efficient, neat looking aerial very quickly.

Two styles: A—to fit any pitch of gable roof. B—to fit flat surface. Adjustable from any angle from vertical to horizontal. No pipe included. Shipping wt. 5 lbs. (See Page 190 for pipe.)

## 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 a 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 ft. high when erected. Shipping wt. 5 lbs.

**3K2741**—List, \$10.00. Net.....\$6.00

## Dubiller Light Socket Aerial



Eliminates outside aerial. Equipped with famous Dubiller condensers to insure quality. Just connect it to the set and plug into light socket. Approved by Underwriters. Ship. wt. 8 oz.

**3K2700**—List, \$1.50. Net.....90c

## Talking Tape The Perfect Radio Aerial



Used indoors. Combination metallic and fibre strands carefully woven. Highly sensitive in reception and provides distance, selectivity. Ship. wt. 1 lb.

**3K2703**—100-foot roll. List, \$1.00. Net.....66c

## Aerial Booters



Sharpens selectivity. Increases volume and effect of saving on batteries and tubes.

For any antenna. Ship. wt. 1 lb.

**3K2710**—Set of 6 booters. List, \$1.00. Net.....57c

## Brach Arrestor



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 arrestor. Shipping wt. 1 lb.

**3K2720**—List, \$2.50. Net.....\$1.50

## Muter Antenna Plug



Provides noiseless reception from any light socket. Simply screw in light socket. Replaces outdoor aerials. Excellent results are obtained. Ship. wt. 8 oz.

**3K2699**—List, 60c. Net, each.....36c

10 Lots each.....32c

## Jewel Lightning Arrester



Small and compact. Weather-proof porcelain case. Underwriters approved. Used inside or outside. Shipping wt. 1 lb.

**3K2718**—Net.....45c

## Superior Arrester



A dependable air gap type arrester. Porcelain case. Shipping wt. 10oz.

**3K2719**—Each.....14c

Lots of 10.....11c

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 wt. 1 lb.

## Brach Storm Guard



**3K2722**—List, \$1.50. Net.....90c

## Brach Storm King Arrester



Made of genuine bakelite. Non air gap principle. \$100.00 insurance policy against lightning for your radio set, goes with this arrester. Shipping wt. 1 lb.

**3K2723**—List, \$1.00. Net.....60c

## EFFARSEE ANTENNA The Ideal Indoor Aerial

Looks like a magnificent tapestry, a 10-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. No lightning hazard. Waterproof. For use with any radio receiver requiring an antenna. SIZE: 4 ft. wide, 7 ft. long. Just right for hanging on picture molding or in hallway. Shipping wt. 5 lbs.

**3K2776**—List price, \$9.50. Net, wholesale.....\$5.70

**3K2775**—Small size, 6 ft. long, 3 ft. wide, plain (without picture). List, \$2.50. Net, wholesale \$1.55





# AERIAL KITS—QUALITY VALUES

## Regular 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; 25 ft. cotton covered hook-up wire. No skimping in this kit. Shipping wt. 5 1/2 lbs.

**3K2631—Complete Kit, List, \$1.75**  
Single lots ..... \$1.05  
Lots of 10 ..... 99c

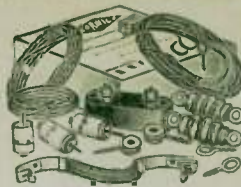
## Special Kit



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; 3 galvanized screw eyes; 25 ft. No. 18 flexible rubber covered hook-up wire. Shpg. wt. 6 lbs.

**3K2632—Complete Kit, List, \$2.75**  
Single lots ..... \$1.65  
Lots of 10 ..... \$1.55

## De Luxe Kit



Contains—100 ft. 7-22 seven strand enamel aerial wire; 50 ft. rubber covered weather-proof 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. Shpg. wt. 6 1/2 lbs.

**3K2633—Complete Kit, List, \$4.50**  
Single lots ..... \$2.38  
Lots of 10 ..... \$2.28

## Antenna Wire



Full 100 ft. coils, best grade copper wire. Shpg. wt. 2 1/2 lbs.

## Bare Copper Wire

Single Lots  
lots, ea. of 10  
**3K2625—** 7 strands of No. 22... 37c 36c  
**3K2628—** 2 strands of No. 24... 26c 25c  
**3K2611—** 7 strands Light No 2424c 23c  
**3K2629**  
No. 14 solid 34c 33c

## Enamelled Copper Wire

Highest quality enamel. Will not chip nor peel. 100 ft. Coils.  
**3K2610—** 7 strands of No. 24. Each Coil... 35c  
10 lbs. Each... 33c  
**3K2630—** 7 strands of No. 22. Each Coil... 50c  
22. 10 lots. Each... 48c

## 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.

**3K2612—** Black wire. Outer waterproof black cotton braid. Wire size No. 14. 50-ft. coils. Shpg. wt. 2 lbs. Each... 48c



## Braided Ribbon Antenna

A new flat braided ribbon antenna made of 23 strands of high grade copper wire braided into a strong, flexible ribbon aerial. Gives clearer tone and greater range 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. Shpg. wt. 3 lbs.

**3K2600—** Per 100-ft. coil. List, \$1.50. Single lots, \$1.00. 10 coil lots 90c

## Antenna Lead-in

**3K2601—** u r special. Each 7c  
10 lots 65c  
**3K2630—** Muter lead-in R.M.A. standard. Impregnated tape. Each 12c  
10 lots \$1.15  
**3K2635—** Electroad lead-in. Highly impregnated tape, wide tinned copper strands. Solid, etched Fahnestock clips. 18" long. List, 40c Net ea. 24c

## Bell Wire

**3K2613—** 50-ft. coil... 25c  
Size 18 copper wire insulated with paraffined cotton braid. For connecting batteries, etc. Shpg. wt. 1/2 lb.

## 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. Shpg. wt. 1 1/2 lbs.  
**3K2616—** Single wire, 50 feet... 42c  
**3K2617—** 100 feet... 74c

## Lead-in Insulators

**3K2608—** For 2 1/2 in. or smaller walls. Less than ten... 35c  
Lots of 10... 30c  
**3K2609—** For 3 1/2 in. or smaller walls. Less than ten... 56c  
Lots of 10... 48c

The most practical lead-in insulation for aerial wires which must be brought through wall or partition. Made of moulded hard rubber. Fits 1/4-inch hole. Securely locked by two adjustable nuts. Shpg. wt. 10 oz.

## Porcelain Strain Insulator

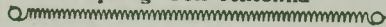
**3K2627—** Dozen... 65c  
100... \$4.80  
Designed especially for insulating extra long aerial or guy wires. Extra strong. These insulators will help prevent antenna troubles. Shpg. wt. dozen, 4 lbs.

## SUBANTENNA Under-ground Antenna System



A new underground antenna system. It completely replaces and does away with the up in the air type of aerial. Greatly improves radio reception, of electrical energy. It is not just a wire. A scientifically designed radio wave bulb—ports the radio impulses from the static and other unwanted noises and then delivers the purified radio waves to the set. Does not deteriorate with age, the longer it remains in the ground the better it works. Shpg. wt. 20 lbs.  
**3K2636—** List, \$12.00. Net... \$7.20

## Spring Coil Antenna



**3K2607—** List, \$1.25. Each

Ten lots... 54c  
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 or 500 miles and often as far as 1,000 miles. Consists of 100 feet of brass wire rolled into a spring about 2 feet long. Stretches out to nearly the full 100 feet. Shpg. wt. 2 1/2 lbs.

## Stand-off Insulators



Made of porcelain, packed in cartons with 2 brass screws and leather pads for use as a cushion under the screw heads. 8-in. size has additional brass holder. In 2 parts, put together as illustrated. For finest antenna installations. Shpg. wt. 6 oz.  
**3K2614—** 4-in. Net... 12c

## Glass Insulators



Special tempered glass unaffected by heat or cold or other atmospheric conditions. Finest quality. Approximately 4 in. long. Shpg. wt. 6 lbs.  
**3K2615—** List, 20c. Net, 7c  
10 for... 60c

## Baby Insulators

**3K2602—** Per box of 10... 17c  
For suspending wires inside of house. Rubber insulator. Screw 1 1/2 in. over all. Shpg. wt. 1 lb.

## Ekko Ground Clamp

**3K2605—** 25c  
List... 15c  
Makes positive contact even on rusty or painted surfaces. Ground wire attached to binding screw. For pipes up to 1 1/2 inches. Shpg. wt. 6 oz.

## Nifty Ground Clamp

Made of tin, copper and brass. Adjustable from 1/2 to 1 1/2 in. pipe diameters. The screws bore to a positive contact with the pipe, regardless of surface corrosion or irregularities. No tools required or no soldering necessary. Shpg. wt. 4 oz.  
**3K2637—** List... 15c  
Net each... 10c

## Wall Mounting Insulator

**3K2603—** With 3-in. long screw. Each... 4c  
Dozen... 42c  
**3K2604—** With 7-in. 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. Shpg. wt. 4 oz.

## Porcelain Aerial Insulators



**3K2622—** 2 1/2 in. long. Each... 4c  
Dozen... 32c  
**3K2623—** 4 in. long. Each... 10c  
Dozen... 58c  
**3K2624—** 5 in. long. Two for... 17c  
Glazed porcelain, deeply corrugated to prevent leakage. Holds at each end for attaching wires. Shpg. wt. 1 1/2 lb.

## 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 lowest 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. Shpg. wt. 15 lbs. Ship wt. 7 lbs.  
**3K2638—** List \$5.50. Net... \$3.20







### W. E. Cone Type 540-AW

Diameter, 18 inches; height, 21 inches. The world's most popular speaker. Beautiful bronze base with bronze colored cone. True mellow reproduction. Ship. wt. 15 lbs.  
2K5110—List.....\$32.00

### W. E. Speaker 548-AW

A 36-inch cone, mounted on a pedestal. Stands 48 inches high.  
2K5109—Pedestal Type.....\$87.00  
2K5111—Wall Type.....\$60.00  
3K5113—Unit for above speakers. List.....\$17.00

### Electric Panel Clock

Operates from Set's Batteries.



An electrically operated clock that may be incorporated in a radio set and runs on either dry cell or storage batteries. The clock consists of two units which are assembled in a strong die cast case. The amount of current used is negligible and the clock face is 2 1/4 inches in diameter. The dial has a black background with white figures and hands. Luminous dial visible in the dark. The barrel is 1 1/2 inches deep.  
3K2546—List price, \$12.00.  
Net.....\$9.00

### Carter Fixed Condensers

Molded in bakelite to protect them from moisture. Not affected by climate or temperature. Extremely accurate. Guaranteed within 10% of rated capacity. Tinned terminals for soldering. Shipping wt. 2 oz.

mf.	List	Net	mf.	List	Net
3K751 .0001	40c	24c	3K754 .001	50c	30c
3K752 .00025	40c	24c	3K755 .002	50c	30c
3K753 .0005	40c	24c	3K756 .0025	50c	30c

### With Grid Leak Clips

3K767—00015 mf.	List, 50c.	Net, 30c
3K768—00025 mf.	List, 50c.	Net, 30c

### Carter By-Pass Condensers

Best grade materials. Sealed in metal can and dipped in special wax compound. Ship. wt. 8 oz.

3K757—15 mf.	List, 50c.	Net, 54c
3K758—1 mf.	List \$1.25.	Net, 75c

### Dialite Lamp



3K2545—Net, each.....\$1.20  
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 is 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. Ship. wt. 3 lbs.

### Vimco Radio Light



This is a very beautiful light for use on the radio. It sets on top of the cabinet and throws a very carefully deflected light on the dial, where it is needed most. States lighting of the eye when the set is in a dark corner. The light is 2 1/2 in. high by 7 1/4 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.  
3K2534—List, \$3.25. Net.....\$2.50



King of the cones. A large, full size, 18-inch cone, with free edges, creates unusual volume with absolute fidelity of reproduction. Registers the deep, round notes of the bass in perfect proportion to the higher notes, in instrument or voice. No more rain barrel effect on voice reproduction. Clear, natural, full—the ideal cone for broadcast reception. Beautiful. Can be set on table or hung on wall.  
2K5156—List, \$12.50. Net.....\$5.95



### Electric Time Switches

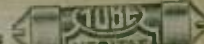
Consist of standard high quality clock mechanism with electric switching device. Can be used to control radio or character. Also very desirable for other uses such as electric stoves, electric pushstoves, coffee irons, heating devices, window lights, etc. Shipping weight 3 lbs. Illustration shows 3K2559. Underwriters approval for fireproof up to 125 volts.  
3K2558—3 amp. size—Turns circuit off any time within 10 hours after setting. List, \$5.50. Net.....\$5.95  
3K2559—10 amp. size—Turns circuit on and off minimum interval 10 minutes—maximum 10 hours. List, \$15.00. Net.....\$10.50

### Hoyt Peep-Hole Meter



Designed for use in panels. Fits 1/4-inch hole. Nickel finished. Front 1 1/2 inches diameter.  
3K1914—Ammeter—0 to 1.2 amperes.  
3K1915—Voltmeter, 0 to 6 volts.  
3K1916—Voltmeter, 0 to 10 volts.  
List, \$3.00. Net.....\$2.10

### Veritas Resistors



Especially designed for D. Illuminators, transmitting grid leaks and resistance audio amplification. Capable of radiating 4 to 5 watts continuously without change or deterioration. May be soldered directly into circuit or fit standard grid leak mounts.

Resist.	List	Net
3K480 2,000 ohms	\$1.10	66c
3K483 5,000 ohms	1.10	66c
3K484 7,500 ohms	1.10	66c
3K485 10,000 ohms	1.10	66c
3K486 50,000 (1/20 meg)	.90	54c
3K487 100,000 (1/10 meg)	.80	54c
3K488 250,000 (1/4 meg)	.75	45c
3K489 500,000 (1/2 meg)	.75	45c
3K490 1 megohm	.75	45c

### 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.

mf.	List	Net	mf.	List	Net
3K759 .1	\$1.00	60c	3K763 1	\$0.50	30c
3K760 .25	.50	30c	3K764 2	.50	30c
3K761 .5	.50	30c	3K765 5	.50	30c
3K762 .75	.50	30c	3K766 5	.50	30c

### 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 at 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 and for turning on set one for shutting off. Easily connected, only one wire needed. Uses 50 current.  
3K2548—List price, \$4.50.  
Net price.....\$5.95

### R. F. Essential Kit



Another bargain to boost your sales, to get fans started building their own and opening up for you new prospects for accessories and supplies. Kit consists of the essentials for a radio frequency set. Three high quality low-loss coils mounted on straight line frequency condensers. A remarkable bargain—a trade-getter.

103K3550—Set of three coils and condensers. List, \$10.00. Net.....\$4.19



# Superior Radio Cabinets



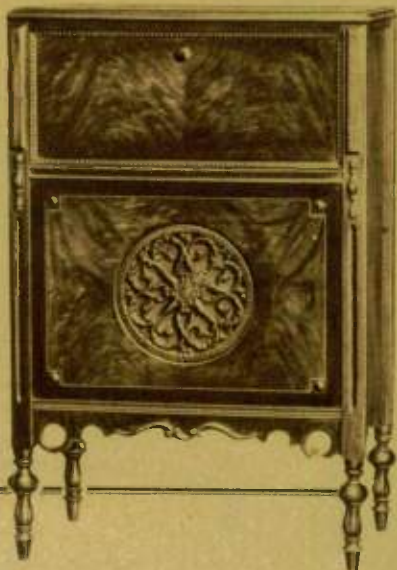
## The Mayfair

There is a feeling of the beauty in richness of the early American in this most pleasing and artistic model. It is distinguished by tasteful decorations and cutouts and the splendor of its veneers. It is the type of cabinet that strikes home to the feminine heart, because of a certain delicacy and refinement adapting it readily to the richest, most tasteful furnishings of any home. It is constructed of selected American walnut with beautifully

matched butt walnut front panels. The richly carved scroll grille fronting the lower compartment lends a most pleasingly striking effect. The top is hinged, giving easy access to the radio set. The large lower compartment provides generous space both for the long air column built-in horn, as well as all batteries, chargers or power units necessary. It is furnished in the new lacquer, hand-rubbed to a fine semi-dull finish of velvety smoothness. Overall size: Height, 43 in.; Width, 28 in.; Depth, 18 in. Adaptable to all sets with panel size up to 24 inches and is fitted with 3-ply panel which may be cut to accommodate sets of smaller panel size. The set compartment measures 25 x 9 3/4 x 12 1/2 inches. This is, positively, one of the very best values in fine radio cabinets ever offered.

Shipping weight, 115 lbs. With In-built Horn but without Unit.

16K11300 List, \$70.00. Net, each. **\$42.00**



## The Sovereign

The impression of this magnificent cabinet is one of rare grace and symmetry of line, together with a striking massiveness. It reflects the skilled care that superior designers have used in adapting the Old Period furniture types to today's practical radio uses. It is constructed of American walnut, richly veneered with perfect matched butt walnut front and striking Burl walnut overlays. The Speaker Compartment Grille, as seen in the smaller illustration, is made in a richly carved effect, reminiscent of the days of the old artist carvers. A sliding tray is provided for the radio set and the lower front panel is also removable for easy access to the battery compartment. The finish is the new hand-rubbed lacquer, soft and velvety-like. The sturdy base is distinguished by the most careful, skillful turnings and forms a substantial underpinning that gives an appearance of strength and pleasing proportion. This cabinet, like all the other superior cabinets, is constructed by skilled craftsmen and the perfection of their handiwork is evident on first glance. It is furnished with a long air column horn with a metal throat, to which may be fitted any of the standard speaker units. It will accommodate sets up to panel sizes 18x24 inches and is fitted with a walnut 3-ply panel, which can be cut to adapt sets of smaller panel size. The dimensions overall are: Height, 51 in.; Width, 37 in.; Depth, 18 in. The large battery compartment measures 22 1/2 x 10 1/4 x 14 inches. Packed securely in a special ply wood container guaranteeing perfect condition on delivery. Shipping weight, about 135 lbs.

16K11301 Complete with Horn but without Unit.

List, \$85.00. Net, each **\$51.00**



## The Martinique

Reflecting the influence of the Spanish on present day designing, this beautiful cabinet is an outstanding example of how easily the

richness and charm of these old designs may be retained in fitting them to modern uses. It takes its general contour from the old Spanish Treasure Chest and retains many of the motives which distinguish these great old heirlooms handed down from that romantic period. And, although very moderate in cost, it is fitting to the most elegantly appointed home. In its construction has gone the skilled craftsmanship of superior artisans, who have fashioned it from fine American walnut. The front is of butt walnut, selected and matched with the greatest care and embellished with the moulded grille, carved wood mouldings, overlays and turnings. The legs and stretchers are of choice red gum, finished in harmony with the rich walnut panels. The entire cabinet is finished in lacquer, hand rubbed to a smooth semi-dull surface—a finish that characterizes all the better furniture. As shown in the smaller illustrations, the front panel drops, exposing the set and forming a convenient arm rest when tuning. This set compartment measures 25 x 8 3/4 x 14 1/4 inches and accommodates receiving set panels up to 24 inches in length.

It is furnished with a 3-ply walnut panel for adapting to smaller sized panels. Above the set is a roomy compartment 15 1/2 x 18 3/4 x 13 1/2 inches, which provides space for the long air column horn fitted with a metal throat, into which any standard speaker unit may be adapted. On each side of horn is ample space for batteries and power units. Dimensions overall: Height, 50 1/2 in.; Width, 30 3/4 in.; Depth, 18 3/4 in. Shipped securely packed in ply wood container to insure safe delivery. Shipping weight, about 150 lbs. Price includes Horn but no Unit.

16K11302 List, \$65.00. Net, each **\$57.00**





# Pierson Gorgeous Consoles



## The Arlington

For those who want the very finest. A true classic in Period Design, bearing the motives most popular during England's Golden Era—the age of Shakespeare and Queen Elizabeth. The sturdiness of the old English craftsmanship is combined with the delicate influence and sublimity of Medieval cathedrals, arched Satinwood panels and bold overlays in relief with hand painted polychromed carvings as the center motives. Constructed throughout of genuine American walnut, with beautifully figured and matched butt walnut ply woods. The workmanship throughout is fully up to the high standard set and maintained by Pierson craftsmen. This cabinet cleverly houses the radio complete, including space for power units, the large Orthotype speaker horn, the set, and a loop. It is equipped with the large Newcombe-Hawley 66-inch Air Column Concert Grand Orthotype Loud Speaker, including the world's finest unit—the Baldwin Concert Grand. Outside dimensions: width, 53 in., depth, 18 in., height, 45 in.; End Compartments, 11 in. wide, 31 in. high, 15½ in. deep; Set Compartment, 24 in. wide, 9 in. high, 13½ in. deep; Horn Compartment, 26 in. wide, 20 in. high, 14½ in. deep. Mounting panel for smaller size sets included. Shipping weight, 215 lbs.



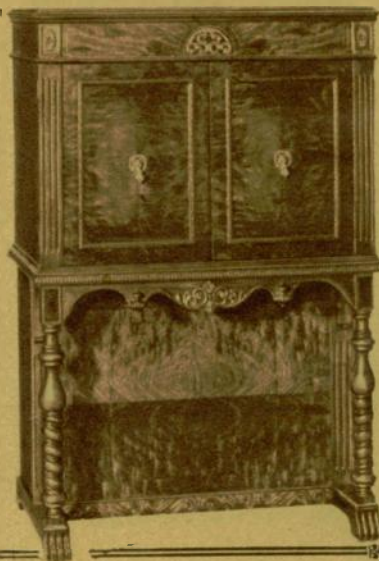
16K11353 List, \$250.00. Net, each, \$150.00  
16K11354 Same, except for sets having 26 in. panel. List, 150.00  
\$250.00. Net, each, .....

## The Canterbury

The magnificent design of this beautiful cabinet brings you back to the days of Old England—a period of sturdy Yeomen and Grand Knights—a period of Romanticism. The balcony effect of the cabinet itself, the heavily carved and turned pilasters, the sturdy toe rails supporting the lower cabinet all blend themselves into a harmonious whole that is very appealing. The front of the cabinet is beautifully figured and matched butt walnut with a Satinwood overlay on the frieze. The mitered mouldings on the doors finished off with substantial antique English pulls and the heavy apron carvings make the Canterbury one of the finest radio cabinets ever built. The small illustration shows how pleasingly the beautifully scrolled grille hides from view the great Newcombe-Hawley Orthotype Loud Speaker with the marvelous Baldwin Concert Grand unit. Accommodates radio sets up to 28 inches in length and 14 inches deep, and also provides ample space for power units and batteries in the lower compartment. Dimensions: Set Compartment, 8 in. high, 14½ in. deep and 27 in. wide; Battery Compartment in base, 21 in. high, 31 in. deep, 10 in. wide; Height of Cabinet over all, 50 in.; width, 33 in.; depth, 21½ in. Shipping weight, 175 lbs.



16K11355 List complete with Horn and Unit, \$175.00. Net, each, \$105.00



## The Umbrian

The noiseless gliding of the gondola through a Venetian canal, with the soothing influence on harassed nerves, is the best way to express the effect when one stops to study this Umbrian model of Medieval Italy's cabinet artistry. This is the kind of furniture that grows upon one, until it forms a real part of one's daily life and, after the years, becomes his most prized possession. You must give more than a casual glance at its illustrious showing—the rich carvings, the Ebony Inlays and Satinwood Overlays, the deep, rich lustrous finish. It is fashioned from selected American walnut, beautifully lacquered and hand-rubbed, with the handles in Old English silver. Truly worthy of the finest radio set in the most richly furnished home. It is equipped with a special tray drawer which pulls out with no effort for instant installation and adjustment of the set at any time. Will house a radio receiving set up to 24 inches in length and comes with a 3-ply mounting panel which can be cut to fit smaller sized sets. Behind the magnificent scrolled grille is installed a wonderful Orthotype horn, equipped with the marvelous Baldwin Concert Grand Unit. This Speaker rests on a level with the ear when operating. Batteries and power units may be placed in the end compartments, which are equipped with round hinged doors, and also behind the set in the center compartment, if desired. Dimensions: over all width, 46 in.; height, 48 in.; depth, 16 in. Shipping weight, 195 lbs.



16K11356 List, Complete with Horn and Unit, \$250.00.  
Net, each .....

\$150.00



# Pierson Leads in Fine Consoles

## The Inter-Mezzo

Strictly of the Orthotype design. This beautiful model is, unquestionably, the most popular radio cabinet ever developed. The two doors in front are of select matched butt walnut and made in perfect pairs. The arched design carved into the face of the doors has a most pleasing effect. The center carved Medallion sets off the beautiful antique Spanish brass pull in a most striking manner. The corners of the cabinet are cut out at angles and carry a heavy carving of Acanthus leaves, below which is a heavy flute in the pilaster, which ends in the delicate sweep taken just above the base frame. The interior of the Inter-Mezzo is just as elegant as the exterior. The



Shows beautiful grille concealing great N-H Speaker

scroll, with its turned columns forming a beautiful colonnade effect, sets off a neutral colored silk which fills this grille. Constructed into the cabinet is the genuine Newcombe-Hawley Orthotype Speaker, fitted with the marvelous Baldwin Concert Grand Unit. The set compartment accommodates receivers up to 24 inches wide and comes with a mounting panel which may be cut to receive sets of smaller panel size. Dimensions: overall height, 42 in.; width, 30 in.; depth, 20 in. Set Compartment, 24 in. wide, 9 in. high, 15½ in. deep; Battery Compartment, 16¾ in. deep, 25 in. high, 26¼ in. wide. It will be seen that there is generous space for all necessary batteries and light socket power units. This magnificent cabinet carries an air of refinement and elegance that distinguishes it from every other cabinet made and, no doubt, has had much to do with the amazing popularity that it now enjoys. Shipping weight, 130 lb.

16K11362 List, Complete with Horn and Unit, \$125.00. Net, each.....

**\$75.00**



## The Seville

The Spanish Treasure Chest, as the trade knows it, has been widely imitated but most imitators have fallen far short of equaling this original. None equal the little niceties, the careful, painstaking craftsmanship and the magnificent materials which characterize The Seville as made by Pierson. In this new size the Seville houses the large Orthotype horn, in front of which is installed a beautiful scroll representing a Spanish arcade. The exterior

is made from choice 100% figured and matched butt walnut. The finish is left natural, doing full justice to the antique brass finish of the special Spanish design hardware. The cabinet is richly ornamented by a series of mitered return mouldings and generous spindle carving. Dimensions: overall width, 36 in.; height, 42 in.; depth, 16 in.; Set Compartment, 24 in. wide, 9 in. high, 15½ in. deep; Battery Compartment, 16¾ in. deep, 25 in. high, 26¼ in. wide. Has 3-ply mounting panel which can be cut to fit smaller sized sets. Shipping weight, 135 lb.

16K11363 List, \$140.00. Net, each.....

**\$84.00**

16K11364 Without Horn and Unit. List, \$110.00. Net, each.....

**\$66.00**



**The MONROE Shielded Six Chassis Will Fit Into These Consoles**

## The Caravel

In this charming creation, Pierson has combined two very popular features. First, from the point of beauty, the Spanish design with its antique wrought brass hinges and hardware, its carved twists and the beautiful Spanish finish; secondly, the Orthotype construction embodying the long Air Column Horn, which brings forth the entire tonal register. Utmost care has been exercised in the selection of the beautifully figured walnut used in its construction and the soft, hand-rubbed finish bringing out the unusual beauty of the grain of this wood. The lines of the cabinet are carried through in well carved, twisted pilasters mounted top and bottom by carved members that set it off in a most effective way. Its interior rivals the exterior in beauty. The large scroll carries a design that has always been popular, backed by a rich neutral-colored silk. While distinctly Spanish, this beautiful cabinet is not freakishly so. Wrought iron stretchers have purposely been avoided as also has gaudy colored polychroming. In other words, a conservatism in adaptation has been used with such a pleasing effect that we find here a cabinet of a rich dignity as well as one so embellished as to carry with it the spirit of the old period which it so thoroughly typifies. It is the kind of design that grows on one and of which one is just as proud after years of use as on its day of purchase. Dimensions: overall height, 42 in.; width, 30 in.; depth, 20 in. Set Compartment, width 24 in.; height, 9 in.; depth, 15 in. Battery Compartment, width, 22 in.; height, 24 in.; depth, 15½ in. Fitted with genuine Newcombe-Hawley 84 inch Air Column Loud Speaker with the marvelous Baldwin Concert Grand Unit. Shipping weight, 130 lb.



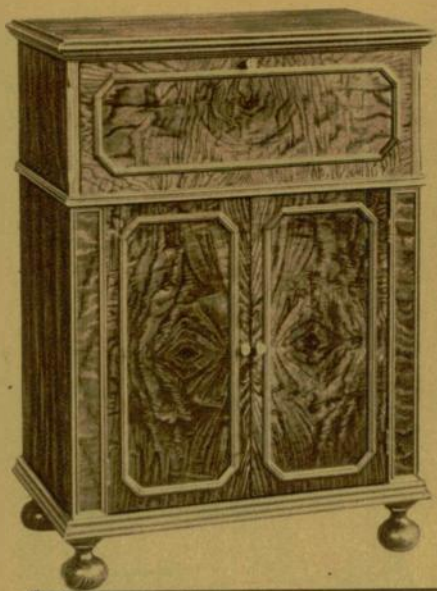
Note the magnificent ly designed grille

16K11365 List, Complete with Horn and Unit, \$150.00. Net, each.....

**\$90.00**







# EXCELLO

## The Wyndemere Radio Consoles

With a chastity of line and an effect of massiveness and strength, this beautiful design reflects a tendency which is now generally marked in the fitting of many fine American homes. Its design falls in that class often spoken of as "sensible" because of the ease with which it may be dusted and polished by the housekeeper. Unusually heavy construction of choice selected American walnut with 5-ply walnut veneer top and panels. The doors are beautifully set off with elegant matched butt walnut veneers. Magnificent hand-rubbed and polished finish. The set compartment is protected by a hinged fall which forms a convenient arm rest when tuning the set. The receiver doors open on to a beautiful grille in colonnade effect, behind which is a soft neutral color silk filling. This cabinet comes with or without a Long Air Column Horn, to which is fitted a metal throat threaded to accept the standard speaker unit. There is ample room to house behind the grille a 22 in. cone type speaker if desired. Dimensions: overall height, 42 in.; width, 32½ in.; depth, 18½ in. Speaker Compartment, 20 in. high, 24 in. wide, 14½ in. deep. Maximum panel space, 10x30 in. The top is hinged and the grille is removable. Shipping weight, 150 lbs.



16K11366 Complete with Long Air Column Horn but without Unit. List, \$100.00. Net, each.....**\$60.00**  
16K11367 List, without Horn, \$90.00. Net, each.....**\$54.00**

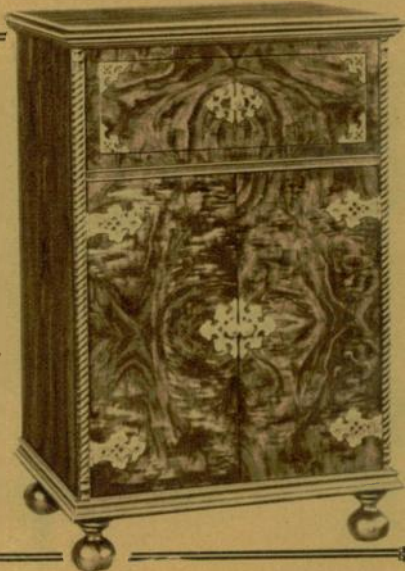
## The Coronado

From old immortal Spain!—the land of Romance—comes the inspiration for this magnificent design. In its adaptation to radio use it loses none of the inherent charm and the pleasing proportion and balance of the handiwork of the great old Spanish designers. And in the development of this exquisite artistry we find in delightful co-ordination the rich, soft high lighted finish and the antique brass strap hinges and wrought hardware—that dash of design which characterizes all the tastes and whims of the Spanish Grandee. Made from choice American walnut with 5-ply walnut veneer top and panels. Front doors of selected matched butt walnut in rich polished, hand-rubbed finish. The lower doors house a large speaker and accessory compartment fronted with a removable grille filled with neutral colored silk. Dimensions: overall height, 42 in.; width, 28 in.; depth, 20 in. Will accommodate set with panel size up to 9x24 in.; adjustable filler pieces provided for use with smaller set panels. Top is hinged. Furnished with or without Long Air Column Horn, having metal throat and unit adapter as listed. Will also house a 22 in. cone type speaker, leaving ample room for batteries, chargers or eliminators. Size, Speaker Compartment, 24x24 in. and 16 in. deep with removable grille. Shipping weight, 140 lbs.



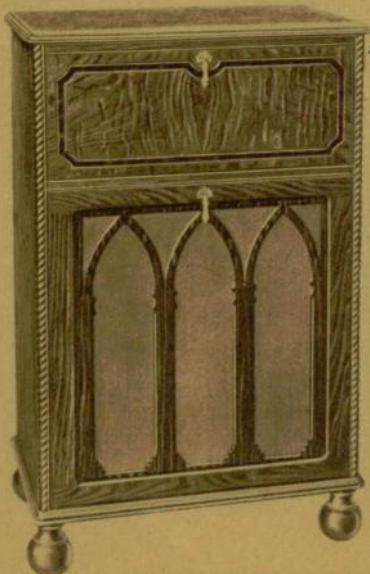
16K11368 List, with Horn but no Unit, \$95.00. Net, each.....**\$57.00**

16K11369 List, without Horn, \$85.00. Net, each.....**\$51.00**



## The Avalon

In this charming design we find the influence of the modern American designer who strives to inculcate a touch of beauty after having first based the general design upon utility values. Although simple and massive in its first impression, the twists on the corner pilasters and the contrasting inlay on the drop pull form a pleasing relief from the severity of line of the console itself. The effect withal is one of rare and charming grace. Made from the finest American walnut with 5-ply walnut veneer top and panels. The front door is made with matched butt walnut veneers. Furnished with or without Long Air Column Horn which has metal throat threaded for unit. This compartment will also house a 22-inch cone type speaker, together with all necessary power equipment, if so desired. Dimensions: overall height 41 inches; width, 27 inches; depth, 16 inches. Speaker Compartment is 24x24x14 in. and has removable grille filled with a neutral shade silk. This console accommodates sets up to 9x24 in. and has adjustable filler pieces which fits it to accept smaller sized panels. The top is hinged. Beautifully hand-rubbed and polished finish. Shipping weight, 120 lbs.



16K11370 Complete with Long Air Column Horn but without Unit. List, \$70.00. Net, each.....**\$42.00**

16K11371 Without Horn. List, \$60.00. Net, each.....**\$36.00**





# EXCELLO Radio Consoles

## The Carolan

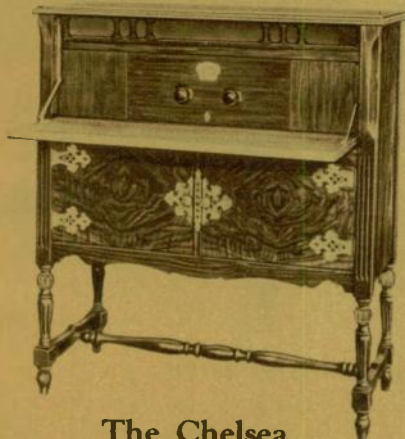
This is one of the finest examples of the proper adaptation of beautiful furniture to the uses of radio. Not alone is it distinguished by the hand of a master designer and craftsman but in its perfect arrangement of set, accessories and

speaker. It has gained a popularity very widespread and intense. It is constructed of the finest American walnut with 5-ply walnut veneer top and panels. The doors are elegantly set off with matched butt walnut and set in a contrasting inlay effect. The pilasters and legs are tastefully turned and fluted, reflecting a point of refinement always expressed by the most accomplished old English designers. The tone chamber, which is above the receiver space, is constructed of a

specially seasoned wood with a metal throat, to which may be adapted any standard unit. The receiver compartment is equipped with adjustable panels so as to accommodate any set, the panels of which do not exceed 10x32 in. in size. The large compartment below the set section, easily accessible through the front doors, has a sliding shelf which pulls forward for easy testing, adjustment or filling of power units or batteries. The entire cabinet is finished in a two-tone effect with a hand-rubbed and polished piano finish. Dimensions: Overall height, 45 in.; width, 37 in.; depth, 16 in. Shipping weight, 125 lbs.



16K11357 Console Complete with Horn but no Unit. List, \$90.00. Net, each ..... **\$54.00**  
16K11358 Bench to match, as illustrated, made of solid walnut and finished to match all the three Excello Consoles shown on this page. Size top, 24x28 in.; height, 18 in. Shipping weight, 30 lbs. List, \$15.00. Net, each ..... **\$9.75**



## The Chelsea

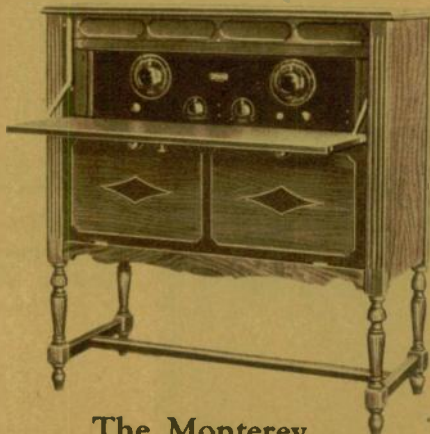
This beautiful model is distinguished by the unusual design and placement of the horn at the top of the receiver and made so that the amplifying chamber and the top are both hinged, permitting ready access to receiver parts when top is raised. The design itself is a very pleasing one, with charmingly fluted pilasters and turned legs. Constructed of finest American walnut in a two-tone finish, as shown in the illustration. The top front doors and end panels of 5-ply stock. Hand-rubbed and polished finish. The panel space is 8x32 inches. The lower chamber provides ample space for batteries, chargers or socket power units. Dimensions: Overall height, 40 in.; width, 37 in.; depth, 16 in. Shipping weight, 120 lbs.

16K11359 List, Complete with Horn but no

Unit, \$57.00

Net, each

**\$34.20**



## The Monterey

In this imposing design we find the popular Spanish effect as exemplified in the antique brass finished trimmings and the spindle, carved legs and cross stretcher. It is made of selected American walnut with 5-ply walnut top and panels. The front doors have beautifully matched butt walnut veneers, as shown. The tone chamber, made with a long air column and with metal throat to accept a standard unit, is placed above the receiver space and is hinged as a part of the cover top. Maximum panel space, 8x32 in. The battery compartment has a sliding shelf which pulls forward for testing or adjusting any of the power units used in connection with the receiver. Rich piano hand-polished finish. Dimensions: Overall height, 40 in.; width, 37 in.; depth, 16 in. Shipping weight, 125 lbs.

16K11360 Complete with Horn but no Unit.

List, \$75.00. Net, each

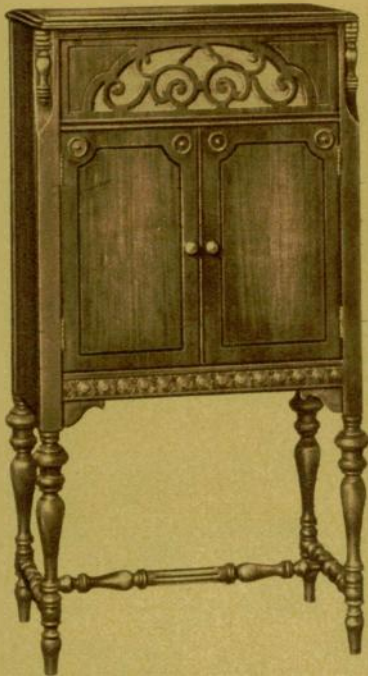
**\$45.00**

16K11361 Without Horn. List, \$70.00.

Net, each

**\$42.00**





## The Melrose

Of the Hiboy type in a beautifully adapted modern American design, this cabinet has become very popular. It is, unquestionably, one of the best values on the market today. Constructed of selected walnut plywood in a rich, soft, velvety finish. The large Pure Tone In-Built



Wood Horn, with long Tone Travel, is placed above the set compartment and fronted with an attractive grille-worked panel. The middle section provides a space 21 in. wide, 18½ in. high and 13 in. deep. It will accommodate panel size 7x18 inches and a blank 3-ply panel is furnished on a sliding pull-out mounting board. Below the set compartment is an extra large sized section for all batteries and power units. Two swinging front doors completely enclose set compartments. Outside dimensions: 26 in. wide, 17 in. deep, 48 in. high. Shipping weight, 90 lbs.

16K11379 List, with Pure Tone Wood Horn, \$60.00. Net, Each ..... **\$36.00**

## The Churchill

This magnificent cabinet is a true reproduction of a fine old Eighteenth Century Spanish design. It is the kind of furniture that will enrich the appearance of the most finely fitted home. It is unmatched in value in the markets any-



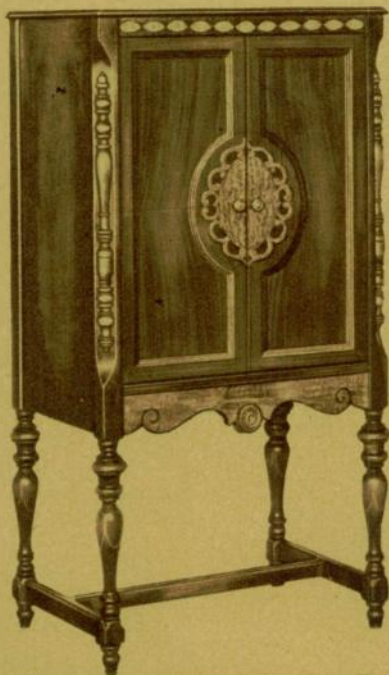
where. Constructed of choice American walnut with selected veneered doors, rich birdseye maple overlay in antique high lighted finish. The horn is built into the top section, as shown in the smaller illustration. The middle section is for the receiver and in size is 24 in. wide, 8½ in. high and 13 in. deep. It accepts a panel size of 7x18 inches and a plain 3-ply mounting panel is furnished on a sliding pull-out mounting board. Below set is large compartment for power units. Outside dimensions, 28 in. wide, 17½ in. deep, 54½ in. high. Shipping wt. 110 lbs. 16K11380 List, with Pure Tone Wood Horn with Long Tone Travel, \$85.00. Net, Each ..... **\$51.00**

Any of These Beautiful  
Consoles Form a Fitting  
Housing for the New  
Monroe



## The Lakeshire

Of a very pleasing design, this elegant cabinet has quickly established itself as a very popular number in this fine line of consoles. It is distinguished by the unusual antique, high lighted turnings on the legs, the overlay on the doors and the attractive inlay work. Made of selected American walnut in the rich, neutral, velvet-like lacquered finish. The long doors open on to beautiful grille work, behind which is housed a large Long Tone Travel Wood Horn. The center section is given over to the receiver and has an uncut 3-ply panel 7x18 inches on a sliding pull-out mounting board. This compartment measures 21 in. wide, 8½ in. high, 13 in. deep. Below the receiver section is a large compartment for batteries and necessary power units. The outside dimension of cabinet is 26 in. wide, 17 in. deep, 49 in. high. Shipping weight, 100 lbs. 16K11381 List, with Pure Tone Wood Horn with Long Tone Travel, \$70.00. Net, Each ..... **\$42.00**





# Lund

## fine Consoles

"Cabinets by a Cabinet Maker"



selected butt walnut overlaid with figured mahogany and inlay designs in beautifully shaded effects. Turned antique finish posts, heavy scroll rail, two-tone fringe top and bottom. Underneath the receiver compartment, as shown in the smaller picture, is an arm rest slide. Behind the two grille doors is an extra large long air column horn, beside which is provided ample space for batteries, power units and other accessories. Outside measurements: 35 in. wide, 19 in. deep, 44½ in. high. Accommodates any size panel up to 30 inches wide, 8½ inches high and 13½ inches deep. A blank uncut mounting panel is furnished to adapt to any smaller sized sets. The

chassis compartment is made with a pull-out mounting board. Shipping weight, 175 lbs. 16K11382 List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$164.00. Net, each.....

**\$99.00**

16K11383 Same with famous Fairfax Master Piece Horn with 72 inch Tone Travel, List, \$180.00. Net, each.....

**\$108.00**



## The Tivoli

One is struck with the thought that this magnificent cabinet, in its perfection of design and the harmonious co-ordination of finish and trim, has all the noble bearing, graciousness, cordiality and warmth of the true Spanish Grandeur. Truly of the nobility of fine radio furniture! The four-door front is of select butt walnut, paneled and beautifully shaded. Two upper doors have rich wood inlay designs. The entire front is ornamented with antique finish turnings, shaded and high lighted. A superb example of the artistry of Lund finishers. The legs, pilasters and stretchers are true reproductions of the classic Spanish art and form a most distinctive and pleasing under-construction for the cabinet. Rarely have such striking and ornate units of design been brought together in such pleasing and perfect co-ordination to the end that there is a refinement and charm about this wonderful cabinet that endears it to all lovers of fine furniture. The inside is quite as beautiful as the out, with a rich Spanish design grille in front of the horn or speaker compartment. The center section is given over to the set proper and measures 31 in. wide, 9 in. high and 14½ in. deep. This section is fitted with a blank uncut 3-ply mounting panel, which may be cut to fit smaller sized panels. Below the chassis compartment is a commodious space sufficient for all batteries, power units and other accessories. Outside measures 34½ in. wide, 18½ in. deep, 60 in. high. Shipping weight, 250 lbs.



Shows the magnificent grille and the roomy interior

16K11384 List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$194.00. Net, each.....

**\$117.00**

16K11385 List, with famous Fairfax Master Horn, having 72 inch Tone Travel Chamber, \$210.00. Net, each.....

**\$126.00**

## The Stratford

Here we have the most popular type of radio cabinet—The Orthophonic—reproduced in a most unusual and pretty design. Rather plain and severe in its contours. This severity is relieved by rich shadings and inlaid effects. It is constructed of choice American walnut plywood with genuine butt walnut front doors. The upper full door is beautifully set off with a mahogany overlay and a two-tone chromized border. This ebontized border is also carried out on the lower door around a field of perfectly matched butt walnut veneers. The two slender panels beside the front door are neatly embellished with overlay scroll and the legs carry a striking carved effect. Two-tone high lighted soft velvet-like natural finish. In the smaller view you may see how very pleasingly designed is the rich grille fronting the horn and power units compartment. This

grille is also hinged, giving easy access from the front to the extra large space behind it. The set compartment measures 30 in. wide, 8½ in. high, 13½ in. deep. An uncut 3-ply mounted panel is furnished for adapting smaller panel sized sets. Outside dimensions: 34½ in. wide, 18½ in. deep, 41½ in. high. Shipping weight, 134 lbs.

16K11386 List, with large sized Pure Tone Wood Horn with 60 inch Tone Travel, \$90.00. Net, each.....

**\$54.00**

16K11387 List, with famous Fairfax Master Horn with 72 inch Tone Travel Chamber, \$104.00. Net, each.....

**\$63.00**



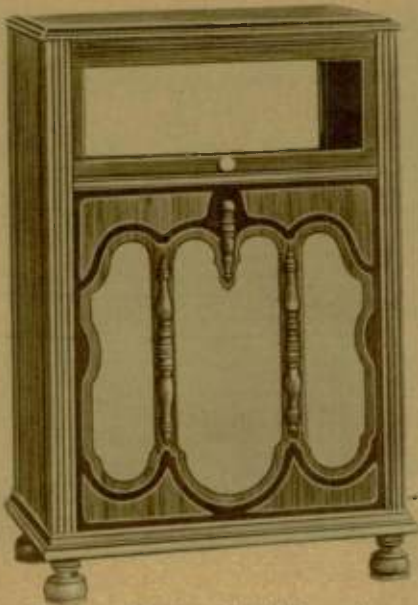


## The Minuette

The plain, chaste lines, together with the Colonial feet, inspired the name of this beautiful little cabinet, bringing us back to the good old Colonial days. This cabinet splendidly combines the popular Arm Chair Model design and the Orthophonic Horn arrangement. It is made of the finest American walnut plywood, beautifully finished in the new velvety, smooth lacquer with charming touches of antique high lighting on the wood turnings. The unusual design of the grille gives it a very striking appearance. It will house any radio set fitting into space 21 in. wide, 83½ in. high, 13 in. deep. It is filled with a 3-ply mounting panel 7x18 inches on sliding pull-out mounting board. The outside dimensions are: 25 in. wide, 15¾ in. deep and 43 in. high. Behind the grille is housed a very efficient built-in wood horn, to which may be fitted any standard speaker unit. The entire front is hinged, allowing easy access to the large compartment around the horn, which provides ample space for all batteries and power units. This compartment is 22 in. wide, 13 in. high and 13½ in. deep. This is, unquestionably, one of the very best values in fine radio cabinets ever offered. It is characterized by the finest workmanship in every detail. Shipping weight, 115 lbs.

16K11391 List, with Built-in Wood Horn, \$39.00  
Net, each.....

**\$23.40**

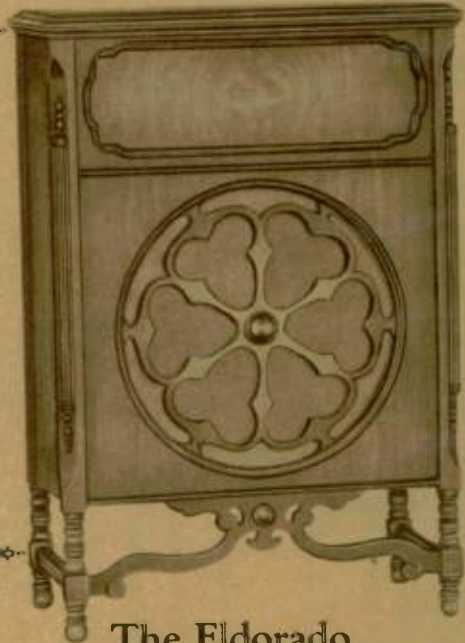


## The Evanshire

This beautiful cabinet is highly favored because of its instant acceptability and the very refined and pleasing appearance it presents. A striking feature is the round grille filling the entire lower compartment, placed in an offset effect. Cutaway posts with flutes ending in a charming carved pilaster effect. An air of solidity and strength is given by the specially arched design of the lower cross stretcher across the front. Cabinet is substantially made by cabinet-makers of national renown and beautifully finished in the soft natural walnut color, rubbed to a velvety smoothness.

All panels are veneered with choice select walnut stock. The outside dimensions are: Height, 44 inches; Width, 30 inches; Depth, 15 inches. It accommodates sets up to panel size of 9x28 inches and depth up to 12 inches, and comes with a blank panel for accommodating smaller sized sets. The large compartment at the bottom measures 22 inches high, 26 inches wide, 12¾ inches deep, providing ample space for either cone or horn speaker, as well as all necessary batteries and power units. Shipping weight, 65 pounds.

16K11389 List, without Horn, \$30.00. Net, each.....**\$29.50**  
16K11390 List, with 20-inch Utah Cone Speaker, \$72.50.  
Net, each.....**33.35**

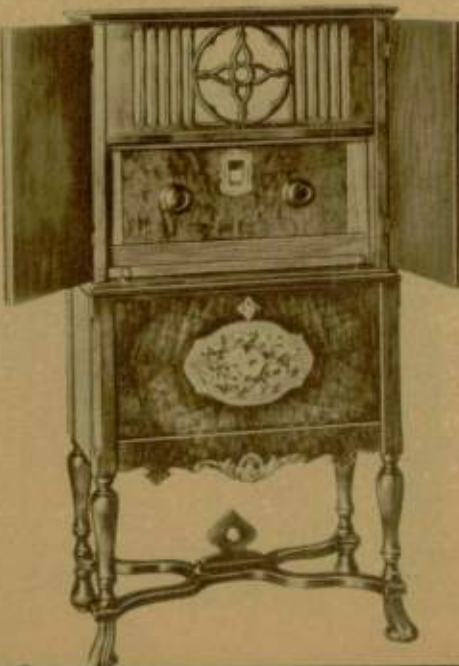


## The Eldorado

Here again we have the alluring charm and romantic suggestion of the dashing rich old Spanish designing. More than fine wood and craftsmanship has gone into the making of this fine console—the inspiration to make the romanticism of the period it represents to live again in the actuality of this gem of radio furniture. It is made of finest American walnut veneers with choice matched grain burl walnut front. The doors and battery compartment of all have polychrome overlays. Decorative antique hardware adds to the tasteful appearance. The base is distinguished by perfectly turned legs and a graceful brace construction. Behind the charming grille at top is a long tone travel horn of scientific design and perfect reproductive characteristics. The set compartment accommodates sets with chassis up to 8x21x10 inches. A blank panel for smaller size sets is furnished. The battery compartment is 11 inches high, 21 inches wide and 13 inches deep. The console measures over all 48 inches high, 25 inches wide and 15 inches deep. Shipping weight, 130 lbs. No unit included.

16K11392 List, \$97.50.

Net, each.....**\$49.50**





# Heppelwhite Period Consoles

The Biggest Radio Furniture Values



**Highboy**

16K11393—Retail Price,  
\$48.00.  
Net Price.....**\$28.80**

A beautiful console design highboy in artistic brown mahogany finish with lacquered and hand-rubbed gold striping with hardware to match. Will accommodate any set up to 24 inches long by 9 inches high and 11 inches deep. Top lifts up. Battery compartment with knibbed doors below with sufficient room to house all batteries, eliminator, Current Supply Units, etc. Has built-in speaker with silk-lined grille. No unit included. Mounting panel supplied on which dials may be mounted, or panel may be cut to take bakelite panel of receiving set. Cabinet measures 30 inches wide, 42 inches high, 16 inches deep. Shipping wt., 50 lbs.

## Battery Table With Speaker Grille and Compartment

Has silk backed grille compartment for built-in speaker. No horn nor unit included. Batteries go into the two compartments at the side. Set goes on top. Mahogany finish, antique trim. Length, 30 in.; height, 29 in.; depth, 16 in. You can't beat this quality for the money. Shipping wt., 55 lbs.



**Speaker Console**

16K11396—Retail Price,  
\$28.00.  
Net Price.....**\$16.80**

## Guaranteed Workmanship and Materials—Beautiful Permanent Finish

This period furniture is specially built for radio convenience and to completely and compactly house the set, batteries, charger and miscellaneous equipment. Nothing need be outside the console. These practical features added to beauty make this furniture most popular.

**ADAM BROWN MAHOGANY FIN.**—Bil lacquered and hand-rubbed with antique trim, markings and hardware to match. Five-ply genuine brown Mahogany Top. Three-ply mahogany mounting panel supplied with consoles on which dials may be mounted or panel may be cut to take bakelite panel of receiving set. Guaranteed workmanship and materials. Lasting finish. Strong solid construction.



**Low Boy**

16K11394—Retail  
\$35.00.  
Net Price.....**\$21.00**

Provides space for set up to 26 inches wide; height, 30 inches; depth, 16 inches; width, 30 inches. Intended for use where horn or cone speaker is used on outside. No speaker included. Shipping wt., 50 lbs.



**Standard Console**

With outside speaker, it will take a 32-inch wide panel. If ear-level speaker is desired, will take set to 24 inches. Lift top. Mounting panel supplied. Width, 36 inches; depth, 16 inches; height, 30 inches. Beautiful mahogany lacquered and hand-rubbed Polychrome finish with antique trim. Shipping wt., 60 lbs.

16K11395—Retail Price, \$42.00

Net  
Price.....**\$25.20**  
Add \$3.05 extra for loud  
speaker horn.

## MONROE RADIO SET VALUES ARE UNEQUALLED

## Battery Cabinet

A convenient period design table. Set and speaker go on top, batteries into the two lower compartments, out of the way. Solid back! Opens from front. Mahogany finish, gold striping. Length, 30 inches; depth, 16 inches; height, 29 inches. A real buy at our low price. Shipping wt., 50 lbs.



**Battery Cabinet**

16K11397—Retail Price,  
\$23.00.  
Net Price.....**\$13.80**

**YOU GET  
AND CAN GIVE  
MORE FOR THE  
MONEY WITH  
MONROE SETS**





## Ardmore Speaker Table

An attractive rich appearing table, fine enough for the most expensive set yet very moderately priced. Genuine five ply walnut veneer top and front in elegant hand rubbed finish. Top size 36 inches wide, 18 inches deep. Height, 33 inches. Fine toned built-in speaker in center. Roomy side compartments provide ample space for batteries, power units, etc. Sturdy, strong construction insures years of satisfactory service. Shipping weight, 70 pounds.

16K11376—List Price, \$33.50. Net.....\$19.50



## Sturdy Radio Table

A well made practical radio table which adapts itself to small space and at the same time is capable of accommodating set and all accessories. Set goes on top, batteries on middle shelf conveniently out of the way. Top and shelf are constructed of heavy trunk fibre board with hardwood side rails. All parts are well braced, strong and sturdy. Wood parts all finished in dark mahogany varnish, top and shelf covered with dark green leatherette. Corners bound with protective iron caps. Height, 26 inches; width, 29 inches; depth, 16 1/2 inches. Shipping weight, 14 pounds. This table cannot be shipped by parcel post.

16K11372—Net .....\$3.35



Height  
18 Inches

## New Radio Bench

Attractive appearance. Just the right size to place beside console and comfortable tuning. High quality material and workmanship. Fine enough to match up with the finest console or cabinet.

Mr. Dealer, here is a big seller.

One should go with every console.

In lacquer finish Mahogany or Walnut. 18 inches high. Top, 12x20 inches. Shipping weight, 35 lbs.

16K11377—Mahogany } List, \$7.50. Net.....\$4.50  
16K11378—Walnut }

# \$9.45 TWO-TONE RADIO TABLE



Sheraton  
Period Style

## Two-Tone Console Type Radio Table

16K11374—Sheraton Radio Table.

List Price, \$18.00. Net.....\$9.45  
An attractive radio table at a very low price, finished in Walnut two-tone, with gold veining stripe separating finishes. Front is one piece, veined and grooved in two-tone to give it the appearance of two separate doors. The back is entirely open, giving free access for battery adjustments, etc. While this table is priced very low, the finish is given the same care as our higher priced line. Top is hand rubbed selected gum and to so far as finish is concerned has the exact finish of solid Walnut. DIMENSIONS—Height, 30 inches; top, 16x30 inches; inside compartment, 13 1/4 inches deep, 14 1/2 inches high, 25 1/4 inches wide.

Place the set and speaker on top. Lots of room in compartment below for batteries, charger, eliminator, power units, etc. Strong, sturdy construction. Will last a lifetime. Shipping weight, 50 lbs.

## Colonial Radio Table

A neat attractive table. Has shelf below for wet or dry. A and B batteries or power units. Radio set and horn are placed on top. Very reasonably priced. Fine dull walnut finish.

Length, 38 in.; width, 16 in.; height, 23 in. Shipping weight, 20 lbs.

16K11375—List Price, \$15.00. Net .....\$7.95



## Monroe Portable Radio Case

Here is a strong, sturdy portable radio case large enough to take a panel size of 7x18 inches, room enough for all necessary batteries, yet light in weight. Built like a trunk or carrying case, with rigid frame over which is a long wearing, fine quality leatherette covering in black color. Corners reinforced with nickel-plated metal corner pieces. Overall size is 25 inches long, 15 1/4 inches wide and 10 1/4 inches deep. Both front and back are hinged. The rear lid has brackets for winding in a generous size loop antenna.

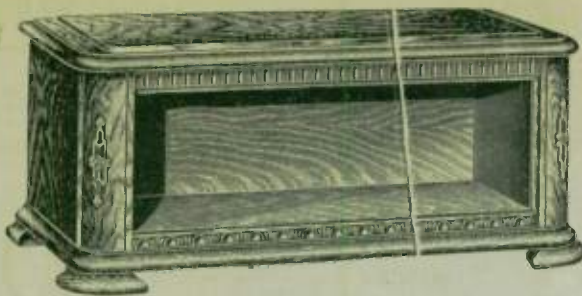
In-built is a splendid complete cone speaker of excellent design. Gives unusual volume and true tones. In front of speaker is attractive grille filled with cloth mesh. Case weighs only 10 pounds and has a strong grip handle. It is most convenient in size and easy to carry about. Shipping weight, 12 lbs.

16K11373—List price, \$22.50. Net .....\$13.50

See page 103 for loop wire.







## Wainrite Quality Cabinets Distinctive in Design

WAINRITE CABINETS employ the best in material and workmanship. The body is Solid Walnut (not veneer). Back and inside center of base, the best grade of Gum, Dark American Walnut, lacquered and rubbed to a smooth satin finish. Lid is equipped with nickel-plated full piano hinges and lid stay.

THE DECORATIONS on the face of the Cabinet are slightly polychromed in deep green to give the Cabinets a decided character in motif, one which will satisfy the most fastidious taste and fit into the most refined setting. WAINRITE CABINETS are fully GUARANTEED, a Table type Cabinet of the finest quality, and priced right. Depth, panel to back, 12 inches.

Article No.	Panel Size	Shipping Weight	List Price	Net, each
16K11641	7x18	22 lbs.	\$15.00	\$ 9.00
16K11642	7x21	24 lbs.	17.00	10.20
16K11643	7x24	26 lbs.	18.00	10.80
16K11644	8x24	27 lbs.	19.00	11.40

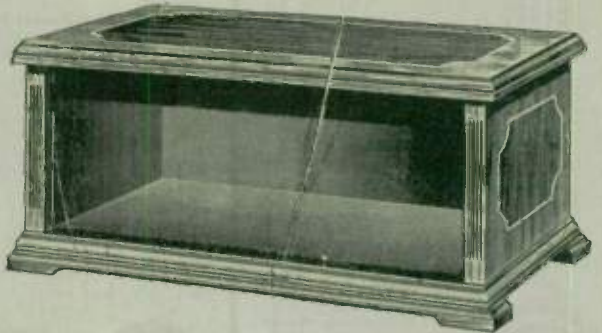
Article No.	Panel Size	Shipping Weight	List Price	Net, each
16K11645	7x25	30 lbs.	\$19.00	\$11.40
16K11646	7x28	32 lbs.	20.00	12.00
16K11647	7x30	34 lbs.	21.00	12.60

## Sheraton Two-Tone Walnut Cabinets

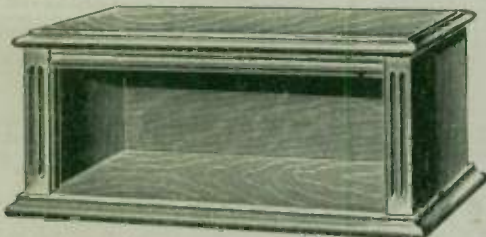
Elegantly finished solid walnut top and sides in two-tone effect. Body of cabinet is beautiful brown walnut with darker brown panels around which are inlaid gold lines. Fine hand-rubbed finish gives these cabinets an appearance equal to that of the most expensive furniture.

Fitted with full-length nickel-plated piano hinges and lid stay. Back grooved for slide-in panel. Full ten inches deep back of panel. Finest grade walnut, guaranteed perfect construction.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16K11601	7x18	16 lbs.	\$11.50	\$5.90
16K11602	7x21	18 lbs.	12.30	6.65
16K11603	7x24	20 lbs.	13.50	6.95
16K11604	7x26	21 lbs.	14.00	7.75
16K11605	7x28	22 lbs.	15.00	8.25
16K11606	7x30	25 lbs.	16.50	8.90



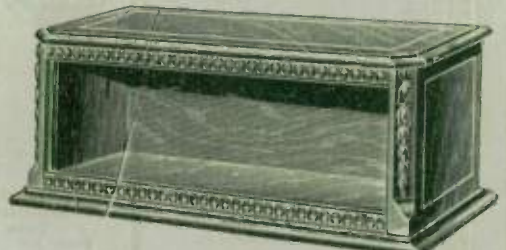
## De Luxe Cabinets



Fine looking cabinets at very attractive prices. They are superior to many cabinets offered at higher prices. Elegant hand-rubbed mahogany finish. Overhung top. Grooved for  $\frac{3}{16}$  inch panels. Full ten inches deep back of panel.

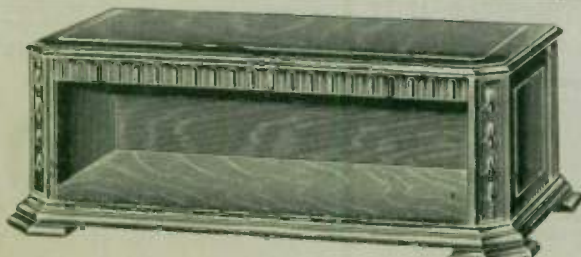
Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16K11611	7x18	14 lbs.	\$7.25	\$4.35
16K11612	7x21	16 lbs.	7.50	4.50
16K11613	7x24	17 lbs.	8.00	4.80
16K11614	7x26	19 lbs.	8.50	5.10
16K11615	7x28	21 lbs.	9.00	5.40
16K11616	7x30	23 lbs.	10.00	6.00

## Genuine Walnut Cabinets



One of the most attractive design cabinets. It provides at a reasonable cost the same class as high quality, factory built sets. A beautiful piece of furniture with genuine walnut top and sides in elegant hand-rubbed finish. Embossed ornamental strip at top and bottom and carved pilasters give this cabinet a rich setting for the finest set. Nickel-plated piano hinge and stay. 10 in. deep.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16K11621	7x18	16 lbs.	\$11.00	\$6.60
16K11622	7x21	18 lbs.	12.00	7.20
16K11623	7x24	20 lbs.	13.00	7.80
16K11624	7x26	21 lbs.	14.00	8.40
16K11625	7x28	22 lbs.	15.00	9.00



## Fritts Super-Highland Carved Cabinets

The highest grade cabinet obtainable. No better made. The wood is genuine walnut, finished in natural color, with highly polished piano finish on all sides. Front, ends, top and back have raised panel effect. Heavy posts are at the corners, those at the front being carved. All carving is slightly polychromed. An 8-inch panel may be used by removing carved strip at top of front. There are many inferior imitations of this cabinet being offered at lower prices. Depth, 12 inches.

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16K11633	7x19	24 lbs.	\$21.00	\$11.95
16K11634	7x21	26 lbs.	22.00	12.40
16K11635	7x24	28 lbs.	22.50	12.70

Article Number	Panel Size, In.	Shipping Weight	List Price	Net Price, Each
16K11636	7x26	30 lbs.	\$23.50	\$13.27
16K11637	7x28	32 lbs.	24.50	13.54
16K11638	7x30	34 lbs.	26.50	14.98



# Weston Radio Meters

The Standard of the World

The standard meter of the world. Weston meters have long been known for their great accuracy and precision. They are used in the largest scientific laboratories in the world in preference to all others. The high standards maintained assure the best that can be produced.



Model 506

Designed especially for Radio Panel Service. 2 1/2 inches in diameter with narrow flange diameter 2 3/4 in. Finished in dull Japan. High internal resistance making battery drain negligible.

	List	Net
3K1979—0-5 volts.....	\$7.00	\$5.25
3K1980—0-8 volts.....	7.00	5.25
3K1981—0-150 volts.....	7.00	5.25
3K1984—0-3 amperes.....	7.00	5.25
3K1985—0-50 milliamperes.....	7.00	5.25

	List	Net
Double Range with Push Button		
3K1982—0-7-140 volts.....	\$9.00	\$6.75
3K1983—0-7 1/2-150 V.....	9.00	6.75

Model 301

Direct current instruments of flange type. Flange diam. 3 1/4 in., body 2 1/4 in.

	List	Net
3K1972—0-5 volts.....	\$8.00	\$6.00
3K1973—0-8 volts.....	8.00	6.00
3K1974—0-100 volts.....	11.00	8.25
3K1977—0-3 amperes.....	8.00	6.00
3K1978—0-50 milliamperes.....	8.00	6.00



Model 506 Pin-Jack Voltmeter

Plugs into new Radiola, Victor, Brunswick and Bosch sets, shows filament voltage. Resistance 125 ohms per volt. Adjustable pin terminals. Shp. wt. 1 lb.

	List	Net
3K1988—0-5 volts.....	\$7.50	\$4.88
3K1989—0-7 volts.....	7.50	4.88

## Pin-Jack Voltmeter and High Resistance Stand

Consists of Pin-Jack Voltmeter and high resistance stand into which it plugs for reading "B" battery voltage.

	List	Net
3K1990—0-4-160 volts.....	\$10.00	\$6.50
3K1991—0-8-160 volts.....	10.00	6.50



Eliminator Voltmeter

Model 489

A double range meter with resistance of 1,000 ohms per volt for testing battery substitutes. Pair of 30 inch cables supplied.

	List	Net
3K2018—0-8-200 volts.....	\$28.00	\$21.00
3K1992—0-50-250 volts.....	28.00	21.00

## New A C Voltmeters

A new meter from Weston, No. 517 matches the 506 model. No. 476 matches the 301 model. Exceptionally high resistance, low power consumption, excellent damping. For use on any commercial frequency. Shp. wt., 2 lb.

Model 517 matches Model 506. For A. C. voltage only. 2 in. diam.

	List	Net
3K1993—0-1.5 volts.....	\$8.00	\$6.00
3K1994—0-10 volts.....	8.00	7.50
3K1995—0-150 volts.....	10.00	

Model 476 matches Model 301. 3 1/4 in. diameter.

	List	Net
3K1996—0-1.5 volts.....	\$8.00	\$6.00
3K1997—0-10 volts.....	8.00	6.00
3K1998—0-150 volts.....	10.00	7.50

## Sterling D. C. Panel Meters

High grade, inexpensive meters for checking the voltage or current in any receiving circuit save their cost in the protection of valuable apparatus. Narrow flange panel type with silver etched dials. Nickel-plated rim. Body 2 in. diam. Rim 2 1/4 in. Shp. wt., 1 1/2 lb.



	List	Net
3K1941—0-3 amp.....	\$3.00	\$2.00
3K1942—0-8 volts.....	3.00	2.00
3K1943—0-150 volts.....	3.50	2.35
3K1999—0-6 volts.....	3.00	2.00
3K1929—0-15 milliamperes.....	3.00	2.00
3K1944—0-30 milliamperes.....	3.00	2.00
3K1930—0-7 1/2-150 with push button.....	5.00	3.35

## Sterling Pin-Jack Voltmeter

High resistance voltmeter for plugging into Radiola No. 25 and No. 28 and similar sets. Full nickel finish, silver dial, black figures. Shp. wt. 1 1/2 lbs.

	List	Net
3K1935—0-6 volts.....	\$6.00	\$4.00

## Readrite Panel Meters



Well made meters that check your circuits accurately. Case diam. 2 1/4 in., Rim 2 3/4 in. Finish is full nickel. Dials are metal silvered. Back plates furnished. Shp. wt. 1 1/2 lbs.

	List	Net
3K1958—0-8 volts.....	\$1.00	\$ .60
3K1936—0-6 volts.....	1.00	.60
3K1960—0-100 volts.....	1.25	.75
3K1961—0-10 amperes.....	1.00	.60
3K1937—0-10 milliamperes.....	1.75	1.05
3K1964—0-25 milliamperes.....	1.00	.60
3K1965—0-4-100 volts.....	1.75	1.05

## A Types.

	List	Net
3K1938—0-6 volts.....	1.50	.90
3K1939—0-10 volts.....	1.50	.90

## Jewell Meters No. 53

For laboratory and general use. Flange type. 2 1/2 inch body. Finished in black enamel. Shp. wt. 3 lbs.



	List	Net
3K1946—0-5 volts.....	\$7.50	\$5.63
3K1947—0-10 volts.....	7.50	5.63
3K1948—0-150 volts.....	9.50	7.13
3K1951—0-1 1/2 amperes.....	7.50	5.63
3K1952—0-3 amperes.....	7.50	5.63
3K1953—0-5 amperes.....	7.50	5.63
3K1954—0-10 milliamperes.....	7.50	5.63
3K1956—0-50 milliamperes.....	7.50	5.63
3K1957—0-100 milliamperes.....	7.50	5.63

## Jewell Transmitting Trio

These are the necessary instruments for amateur transmission. Uniform in size, 3 in. body, 3 1/2 in. flange. Shp. wt., 3 lbs.



	List	Net
No. 54 D. C. List, \$7.50.		
3K1970—0-10 volts.....		
3K1971—0-3 amperes.....		
3K1924—0-10 milliamperes.....		
3K1923—0-25 milliamperes.....		
3K1926—0-100 milliamperes.....		
3K1927—0-300 milliamperes.....		
3K1928—0-500 milliamperes.....		
Following Equipped with External Resistor		
3K1918—0-500 volts.....	\$15.50	\$12.00
3K1919—0-1000 volts.....	22.50	17.00
3K1920—0-1500 volts.....	28.50	22.00
3K2007—A. C. Voltmeter 0-15 volts.....		
List, \$7.50. Net.....		\$5.63

## No. 64 Radiation Ammeter

Thermo couple type with D'Aronval movement. Same size as No. 54.

	List	Net
3K1907—5 amperes.....		
3K1908—1 amp.....	\$12.00	\$9.00
3K1909—1 1/2 amperes.....		
3K1910—3 amperes.....		
3K1911—5 amperes.....		

## No. 74 A. C. Voltmeters

For reading transmitter filament voltage A. C. only. Used only on 60 cycle A. C. current. Same size as No. 54. Shipping wt., 3 lbs.

	List	Net
List, \$7.50. Net.....		\$5.63
3K1966—0-10 volts.....		
3K1967—0-3 amperes.....		
3K1968—0-15 volts.....		
3K1969—0-10 amperes.....		

# Jewell Radio Meters

The high quality Jewell meters are known so well as to need no introduction. They are manufactured with extreme care and will give very accurate readings. A good investment for any set. Highly recommended for laboratory and engineering purposes.

## Pattern 135

A compact instrument with 2 in. case and flange. 2 1/2 in. Finest coil type movement, fully jeweled. Black scale on silver background. Shp. wt., 2 lbs.



	List	Net
3K1900—0-5 volts.....	\$7.00	\$4.55
3K1901—0-8 volts.....	7.00	4.55
3K1902—0-100 volts.....	7.50	4.88
3K1903—0-3 amperes.....	7.00	4.55
3K1904—0-50 milliamperes.....	7.00	4.55
3K1905—0-10-100 volts.....	8.00	5.20
3K1906—0-7 1/2-150 volts.....	8.50	5.53
Pattern 135-B (with Push Button)		
3K2008—0-5-150 volts.....	\$9.00	\$5.85
3K2009—0-7 1/2-150 volts.....	9.00	5.85

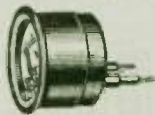
## Switch Type 140

Double range, 2 inch body, 2 1/4 inch flange. Shipping wt., 2 lbs.

	List	Net
3K1986—0-7 1/2-150 volts.....	\$9.50	
3K1987—0-4-160 volts.....		\$6.18

## Pin-Jack Pattern 135-A

2-inch instrument for plugging into jacks on Radiola, Victor, Brunswick and Bosch sets for filament voltage only. Adjustable pins. Black enamel finish.



	List	Net
3K1912—0-5 volts.....	\$7.50	\$4.88
3K2010—0-7 volts.....	7.50	4.88

## Portable No. 135-C

A beautiful portable for the home. Hand-some bakelite case. Furnished with two phone tip leads. Shp. wt., 4 lbs.

	List	Net
3K2011—0-75-150 volts.....	\$10.00	
Net.....		\$6.50



## No. 98 Portable Voltmeter

Designed to make battery testing easy. Supplied with three 15 in. colored leads. Two scales, 0-10, 10-50. Shp. wt., 6 lbs.

	List	Net
3K2013—List price, \$13.50. Net.....		\$10.13

## No. 57

Similar to No. 98 except for higher range. Particularly useful for general testing. Two phone tip leads furnished. Shp. wt., 6 lbs.

	List	Net
3K2015—0-7 1/2-150 volts.....	\$12.50	
Net.....		\$8.13

## No. 116 Eliminator Voltmeter

For checking "B" eliminator voltages. Similar to No. 98 except that its internal resistance is 800 ohms per volt. Range 0-50-250.

	List	Net
3K2016—List, \$25.00. Net.....		\$16.25

## 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 in prolonging filament life of tubes. The best insurance for tubes that can be obtained. Requires 2 1/4 inch mounting hole. Shp. wt., 2 lbs.



	List	Net
3K1931—3 Circuit 0-8 volts.....	\$10.00	
3K1932—0-10-100 volts.....		
3K1933—0-7.5-150 volts.....		
Net.....		\$7.50
3K1934—0-8-80-160 volts.....	\$12.50	
Net.....		\$9.34



## Bakelite or Phenoline Panels

This product has been used for many years in radio work. Made of laminated stock, impregnated with phenolic compounds. We supply best grade bakelite or phenoline panels which are chemically and mechanically superior. Machine well without chipping. Won't warp. Waterproof. Attractive natural polished black finish can be sanded or oiled. Av. ship. wt., 3 lbs.

Panel No.	Size, inches	1/8 inch thick	No.	Each
3K4920	6x10 1/2	3K5601	\$0.69	
3K4921	6x12	3K5602	.95	
3K4922	7x12	3K5605	1.30	
3K4923	7x18	3K5609	1.85	
3K4924	7x21	3K5603	2.15	
3K4926	7x24	3K5604	2.50	
3K4927	7x26	3K5607	2.66	
	7x28	3K5608	3.00	
	7x30	3K5611	3.15	
	8x30	3K5612	3.80	
	9x14	3K5610	1.90	

## Walnut Finish

Same as above but rich figured Walnut finish. Av. ship. wt., 3 1/2 lbs.	Size	Each
3K4928	7x18 1/2	\$1.32
3K4929	7x18 1/2	1.87
3K4930	7x21 1/2	2.18
3K4931	7x24 1/2	2.55
3K4932	7x26 1/2	2.68
3K4933	7x28 1/2	3.05
3K4934	7x30 1/2	3.20

## Bakelite or Phenoline Sub-Panels

Size cut especially for use as sub-panels. Av. ship. wt., 2 lbs.	Panel Size	Thickness	Each
3K5513	3x17 1/2	1/8	\$0.75
3K5514	3x17 1/2	1/16	1.15
3K5515	3x20 1/2	1/16	1.28
3K5516	3x22 1/2	1/16	1.52
3K5517	3x25 1/2	1/16	3.40
3K5518	3x25 1/2	1/8	2.37
3K5519	3x27 1/2	1/16	2.84
3K5520	3x27 1/2	1/8	3.05
3K5521	3x29 1/2	1/16	4.30

## Engraved Panels for Circuits

See pages on which kits are listed for drilled and engraved panels for them.

## Goodrich 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, 1/8 inch. Av. ship. wt., 3 lbs.

BLACK	Panel Size, inches	MAHOGANY	No.	Each
3K5518	7x10	3K5624	\$0.73	
3K5519	7x12	3K5628	.85	
3K5520	7x14	3K5629	1.06	
3K5521	7x18	3K5630	1.25	
3K5522	7x21	3K5631	1.58	
3K5523	7x24	3K5632	1.76	
3K5524	7x26	3K5627	1.85	
3K5525	7x30	3K5595	2.20	

## Lignole Radio Panels



A new specially treated wood panel that meets all panel requirements and is now used and recommended by leading radio engineers. Surpasses all others in beauty and richness of appearance. As a dielectric, there is no better panel material obtainable. Extremely rigid 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 1/8 inch. Av. ship. wt., 3 lbs.

## Rich Grain Walnut Face and Back

Size	List	Net
3K5800 7x18	\$2.52	\$1.64
3K5801 7x21	2.94	1.92
3K5802 7x24	3.36	2.20
3K5803 7x26	3.64	2.40
3K5804 7x28	3.92	2.54
3K5805 7x30	4.20	2.74

## Inlaid Walnut Two-Toned with Marqueterie Inlay

Size	List	Net
3K5806 7x18	\$6.52	\$4.24
3K5807 7x21	6.94	4.55
3K5808 7x24	7.36	4.83
3K5809 7x26	7.64	5.00
3K5810 7x28	7.92	5.20
3K5811 7x30	8.20	5.35

## VEE DEE Metal Panels



Beautifully finished in attractive walnut grain. Ready drilled with ordinary breast drill and may be used for all standard kits. Border in rich etched effect. Thickness about 1/16 inch. Av. ship. wt., 3 lbs.

Size	List	Each
3K5812 7x18	\$1.80	\$1.08
3K5813 7x21	2.10	1.26
3K5814 7x24	2.40	1.44
3K5815 7x26	2.60	1.56
3K5816 7x28	2.80	1.68
3K5817 7x30	3.00	1.80

## 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. Special size panels cannot be exchanged.

1/8 inch thick. Per sq. inch, net.....	1 1/2 c
3/16 inch thick. Per sq. inch, net.....	1 3/4 c
1/4 inch thick. Per sq. inch, net.....	2 1/2 c

Minimum charge \$1.00 per order.

## Panel Engraving

We can fill orders for engraving and lettering on any style panel, either one already drilled or on new panels just purchased. When ordering, please send layout showing exact lettering desired and location.

Price, per letter or figure.....\$0.04

Minimum charge per panel.....1.00

## Radio Brackets

Nickel finished. 3K5711, 3K5712, 3K5713, are light weight especially for mounting tubes and coils to panel or sub-base. 3K5718 is for mounting grid leaks. Other brackets for mounting base board to panel. Ship. wt., 2 oz.

Size	List	Net
3K5711 (1475)	1.60	1.60
3K5712 (1476)	1.60	1.60
3K5713 (1477)	1.60	1.60
3K5714 (1478)	1.60	1.60
3K5715 (1479)	1.60	1.60
3K5716 (1480)	1.60	1.60
3K5717 (1481)	1.60	1.60
3K5718 (1482)	1.60	1.60

## Shelf-Supporting Brackets

Assembles sub-panel firmly to front panel. Depth, 6 1/2 in. Tabular sub-panels up to 4 in. deep. 2 in. high. plenty of room beneath panel for wiring, resistances, etc. Nickel finish. Ship. wt., 12 oz. 3K5719—Per pair. List, 70c. Net.....43c



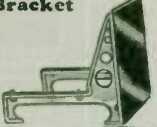
## Adjustable Brackets

Can be adapted to meet practically any requirements. Fit any slope of panel. Adjustable distance to bottom of cabinet. Adjustable length. Made of brass nickel plated. Sure to be a big seller. Ship. wt., 1 lb. 3K4116—Per pair. List, \$1.25. Net.....77c



## Panel Mounting Bracket

Cast aluminum brackets for mounting sub-panels and front panel. For 7 inch high panels, depth 7 1/2 inches. Ship. wt., 1 lb. 3K5720—Pair. List, \$1.50. Net.....90c



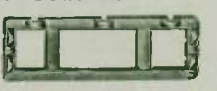
## Tilt Brackets

Very strong, light weight. For sloping panels. Suitable for any size panel or baseboard. Makes neat, solid assembly. Ship. wt., 1 lb. 3K5722—List, \$2.00. Net.....\$1.35



## Bakelite Brackets

Genuine bakelite non-metallic brackets to support sub-panels. Dimensions: 6 1/2 inches long, 2 inches wide and 1/8 inch thick. Have no effect on circuit. Ship. wt., 1 lb. 3K5723—Pair. List price, \$1.00. Net.....60c



## Panel Engravings

AERIAL GROUND GRID TICKLER OFF  
INCREASE PRIMARY TELEPHONE NO  
VARIABLE DETECTOR METER INPUT  
3-4-5-6-7-8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-25-26-27-28-29-30-31-32-33-34-35-36-37-38-39-40-41-42-43-44-45-46-47-48-49-50-51-52-53-54-55-56-57-58-59-60-61-62-63-64-65-66-67-68-69-70-71-72-73-74-75-76-77-78-79-80-81-82-83-84-85-86-87-88-89-90-91-92-93-94-95-96-97-98-99-100-101-102-103-104-105-106-107-108-109-110-111-112-113-114-115-116-117-118-119-120-121-122-123-124-125-126-127-128-129-130-131-132-133-134-135-136-137-138-139-140-141-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000-1001-1002-1003-1004-1005-1006-1007-1008-1009-1010-1011-1012-1013-1014-1015-1016-1017-1018-1019-1020-1021-1022-1023-1024-1025-1026-1027-1028-1029-1030-1031-1032-1033-1034-1035-1036-1037-1038-1039-1040-1041-1042-1043-1044-1045-1046-1047-1048-1049-1050-1051-1052-1053-1054-1055-1056-1057-1058-1059-1060-1061-1062-1063-1064-1065-1066-1067-1068-1069-1070-1071-1072-1073-1074-1075-1076-1077-1078-1079-1080-1081-1082-1083-1084-1085-1086-1087-1088-1089-1090-1091-1092-1093-1094-1095-1096-1097-1098-1099-1100-1101-1102-1103-1104-1105-1106-1107-1108-1109-1110-1111-1112-1113-1114-1115-1116-1117-1118-1119-1120-1121-1122-1123-1124-1125-1126-1127-1128-1129-1130-1131-1132-1133-1134-1135-1136-1137-1138-1139-1140-1141-1142-1143-1144-1145-1146-1147-1148-1149-1150-1151-1152-1153-1154-1155-1156-1157-1158-1159-1160-1161-1162-1163-1164-1165-1166-1167-1168-1169-1170-1171-1172-1173-1174-1175-1176-1177-1178-1179-1180-1181-1182-1183-1184-1185-1186-1187-1188-1189-1190-1191-1192-1193-1194-1195-1196-1197-1198-1199-1200-1201-1202-1203-1204-1205-1206-1207-1208-1209-1210-1211-1212-1213-1214-1215-1216-1217-1218-1219-1220-1221-1222-1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**Screw Drivers**

3K3900—2-inch blade. Each.....10c  
 3K3901—3-inch blade. Each.....11c  
 3K3902—4-inch blade. Each.....12c  
 3K3903—5-inch blade. Each.....13c

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. Shpg. wt. 6 oz.

**Radio Center Punch**

3K3904—Each.....11c

Panel 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. Shpg. wt. 6 oz.

**Reamer**

3K3905—List, 25c. Net.....17c

For enlarging drilled holes to proper size. Operates perfectly on bakelite, hard rubber, etc. Shpg. wt. 4 oz.

**Radio Wrench Set**

3K3906—List, 25c. Net.....17c

Set of three wrenches in leather case. For all hex nuts measuring  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$  and  $\frac{5}{8}$  inch with alligator jaw for odd sizes. Very handy. Every set builder needs them. Shpg. wt. 6 oz.

**Countersink**

3K3907—List, 25c. Net.....17c

For shaping holes in hard rubber, bakelite, fibre, wood, etc., to fit heads of flathead screws. Shpg. wt. 6 oz.

**Hexagon Nut Wrenches**

3K3908—Set of three.....39c

Fit  $\frac{1}{4}$ ,  $\frac{3}{8}$  and  $\frac{1}{2}$ -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. Shpg. wt. 1 lb.

**4 in 1 Screw Driver**

3K3909—Set.....45c

A handy kit of 4 screw drivers that fit every screw used in radio. All metal. Three small sizes, next inside largest size. Shpg. wt. 14 oz.

**Stevens Adjustable Panel Cutter**

3K3910—List Price, \$1.75. Net.....\$1.17

An excellent tool for cutting holes in panels. Quickly adjustable from  $\frac{1}{4}$  to 4 inches. Diameter of shank is  $\frac{1}{4}$ -inch for convenient brace or machine use. Shpg. wt. 10 oz.

**Stevens Oversize Reamer**

3K3911—List Price, 75c. Net.....50c

For general utility purposes in radio when over reaming is required.  $\frac{1}{4}$ -in. size. Shpg. wt. 6 oz.

**Hand Drill**

3K3926—Net.....\$1.15

Hold drills up to  $\frac{1}{4}$ -inch; will drill up to  $\frac{1}{2}$ -inch in bakelite with  $\frac{1}{2}$ -inch shanked drills. Handle of polished wood hollowed and with screw top, to hold drills. Shpg. wt. 2  $\frac{1}{4}$  lbs.

**Radio Drills**

3K3927—Set of four.....29c

Four drills—4-36, 6-32, 8-32 and 10-32. Shpg. wt. 6 oz.

3K3928—Set of seven.....49c

Seven drills, sizes  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$ ,  $\frac{7}{8}$ ,  $\frac{1}{2}$ . Handy radio sizes. Shpg. wt. 10 oz.

**Goodell-Pratt Electric Punch Drills**



For Drilling in Soft and Hard Woods, Soft Metals, and Materials of similar character.

These drills work with lightning rapidity. A punch and in an instant you have a hole. No other drills approach them for speed.

There are hundreds of drilling jobs too light for the ordinary electric drill. These involve the rapid boring of holes up to  $\frac{1}{4}$  in. in diameter in hard and soft woods, soft metals, and similar materials. These drills will perform this work with amazing ease and rapidity. Cabinet-makers, furniture factories, pattern-makers, chair makers, electrical contractors, trunk and luggage makers, carpenters and craftsmen in a great many industries will adopt them. The motors are of the Universal Type for either alternating or direct current at 110 volts. Speed 15,000 R.P.M. at no load. Polished aluminum frame. Variable speed switch. Ball bearing spindle. Eight feet of cord. Length of drills about 9  $\frac{1}{2}$  inches. Shipping wt. 5 lbs.

3K3945— $\frac{1}{4}$ -inch size with 5 drills— $\frac{1}{30}$  H.P. Wt. 2  $\frac{1}{4}$  lbs. Each.....\$14.00

3K3946— $\frac{1}{2}$ -inch size with 8 drills— $\frac{1}{30}$  H.P. Wt. 3  $\frac{1}{2}$  lbs. Each.....\$17.00

**Special Radio Electric Drill Outfit**



With this drill you can cut holes fast and true. Snap switch built into pistol grip makes current control easy and positive. May be had in the sizes specified. For use in 110-volt current. Drills  $\frac{1}{4}$ -inch holes in hardest metal and up to  $\frac{1}{4}$ -inch in wood. Shpg. wt. 12 lbs.

3K3922—Net.....\$17.50

**Stevens Reamer**

Spiral cutting edge produces true round hole in any material—bakelite, hard rubber, wood, etc., without digging in or chattering. Shpg. wt. 12 oz.

3K3931—Size  $\frac{1}{4}$  to  $\frac{1}{2}$ -inch. List Price, \$2.00. Net.....\$1.33

**Tap and Die Set**

3K3929—List, \$8.50. Net.....\$5.60

Contains taps and dies to cut 4-36, 6-32, 8-32, 10-24 and 14-20. These are the standard radio size screws and nuts. Each set also includes 6  $\frac{1}{4}$ -inch long stock and adjustable tap wrench. Shpg. wt. 3 lbs.

**Scroll Saw with Blade**

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. Shpg. wt. 1  $\frac{1}{2}$  lbs.

3K3937—List price, \$1.00. Net.....70c

3K3938—Extra blades, 6 for.....19c

**Nut Forceps**

3K3912—List, 50c. Net.....35c

Gives a perfect grip on all size knurled hex or square nuts. Made of drop forged steel. Nicely finished. Very handy. Shpg. wt. 12 oz.

**Crow Bill Pliers**

3K3914—List, 50c. Net.....35c

An ideal plier for all radio and electrical work. Long, thin, semi-round nose for close jobs that other pliers could not reach. Very handy in wiring. Perfect eyelets easily formed. Made of drop forged steel nicely finished. Length 6  $\frac{1}{2}$  inches. Shpg. wt. 12 oz.

**Radio Electric Pliers**

3K3913—List, 50c. Net.....35c

Designed especially for radio and electric work. Slim nose shaped to reach places where space is limited. Wire cutter between jaws. Made of forged steel nicely finished. Shpg. wt. 12 oz.

**Diagonal Jaw Nippers**

3K3915—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. Shpg. wt. 12 oz.

**Long Nose Pliers**

3K3916—Each.....55c

The handiest pliers for radio work. A fine quality tool made of fine hardened tool steel, finely finished. Shpg. wt. 12 oz.

**Stevens Drill and Countersink**



Drills holes through hard rubber or bakelite panels and also countersinks holes in one operation. A convenient and accurate combination. The 5/32-in. drill point takes No. 6 and No. 8 screws. The  $\frac{1}{4}$ -in. shank fits every standard drill. Shpg. wt. 12 oz.

3K3917—List, 35c. Net.....24c

**Socket Wrench Set**

3K3918—List, 75c. Net, 50c

Five sockets in sizes most commonly used in radio:  $\frac{1}{4}$ ,  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{5}{8}$ ,  $\frac{3}{4}$  inch. Sockets snap on shank and assembly is quick. Shpg. wt. 12 oz.

**Meter Hole Adjustable Boring Tool**

Cuts large holes in bakelite or hard rubber panels for meters, tube sockets, besels, etc. Adjustable from  $\frac{1}{2}$  in. to 3 in. diam. Fits any carpenter's brace. Shpg. wt. 8 oz.

3K3919—List, 65c. Net.....44c

**Stevens Radio Screw Clamp**

A necessity for radio workers. Holds screws for filing down to the many odd lengths required in radio. Jaws have 3 threaded depressions for holding Nos. 6, 8, 10 screws, 22 thread. Made of forged steel. The hardened jaws may be used as rethreading dies. Shpg. wt. 2 lbs.

3K3920—Net.....\$1.28

**Radio Vise**

3K3941—Jaws 1  $\frac{1}{2}$  in. wide. Length over all, 5 in. Shipping wt. 2  $\frac{1}{4}$  lbs. Each.....30c

3K3942—Jaws 2 in. wide. Length over all 6  $\frac{1}{2}$  in. Shipping wt. 5 lbs. Each.....6c

3K3943—Jaws 2  $\frac{1}{2}$  in. wide. Length over all, 8 in. Shipping wt. 8 lbs. Each.....95c

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.

3K3933—List, 25c. Net.....17c

Scraper. Needle point on each end for marking hairline. Will go into smallest screw hole. Made of finest steel fully tempered. Shpg. wt. 6 oz.



## Coil Winder



Winds any size or type of perfect uniform self-supporting coil. The turn ratio may be varied, placing the primary between the secondary windings or using two separate windings for the grid and plate circuit, etc. A perfect 50-turn spring-wire coil may be made in less than a minute. Ship. wt., 3 lbs.

**3K4050**—Each.....\$7.50

## Wizard Coil Winder



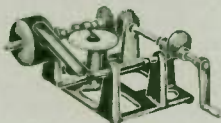
Winds any size coil with wire, enamel or cotton wire of a n y thickness.

from 3/8 to 4 1/2 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. Given that desirable factory touch to the coils. Ship. wt., 3 lbs.

**3K3950**—List price, \$7.50. Net.....\$5.00

## Honey Comb Coil Winder

With this little machine anyone can wind their own Low-Loss Coils to meet their particular requirements, as it will wind the popular honeycomb type coil any width from one-half inch to 3/4 inch wide, and the diameter may be arranged to suit, by putting various sizes of wooden spools on the winding spindle. It also has a device for counting the number of turns, which is equipped with an adjustable pointer. Ship. wt., 4 lbs.



**3K3975**—Net.....\$4.75



## Coil Winder

**3K4075**—Net, each.....\$3.68  
For winding coils on cylinders of bakelite or cardboard. Adjustable disks automatically enter the cylinders placed between them. Spring on spindle between bearings prevents coil from unwinding or releasing tension on wire. Can be fastened to any table. Overall length, 14 1/2 inches. Ship. wt., 4 lbs.

## Stevens Panel Cutters



Clean cut, true bevel holes through rubber or bakelite panels. Made to fit standard carpenter's brace. Give clean cut hole not easily accomplished without the use of a cutter. Strong construction of well tempered tool steel. Ship. wt., 6 oz.

	List Price	Net
<b>3K3934</b> —1/4 inch.....	\$0.75	\$0.50
<b>3K3935</b> —1/2 inch.....	.85	.56
<b>3K3936</b> —1 inch.....	1.00	.66

## Adjustable Template

Indicates exact location for drilling of holes in panel or base board. Arms are adjustable to position desired and then locked in position by thumb nut. Can be moved without danger of changing adjustment. Ship. wt., 8 oz.



**3K3939**—List, 50c. Net.....35c



## "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 record makes it a big seller for you. Ship. wt., 2 1/2 lbs.

**3K3951**—List, \$3.75. Net.....\$2.48

## McCall's Sure Tite Wire Connectors

A style for every need. Locking screw or spring grip provides firm contact. Made of brass nicely nickelled.

- |   |  |
|---|--|
| <b>3K3953</b> —No. 1 Cord tip.  |  |
| <b>3K3954</b> —No. 2B Spade tip.  |  |
| <b>3K3955</b> —No. 2 Wire Sphero.                                       |  |
| <b>3K3956</b> —No. 4 Spring connector takes cord tip or has wire.       |  |
| <b>3K3957</b> —No. 5A Cord tip with. Has screw and washer for mounting. |  |
| List, each, 10c.  |  |
| Lots of 10.....\$0.65   |  |
| Lots of 25.....1.50   |  |



## Wire Connectors

Eliminates soldering. Make practically any kind of radio connections—two or three wires, straight or T connected. Positive, permanent contact. Nickel finish.

**3K3940**—Net per dozen.....89c



## Simplex Alcohol Torch

A high grade tool. Dependable for test work. Generates its own pressure. Operates 2 hours on one filling of denatured alcohol. More than 2,000 deg. Falm. Blast. Leak proof. Easily cleaned. Will not clog. Always ready. 2 in. barrel, 7 in. high. Ship. wt., 12 oz.

**3K3959**—List, \$3.00. Net.....\$1.95



## Automatic Blow Torch

**3K4000**—List price, \$1.50. Net.....75c

Burns denatured alcohol. Automatically generates pointed flame in a few seconds. Easy to solder joints in hard places. Lights with a match. Burns 20 minutes on one filling. 5 1/2 inches high. 3/4 inch diameter cylinder. Ideal for antenna soldering. Ship. wt. 12 oz.

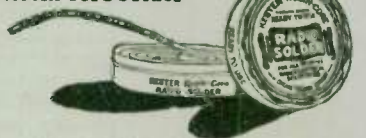
## Super Blow Torch

Burns denatured alcohol. Blowing on rubber tape produces a hot pointed flame. Lights with a match. Burns 10 minutes on one filling. Easy to solder joints in hard places. 5 in. high. 3/4 in. cylinder. Ship. wt., 6 oz.

**3K4001**—List price, 50c. Net.....35c



## 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. Ship. wt., 6 oz.

**3K4013**—4 ounces. List, 25c. Net.....18c

## 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 stained wood. Guaranteed 1,000 hours. Ventilated shank. Full nickel plated. 6 foot asbestos cord. 3/8 inch and 1/2 inch interchangeable tips. Separable plug. Nichrome heating element. For 110 to 120 volt current. Ship. wt., 2 lbs.

**3K4012**—List price \$2.50 Net **\$1.15**

## Radio-Electric Soldering Outfit



These irons are very high grade, carefully designed and carefully built. They are used all day long in hundreds of industrial plants on steady production work, proving their ruggedness and dependability. For use on 105 to 115 volt current. Complete with 4-foot cord and attaching plug. Ship. wt., 2 lbs.

**3K4010**—3/8 inch point.....\$3.50 **\$2.34**

**3K4011**—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. Flat and small piece of solder included. Ship. wt., 2 lbs.

**3K4008**—List \$3.00. Net.....\$2.10

## Ready Hot Soldering Iron

Safe, Non-Explosive and Portable



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 oil ammonia abrasive tape; two generous sticks of solder; and complete instructions for fueling, lighting and using the compact tinker's outfit. Ship. wt., 2 1/2 lbs.

**3K4025**—Complete.....69c



## 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. Ship. wt., 11 oz.

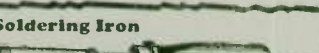
**3K4014**—3 ounces.....28c

## Solderall

A combination solder and flux in handy paste form. A little Solderall on the connection and the heat of a match of iron will form a perfect connection. **3K4015**—List, 25c. Net.....16c

## Solder Paste

A non-corrosive soldering flux. Makes possible a new cure mechanical and perfect electrical connection. **3K4016**—2 oz. Can. Net.....10c



## 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 eye. The first two sizes are for light and medium work, the third for heavier work. Thousands are in use on steady factory production work.

Watts	Diam. of Tip	Length	Weight	List	Net
<b>3K4002</b> —100	3/16 in.	12 1/2 in.	18 oz.	\$ 8.00	\$5.33
<b>3K4003</b> —200	1/4 in.	13 in.	28 oz.	9.25	6.20
<b>3K4004</b> —500	3/8 in.	13 1/2 in.	42 oz.	11.50	7.67
<b>3K4005</b> —Extra Tip, 3/8 in. size.			List, \$0.60.		.45
<b>3K4006</b> —Extra Tip, 1/2 in. size.			List, 1.20.		.90
<b>3K4007</b> —Extra Tip, 3/4 in. size.			List, 1.60.		1.43



# Won Its Way

## Its Superior Tread, Stamina

Although introduced only a few months ago, Aztec tires have quickly taken their place and are distinguishing themselves for superior service every day. A typical expression from our dealers has been: "You can see the extra value in these fine

tires. They are the best looking, most rugged 'balloons' I have ever seen." Our dealers are having amazing success with this fine line of tires, and we urge all those who have not taken on this line to do so at once.



### Flexible Center Flat Tread Adds Miles of Service

The traffic tread of Aztec is not merely a pretty design, but a scientifically balanced arrangement of indentures and a general contour to give the best day to day service and render a long life to the tire. The distribution of load and road friction falls over a wide area, making wear slow and even. Thus, after thousands of miles of use, you will find that there are no thin spots, but a uniform wear at every point.

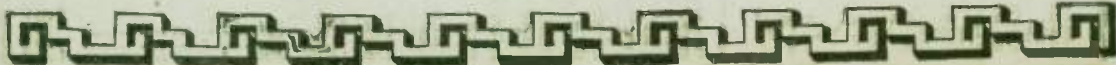
The indentures have been so planned as to give a suction grip without undue "pulling" against the motion of the car. Skidding is thus prevented but a powerful gripping action is afforded when needed, on quick stops and on slick pavements. The tough, straight side bars form a sturdy armor against accidental curb scraping and act as a faithful guard to the flexible side walls when driving in ruts.

*The*  
**AZTEC**  
BALLOON  
CORD

**Stands the "Gaff" Because  
Made for Today's Fast Driving**

Only fresh, live, resilient, first-grade gum rubber is used in making Aztec tires. Impregnating the corded foundation and reaching clear through to the outside in a generously padded side wall and a over-depth tread, this scientifically prepared rubber forms a trusty shield against the bruising, battering, pounding of the road.

They have been primarily designed in both material and structure to withstand the rough, blistering friction produced by the fast driving and short stopping of today's driving. They represent the final perfected achievements of men long skilled in the manufacture of the highest grade automobile tires, and we believe them to be the equal, or superior, to any other tire ever offered.





# in a Day!!!

## and Good Looks Make a Hit!

One glance at Aztec balloon tires convinces you with what care and skill the makers have built these husky over-sized casings. Thick, wide, rugged, burly treads—strong in-built beads—unusually tough side walls. They are so generously proportioned as to provide a wide margin of expanse and strength for the varying weights and road conditions which they might be called upon to face in use.

### Uniform Flexibility

Skillful, painstaking experts prepare the specially woven layers of cord which form the foundation of Aztec tires. With absolute precision, these cords are so placed and anchored as to become one flexible, tough, enduring structure. Long experience has taught just how to do this, to eliminate that arch enemy of tire life—internal friction. Aztec are "cool-running" tires! And, they wear "clear to the bone" before they are done!

### GUARANTEED FOR

# 15,000 Miles

of Service

## 40% Profit—Yet Undersell

<b>7K10130</b> Size, 29x4.40 \$8.85 less 2% <b>\$8.67</b> Net Ship. wt., 15 1/2 lbs.	<b>7K10131</b> Size, 30x4.75 \$12.13 less 2% <b>\$11.89</b> Net Ship. wt., 16 lbs.	<b>7K10132</b> Size, 29x4.95 \$12.91 less 2% <b>\$12.65</b> Net Ship. wt., 22 1/4 lbs.	<b>7K10133</b> Size, 30x4.95 \$13.15 less 2% <b>\$12.89</b> Net Ship. wt., 21 1/2 lbs.	<b>7K10134</b> Size, 31x4.95 \$13.55 less 2% <b>\$13.28</b> Net Ship. wt., 22 lbs.	<b>7K10135</b> Size, 30x5.25 \$14.89 less 2% <b>\$14.69</b> Net Ship. wt., 23 1/2 lbs.
<b>7K10136</b> Size, 31x5.25 \$15.68 less 2% <b>\$15.37</b> Net Ship. wt., 28 lbs.	<b>7K10137</b> Size, 30x5.77 \$17.93 less 2% <b>\$17.57</b> Net Ship. wt., 29 lbs.	<b>7K10138</b> Size, 33x6.00 \$20.39 less 2% <b>\$19.98</b> Net Ship. wt., 33 lbs.	<b>7K10139</b> Size, 32x6.20 \$21.28 less 2% <b>\$20.85</b> Net Ship. wt., 31 lbs.	<b>7K10140</b> Size, 33x6.20 \$22.30 less 2% <b>\$21.85</b> Net Ship. wt., 33 lbs.	<b>7K10141</b> Size, 30x6.75 \$23.94 less 2% <b>\$23.46</b> Net Ship. wt., 33 lbs.
<b>7K10142</b> Size, 33x6.75 \$25.39 less 2% <b>\$24.88</b> Net Ship. wt., 38 lbs.	<b>7K10143</b> Size, 34x7.30 \$26.25 less 2% <b>\$25.73</b> Net Ship. wt., 37 1/4 lbs.	<b>12 Hour Service—Ship- ment Same Day Your Order is Received</b>			

29x4.40

\$8.85 less 2% C.D. or

**8<sup>67</sup>**  
**NET**

### The Aztec Guarantee

Knowing them capable of much longer life, we guarantee Aztec balloon tires on a 15,000-miles-of-service basis against all defects in materials and workmanship. If a defect develops before they have gone that distance we will replace them, charging the user only for the mileage received.



### The Aztec Creed of Truth

"Never lie, for it is a great sin. When thou tellest anyone what has been told thee, tell the simple truth, and add nothing thereto. Slander no one, and be silent in regard to the faults thou seest in others, if it is not thy duty to correct them."

This was the charge of the Aztec father to the son on his reaching maturity. It is in this spirit that we bring to you the story behind Aztec tires. To be enthusiastic without exaggeration. To get into your mind the fine points of quality, a full appreciation of the outstanding merits, without resorting to extravagance in claims.

### Make Your Own Adjustments

Braun Dealers are authorized to adjust their customers on the following Conditions:

1st—On a complaint, examine the tire carefully and determine the exact mileage it has run since you sold it. If it is evident the tire has developed a defect through normal driving conditions, then adjust on a basis of mileage received. For example, if it has run one-half the guaranteed mileage, then charge the owner half the price he originally paid, plus shipping charges on the old tire to us and the new replacement tire from Chicago to you.

2nd—Use caution to see that the tire being adjusted has not been abused or run under unreasonable conditions.

3rd—If the tire shows neglect or abuse, no adjustment is rightfully due. No tire can be expected to stand up under bad treatment, such as under-inflation, overloading, wheel out of line, stone bruise (a clean-cut diagonal fabric break inside the casing), cuts from sharp stones, glass, etc., cuts from broken fender, burns from locking wheels or skidding, etc.

Be sure to prepay charges on returned tires—the Post Office and Express companies will not accept such shipments unless prepaid.

Promptly on receipt of the returned tire together with all information about the adjustment, we will quickly ship you a new tire billed on the basis of the adjustment you made with your customer.

### AZTEC Balloon Tires for Regular Wheels

Designed to replace high-pressure tires and fit the rim sizes as listed. Full over-sized, fine quality balloon tires, being different only in size and bead construction from regular Aztec tire.

	Balloon Tire Size	To Replace Clincher Type	Ship. Wt.	Net Price
7K10150	31x4.40	30x3 1/2	16 lbs.	\$ 9.30
7K10151	31x4.40	30x3 1/2	16 1/2 lbs.	9.85
7K10152	32x4.95	31x4	22 1/2 lbs.	14.00
7K10153	33x4.95	32x4	22 1/2 lbs.	14.50
7K10154	34x4.95	33x4	23 lbs.	15.00
7K10155	33x5.77	32x4 1/2	32 lbs.	19.90
7K10156	34x5.77	33x4 1/2	32 1/2 lbs.	20.35

Prices subject to 2% Cash Discount.





# Sets New Standard of Tire Value

## In the Field of Good Cords

With an extraordinary liberal guarantee of service and high quality, evident on first sight, Aztec cords have become instantly popular throughout the country. Our dealers everywhere are having tremendous success with them and are reaping a harvest of profits they have never before enjoyed in selling tires.

These big, burly tires, fully 15% over-size in weight, are rolling up mileage records heretofore not thought possible. It is not unusual for them to run up to

# AZTEC CORDS

## Built for High Speed Driving to Withstand the Shocks of Rough-Going and Ordinary Over-loading

The foundation of Aztec cords is a specially fabricated construction of carefully woven bands of the very finest 15.1 ounce combed Egyptian cotton, 400 lbs. pencil test. They are made for us by a community of conscientious, hardworking men, long skilled in the making of fine quality pneumatic tires. Every cord used in their construction is gum rubber and laid at precisely the right angle and tension to form the whole carcass into one intimate union. This rugged, lasting construction forms the foundation for the tough, thick rubber side wall and tread. Internal friction or breaking apart of cords is practically unknown in Aztec tires because of the extra care and attention given this vital point in their making.

### A Big, Burly Cord

There is no skimping at any point in the making of these tires. Liberal layers of cord and plenty of finest quality gum rubber form a structure of enduring strength for fast driving on either concrete or rough, bumpy roads—for quick stops and sharp turns.

An extra thick side wall of cushion rubber and extra deep treads shield the inner cord carcass from the road shocks. A big wide flat tread and extra strong side wall give a wide margin of safety against overloading and the hard wear of long, fast trips, the quick starting and sudden

twenty and twenty-five thousand miles of rigorous service.

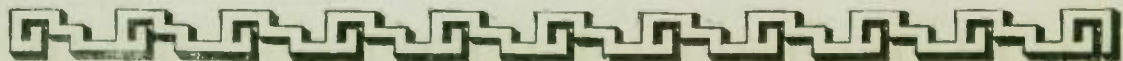
We strongly counsel our dealers to get behind Aztec cords and push them. It gives you the opportunity to meet competition squarely and to give value unequalled. With this line you can build a list of permanent, satisfied customers as well as make an attractive profit on each sale, and all this backed up with a definite guarantee of service that is not matched by any other tire in this field.

stopping of traffic driving. Aztecs are truly modern tires, developed through the experience of years of tests and experiments to withstand the severe demands made by today's motorists—a trustworthy tire that carries them unfailingly without trouble or attention usually for twenty thousand miles and more.

### The Great Safety Tread

The Aztec Cord Safety Tread is the result of years of study and experiments. It is much more than just a handsome design. The indentures have been calculated to the fraction of an inch, to provide traction without undue resistance to the driving power of the car. When you have tried setting your brakes against them on a skiddy pavement you will be amazed at how they grip instantly and hold against the side slips and skids.

The specially compounded rubber used on the tread and side walls is so balanced as to meet the extreme punishment that modern driving gives them. Blistering hot, hard pavements will not soften or loosen these rugged treads and side walls. The treads are of the new flat type, extra wide, so that the burden is distributed over a wide surface, making wear slow and even. They do not wear thin in spots, but rather in one uniform expanse, so that they give trouble free service up to the last mile.





# HOW TO MAKE COMPARISONS

Some tire companies offer two different grades of tires—one their Super-Service High Quality line; the other their Standard Quality at a lower price. Aztec should always be compared only with the

highest quality. They will stand up in service compared with any of the first grade tires on the market, and our dealers can sell them on that basis.

## 15,000 Miles of Unbroken Trouble-Free Service Guaranteed

Knowing them capable of far more service, we unhesitatingly and definitely guarantee Aztec cords on a 15,000 miles-of-service basis, against all defects in material and workmanship. If a defect

develops before the tire has gone 15,000 miles we will replace it, charging the user only for the mileage received.

### MAKE YOUR OWN ADJUSTMENTS

Braun Dealers are authorized to make their own tire adjustments on Aztec cords, as outlined on Page 123. Charge only for the mileage received. Return the faulty tire to us at once and we will adjust with you on the basis of your customer adjustment. This makes it mighty easy for our dealers to build up a satisfied patronage on these fine tires. This plan is

a great maker of friends and is proving tremendously popular with our dealers all over the country.

### Our Dealers Make 40% Yet Undersell Competition

If you will compare them, quality for quality, size for size, weight for weight, you will find that Aztec cords can be sold to allow you a profit of 40%, and yet keep your prices below competition. Don't let the price-cutting "cypers" scare you. The first rule in building up a local tire business is to give quality and to stand squarely behind the tires you sell. We stand ready to back you up on any reasonable adjustment which you might make with your customer. See page 123 for details. We place our own responsibility squarely behind you, so that you, yourself, take absolutely no risk so long as you exercise reasonable care and good judgment in your adjustments.

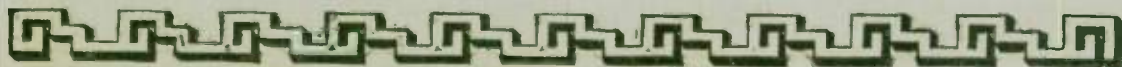
With these advantages you are sure to make big profits in handling Aztec cords.

### 12 Hour Service

<b>7K10165</b> 30x3 1/2 Clincher Ship. Wt., 15 lbs. Price, \$5.63 2% Discount <b>\$5.52</b> NET	<b>7K10169</b> 32x4 S. S. Ship. Wt., 19 1/2 lbs. Price, \$12.52 2% Discount <b>\$12.27</b> NET	<b>7K10173</b> 34x4 1/2 Ship. Wt., 28 1/4 lbs. Price, \$17.80 2% Discount <b>\$17.44</b> NET
<b>7K10166</b> 30x3 1/2 Standard Clincher Ship. Wt., 15 lbs. Price, \$6.42 2% Discount <b>\$6.29</b> NET	<b>7K10170</b> 32x4 Ship. Wt., 20 1/2 lbs. Price, \$12.45 2% Discount <b>\$12.69</b> NET	<b>7K10174</b> 34x4 1/2 Ship. Wt., 28 1/4 lbs. Price, \$18.32 2% Discount <b>\$17.95</b> NET
<b>7K10167</b> 36x3 1/2 Over-sized Clincher Ship. Wt., 19 1/4 lbs. Price, \$8.14 2% Discount <b>\$7.98</b> NET	<b>7K10171</b> 32x4 Ship. Wt., 21 1/4 lbs. Price, \$13.66 2% Discount <b>\$13.39</b> NET	<b>7K10175</b> 33x5 Ship. Wt., 36 lbs. Price, \$23.36 2% Discount <b>\$22.89</b> NET
<b>7K10168</b> 32x4 S. S. Ship. Wt., 15 lbs. Price, \$8.77 2% Discount <b>\$8.59</b> NET	<b>7K10172</b> 32x4 1/2 Ship. Wt., 20 1/2 lbs. Price, \$17.13 2% Discount <b>\$16.79</b> NET	<b>7K10176</b> 35x5 Ship. Wt., 27 1/2 lbs. Price, \$24.88 2% Discount <b>\$24.38</b> NET

Good to  
the  
Last  
Mile!

For the  
"Hard"  
Driver,  
They Stand  
the "Gaff"





# Roadmaster Cord

**30x3  
CLINCHER**

7K10119

\$5.35 less 2% or

**\$5<sup>24</sup>**  
**NET**

**10,000  
MILES**

**Guaran-  
teed**

**29x4.40  
BALLOON**

7K10125

\$6.95 less 2% or

**\$6<sup>84</sup>**  
**NET**

This is a good, rugged, full size, cord tire that meets the demand for a reliable tire at a lower price. However, we believe it to be superior to most so called Standard Quality tires. We back this belief with a most liberal service guarantee of 10,000 miles.

## The Roadmaster Guarantee

Roadmaster Cords are guaranteed on a 10,000 miles service basis, against all defects in material and workmanship.

## The Utmost in Value

On comparison, we know that you will find this among the best, if not the best tire values in America today. Order a few of these fine tires for your stock. Test them. You will quickly find that they are more than we claim and will prove a source of big profit to your store.

Tires in this price class are usually guaranteed for only 5,000 miles of service. We guarantee 10,000 miles! With this extra 25% of safety, your customer cannot lose. And as a matter of fact, as you well know, the guarantees indicate but a fraction of actual service the tire will give.

Cat. No.	Size	Shipping Wt.	Price	Cat. No.	Size	Shipping Wt.	Price
7K10119	30x3 CL	11 1/2 lbs.	\$5.35	7K10123	32x4	17 1/2 lbs.	\$9.65
7K10120	30x3 1/2 Std. Clincher	12 1/2 lbs.	5.80	7K10124	33x4	18 3/4 lbs.	9.95
7K10121	30x3 1/2 Cl. Oversize	14 1/2 lbs.	6.60	7K10125	29x4.40 Balloon	10 1/2 lbs.	6.95
7K10122	31x4	16 1/2 lbs.	9.35				

## ROADMASTER Heavy Grade Tubes

These are good quality tubes at a lower price. They are full size made of a good grade of rubber and built by the laminated, layer-on-layer process—exactly as the finest tubes are made.

### Guaranteed 1 1/2 Years

We unhesitatingly guarantee them for 1 1/2 years of service against defects in materials and workmanship. Run under proper conditions they will wear as long as many tubes sold at double the price. Shipping wts., 2 to 6 lbs.

FOR OVERSIZE CORD TIRES				FOR OVERSIZE BALLOONS					
Gray		Size	Red		Gray		Red		
No.	Price		No.	Price	No.	Price	No.	Price	
7K10063	\$0.35	10x2	7K10073	\$0.97	7K10083	\$1.25	27x4.40	7K10094	\$1.35
7K10064	.51	10x1 1/2	7K10074	1.01	7K10084	1.27	29x4.40	7K10095	1.39
7K10065	1.39	11x4	7K10075	1.43	7K10085	1.54	29x4.75	7K10096	1.68
7K10066	1.47	12x4	7K10076	1.57	7K10086	1.55	30x4.75	7K10097	1.78
7K10067	1.52	13x4	7K10077	1.62	7K10087	1.66	29x4.95	7K10098	1.79
7K10068	1.87	12x4 1/2	7K10078	1.99	7K10088	1.69	30x4.95	7K10099	1.84
7K10069	1.93	13x4 1/2	7K10079	2.07	7K10089	1.77	31x4.95	7K10144	1.89
7K10070	1.98	14x4 1/2	7K10080	2.11	7K10090	1.83	32x5.25	7K10145	1.98
7K10071	2.28	33x5	7K10081	2.54	7K10091	1.92	31x5.25	7K10146	2.07
7K10072	2.37	35x5	7K10082	2.63	7K10092	2.18	30x5.77	7K10147	2.39
					7K10093	2.29	31x6.00	7K10148	2.48





# AZTEC <sup>HEAVY DUTY</sup> TRUCK and BUS CORD TIRES

## WIDE, FLAT, MULTI-PLY TREADS

The illustration gives but a faint idea of the huge size and tremendous weight of this super-service truck and bus tire. The tread is of the safety type, so essential for today's highway and traffic hauling. This tread is exceptionally wide, flat and deep. The burden is distributed over a large area, making wear slow and even.

The design, the materials and the construction of these fine heavy duty tires is of the same superior type as Aztec Balloons and Regular Cords. No expense, no care or attention has been spared to make them America's finest commercial use tires.

We stake Aztec Truck Tires against any other regardless of name or make. We unhesitatingly guarantee them against defects in materials and workmanship for 15,000 miles of service. If a defect should develop before that distance, we will replace the tire, charging only for the service given. Braun Dealers are authorized to make such adjustments with their customers and we will settle with them on the basis of guarantee as outlined on page 122.

### GUARANTEED 15,000 MILES

No.	Size	Ply	Shpg. Wt.	Price
7K10100	30x3 1/2	6	19 lbs.	\$ 9.67
7K10101	32x4 1/2	8	31 lbs.	22.13
7K10102	34x4 1/2	8	33 lbs.	23.86
7K10103	30x5	8	39 lbs.	24.95
7K10104	33x5	8	43 lbs.	27.50
7K10105	34x5	8	44 lbs.	28.52
7K10106	35x5	8	46 lbs.	29.03
7K10107	32x6	10	56 lbs.	43.83
7K10108	36x6	10	62 lbs.	48.66
7K10109	34x7	10	65 lbs.	57.04
7K10110	38x7	10	73 lbs.	62.76
7K10111	40x8	12	105 lbs.	89.30

## AZTEC Truck and Bus Tubes

These extra heavy duty Gray tubes are made especially for rigorous everyday commercial use. Big and heavy and tough, of the finest grade pure rubber. Flawless and generous in size, they stand the heavy shocks of overloading and rough going.

They are made by the new Laurent water curing process, which produces a tube positively free of all air-pockets, blisters, weak spots, bubbles or seams. Absolute uniformity of thickness at every point is positively assured by this most advanced process.

Aztec Truck and Bus Tubes at the prices we offer them give our dealers the opportunity to build up a real business in the Commercial field in their communities. This is a field often overlooked but properly prospected is a source of real profit.

### Guaranteed 2 Years

Aztec Truck and Bus Tubes are guaranteed for two years of service, against defect in materials and workmanship.

No.	Size	Wt.	Price	Price
7K10001	Size, 30x3 1/2	Wt., 3 lbs.	Price, 2 oz.	\$1.24
7K10002	Size, 32x4 1/2	Wt., 4 lbs.	Price, 6 oz.	2.19
7K10003	Size, 34x4 1/2	Wt., 4 lbs.	Price, 6 oz.	2.29
7K10004	Size, 30x5	Wt., 5 lbs.	Price, 8 oz.	2.58
7K10005	Size, 33x5	Wt., 5 lbs.	Price, 8 oz.	2.69
7K10006	Size, 34x5	Wt., 5 lbs.	Price, 8 oz.	2.74
7K10007	Size, 35x5	Wt., 5 lbs.	Price, 10 oz.	2.79
7K10008	Size, 32x6	Wt., 8 lbs.	Price, 4 oz.	4.58
7K10009	Size, 36x6	Wt., 8 lbs.	Price, 4 oz.	5.44
7K10010	Size, 34x7	Wt., 10 lbs.	Price, 6 oz.	6.95
7K10011	Size, 38x7	Wt., 11 lbs.	Price, 8 oz.	7.35
7K10012	Size, 40x8	Wt., 13 lbs.	Price, 6 oz.	8.35

## Roller Bearing Cushion Tires for Commercial Trucks

The greatest fault of most Cushion tires is that when they are fitted to give comfortable riding at normal loads they break down under temporary overloads. Roller Bearing Cushion Tires will not do this.

The crescent shaped holes go clear through the tire, forming a roller of rubber attached to the lower side of the hole, or the base of the tire. By running clear through, central or circumferential walls are eliminated. These walls are what break down in ordinary cushion tires. Friction is reduced through ventilation.

### Guaranteed One Year

Under normal loads the rollers do not function, thus making the tire very resilient and comfortable riding. These tires will stand a load of 2 1/2 tons on a one-half ton Ford truck. A 4 1/2-inch tire can be overloaded for more than a year of ordinary use without ill effect.

Cured on rims. Interchangeable with regular pneumatic rims. As easy to put on as a spare.

No.	Size	Shpg. Wt., Lbs.	Net Price
7K10113	30x3 1/2	39	\$15.26
7K10114	32x4 1/2	74	33.62
7K10115	30x5	86	43.85
7K10116	33x5	93	43.86

\* Includes adapter band to fit 30x5 Ford wheels.





# AZTEC TUBES

SUPER QUALITY

## Guaranteed 3 Years

Pure rubber floats in water. By this cure test you may quickly know that AZTEC Tubes are made from only select grade pure rubber. No common rubber is good enough for Aztec standards of quality. These wonderful tubes are full in length and diameter. They will fit the largest oversize cord tires without stretch or strain. They are thick and strong. They won't tear in ordinary usage and they keep live to the last mile.

### Made by the New Laursen Water Cure Process

These tubes are manufactured by the new Laursen water cure process, a method generally accepted as the greatest development in tube construction. The curing by hot water under pressure, evenly distributed, insures a tube of precisely uniform thickness at every point. There can be no air-holes, bubbles, blisters, air-pockets or seams. Free from every flaw; each and every tube is alike in toughness and evenness of texture with a soft, velvety surface. Let your customers feel them. They are different. You can see the extra quality in them.

A fine tire is worthy of a fine tube. In no other way may the motorist assure himself of trouble-free tire service than by such a combination. When you sell an AZTEC tire sell an Aztec Tube with it. So good are these fine tubes that we guarantee them for 3 years of service against any defect in material or workmanship. They should outlast two sets of cord tires. The combination of a 15,000 mile guaranteed tire and a 3 year guaranteed tube makes an unbeatable selling argument for our Dealers.

#### FOR OVERSIZE CORD TIRES

GRAY				RED	
Number	Price	Tire Size	Shipping Weight	Number	Price
7K10034	\$1.16	30x3½	2 lbs.	7K10191	\$1.24
7K10035	1.47	31x4	2½ lbs.	7K10192	1.59
7K10036	1.55	32x4	2½ lbs.	7K10193	1.64
7K10037	1.59	33x4	2¾ lbs.	7K10194	1.69
7K10038	1.97	32x4½	3½ lbs.	7K10195	2.19
7K10039	2.04	33x4½	3½ lbs.	7K10196	2.24
7K10040	2.54	33x5	4½ lbs.	7K10197	2.69
7K10041	2.64	35x5	4½ lbs.	7K10198	2.79

#### FOR BALLOON TIRES

Number	Size	Weight	Price
7K10033	29x4.40	2½ lbs.	\$1.52
7K10044	30x4.75	2¾ lbs.	1.95
7K10045	29x4.95	3 lbs.	1.98
7K10046	30x4.95	3¼ lbs.	2.05
7K10047	31x4.95	3½ lbs.	2.09
7K10048	30x5.25	3½ lbs.	2.25
7K10049	31x5.25	3½ lbs.	2.38
7K10050	30x5.77	4 lbs.	2.65
7K10051	32x6.00	4 lbs.	2.95
7K10052	33x6.00	4 lbs.	2.98
7K10053	32x6.20	4¼ lbs.	3.35
7K10054	33x6.20	4¼ lbs.	3.45
7K10055	33x6.25	4½ lbs.	3.95
7K10056	34x7.30	6 lbs.	4.45

#### FOR SEMI-BALLOON TIRES

Number	Size	Weight	Price
7K10057	31x4.40	3 lbs.	\$1.95
7K10058	32x4.95	3½ lbs.	2.22
7K10059	33x4.95	3¾ lbs.	2.29
7K10060	34x4.95	4 lbs.	2.31
7K10061	33x5.77	4¼ lbs.	2.90
7K10062	34x5.77	4¾ lbs.	2.95

**Aztec Tubes—introduced this last season, have quickly established themselves as reliable, long wearing, trouble free tubes.**



# PIONEER Case Hardened TIRE CHAINS

## An Improved Highest Quality Chain at a New Standard of Prices—Guaranteed for Service

Made especially for us by one of the best known makers of fine chains. Cross chains are case hardened by special electrical process which gives the link positive uniformity together with a hard surface without destroying the tough center for strength. Spaced to give greatest traction and longest wear. Improved type side chains having locked link to prevent pulling out regardless of strain and won't cut tire. Heavy galvanized makes them rust-proof and rich in appearance. The End Fastener is also improved type—takes up slack and always stays put; easy to snap on.

CORD TIRES				BALLOON TIRES			
No.	Size	List	Net, Per Pair	No.	Size	List	Net, Per Pair
8K10200	30x3 1/2	\$1.50	\$2.61	8K10209	29x4.50	\$5.00	\$2.90
8K10201	31x4	5.50	3.23	8K10210	29x4.75	5.50	3.23
8K10202	32x4	5.50	3.23	8K10211	30x4.95		
8K10203	33x4	5.75	3.35	8K10212	30x4.75	6.00	3.48
8K10204	32x4 1/2	6.25	3.63	8K10213	30x4.95	6.75	3.92
8K10205	33x4 1/2	6.50	3.77	8K10214	30x5.25	7.00	4.06
8K10206	34x4 1/2	6.75	3.92	8K10215	30x5.77	7.00	4.06
8K10207	33x5	7.50	4.35	8K10216	31x5.25	7.00	4.06
8K10208	33x5	8.00	4.64	8K10217	32x6.00	8.50	4.94
				8K10218	32x6.20	9.00	5.22
				8K10219	32x6.20	9.00	5.22

Shipping wt., 19 to 27 lbs. per pair.

Shipping wt., 18 to 27 lbs. per pair.



## Repair Cross Chains

Standard Replacement Cross Chains, for anti-skid chains. Made of best quality case hardened steel. Easy to attach.

No.	Size	Per Doz.
8K9473	3 1/2 inch	\$0.64
8K9474	4 inch	.63
8K9475	4 1/2 inch	.73
8K9476	5 inch	.78
8K9478	4.40 inch	.63
8K9479	4.75 to 4.95 inch	.73
8K9480	5.25 inch	.78
8K9481	5.77 inch	.78
8K9482	6.00 to 6.20 inch	1.26

## Quick Repair Links

Finest quality. Makes quick repair. Fast sellers. Come in heat boxes of 20. Carton contains 12 boxes. Shipping wt., 8 lbs.

8K9488—Retail price per box.....20c  
Per carton, net.....\$1.29

## Tire Chain Adjusters

Stops hanging and flapping of chains. Holds them tight, reducing wear and preventing slipping. Fit both balloon and regular tires.

8K9468—Climate, 4-sided; as shown.

List, 75c. Net, each.....35c  
8K9469—No-nut, 6-sided, with hooks to prevent jumping off. List, \$1.00.  
Net, each.....48c

## Emergency Chains

Place clamps on spokes, slip the chain over the tire, and hook the snap into the loop—and it's done! No jacks or tools needed. Set of four chains packed in a bag.

8K9470—For 3 and 3 1/2 in. Set of 4  
List, 75c. Net, each.....\$2.33  
8K9471—For 4 and 4 1/2 in. 2.67  
8K9472—For 5 and 5 1/2 in. 3.33

## Chain Tool

The finest device made for changing cross links. Made of drop forged steel. Length, 9 1/2 inches. Snap links on or off in a jiffy.  
8K9490—List price, 75c.  
Net price.....33c



## Endurance Tire Chains

### A Reliable Chain at a Low Price

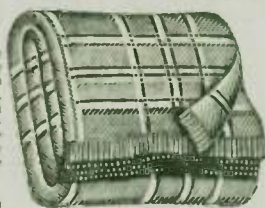
Not as heavy as our Pioneer Tire Chains, but of the same high quality case hardened steel and made with the same care and skilled workmanship. Cross chains are copper plated; side chains galvanized to prevent rusting. Lever lock for easy put-on and take-off. Will give good service for all ordinary use.

No.	Tire Size	List	Net, Pair
8K9458	31x3 1/2	\$2.65	\$1.67
8K9463	29x4.40	2.80	1.77

## FINE PURE WOOL AUTO ROBES

### The Amherst

An amazing value! A fine quality, 100% pure wool robe at an unheard of low price! Made in the popular attractive plaid design, in a variety of rich color combinations. Full size, 54x76 inches. Has 4-inch fringe. With a soft woolly nap, the strongest yarn, this beautiful robe will prove highly satisfactory for auto, outing, beach and home use. Its low price sells it—its exceptionally good quality keeps it sold. Shipping wt., 3 1/2 lbs.  
8K9445—List, \$10.00.  
Net, each.....\$5.50



### The Dartmouth

Here is a finely woven robe of the very finest 100% pure wool yarns. It will withstand the severest usage and give the best of satisfaction. In appearance, it is very striking indeed—an elegant plaid design in warm brown colors richly blended with royal purple, grays, greens and buff. It has a soft texture with heavy nap and a full 4-inch fringe. The size is regulation, 54x76 inches, making it adaptable to sports and home use. It is a most outstanding value—the finest robe for which you would ordinarily expect to pay double the special net price which we have placed on it.

8K9446—List, \$12.00. Net, each.....\$6.80

### The Cornell

The finest of wool yarns, skillful weaving and the tasteful blending of colors make this one of the most beautiful and serviceable robes ever made. Full 100% pure wool, with soft nap and a 4-inch fringe. The design is a striking plaid effect with dark brown ground with striping of the lighter colors of buff, lavender and pinks. Sports, snappy, it will grace the finest car or stand out at the football games, on the beach, at outings or in the home. Extra size, 60x80 inches. You see such robes offered in exclusive stores at much higher prices than our dealers can price them. Push this fine robe! It will make good friends as well as big profits.  
Shipping wt., 4 1/2 lbs.  
8K9447—List, \$20.00. Net, each.....\$9.50



**An Ideal Gift! For Auto, College, Sports, Home!**







## Self Vulcanizing Tire Shoe



Saves vulcanizing small blowouts, cuts and puncture holes in casings. Shoe is made from three ply heavy fabric and has layer of cement on surface which vulcanizes tenaciously to the casing. A plug of self-cured gum is furnished to fill hole as shown in sectional illustration. This plug is up hole and becomes part of tire. It vulcanizes itself and makes a strong permanent repair that adds thousands of miles of extra service. Tube of cement furnished to hold plug in place until vulcanized. Each patch in neat self-box. For cord or balloon tires. Average shipping weight, each, 8 ounces.



	List	Net. Each
8K8146—3½ in. (7x7)	35c	20c
8K8147—4 in. (8x8)	45c	26c
8K8148—4½ in. (8x9)	50c	31c
8K8149—5 in. (10x10)	65c	35c

## Pioneer Reliners



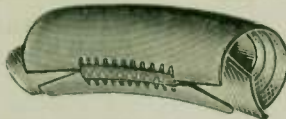
Without a peer! Adds a new lease of life to any tire, permitting you to wear down almost to reliner. Reinforces the tire fabric, preventing blowouts and helping stop punctures. Made from several plies of strong tire fabric firmly vulcanized together. Has lap ends which join so that no cementing is required. Will outlast the tire life and can be removed and placed in another tire.

### FOR HIGH PRESSURE TIRES

Size	Net price
8K8120—30x35	\$0.84
8K8121—30x35	.90
8K8122—32x44	1.32
8K8123—32x44	1.35
8K8124—32x44	1.38
8K8125—34x41	1.44
8K8126—32x44	1.62
8K8127—32x44	1.68
8K8128—34x41	1.74
8K8129—30x35	1.77
8K8130—32x45	1.80
8K8131—35x5	1.92

### FOR BALLOON TIRES

Size	Net price
8K8136—28x40	1.56
8K8137—28x40	1.62
8K8138—28x40	1.65
8K8139—31x45	1.68
8K8140—30x35	1.74
8K8141—31x45	1.77
8K8142—30x35	1.92
8K8143—32x45	2.04
8K8144—30x35	2.07
8K8145—32x45	2.16



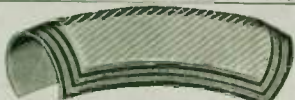
## Self Supporting Laced Boots

A heavy 4-ply fabric boot equipped with a clever locking device which securely holds it around tube, prevents tire bulging and patch spreading. Edges of double clinching lock dovetail and are secured by pin as illustrated. Most durable boot made.

BALLOON SIZES			
No.	Size	Price, Each	Per Dozen
8K8193	4.40	50c	\$5.88
8K8194	4.75	52c	6.00
8K8195	4.95	53c	6.24
8K8196	5.25	67c	6.60
8K8197	5.77	62c	7.20
8K8198	6.00	67c	7.80
8K8199	6.20	68c	7.92

### BALLOON SIZES

No.	Size	Price, Each	Per Dozen
8K8193	4.40	50c	\$5.88
8K8194	4.75	52c	6.00
8K8195	4.95	53c	6.24
8K8196	5.25	57c	6.60
8K8197	5.77	62c	7.20
8K8198	6.00	67c	7.80
8K8199	6.20	68c	7.92



## Skived Tire Shoes

Extra heavy shoes, all skived and trimmed, just like a piece of the casing itself. Made of finest 4-ply cord fabric. Makes the repair as sound as the tire. The best and strongest tire shoe. Sure to give satisfaction.

8K8157	3½ in.	12 in.	long.	13c
8K8158	4 in.	13 in.	long.	19c
8K8159	4½ in.	14 in.	long.	24c
8K8160	5 in.	15 in.	long.	28c
Balloon Tire Shoes				
Heavy 3-Ply Fabric				
8K8161	12 in.	long	for	4.40
				to 4.95
8K8162	13 in.	long	for	5.25
				to 5.77
8K8163	15 in.	long	for	6.00
				to 6.20

### Balloon Tire Shoes Heavy 3-Ply Fabric

8K816—12 in. long for 4.40 to 4.95	12c
8K8162—13 in. long for 5.25 to 5.77	22c
8K8163—15 in. long for 6.00 to 6.20	32c

## Self-Vulcanizing Sub Casing

Adds Many Miles of Trouble-Proof Service to Tires

Fits between inner tube and casing. Reinforces the fabric of tire. Prevents blowouts, helps stop punctures and permits wearing casing safely to the end of its life. Can be removed and placed in another casing. Made end-to-end of first quality tire fabric. The overlapping cords lay on the base and are pre-shaped under pressure on moulds just like sub-structure of a fine tire. Fits perfectly. Surface is treated with a special rubber gum cement compound which, when moistened with gasoline, causes sub-casing to vulcanize firmly to inside of tire. Quickly and easily installed by anyone. Complete instructions furnished. Will outlast casing. Shipping wt., 3 to 5 lbs.



### For Balloon Tires

Tire Size	Net Price	Tire Size	Net Price
8K8222—30x35	\$1.48	8K8228—32x44	\$1.92
8K8223—30x35	1.59	8K8229—32x44	2.03
8K8224—32x44	2.39	8K8230—32x44	2.14
8K8225—31x41	1.76	8K8231—31x41	2.29
8K8226—32x44	1.81	8K8232—32x45	2.53
8K8227—33x41	1.85	8K8233—32x45	2.64

### For Cord Tires

Tire Size	Net Price	Tire Size	Net Price
8K8234—30x40	\$2.08	8K8240—30x35	\$2.52
8K8235—30x40	2.13	8K8241—30x35	2.52
8K8236—28x40	2.24	8K8242—30x35	2.77
8K8237—31x45	2.36	8K8243—32x40	2.76
8K8238—30x40	2.30	8K8244—32x40	2.89
8K8239—30x45	2.41	8K8245—32x40	2.96

Makes the Most Lasting Repair

Quick, Easy, Permanent



## Wedford Kex Plugs

Stops up the puncture holes and small cuts in casing, preventing enlargement of hole and the inevitable blowout. Head of plug is rubber patch which prevents broken fabric from pinching tube. Stem plugs hole to keep out dirt, water and road oil. Very simple to use. Needle furnished to run plug stem through hole. Burn off end with match and repair is complete. On big holes use Kex dome.

**8K8071—Car Owners' Kit of 8 Plugs, 1 Tube Cement and Sheet Patching Rubber for tube puncture, 1 Kex Plug, 1 Needle. Shipping wt., 1 lb. Net.....\$3.30**

**8K8072—Garage Repair Kit contains 30 assorted Plugs, 1 Needle. Shipping wt., 1 lb. Net.....\$3.30**

**8K8073—Box of 10 Kex Disks, 4½ and 6 inch sizes. Shipping wt., 1 lb. Net.....75c**

## Round Skived Shoes

Heavy skived and trimmed shoes in round shape made from finest 4-ply cord fabric with reinforced center pad. Fits on like a piece of the original casing. Makes the repair as strong as the tire itself. Comes plain or cement coated for self vulcanizing.

### Plain Style

Size	Each	Box of 15
8K8113—5-inch	5c	\$0.58
8K8115—4-inch	6c	.66
8K8117—6-inch	9c	1.02

### Self Vulcanizing Style

Size	Each	Box of 12
8K8118—4-inch	12c	\$1.32
8K8119—6-inch	18c	2.04

## Blowout Patches

These patches are made of select grade fabric and strongly vulcanized with pure gum rubber. Molded to fit casing perfectly. Will not wrinkle or pinch tube. Generous flaps on each side firmly held by bead of tire. Prevents creeping and slipping. No cement needed.



### FOR STANDARD TIRES

Size	Net price each
8K8040—3½ in.	14c
8K8041—4 in.	17c
8K8042—4½ in.	20c

### FOR BALLOON TIRES

Size	Net price each
8K8043—4.10	24c
8K8044—4.75, 4.95	28c
8K8045—5.25, 5.77	32c
8K8046—6.00, 7.30	39c





### Pioneer Tube Repair Outfit

Not the ordinary kind of patch outfit, but one of the highest quality. Made up of a strip of live, new fresh patching rubber, a generous tube of quick-setting rubber cement and a metal roughener to prepare tube for the patch. All enclosed in screw cap can for attractive display. Push this outfit and do a splendid business on it!

**BK8091**—Complete with 26 square inches rubber. Net each.....**12c**  
 Package of 12 cans, Net, \$1.38  
**BK8092**—Complete with 72 square inches rubber. Net each.....**17c**  
 Package of 12 cans, Net, \$1.98  
**BK8093**—Shop Size—complete with 432 square inches rubber.  
 Net each.....**\$1.50**



### Tire-Cut Filler

Self-vulcanizing rubber for sealing tread cuts on tires, punctures, tears and rips in all soft rubber products. 3-oz. cans.

Also used with plastic cord patch to make inside tire repairs.

**BK8076**—List, each 50c, Net, \$0.25  
 Pkg. of 12, Net, \$2.90



### Universal Tire Flap

For all sizes of tires—fit them all. The flap for the service station or garage. Liberal in length with several slots for fitting to any size tire. Made from a strong, closely woven fabric with fleece lining, shaped to fit, with feather edge. A real high grade flap.

**BK8102**—List, 75c, Net, each, \$0.29  
 Box of 12.....\$3.36

### Hipower Rim Tool



New improved type makes tire changing easy. The most powerful and efficient labor saving rim tool; breaks, shrinks and expands all makes of split automobile rim without being removed from the rim. Automatically locks and holds rim in shrunken position so that it can be removed from tire with the utmost ease and safety. Closes up when not in use.

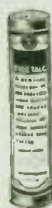
**BK8173**—Standard.....**\$2.65**  
**BK8174**—Balloon.....**\$2.65**



### "Locktite" Tire Patch Kit

Nationally advertised—one of the most popular tire kits on the market. A fast seller. Repairs both casing and tube. No heat—no expert help needed. Vulcanizes into casing, plugging holes and sealing breaks. Contains special knife for cutting rubber. Shipping wt. 4 to 16 oz., each.

**BK8086**—24 sq. in. List 50c, Net each.....**29c**  
 Pkg. of 12.....\$3.24  
**BK8087**—80 sq. in. List \$1.00, Net each.....**58c**  
 Pkg. of 12.....\$6.48  
**BK8088**—Extra big garage size 600 sq. in., with necessary cement. Full kit.....**\$3.00**



### Tire Talcum

Prevents heating and chafing. Tube will not stick to casing.

**BK8028**—Each.....**9c**  
 Pkg. of 12.....96c

### Shur-Tite Patching Cement

Is without a superior for patching all kinds of flexible rubber products. Tube is lithographed in color. Measures 3/4 in. by 4 in. 12 in the carton.

**BK8081**—Retail price, each.....**10c**  
 Pkg. of 12.....40c



### Endless Rim Flaps

A very high grade flexible rim flap for 30x3 and 30x3 1/2 rims. Made of two-ply special bias cut fabric heavily frictioned and with a center of pure rubber stock. Fits the rim snugly and will not stretch or turn up at the edges.

**BK8030**—Each.....**\$0.29**  
 Pkg. of 12.....\$3.36

### Tow Rope



Twenty feet of 1/2-inch pure Manila Rope, equipped with a patented hook that won't drop off the line. A real necessity for every tourist. A good, strong rope that will give good service.

**BK8172**—Each.....**\$0.82**  
 Pkg. of 6.....\$4.74

### Tow Cable



Sixteen feet of 5/16-inch steel wire cable, treated to prevent rusting. Strong enough to handle the heaviest cars on a hard pull. Sturdy steel hook at ends, making attaching easy and fast.

**BK8171**—Net price.....**\$1.40**  
 Pkg. of 6.....\$8.10



### "Vulc-In" Plastic Cord Patch

Nationally advertised patch of wide popularity. Made from several plies of extra heavy cord fabric with heavy coating of plastic rubber which vulcanizes patch securely to inside of casing. Makes perfect and permanent repair. Shipping wt., 1/2 lb. each.

**BK8069**—Oblong type, 7 1/4 x 8 1/2 inches. List, 50c, Net, each, **30c**  
**BK8067**—Round, 6 inches. List, 30c, Net, each.....**18c**  
 Carton of 20, net.....\$3.40  
**BK8068**—Round, 5 inches. List, 20c, Net, each.....**12c**  
 Carton of 20.....\$2.20

### Friction Tape



Best quality. Furnished in a handsome counter display carton.

Price per carton  
**BK8094**—16-1 oz. rolls.....**\$0.40**  
**BK8095**—16-2 oz. rolls.....**.80**  
**BK8096**—12-4 oz. rolls.....**1.17**  
**BK8097**—8-8 oz. rolls.....**1.48**



### Tire Remover

Not simply a "tire iron" but a real high grade unbreakable, high carbon spring steel tool. Won't bend, spring out of shape, or break. Extreme length, 15 1/2 inches. Shipping wt., 2 lbs.

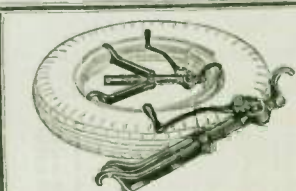
**BK8166**—List, 25c, Net, each, **\$0.13**  
 Box of 25.....\$3.00



### Rubber Mallets

Made of good live hard rubber with strong durable handle of very hard wood. Each

**BK8168**—8-oz. 2 -inch face.....**45c**  
**BK8169**—16-oz. 2 1/2 -inch face.....**75c**



### Hercules Rim Tool

The most powerful and efficient screw type rim tool for the car owner or small shop. Made from special steel with heavy gears and screw. Powerful leverage requires little effort. Shrinks and expands all rims—one tool takes all rims, no adjustments. Guaranteed against flaws or mechanical defects. Nationally advertised. Shipping wt., 3 lbs.

**BK8065**—Car Owners' Type. List, \$3.75, Net, each.....**\$1.90**  
**BK8066**—Shop Size. List, \$6.00, Net, each.....**\$4.50**



## The Buckeye Booster Finest Made!

### Ideal for Balloon Tires

Has genuine Timken Roller Bearings! Simply and strongly constructed of the finest steel will last a lifetime. Raises heaviest car evenly, surely, easily.

Raises on guide-like elevator. Adjustable step and extension top—quick adjustment. Alloy steel screw. Heavy steel base. Heavy rib reinforcement throughout.

Handle 40 inches long folds to 22 1/2 inches. Capacity, 1 1/2 tons. Shipping wt. 10 1/2 lbs.

**SK9820**  
List, \$4.50.  
Net, each..... **\$2.95**

## Double Screw Jack

Ball bearing! 4,000-lb. capacity! A big brute, but easily handled. For any size car with balloon or standard tires. Height only 7 1/2 in. Lift 8 1/2 in., height 15 1/2 in. extended.



Cylindrical screws operated by gears with ideal ratio for speed with ease. Rugged, reinforced body stands gauff of rough usage. Forked head prevents slipping. Sturdy 25-lb. folding handle makes operation easy. New, improved, one of the best jacks made. Shipping wt. 10 lbs.

**SK9824**—List, \$5.00. Net, each..... **\$2.65**



## Heavy Duty Jack

For heavy weight cars or light trucks with either balloon or standard tires. Large heavy steel body. Hot rolled special carbon steel lifting rack, teeth cut in, 30-lb. folding handle with special bend to escape gas tank, spare tire, bumper or other interference. Extra big base prevents easy tipping. Black, enameled. Raises 1 1/2 to 1 3/4 inches. Adjustable slide step. Shipping wt. 11 lbs.

**SK9822**—List, \$3.50. Net, each **\$1.65**

## 3,000 lb. Capacity Steel Handle



## Tip-Over Head Jack For Light Cars



All Steel jack with wide base. Takes cars up to 2,000 lbs. Height 8 1/2 inches. Tip-over head 2 inches. Lift 5 1/2 inches. 14-inch steel handle. Black, enameled. Ideal for light cars, such as Ford, Star, Whippet, Gray, etc., with balloon or standard tires. Strong, sturdy, will last a lifetime. Shipping wt. 6 lbs.

**SK9823**—List, \$1.25. Net, each..... **.65c**  
Box of 6..... **\$3.60**

## Light Car Jack



Ratchet type jack of a most popular design. A high grade all steel jack made and guaranteed by famous manufacturer. Height 9 1/2 inches. Extends to 14 1/2 inches. Round hickory handle. Capacity, 1,000 lbs. A special bargain. Shipping wt. 6 lbs.

**SK9821**—List, \$1.65. Net, each..... **.99c**

## MIRRORS

### "Rainbow" Colored Mirror



No vibration. In two attractive colors. Handsome fittings. Shipping wt. 1 1/2 lbs.

**SK8375**—Amber, 2 1/2 x 7 in..... **\$1.00**  
**SK8376**—Blue, 2 1/2 x 7 in..... **1.09**

## Single Mirror

Fits all open or closed cars. Silver polished plate glass mirror. 2 1/2 x 7 inches. Latest Improved Bracket stays put. Shipping wt. 1 1/2 lbs.

**SK8382**—Each..... **.43c**

## Truck Mirror

Constructed especially for Trucks and cars with side curtains. Clamp adjustable to any position. Extension arm 12 in. long. Diameter mirror, 4 1/2 in. Shipping wt. 1 1/2 lbs.

**SK8386**—Each..... **\$0.79**  
Box of 6..... **\$4.50**

## Dual—Rear View Type

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 open or closed cars. Special hand adjustment. Details at \$1.75.

**SK8320**—Each..... **.76c**  
In lots of 6, each..... **.74c**

## Combination Tail and Stop Light

Legal  
Everywhere



Front of brass in hand polished nickel finish. Word "Stop" is impressed in glass. Body and bracket are heavy steel high gloss black baked-on enamel. Tail lamp has xenophore lens with glass window to illuminate license plate. Conforms with regulations everywhere. Special silver bronze reflector. Complete with 6-volt bulb and switch. Shipping wt. 3 lbs.

**SK8329**—With Universal Fitter for any car bracket (no plate holder). Red Stop Lens..... **\$1.73**  
**SK8330**—Same with Green Stop Lens. Net price, each..... **\$1.73**  
**SK8331**—Complete with License Plate Bracket as shown. Red Stop Lens..... **\$1.73**  
**SK8332**—Same with Green Stop Lens. Net price, each..... **\$1.73**

## Stop Light Switch

Highest quality workmanship—most dependable and efficient stoplight switch made. Non-rustable alloy metal parts. Wiping type contact insures perfect operation. Shipping wt. 4 oz.

**SK8369**—Net, each..... **.15c**

## Dash Switch

Jiffy Switch requires only 5/16-inch hole in dash, shank 1-inch long. Push-button type. Neatly nickel plated. Shipping wt. 4 oz.

**SK8371**—List 30c. Each **15c**  
Pkg. of 12..... **\$1.68**

## Tail — Stop



## Back Up Light

## Alumino Triplex Lamp

Combination tail and backup lamp with license plate holder attached. Made of heavy spun burnished aluminum with nickel plate reflectors. Shipping wt. 4 lbs.

**SK8317**—List, \$5.50. Each..... **\$3.17**  
Lots of 3, each..... **\$3.10**



## Rainbow Jewel Dash Lamp Cap

Fits over bulb of old dash lamp. Made of nickel plated white metal, studded with nine sparkling colored jewels. Shipping wt. 8 oz.

**SK8361**—List, 75c. Each..... **.57c**  
Lots of 6, ea..... **53c**



## Courtesy Lamps

Made of brass, nickel plated and hand polished with reflector buffed to a mirror-like finish. Lens (green and red) of 3-inch diameter, mounts on either splash curtain or running board. Shipping wt. 1 1/2 lbs.

**SK8357**—List, \$3.00. Net price, pair..... **\$1.40**

## Clamp-On Stop Light

When installed on present tail light, looks like a single unit—neat, rugged, effective. Fits all standard cars and trucks. Can be installed in few moments. Two styles of mounting as listed. Complete with bulb and switch. Shipping wt. 1 1/2 lbs.

**SK8325**—Universal Bolt Bracket, Red Lens. Net, each..... **.93c**  
**SK8326**—Same with Green Lens. Net, each..... **.93c**  
**SK8327**—With Strap Mounting especially for 1926-27 Fords. Red Lens. Net, each..... **.93c**



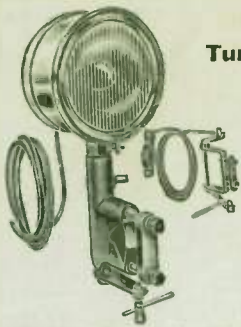
## All Nickeled Trouble Lamp

All metal heavily nickel plated. Wide reflector in gleaming nickel with glass lens. Equipped with 8-foot flexible cord and standard connecting plug. 6-8 volt 2 C. P. bulb. Switch in handle. Shipping wt. 1 lb.

**SK8453**—Single Contact. List, \$1.75. Net, each..... **.74c**  
**SK8454**—Double Contact. List, \$1.75. Net, each..... **.74c**







## The Stover Curve-Lite

**Turns Automatically with Front Wheels  
Drive at Night with Safety**

No more uncertain guessing when driving around sharp turns and dangerous curves! The Stover Curve-Lite will always guide your way, because it turns automatically with the front wheels. Attached to the front bumper, and guided by the action of the steering column Pitman arm, it throws a brilliant beam of light parallel to the wheels, no matter in which direction they are turned! It permits safe driving with dimmed lights in the city by illuminating gutters and sharp corners. In the country, its ability to throw light in advance of the headlight range on sharp turns, is absolutely invaluable. In mountainous sections no car should be without it. Installed in 20 minutes without the aid of any special tools. All cable and attachments included. Shipping wt. 6 lbs.

8K8972—Black and nickel finish. List, \$12.50. Net each.....\$8.23  
8K8973—All nickel. List, \$14.50. Net each.....9.86

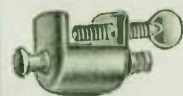
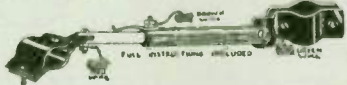
## Automatic Guide Signal

**Operates Automatically by Steering  
Mechanism of the Car**



When installed, these wonderful lights positively and automatically signal drivers behind you of your intention of turning to left or right. A clever mechanical switch connected to the steering mechanism of the car, controls the lights. The lights work on a new high-ratio principle. A sixteenth turn of the steering wheel completes the circuit and flashes either signal according to way turn is being made.

Two heavy steel black enamel shell lamps with brackets fit onto standard license plate bracket. The blue and canary colored lenses are of a prismatic design on back and have sand cast "L" and "R" with arrow in front. They sharply chart your way to those behind you. Below is illustration of the simple switching device, consisting of a brass rod in a Bakelite tubing. Makes clean, definite contact always. Nothing to get out of order and will outlast the car. Very simple to install—no drilling—anyone can do it with full instructions furnished. Shipping wt., 3 lbs.  
8K8988—Complete. List, \$4.50. Net.....\$2.90



## Clamp-On Dash Switch

Push and pull type. No holes to drill. Clamps on wood or metal dash, steering spider or post, and stays firmly in position. Dull black finish. List, 60c.  
8K8644—Net, each.....29c



## Replacement Lamp Doors

Exact replacements for standard equipment.

Net Per Pair

8K8922—Chevrolet, 1923-25	\$0.85
8K8923—Chevrolet, 1926	1.15
8K8924—Hudson Drum	2.75
8K8925—Hudson Bullet	2.75
8K8926—Essex Drum	\$2.49
8K8927—Essex Bullet	2.49
8K8928—Dodge, Brass, 1915-25	2.19
8K8929—Dodge, Brass, 1926	2.19
8K8930—Dodge, Brass, 1927	2.79
8K8931—Dodge, Steel, 1915-25	1.79
8K8932—Dodge, Steel, 1926	1.79
8K8933—Buick Master Six, 1926-27	4.69
8K8934—Buick Standard Six, 1926-27	3.89
8K8935—Maxwell—Shield Type, 1921-25	2.79
8K8936—Willy-Knight Drum, 1923-26	3.29
8K8937—Oakland Drum, 1924	3.29
8K8938—Olds Large Drum, 1924	3.29
8K8939—Cleveland, 1924	3.29
8K8940—Buick, 6-9-1, 1923	3.29
8K8941—Overland, 1926-27	1.69
8K8942—Jewett Jr., 1925-26	1.69
8K8943—Star Model F, 1925-26	.85
8K8944—Olds Model 50, 1924	.85
8K8945—Moon, 1921-25	2.75
8K8946—Chrysler, Bell, 1926	3.75
8K8947—Chrysler, Bullet	3.75
Shipping wt., pair 5 lbs.	

## Genuine Spreadlight Lenses

Legal in all states. So designed as to spread light to road edges, without glare ahead. Self-penetrating at least 500 feet in front of car. Shipping wt., pair, 2 1/2 lbs.

8K8992—8 1/2 inches.	8K8997—8 1/2 inches.
8K8993—8 1/2 inches.	8K8998—9 1/2 inches.
8K8994—8 1/2 inches.	8K8999—9 1/2 inches.
8K8995—8 1/2 inches.	8K9000—9 1/2 inches.
8K8996—8 1/2 inches.	8K9001—9 1/2 inches.
Price per pair.....	69c
Six pairs for.....	\$3.85

## Torpedo or Bullet Head Lamps for all Cars

Now all the rage. Same general type as used on Chrysler and other high grade 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. Approved lens. Black with nickel door. Single contact bulb included. Shipping wt., 15 lbs. pair.



8K8954—List, \$13.00. Net, pair.....\$6.95  
8K8955—Full nickel finish. List, \$18.00. Net.....\$10.80  
Bracket to install these lamps on car not supplied with standard S. A. E. type headlamp mounting. Complete with tie rod. Fits any car.  
8K8956—Bracket. List, \$4.00. Net.....\$2.50  
See Page 158 for Ford, Page 155 for Chevrolet Lamps.

## Genuine Replacement Head Lamps

**Drum Type S. A. E. Mount**

Suitable for all late model cars equipped with S. A. E. mounting. Can also be used on older cars in conjunction with the Universal bracket (shown in illustration, but quoted separately). Diameter lamps, 10 1/2 inches; depth lamp 6 inches; diameter lens 8 inches.



Shows Universal Bracket.

Single bulb, single contact. Black enameled. Non-glare lens. Shipping wt., 14 lbs. pair. State make and model of car.  
8K8950—Universal Head Lamps. List, \$12.50. Net (without bracket).....\$6.75  
8K8951—Universal Bracket. List, \$1.25. Net......75c

**Drum Type Fender Mount**

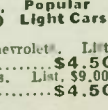
Fits Nash, Oldsmobile, Oakland, Cleveland, Chandler and numerous other cars, including 1923-5 Buicks, that use fender mountings. Black nickel door. Legal lens. Diameter, 10 1/2 in.; lens, 9 in. Shipping wt., 13 lbs. pair. State make and model of car.  
8K8960—Single Bulb S. C. List, \$12.50. Net.....\$6.85

## Exact Replacement Lamps

Exact replacements of 1921 to 1925 Essex and Hudson. Black with nickel bands. Spreadlight lens with Hudson or Essex mounting.  
8K8965—Hudson. List, \$15.00. Net, pair.....\$8.29  
8K8966—Essex. List, \$13.50. Net, pair.....\$7.49  
Same except with S. A. E. mounting. Exact duplicates of lamps used on 1926 and 1927 models.  
8K8967—Hudson. List, \$15.00. Net, pair.....\$8.29  
8K8968—Essex. List, \$13.50. Net, pair.....\$7.49



Exact replacements for all models of Dodge car, 1915-1927.  
8K8971—Dodge lamps. List, \$12.50. Net, pair.....\$7.50



Popular Light Cars  
8K8974—For 1923-1925 Chevrolet. List, \$9.00. Net, pair.....\$4.50  
8K8975—For 1926 Chevrolets. List, \$9.00. Net, pair.....\$4.50

**Drum Lamps for Popular Cars**

Small drum hood lamps of simple sturdy construction. For Gray, Star, Maxwell, Overland 4, Aax, Olds and other cars using S. A. E. mounting.  
8K8982—Single contact. List, \$8.75. Net, pair.....\$5.25  
8K8983—Double contact. List, \$8.75. Net, pair.....\$5.25



## De Luxe Spotlight



### Bullet Ditch-Lite

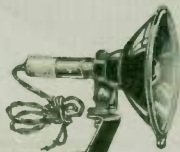
Water-proof construction throughout! Reflector made of heavy brass, silver plated, extra deep to give perfect parabola of light in conjunction with special McKeelite lens. Focusing screw at back for quick adjustment. All wiring securely enclosed. Attachable to tie-rod, bumper, apron or through radiator by special all way bracket. Heavy black enamel finish, nickel-plated brass band. Diameter 14 1/2 inches; depth 5 1/2 inches. Shipping wt. 3 1/2 lbs.

8K8306—List, \$4.00.  
Net, each .....\$1.98



A beautiful, efficient spotlight, fit to grace the finest car. Water-proof construction throughout. Reflector of heavy brass, silver plated, with liberal depth to give perfect parabola of light in conjunction with safety monogram lens. Focused from outside. No exposed sockets or contact points. Four-foot weatherproof cable. Black enamel with two nickel-plated brass rings. Black handle on back. Diameter 4 1/2 inches, 6-8 volt bulb, double contact. Shipping wt. 5 1/2 lbs.

8K8315—List, \$4.50.  
Net, each .....\$2.35  
8K8316—Same design but larger, 5 in. diameter and all brass highly nickel plated. Patented locked door. 21 C. P. D. C. bulb. Finest spotlight made. List, \$7.00. Net, each .....\$3.75



### Bargain Spotlight

Its high grade silver plated reflector and general construction make this one of the most efficient spot lights. Throws a far-reaching, penetrating light. Controlled by switch in handle. Can be focused by turn of a screw. Finished in Japan with nickel trimmings. For open or closed cars. Cord and bulb included. Shipping wt. 2 lbs.

8K8313—Net, each .....83c

### Wedford Zipper Dimmer Foot Control



A real safety device—Inducted by Safety Councils everywhere. Controls headlights by press of left foot. Reliable and constant in service. Easy to install—only head of plunger goes through floor board. Shipping wt. 1 lb.

8K8354—List, \$2.00, Net, each \$1.35



### Tail Lamp

Fits all makes of cars. Exceptionally well made. Heavy metal shell, glossy black enamel finished. Complete with 2 C. P. 6-8 volt bulb and connector plug. Shipping wt. 1 lb.

8K8319—Ford type as illustrated. List price 75c. Net, each .....34c

8K8312—2-Bolt Rear Connection type for all cars. List price, 75c. Net, each .....34c

### Short Dash Lamp



For Fords, Chevrolets, Star Cars, or any car requiring short lamp. Can be used on a wood or metal dash. Made of all brass, black enamel finish.

8K8459—Each .....34c



### 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-inch hole. Shade 1 inch long. Shipping wt. 5 oz.

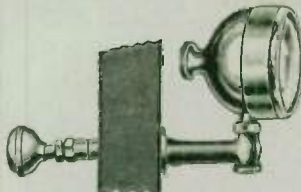
8K8461—Each .....32c



### Running Board Driving Light

The sportiest motor car auxiliary light ever designed! Mounts on running board just ahead of front door so that it is easily controlled by driver. Fits most all cars, open or closed models. High enough to throw light over hood. Made of brass heavily nickel-plated, with special silver plated reflector designed to throw shaft of light a long distance. Easy to mount—only one hole through running board. Heavy bracket brace at top to anchor to body. Ten feet armored cable and dash switch included. Height over all 40 inches; depth lamp 8 inches; 7 inch lens. Shipping wt. 9 lbs.

8K8304—List, \$20.00.  
Net, each .....\$10.95



### Superspotlight Beautiful! Double Reflectors Inside Control

New! Has taken the country by storm! Perhaps the best value in inside control spotlights on the market. Double reflectors give even flow of light from 15 to 1500 feet away. Come either all over bright buffed aluminum and nickel, or combination aluminum and heavy black enamel. Screw face dust, water, and rattle proof. On closed cars mounts through corner post without harm to car. Open car type has sturdy bracket. Easily installed. Complete with bulb. Shipping wt. 6 lbs.

Black and Bright Finish—  
8K8307—Closed Cars.  
List, \$12.50, Net, each.....\$8.75  
8K8308—Open Cars. List, \$14.50, Net, each .....\$10.15

Nickel and Bright Finish—  
8K8309—Closed Cars.  
List, \$12.50, Net, each.....\$8.75  
8K8310—Open Cars. List, \$14.50, Net, each .....\$10.15

## DeLuxe Ditchlite



Waterproof construction throughout with heavy felt gasket under lamp door. This is a true cushion to absorb all shocks and eliminates vibration. Especially fine reflector of brass with gleaming nickel-plated finish which projects a piercing shaft of light. Special monogram safety lens. Focusing screw in back. No exposed sockets—no openings to permit entrance of moisture. Generous in size—4 1/2 inches diameter. Baked black enamel finish with two heavily nickel-plated brass bands. The most improved universal bracket mount allows of any position, locks firmly and stays permanently set. Fits the radiator, bumper, splash apron, fender or chassis. Wrench furnished. Complete with 21 C. P. 6-8 volt bulb and 6-foot weatherproof cable. Shipping wt. 2 1/2 lbs. each.

8K8337—List, \$5.00.  
Net, each .....\$2.00  
In lots of 20, each.....\$1.95



### Visored Roadlight

This is one of the most perfect driving lights, a beautiful black enameled cold roll steel shell with high grade silver reflector. Visor adjustable to top or side. Complete with 5-foot cord and bulb. Shipping wt. 2 1/2 lbs.

8K8305—List price, \$2.75. Net price, \$1.60

### Bullet 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 nickel-plated rims. Length 3 inches, diameter 2 1/2 inches. Fits on cow. Complete with 2 C. P. 6-8 volt bulbs, wire and fittings. Shipping wt. 2 1/2 lbs. List, \$3.00.

8K8324—Net, pair .....\$1.79



### Drum Side Lamps Jeweled

Beautifully finished in high lustre black, baked-on enamel with nickel plated rims. Jeweled side lens 2 inch diameter, one green, one red. Semaphore fronted front lens 2 inch diameter. Complete with 6-8 volt 2 C. P. bulbs and 2 1/2 feet wire. Requires only 3/8-inch hole and locks on. Shipping wt. 2 lbs. List, \$2.00.

8K8322—Pair, net .....\$1.65  
8K8323—Same except plain sides, no jewels. Pair, net .....\$1.19

### 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 v. bulb. Shipping wt. 4 oz.

8K8353—List price, \$1.50, Each 68c



# The New Pioneer

## Long Life, Super Power Storage Battery

### GUARANTEED 2 YEARS!

(Except the 11-Plate Special)  
SHIPPED FULLY CHARGED

Pioneer batteries are made for us by one of the largest and best equipped manufacturers in the country. They are constructed by skilled workmen from the very finest materials. Only choice pure lead and oxides are used. All plates are of extra heavy weight, providing the extra capacity needed for today's fast driving. Genuine Post Oxford Cedar separators. Cases are Genuine Ebonite, positively acid proof and practically unbreakable. PIONEER BATTERIES are strong and powerful, ideal for winter use—they will turn over the most stubborn motors in the coldest weather. Over-capacity, they take the charge received and hold it over long periods. Our 2 Years' Guarantee insures full service. In case a defect develops within the time of the guarantee, we will make prompt adjustment or we will repair free on a basis of 2 years of guaranteed service.

### 24 Hour Service From Point Near You

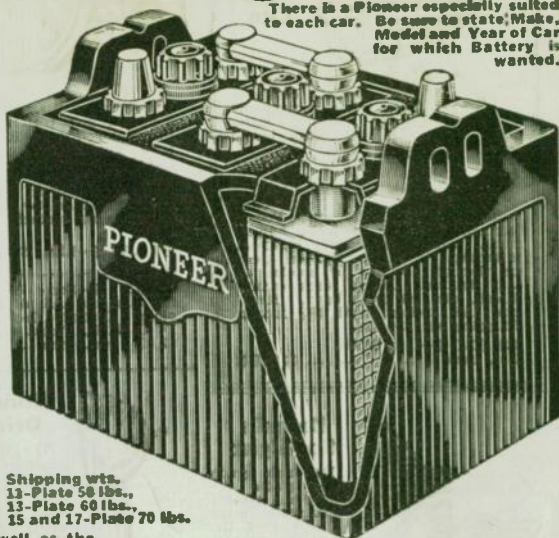
We ship from stock, at prices listed below from: Chicago, Brooklyn, Kansas City, Milwaukee or Minneapolis.

For shipment from following warehouses, add 75c each to prices quoted: Memphis, Atlanta, Dallas or Denver.

State Make, Model and Year of Car as well as the Catalog Number.

### 30 DAY TRIAL

Order a Pioneer battery in regular way. Try it for 30 days in the car for which it is made. If then you are not satisfied, return battery to us and we will refund the price paid.



Shipping wts.  
11-Plate 50 lbs.,  
13-Plate 60 lbs.,  
15 and 17-Plate 70 lbs.

State Make, Model and Year of Car as well as the Catalog Number

### 11 PLATE SPECIAL Guaranteed 15 Months

No. 8K11015

\$6.50 Less 2% or

**\$6.37**  
NET

A thoroughly reliable battery at an amazingly low price. Suitable for light cars such as FORD, CHEVROLET, STAR, GRAY, WHIPPET 4, OVERLAND, ESSEX.

### 11 PLATE HEAVY DUTY Guaranteed 2 Years

No. 8K11016

\$7.75 Less 2% or

**\$7.59**  
NET

The most economical in the long run for all the popular light cars and also may be used on many medium sized cars as listed. Especially recommended for FORD, CHEVROLET, STAR, GRAY, WHIPPET 4 and OVERLAND. Used also in AJAX, 1925-'26; AUBURN 6-43, 1925; BUICK Standard 6; BUICK 4, 1929-'24; CHRYSLER, all 1924; CLEVELAND, 1919-'25; DURANT 4, 1922-'25; ESSEX 4, 1922-'23 or 6, 1924-'26; FLINT 40, 1925 and 60, 1926; FLINT JR., 1926; GARDNER, 1921-'24; HUPMOBILE, 1918-'21; MOON 6-38, 1918-'19; MOON LT. 6, 1922-'26; NASH 4, 1921-'24, Lt. 6, 1927-'28; OAKLAND 23, 38, 1916; OAKLAND 34, 34B, 38, 1917-'18-'19; OLDSMOBILE, all 1916-'17-'18; OLDSMOBILE 6, 1922; PONTIAC 1926-'28; STUDEBAKER Lt. 6, 1921-'25.

### 7 PL. DODGE SPECIAL Guaranteed 2 Years

No. 8K11017

\$11.15 Less 2% or

**\$10.93**  
NET

Especially made for all models of Dodge cars, 1915-1925. One of the finest Dodge Special Batteries ever made.

### 13 PLATE SPECIAL

Guaranteed 2 Years

\$7.75 Less 2% or

**\$7.59**  
NET

No. 8K11018  
Made especially to replace standard equipment on ESSEX and OLDSMOBILE, FORD, CHEVROLET, STAR and OVERLAND. A most superior battery for this use.

### 13 PLATE HEAVY DUTY Guaranteed 2 Years

No. 8K11019

\$8.85 Less 2% or

**\$8.67**  
NET

The finest made, most powerful battery for use on practically all the light, medium and heavy cars—the battery for winter use; turns over most stubborn engine. Recommended for these cars:  
AUBURN, all 1922-'24, also 8-63 and 8-83, 1925-'26; BUICK 6, 1919-'24, Master 6, 1925-'28; CHANDLER, all 1919-'26; CHEVROLET, 2919-'20-'21 490, PB; CHRYSLER 38, 70, 60, 1925-'28; DIANA, all 1926-'28; DURANT 3-22, 1923; ESSEX, all 1916-'21 and 6, 1924-'28; FLINT 55, 1924-'25, and 80, 1926; HUDSON, all 1916-'28; HUPMOBILE, all except 8 cyl., 1922-'28; JEWETT, all 1923-'27; JORDAN, all 1921-'24, also 1925; KISSEL, all 1914-'28, except 8 cyl.; MAXWELL, above 390,000, 1920, all 1921-'25; MOON 6-43, 45, 66, 1917-'21, also Big 6, 1922-'26; NASH 6 (except 641), 1921-'26; OAKLAND 50, 1916-'17, also all 1920-'28; OLDSMOBILE, all 1916-'21 and 1923-'28; PACKARD 6, 1921-'28, Straight 8, 1923-'24; PAIGE 6-55, 44, 66, 1917-'23; REO, all 1916-'28 (inc. Speed Wagon); RICKENBACKER 6, 1922-'28; STAR 6, 1926-'28; STUDEBAKER, all 1916-'28, also Big and Spec. 6, 1921-'23; WILLYS KNIGHT 70, 1926-'28.

### 17 PLATE HEAVY DUTY, Guaranteed 2 Years

Especially made for GARDNER 8, HUPMOBILE 8, JORDAN 8, PACKARD 8, RICKENBACKER 8 and WILLYS KNIGHT 1920-'25 and 66, 1926-'28; PAIGE 6-64, 6-70, 1923-'28.  
8K11021—\$12.44 less 2% **\$12.19** or Net

### 15 PLATE HEAVY DUTY Guaranteed 2 Years

Especially made for CHRYSLER 80; FRANKLIN; HAYNES; PEERLESS 6; WILLYS KNIGHT 70, 70A, COLE 8.  
8K11021—\$10.85 less 2% **\$10.63** or Net

### Handy Service Station Battery Chargers

Will answer requirements of majority of radio shops and garages. These chargers are of transformer type and no current consuming resistance is used. Rotary quick break switch control, but handle on front panel provides means of setting charging rate to desired point. A. C. 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 Duco. Equipped with standard Tungar or Rectigon bulbs. These chargers are guaranteed for one year against defective parts and workmanship. Complete instructions accompany each.



The outstanding feature of these fine chargers is the economical current consumption, so that even on a 50c charging fee a good profit may be made by the station. The model "6-B" has a capacity of 574 batteries, and the "15-B", 15 batteries, as listed.  
8K11022—Model 6-B. Capacity, 6 batteries; 6 ampere rate; for 110-220 volt; 50 or 60 cycle current. Shipping wt., 96 lbs. Net.....**\$48.00**  
8K11023—Model 6-B. For 110-220 volt; 25, 30 or 40 cycle current. Shipping wt., 120 lbs. Net.....**\$55.00**  
8K11024—Model 15-B. Capacity, 15 batteries; 6 ampere rate; for 110-220 volt; 50 or 60 cycle current. Shipping wt., 112 lbs. Net.....**\$70.00**  
8K11025—Model 15-B. For 110-220 volt; 25, 30 or 40 cycle current. Shipping wt., 142 lbs. Net.....**\$80.00**



### Brass Battery Terminals

One-piece "Fit All" solderless terminals. Heavily Electro-lead plated throughout. Fits all posts in all cars, including Cadillac and Lincoln. Shipping wt., 8 ounces.

8K11026—List, 45c. Net, each.....**14c**  
Box of 10.....**\$1.30**

### Battery Jumper

Large head, properly balanced. Speed tempered, sharp pointed pins. No. 14 gauge copper, rubber covered cable. Cable cannot pull out. Shipping wt., 1 lb.  
8K11027—List, 20c. Net, each.....**15c**  
Box of 10.....**\$1.35**



W. C. BRAUN CO., Chicago, Ill. Terms—2% Cash Discount—See Page 207



## MATCHLESS Auto Bulbs

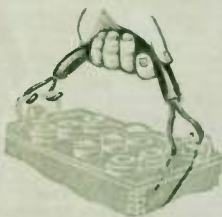
Highest Quality—G. E. Licensed

The best lamps made. Have longest life and are dependable under all conditions. Every newest engineering feature is built into them. Made in every desirable standard type. The corrugated headlight bulb make night driving safer as their diffused light materially reduces glare. The new 13-filament two filament lamps are standard equipment on many new model cars and are sure to be in big demand. One filament provides a long concentrated beam of light of short range, lighting the width of the road but de-focused so as not to annoy vision of approaching drivers. Sold only in boxes of 10.



Base	Type	Volts	Candle Power	Retail Price Each	Wholesale Price for 10
8K8480	S-C. Rear and Dash (Series).....	3-4	2	20c	\$1.10
8K8481	S-C. Rear and Dash.....	6-8	3	18c	.99
8K8482	D-C. Rear and Dash.....	6-8	3	18c	.99
8K8483	S-C. Side Lights.....	6-8	6	22c	1.21
8K8484	S-C. Headlight and Spotlight.....	6-8	21	35c	1.93
8K8485	D-C. Headlight and Spotlight.....	6-8	21	35c	1.93
8K8486	D-C. Headlight (two filament).....	6-8	21 & 21	45c	2.48
8K8487	D-C. Headlight (two in series for Fords).....	9	27	40c	2.20
8K8488	D-C. Headlight (two filament for Fords).....	6-8	2 & 21	38c	2.00
8K8489	S-C. Rear and Dash.....	12-16	3	22c	1.21
8K8490	S-C. Headlights and Spotlights.....	12-16	21	40c	2.20
8K8491	D-C. Headlights and Spotlights.....	12-16	21	40c	2.20
8K8492	S-C. Blue Glass Headlights and Spot'lts.....	6-8	21	45c	2.48
8K8493	D-C. Blue Glass Headlights and Spot'lts.....	6-8	21	45c	2.48
8K8494	D-C. Blue Glass Head'lts (two filament).....	6-8	2 & 21	50c	2.75

### Battery Carrier



Constructed of heavy chain with rubber covering, large enough to give a comfortable hand hold. Lead-coated terminal hooks.

8K8541—List price, 75c.  
Net price ..... 33c

### Battery Cable

An all lead, non-corrode battery terminal complete with cable. Cable and rubber insulation molded into terminal. No acid can eat into it.

8K8527—Ford Positive (5046) 29 in. long. List, 85c.  
Net, each ..... 49c

8K8528—Ford Ground (5049) 14 1/2 in. long. List, 35c.  
Net ..... 23c

8K8529—Chevrolet Positive (54425). List, \$1.00.  
Net ..... 58c

8K8530—Chevrolet Ground (54342). Net ..... 30c

### Battery Filler

An 8-ounce capacity bulb of all-rubber construction. For storage battery use.

8K8535—List price, 75c.  
Each ..... 42c

### Hydrometer

Fine soft rubber bulb moulded for accurate float gauge.

8K8531—List price, 75c.  
Each ..... 38c

### Chaslyn Ball Tester and Filler



The air pressure control valve does the trick. With acid in the tester you may angle and tip, turn or twist, upside down or drop it and not a drop of acid will come out until you press the bulb. Will test any size "A" or "B" wet battery. Filler included.

8K8539—  
List, \$1.25.  
Net ..... 75c

## BELDEN'S AUTO CABLES

Low Tension Lighting or Primary Cables

No. 16 Gauge (19x29) Tinned Primary Cable (OD .154). Rubber insulated braid over all. Single conductor for head, tail, parking, dash or dome lights.  
8K8901—100 ft. spool.....\$1.25  
Per foot ..... .02

Two conductors. (19x30) Tinned (OD .170). Each conductor rubber insulated. Two such conductors twisted with black cotton. Braid over all. No. 20 gauge. For cigar lighters and spotlights.  
8K8903—100 ft. spool.....\$1.70  
Per foot ..... .03 1/2

No. 16 (19x29) Tinned (OD .154). Primary rubber insulated with heavy braid over all; single conductor.  
8K8905—100 ft. spool.....\$1.45  
Per foot ..... .03

### Armored Lighting Cable

No. 16 (19x29) Tinned OD .150. Single conductor armored lighting cable. Ideal for headlights and other accessory lights.  
8K8907—100 ft. spool.....\$2.35  
Per foot ..... .04 1/2

### Accessory Cable

Suitable for special lights, tail light or other attachments. No. 18, OD .115, single conductor stranded with rubber insulation and black weather-proof braid over all.  
8K8917—100 ft. spool.....\$1.00  
Per foot ..... .02

### High Tension Secondary Cables

7 MM (19x27) Tinned OD .275 Secondary Cable. Single conductor, with rubber insulation and varnished braid over all.  
8K8909—100 ft. spool.....\$3.60  
Per foot ..... .07

9 MM (19x27) Tinned OD .352. Heavily braided Secondary Cable, single conductor with heavy rubber insulation and varnished cotton braid. For ignition use.  
8K8911—100 ft. spool.....\$5.55  
Per foot ..... .11

7 MM (19x27) Tinned single conductor rubber covered for ignition use. OD .276.  
8K8913—100 ft. spool.....\$3.10  
Per foot ..... .06 1/2

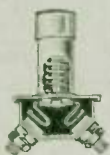
### Starting Cable

No. 2 starting cable (13x23) tinned rubber jacket, weather proof braid. OD .495.  
8K8915—Per foot, net.....13c

### Starting Switch

Positively rust-proof finish throughout. Easily installed and can be used on practically all cars. Self-cleaning, wiping contact. Easily installed.

8K8373—List, \$1.00.  
Net, each ..... 50c



Jefferson  
Made



### Universal Ignition Coil

We believe this superior to many standard make original equipment coils. Fits all cars, 6 or 12 volt systems—high or low speed engines. Finest workmanship and materials. Designed by nationally known ignition expert. Guaranteed. Gives hot spark and reduces arcing at points.

8K8615—Universal Coil with all fittings as shown. List, \$5.00.  
Net ..... \$3.10

8K8616—Universal Coil U-900 only, no fittings. List, \$4.00.  
Net ..... \$2.50

8K8617—Resistance Unit U-950. List, 25c. Net ..... 17c

8K8618—Resistor U-960. List, 75c. Net ..... 48c



# RADIATOR ORNAMENTS

The Link mount, as clearly shown in illustration of 8K8436 Peacock, fits around stem and is held by nutometer. Bolt mount is used with adapter cap 8K8448 or 8K8449 or with 8K8450 Link listed below. Be sure you select ornaments to fit your requirements.

## STOVER QUALITY ORNAMENTS

These two patterns are probably the finest, most beautiful, richest appearing ornaments made. Fashioned from unbreakable, heavy, rustproof metal alloy. Satin lustrous silverlike finish. For those who want the best. Shipping wt., 2 lbs. each.



**The Eagle**

An exact replica of the American Eagle. Symbol of power, grace and speed. Bolt mount. Height, 3 1/4 in.; length, 6 1/4 in.  
**8K8433**—List, \$5.00.  
 Net, each .....**\$3.33**  
**8K8434**—Bracket to adapt for use with nutometer. List, 50c.  
 Net, each .....**33c**



**The Princess**

Adapted Grecian model—an air of flashing speed, smartness, real American sportiness. It's different, distinctive, a mark of good taste! Bolt mount.  
**8K8444**—List, \$5.00.  
 Net, each .....**\$3.33**  
**8K8434**—Bracket to adapt for use with nutometer. List, 50c. Net, each,....**33c**



**Goddess of Speed**

Especially popular. Made in the favored Egyptian style of non-rusting unbreakable white metal, highly polished nickel finish. Two sizes. Link mount. Shipping wt., 1 lb.  
**8K8347**—Small (6 inch) size. List, \$1.00. Net, each.....**59c**  
**8K8348**—Large (8 inch) size. List, \$1.50. Net, each.....**79c**



**The Heron**

Made of genuine wytebronce, a non-rusting, unbreakable metal which takes a rich, gleaming, brilliant nickeled finish. No finer ornament made. Bolt mount. Graceful, striking. Shipping wt., 1 1/2 lbs.  
**8K8346**—List, \$5.00.  
 Net, each .....**\$2.45**



**The Plane**

A very timely ornament, now all the vogue. Made of cast aluminum with diving nymph atop wings, nymph is detachable. Rich, silver-like finish. Rotating propeller. Bolt mount. Length, 4 1/2 inches. Shipping wt., 8 oz.  
**8K8349**—List, \$2.00.  
 Net, each .....**\$1.20**



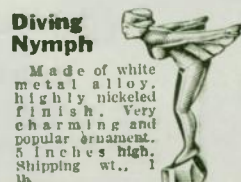
**Racing Hound**

Made of strong, unbreakable white metal in polished nickel finish. The rage of whippet racing has made this a popular ornament. Length, 7 inches. Shipping wt., 1 lb.  
**8K8439**—List, \$1.25.  
 Net, each .....**60c**



**Swanette Diving Girl**

Strong metal alloy, polished finish with "suit," "shoes" and "cap" air brushed in blended colors. A most striking effect. Shipping wt., 1 lb.  
**8K8350**—List, \$1.00.  
 Net, each .....**49c**



**Diving Nymph**

Made of white metal alloy, highly nickeled finish. Very charming and popular ornament. 5 inches high. Shipping wt., 1 lb.  
**8K8351**—List, 75c.  
 Net, each....**32c**

## The Rotascope

Improved type — beautifully jeweled. Three popular models. Made of brass, highly nickel plated. Ball bearing—last lifetime. Shipping wt., 1 lb. cap, 2 lbs.; rotascopes, 1 lb.  
**8K8341**—"Fin" type complete with cap and Rotascope as shown. List, \$5.00.  
 Net, each .....**\$2.70**

For all cars. (State make and model.)  
**8K8342**—Rotascope and Cap for Fords (see sketch A). List, \$2.50. Net, each.....**\$1.50**  
**8K8343**—Motometer Type for mounting atop Universal motometer (see B). List, \$2.50. Net, each.....**\$1.50**



**De Luxe Model**

## CHEVROLET PEACOCK

Die cast from white metal unbreakable alloy, with a dull silver-like finish. Faithfully accurate in design. Especially popular with Chevrolet owners. Shipping wts., 1 and 1 1/2 lbs., respectively.  
**8K8435**—Small size. Link mount. List, \$1.00.  
 Net, each .....**65c**  
**8K8436**—Large size. Bolt mount. List, \$2.00.  
 Net, each .....**\$1.10**



**Good Luck Fairy**

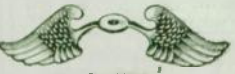
Made by Faith in unbreakable white brass. A really magnificent befitting the finest car. Shipping wt., 5 lbs.

**8K8358**—Nickel Plated. Net .....**\$1.65**  
**8K8359**—Silver Plated. Net .....**\$2.45**  
**8K8360**—Gold Plated. Net .....**\$3.35**

## Especially for Wolverine

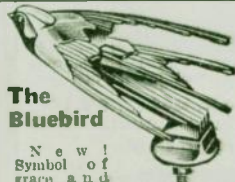
## The Wolf

A new striking design which has proven instantly popular. Faithful reproduction of this dashing, graceful animal. White brass, unbreakable, with rich nickel finish. Bolt mount. Length, 8 1/2 inches. Shipping wt., 1 lb.  
**8K8437**—List, \$1.50.  
 Net, each .....**90c**



**Eagle Wings**

A real authentic design. Present appearance of speed. Very tasteful. White unbreakable, non-rusting metal, highly nickeled. Length, 9 inches. Shipping wt., 1 lb.  
**8K8438**—List, \$1.00.  
 Net, each .....**48c**



**The Bluebird**

New! Symbol of grace and beauty. Fashioned from wytebronce, a new unbreakable metal—brilliant, lasting nickel finish. Finest quality. Real value! Shipping wt., 1 1/2 lbs.  
**8K8440**—List, \$5.00.  
 Net, each .....**\$2.35**



**Mercury**

Made of unbreakable white bronze alloy metal. Will stand a long siege of hard usage. A striking, dashing design that will strike the public fancy. Push this magnificent, artistic, authentic ornament. Link mount. Shipping wt., 2 lbs.  
**8K8352**—List, \$3.75.  
 Net, each .....**\$1.87**



**The Eagle**

Elegance, character, distinction mark this favored design. Especially popular with "The Eagles." Polished finish, unbreakable, non-rusting alloy metal. Extra heavy—will last lifetime. Bolt or link mount. Shipping wt., 1 1/2 lbs.  
**8K8355**—Senior size. List, \$2.50. Net, each....**\$1.45**  
**8K8356**—Junior size. List, \$1.50. Net, each.....**55c**



**The Mermaid**

A strikingly beautiful ornament. Cast from genuine white brass—unbreakable, non-rusting. Soft, silver-like nickeled finish. Shipping wt., 1 1/2 lbs.  
**8K8338**—Bolt Mount. List, \$2.75. Net, each....**\$1.75**  
**8K8339**—Link Mount. List, \$3.00. Net, each....**\$1.90**

## Faith Adapter Locking Cap



A radiator cap with extension that provides space for both ornament and nutometer. Correctly designed and properly made with improved cam latch that assures a really leak-proof cap. Beautiful heavy nickel plated. Furnished for all cars. State make and model.  
**8K8448**—Junior Model. List, \$2.00. Net, each....**\$1.25**  
**8K8449**—Senior Model. List, \$3.00. Net, each....**\$1.65**

## Ball Bolt

Decorative bolt with crystal onyx ball for attaching link mount ornaments to caps.

**8K8340**—List, 75c.  
 Net, each .....**42c**



## Adapter Link

For fitting bolt mount ornaments to caps with nutometer or other obstructions. Unbreakable alloy, metal, nickel finish.  
**8K8450**—List, 50c.  
 Net, each .....**25c**





# Windshield Wipers Sell Fast in Fall and Winter

Mount one on right side of cars having vacuum type cleaner on the driver's side.

## Dyneto Electric Windshield Wiper

Operates from battery, using less than one ampere of current, about the same as tail light. Runs evenly regardless of speed of engine, works as well on hills as on the level. Lubrication is provided by wick oil feed, guaranteed for two years of constant service. Has ample power to drive one or two blades. Ship. wt., 2½ lbs. each.

**8K8774**—Standard Model (Six volt) for Ford 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.....\$3.33

**8K8775**—Same with tandem attachment. (Double Blade.) List, \$6.50, Each.....\$4.33

**8K8776**—Ford 1926-37 closed model, mounts on outside of windshield; clamps to windshield frame, unnecessary to drill holes. Single Blade. List, \$5.00, Each.....\$3.33

**8K8777**—Same with tandem attachment. (Double Blade.) List, \$6.50, Each.....\$4.33

**8K8778**—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

**8K8780**—Special Hudson model (6 volt). For Hudson, Essex, Chrysler 50 and Whipler closed cars. Single Blade. List price, \$5.00, Each.....\$3.33

**8K8781**—Same with tandem attachment. (Double Blade.) List, \$6.50, Each.....\$4.33

## Phinney-Walker Above Windshield Auto Clock



Empire Model. Rim wind, rim set. All nickel finish. Black dial with luminous figures. Diameter, 2½ in. Easily installed above windshield or in any other convenient location. Shipping wt., 8 oz.

**8K8428**—8-Day Model. List, \$17.50, Net, each.....\$10.15

**8K8429**—30-Hour Model. List, \$10.00, Net, each.....\$6.00

## Magnetic Above-Windshield Auto Clock

Serves all occupants of car. Dial, etched brass with white figures on black background. White hands. Automatically winds up by battery (6 to 8 volts) at short intervals. Uses practically no current and requires no attention. Diameter clock face, 2½ inches. Depth, 1½ inches. Fits above windshield by bracket shown. Gun metal or highly nickel-plated finish. Shipping wt., 1 lb. List, \$12.00.

**8K8430**—Gun metal finish. List, \$12.00, Net.....\$7.60

**8K8431**—Nickel-plated finish. List, \$12.00, Net.....\$7.60

## One-Day Clock

A practical clock at a very small cost. Guaranteed for one year. Furnished in either a black dial with radium numbers, easily read at night or in plain dial. Beautiful nickel-plated case, silver finished. Easy to install. Stem wind and set. Shipping wt., 7 oz. each.

**8K8495**—Plain dial. Each.....\$1.98  
Lots of six. Each.....\$1.95

**8K8496**—Radium dial. Each.....\$2.89  
Lots of six. Each.....\$2.85



## Champion Automatic Windshield Wiper

An exceptionally powerful and fast cleaner. Vacuum tank or manifold operated. New improved design so made as to prevent leakage. No complicated parts to get out of order. One-hole mount type, making installation extremely simple. Most new cars already bored for it. Plus all cars—open and closed. Lens wire arm with full sweep. Guaranteed to give perfect service. Complete with tubing and adapters. Shipping wt., 1½ lbs. each. List, \$3.50.

**8K8782**—For all cars except 1926-27 Fords. Net, each.....\$1.75

**8K8783**—Special for 1926-27 Fords. Net, each.....\$1.75



## 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., 1½ lbs. each.

**8K8784**—For all cars except 1926-27 Fords. Net, each.....\$1.29

**8K8785**—Special for 1926-27 Fords. Net, each.....\$1.29  
Lots of 6.....\$1.25



## Tandem Attachment for Automatic Wipers

The original. A real strong, high quality tandem attachment. Fits any automatic cleaner. Brass bearings. Baked black enamel finish. Arms are of adjustable type. Complete with all fittings. Shipping wt., each, ½ lb.

**8K8786**—For Standard Windshields. List, \$1.00, Net, each.....69c

**8K8787**—For "V. V." Type Windshields. Carton of 12.....\$8.04

## Squeegees

Black. Finest grade rubber. Regular length. Fast movers.

**8K8788**—List, 15c, Net, each.....8c  
Carton of 12.....\$4c

## Rubber Tubing

7½ feet long. The right length for windshield wipers. A good seller. Finest quality. Shipping wt., each, 1 lb.

**8K8790**—List, 25c, Net, each.....12c  
Carton of 12.....\$1.32

## 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.

**8K8789**—List, 40c, Net, each.....19c  
Carton of 12.....\$2.16

## Faith Whistling Motor Safety Signal

New Improved model. Advance notice of over-heating is given by red button which rises out of top when motor temperature approaches danger point. If no heed is given this signal, it whistles. This whistling is especially important at night when ordinary meter is not visible. Rust proof nickel silver finish. Shipping wts., 1¼ and 1½ lbs.

**8K8406**—Junior Size. List, \$2.00, Net, each.....\$0.94

**8K8407**—Senior (Deluxe) Size. List, \$3.00, Net, each.....\$1.35



## 100% Full Vision Finest Electric Cleaner Made

Guaranteed to give Perfect Service

## McConnell Double Electric Windshield Cleaner

New and very popular. A double cleaner, strong, rigid, always in order, that gives full vision. Electrically operated. Mounts outside—very simple to install. Adjuster arms. Fits any windshield. Blades stay out of way when not in use—cannot drop down to obstruct view. Uses less current than a headlamp bulb. Guaranteed to give perfect service. A fine quality device in every way. One type only, fits all closed cars with standard or V. V. sliding windshields. Shipping wt., 7 pounds.

**8K8791**—List, \$10.00, Net, each.....\$6.65  
Per dozen.....\$72.00



## 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 on instrument board, out of weather.

Theft-proof, drop-proof, out of way, operated by current from battery but uses practically no current. No working parts to get 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. Each

**8K8420**—For Ford and Chev. All black. List, \$4.50, \$3.00

**8K8421**—For Ford and Chev. Black, illuminated. List, \$6.00, 4.00

**8K8422**—For Ford and Chev. Nickel, illuminated. List, \$6.00, 4.00

**8K8423**—For Larger Cars. Nickel. List, \$7.50, 5.00

**8K8424**—For Larger Cars. Nickel, illuminated. List, \$8.50, 5.66

**8K8425**—For Dodge, Black. List, \$5.00, 3.33

**8K8426**—For Dodge, Nickel. List, \$5.00, 3.33

**8K8427**—For Dodge, Nickel, illuminated. List, \$6.00, 4.00

Specify if Pump or Siphon Type is wanted.

## Genuine Boyce Motometer

The genuine Boyce motometer now standard equipment on all leading makes of cars. The most dependable heat indicator on the market today.



**8K8416**—Midget... \$3.50, \$2.35

**8K8416**—Junior... 5.00, 3.33

**8K8417**—Universal... 7.50, 5.00

**8K8418**—Standard... 10.00, 6.67



Genuine  
Onyx Balls

Theft Proof



### Keystone De Luxe Radiator Cap

Screw cap to radiator neck; when locked will not screw off because of patented insert. This is a great improvement over the ordinary set screw type of locking. A special locking device is also provided for motorcar, giving positive protection against theft. Beautiful nickel-plated finish with Liberty emblem with blue inlay. Balls are of genuine Yavapai Onyx, of beautiful delicate tints of many colors. Balls are also locked on against theft.

Be sure to specify make and model of car.

<b>BK8411</b> —Junior, for Ford, Chevrolet, Pontiac and other small cars. Shipping wt., about 2 1/2 lbs. each.	
List, \$7.50. Net, each.....	\$5.00
Lots of 3, each.....	\$4.50
<b>BK8412</b> —Senior size for larger cars. List, \$8.50. Net, each.....	\$5.33
Lots of 3, each.....	\$5.10
Same cap except with smaller metal ball ends without Onyx Balls.	
<b>BK8413</b> —Junior. List, \$3.50. Net, each.....	\$2.35
<b>BK8414</b> —Senior. List, \$4.50. Net, each.....	\$3.00

Theft  
Proof



### Keystone Radiator Cap

A strikingly beautiful cap, the design inspired by the graceful sweep of the eagle's wings. A pleasing change from the conventional bar and ball type cap. Locking type—thrift proof. Specify car and model.

<b>BK8400</b> —Eagle, for Fords and Gray. Shipping wt., about 2 lbs. each.	
<b>BK8401</b> —Eagle for standard small car.	
List, \$4.00. Net, each.....	\$2.68
Lots of 12, each.....	\$2.40
<b>BK8402</b> —Eagle model for larger cars. List, \$6.00. Net, each.....	\$4.00
Lots of 12, each.....	\$3.60
Initial or emblem free. State initial or emblem wanted.	

### Aluminum Step Plate



Will never tarnish. Step plate has glossy or black molded rubber pad 8x11 1/2 inches in size. Shipping wt., 1 1/2 lbs. each.

<b>BK8629</b> —For all cars except Ford.	
Net, each.....	75c
Lots of 12, each.....	73c
<b>BK8630</b> —Special for Fords.	
Net, each.....	75c
Lots of 12, each.....	73c

### Genuine DURABRITE

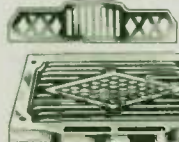
#### Step Plates

An alloy metal of aluminum and copper—a very durable, beautifully finished plate with non-slip rubber mat. Overall size, 9 3/4x10 1/2 inches. Shipping wt., 2 lbs.



**BK8632**—List, \$2.00. Net, each.....95c

#### Step and Kick Plates



Shipping wt., complete, 2 lbs.

<b>BK8639</b> —Step Plate only. List, \$1.25. Net, each.....	76c
<b>BK8640</b> —Kick Plate only. List, 60c. Net, each.....	37c

For All Cars

Theft Proof



### Keystone Locking Radiator Cap

Entirely new in design—very different and distinctive. Beautifully nickel plated. Water and steam tight joint. Has a patented screw within screw locking device—positive protection against theft. Cap fits back for radiator filling. Special slotted disc washer provided for locking on motorcar. Made for all cars. Shipping wt., 2 lbs. each. State make and model of car.

<b>BK8447</b> —List, \$2.50. Net, each.....	\$1.35
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### Super GEM Locking Radiator Cap

Theft Proof—Goddess or Greyhound Ornament

Made from a special alloyed metal, practically unbreakable and highly nickel plated. Rust proof—leak proof. A clever locking device permanently fastens it to stem, preventing theft. Superb in beauty, grace and finish. The ornament is integral part of cap, furnished with Goddess of Speed, Mermaid or Racing Greyhound. Shipping wt., 2 lbs. State make and model of car.

<b>BK8671</b> —Junior with Goddess for Fords, Chevrolet, Pontiac and other small cars.	
<b>BK8672</b> —Junior with Greyhound.	
<b>BK8673</b> —Junior with Mermaid.	
List, \$4.00. Net, each.....	\$2.25
<b>BK8674</b> —Senior with Goddess for larger cars, including Buick 1927.	
<b>BK8675</b> —Senior with Greyhound.	
<b>BK8676</b> —Senior with Mermaid.	
List, \$5.00. Net, each.....	\$2.75

### Courtesy



green on other. Genuine Durable aluminum alloy is used in making this fine plate. Rust-proof—beautiful finish. Very distinctive design with footboard, non-slip rubber mat. Size, 9x11 1/2 in. Shipping wt., pair, 5 lbs.

<b>BK8685</b> —Courtesy Red and Green lights. Pair, 10. \$5.50. Net.....	\$3.65
<b>BK8686</b> —Plain plates to match without lights. Pair, 10. \$3.50. Net.....	\$1.98

### FULTON Universal Accelerator Pedal



For all cars. Absorbs road bumps, enabling driver to feed gas evenly, with greater ease. Thick, live black rubber pad holds foot steady. Easy to install—only screw to foot board. Nickel plated. Shipping wt., 1 1/2 lbs.

<b>BK8690</b> —List, \$1.00. Net, each.....	60c
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### Radiator Cap Wings

An attractive wing ornament for any radiator. Made of cast aluminum highly polished. Fits between motorcar and cap. Comes in two sizes. Shipping wt., about 7 oz. each.

<b>BK8404</b> —10 inch. List, 75c. Net, each.....	35c
<b>BK8405</b> —14 inch. List, \$1.00. Net, each.....	48c

### Booster Emblems for Radiators

Beautifully enameled in brilliant vitreous colors which will not fade. 5 inches in diameter. Official, accurate designs. List, \$1.50.



Net, each.....	90c
<b>BK8760</b> —Shrine.	
<b>BK8761</b> —Blue Lodge.	
<b>BK8762</b> —Moose.	
<b>BK8763</b> —Eagles.	
<b>BK8764</b> —Modern Woodmen.	
<b>BK8765</b> —Rotary.	
<b>BK8766</b> —Kiwanis.	
<b>BK8767</b> —Lions.	
<b>BK8768</b> —W. O. W.	
<b>BK8769</b> —B. P. O. E.	
<b>BK8770</b> —Knights of Columbus.	



### Umbreakable Gear Shift Balls



Famous Durobal Knobs. Made of a composition similar to Pyrexin. Beautiful soft colored tints match interior of car. Prismatic gear shift knob made and the most sensible one. Won't break. Assorted Colors: Red, Green, Salmon, Onyx effect, Yellow, Rainbow, Shell. State make and model of car and color preference.

<b>BK8771</b> —List, \$1.00. Net, each.....	50c
Box of 12. Net.....	\$5.20

### Genuine Yavapai Onyx Gear Shift Balls



Fashioned from genuine Yavapai onyx, a semi-precious stone from the mountains of Arizona. Noted for its wealth of gorgeous colors and markings. Not affected by moisture and not easily broken. Diameter 1 1/2 inches. Fits any car. Shipping wt., 8 oz. each. State car and model.

<b>BK8444</b> —List, \$2.00. Net, each.....	95c
Box of 6.....	\$5.50
<b>BK8445</b> —List, 75c. Net, each.....	38c
Box of 6.....	\$2.10

### Gear Shift Extension

A beautiful nickel plated extension lever fitted with a 1 1/2 inch onyx ball. Its locking device prevents theft. Available for all popular makes of cars. State name and model of car.



<b>BK8466</b> —Complete, 5 1/2 in. size. Net.....	\$1.76
<b>BK8467</b> —Complete, 5 in. size. Net.....	\$1.79
Extension lever only, no ball included.	
<b>BK8468</b> —3 1/2 in. extension only. Net.....	66c
<b>BK8469</b> —5 in. extension only. Net.....	69c

### Accelerator Foot Pedal

Made of alloyed metal with correctly balanced, fast acting springs to insure perfect driving comfort. Screws to floor boards over present button and gives wide foot space. Very popular. Shipping wt., 1 1/2 lbs.

<b>BK8691</b> —List, 50c. Net, each.....	30c
Box of 6.....	\$1.70







### De Luxe Cigar Lighter

Beautifully finished in nickel and walnut. Lighter has long cord which winds on automatic reel entirely enclosed. Ash receptacle removable. Nichrome wiring heating element guaranteed one year. Ship. wt., 1 1/2 lbs. each. List, \$5.00.

8K8477—For 6-volt battery.  
Net .....\$2.79  
8K8478—For 12-volt battery.  
Net .....\$2.79

### Cigar Lighter

Has 60-inch cable on reel in case. Clamp to dash without drilling holes. Insert dash bulb instead of heating element to use as trouble lamp. Exposed parts brass, nickel plated. Current switched on and off automatically. Always reliable. Ship. wt., 1 1/2 lbs. each.

8K8474—Net, each .....\$1.10

### Dash Board Cigar Lighter



Reliable electric cigar lighter, nickel plate finish. Several feet of cord, terminals, clamp and screw, with instructions for installing. Ship. wt., 4 oz. each.

8K8476—Net, each.....39c

### For Matches, Ashes and Cigarettes



Compact and practical. Cup easily removed to empty ashes. Made of heavy brass, nickel plated. Ship. wt., 1/2 lb. each.

8K8472—Net, each .....72c  
In lots of 6, each.....67c

### Clamp On Smoke Kit for Matches and Ashes

No holes to drill, clamp on dash. Made of heavy brass, nickel plated finish. Ship. wt., 1/2 lb. each.

8K8470—Net, each .....52c

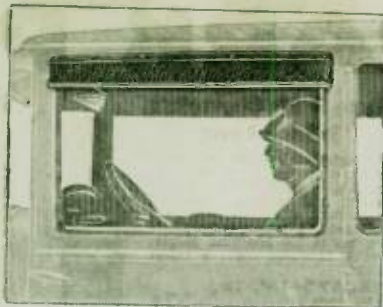
### Flower Vase



Complete with beautiful Rose spray. Vase is fine quality pressed glass in polished crystal or satin finish. Spray consists of one full blown and two rose buds with green leaves of silken cloth, hand made. Nickel plated clamp. List, \$1.00. Ship. wt., 2 lbs. each.

8K8442—Polished crystal.  
Net .....59c  
8K8443—Satin finish.  
Net .....59c

**Aztec Tires Have Proven Up "in a Day."**  
See Pages 122-126.



## The McKinnon VENTVISOR

Ventilates without draft, protects from sun, rain, dust—adds to appearance of any car. Indispensable for winter driving. Doesn't interfere with vision of occupants—yet keeps out glare of sun. Black art leather top, green underface. Base of sheet metal, turned edges to insure rigidity and prevent warping. Easily attached to aluminum, hollow steel or wood backed bodies. A size for every car. Average shipping wt., 3 lbs.

8K9837	Length, 21 in.	List, pair, \$2.80.
8K9838	Length, 22 in.	Net .....\$1.87
8K9839	Length, 24 in.	
8K9840	Length, 25 in.	
8K9841	Length, 26 in.	List,
8K9842	Length, 28 in.	pair, \$3.00.
8K9843	Length, 30 1/2 in.	Net .....\$1.98
8K9844	Length, 34 in.	
8K9845	Length, 35 in.	

### Hurd Tire Lock and Chain

Electrically welded and hardened links of chain resist thief. Chain covered with meat imitation leather welded tubing. Patented solid bronze lock of tumblers type withstands hammering, cutting and filing. Ship. wt., 2 lbs. each.

8K8457	36 - inch chain and lock.	List, \$1.65.
	Net .....\$1.04	
8K8458	42 - inch chain and lock.	List, \$1.75.
	Net .....\$1.11	



### Tire Locking Chain

Theft Proof. A case hardened chain with fabric leather covering for locking tire to carrier. Resists filing and sawing. Will not chafe and is easy to attach. 36 inches long. Ship. wt., 1 1/2 lbs. each.

8K8116—List price, 75c. Net price...24c  
Doz. lots, each.....22c

### Tire Carrier Lock



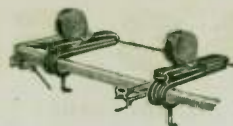
Bronze case and highly polished, brass bolts, black rust proof, steel ratchet shackle. Two nickel keys. A desirable lock for the user of the tire carriers now in use. Mighty hard to break. A real protection. Ship. wt., 8 oz. each.

8K8114—List price, \$1.00. Each.....57c  
Doz. lots, each.....54c

### Ilox Tire Lock

No tools are required to install this simple and perfect lock. It simply screws on like any nut, by hand, and a quarter turn on the key locks or unlocks it. There are sizes to fit any rim or disc wheel. When ordering specify make and model of car wanted for. Finished in black enamel. Ship. wt., 1 1/2 lbs. each.

8K8110—List, \$4.50. Net.....\$2.70



### Adkin's Luggage Carrier

Made of heavy steel, black japanned finish with strong clamps to fasten to running boards. Can be permanently attached, if desired. Heavy woven straps 1 1/2 in. wide. 72 in. long with positive grip, quick release lever buckle. Shipping wt., 2 1/2 lbs.

8K8441—List, \$3.00.  
Net, per pair.....\$2.00

### Gas Tank Locking Cap

Made of pure, virgin aluminum, highly polished. Closes tightly. Locks on permanently and cannot lose off. For cars as listed. (Similar to Packard cap.) Shipping wt., 6 oz.

8K8289	—Auburn.
8K8290	—Buick.
8K8291	—Chandler, Chevrolet to '24, Chrysler, Cleveland, Gardner, Moon, Oakland.
8K8292	—Dodge, Kugel.
8K8293	—Eaton, Hudson, Hupmobile, Jordan, Oldsmobile, Velie.
8K8294	—Ford, Stearns.
8K8295	—Chevrolet '25 and later, Franklin, Maxwell, Studebaker Stan.
8K8296	—Jewett, Packard, Studebaker Big 6 and Spec. 6.
8K8297	—Willis-Knight.

List, \$1.75. Net, each.....\$1.15

### Garage Door Holders



All steel, galvanized to prevent rust. Easily attached with screws. Adjustable to any height. Hold swinging doors open at any angle. Shipping wt., 3 lbs.

8K8298  
List, \$1.00. Net, per pair .....60c

### Emergency Gas Can

Every motorist should have one—low demand! Heavy sheet metal, soldered inside—right shape to take up smallest space. Holds gallon. Non-leakable, U-press-it cap and spouts. Red finish. Shipping wt., 1 1/2 lbs.

8K8299—List, \$1.00. Net, each...48c  
Carton of 12.....\$5.40



### Air Cleaners

for  
Essex,  
Pontiac,  
Chrysler  
"50"



Stops the grinding wear of road dust and grit on the engine. Experiments have shown that thousands of an inch of wear is saved in every 20,000 miles of travel when an efficient air cleaner is used. Every car should be so equipped—will save its cost a dozen times! Comes complete with brackets for fitting to the popular cars listed. Very simple to install.

8K8246	—For Buick.
8K8247	—For Pontiac.
8K8248	—For Chrysler "50."

List, \$5.00. Net, each.....\$3.35



# AC SPARK PLUGS

## AC 1075 for Fords

½ In. Regular

The better plug for Fords; has spring terminal clip; heavy body patented carbon-proof porcelain; extra long hexagon makes easy application of wrench; high temperature fins; drip electrode forming natural oil drain.

8K8572—List, 50c.  
Net, each .....36c  
Box of 100.....\$34.00



## Type B for Chevrolets

¾ Inch Long

Specially designed by Chevrolet engineers to meet the particular requirements of that motor and used as standard equipment since company was founded. A better design; better metal for sparking points; better insulator core; a better glaze.

8K8573—List, 75c.  
Net, each .....53c  
Box of 100.....\$50.00



## Two-piece Long Life

Type U

Recommended for bus, truck, marine and other heavy duty equipment, where ordinary plugs give limited mileage due to electrodes burning away.

8K8574—Type D. ¾ inch, long thread.  
8K8575—Type G. Reg. Metric.  
8K8576—Type I. ¾ inch, long body.  
Net, each .....65c  
Lots of 100 (ass't'd.), \$54.00



## Type A—¾ In. Reg.



Standard equipment for Cadillac, Star, Flint Six, and is recommended for Hupmobile, Nash, Jewett and all model Chryslers.

8K8560—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00

## Type B—¾ In. Long Shank



Standard equipment for Chevrolet, Oakland, Buick, up to 1924, Pontiac and Cleveland. Extra heavy body and insulator and high temperature fins.

8K8561—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00

## Type C. SAE Small Body—Long Shank



Standard equipment on Buick, Nash, and Spec. Six, Olds, Six, 1918-'24, and Oakland 1918-'26. Heavy body insulator, high temperature fins and heavy electrode.

8K8563—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00

## Type D ¾ inch Long Thread Dodge Special



Specially constructed and factory equipment on Dodge, Chandler. Recommended for trucks, especially Graham Bros. Thin end pins prevent carbon accumulation.

8K8564—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00

## Type E. SAE Reg.

Factory equipment on Marmon, Vellie, Ohio, 1927 and is recommended for Studebaker to 1926 inclusive. Heavy insulator and electrodes—high temperature fins.

8K8562—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00



## Type Q. ½ in. Long

A special plug, designed for KEO and OVERLAND "4." Adaptable also to stationary and marine engines. Heavy over-size electrodes to stand heavy duty service. The increased popularity of these cars make this an increasingly popular number.

8K8565—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00



## Type J ¾ in. Reg. Chrysler Special

Developed especially for and is used as original factory equipment on Chrysler cars. A finely made plug for fast, hot going. Special characteristics make it the ideal plug for the Chrysler L-head engines.

8K8566—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00



## Type W—Long Metric

This is the long metric type of plug for Hudson and Essex, 1926-'27. The increased sale and great number of these cars on the street creates a natural demand for replacement plugs.

8K8567—List, 75c. Net, each .....53c  
Box of 100, ass't'd., \$50.00



## Sure-Shot Spark Plugs

29¢ Each



Built along the most approved and time tried lines. Give long dependable service. Sturdy white porcelain insulation, each one tested for mechanical strength, extremely hard and smooth, will not break or crack from heat or vibration.

Two piece construction permits taking plug apart for cleaning. These plugs will perform as well as the most expensive makes. Try a dozen and be convinced of their sales possibilities and the big profits you can make.

8K8583—¾ inch regular.  
8K8591—¾ inch long.  
8K8592—¾ inch.  
8K8593—¾ inch long.  
Each .....29c  
Dozen.....\$3.24 100.....\$25.00



## Spark Intensifier

This device with its adjustable gap makes spark plugs fire which are missing on account of soot or other trouble, at all times.

8K8582—List price, 25c.  
Each .....17c  
Lots of 24, each.....16c

# CHAMPION SPARK PLUGS

## No. 1 ¾ in. Standard

Recommended for the following cars: Auburn, Gardner, Marmon (little), Reo Six (new), Stearns-Knight, Studebaker Standard Six, Willys-Knight Light Six.

8K8578—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## No. 2 ¾ in. Reg.

Recommended for the following cars: Cadillac, Chrysler, Diana, Hup. 4 & 6, Jewett, Marmon, Lincoln, Paige, Overland 6, Whipplet, Packard (to '26), Pierce-Arrow, Willys-Knight Great 6.

8K8580—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## No. 3 ¾ in. Long Reg.

Recommended for the following cars: Chevrolet, Dodge, Ajax, Hupmobile Six, Oakland 1924, Pontiac, Star, Studebaker Big Six, Frisone Six, Packard from 1926.

8K8581—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## No. 4 ¾ in. Long Body Reg.

A ¾ inch, long body, regular plug recommended for the following cars: Jordan, Marmon, Maxwell, Nash (light six), Peerless, Star Six, Willys-Knight Four, Chandler (up to 1923).

8K8568—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## No. 6 ¾ in. Long Spec.

A ¾ inch, long, special plug recommended for the following cars: Buick, Durant Four, Gray, Nash (Big and Special Six), Oakland (up to 1924), Oldsmobile Four and Six, Rickenbacker, Velle (up to 1924).

8K8569—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## No. 7 ¾ in. Long Stand.

A ¾ inch, long, standard plug recommended for Overland Four and Reo. This plug may also be used on most stationary and marine engines. Sturdily constructed for heavy duty service with heavy over-size electrodes.

No. 4956  
8K8570—List, 75c. Net, each .....53c  
Box of 100.....\$50.00

## X Long Special for Fords (Illustrated)

Recommended the world over as the most efficient spark plug for the Ford car, truck and Fordson tractor. Probably the most popular plug sold for this use.

8K8579—List, 60c. Net, each .....45c  
Box of 100, \$41.00



## No. 8-Metric Stan.

Especially for Deussen, Berge, Rolls Royce and Stutz S. A big burly plug of the finest quality.

8K8571—List, 75c. Net, each .....53c  
Box of 100, \$50.00

## No. 9 Metric Long

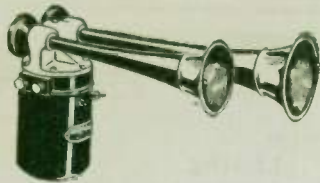
A special plug for Hudson (since 1921), Essex and Willys St. Claire. A very popular number because of the popularity of these fine cars.

8K8577—List, 75c. Net, each .....53c  
Box of 100.....\$50.00



# SPARTON Nationally Advertised Warning Signals

Nationally Advertised. Special literature will be furnished on request of Dealers who signify their intention to push the Sparton line.



## The Sparton Chime A National Sensation!

"The Horn Beautiful." Creates a sensation where heard. Sounds two marvelously sharp, harmonious notes simultaneously. Does not sizzle, but charms and chimes your way through traffic. Exceptionally large and reliable motor sealed in strong metal case. Beautifully finished in black with gleaming nickel-plated bell ends. Can be mounted outside or under hood. Length, 16 inches; height, 10 inches. The true aristocrat of all motor car signals. For all 6-8 or 12-volt systems. Ship. wt., 11 lbs. each.

SK9406—List, \$22.50.  
Net, each ..... \$14.63  
Lots of 5 ..... \$13.50



## S.O.S. DeLuxe Multi-tone

The most remarkable and powerful auto horn ever built. Of the SOS magnetic type with super strength and oversize diaphragm, producing a mighty roar that dominates the road. Furnished with special adjustable supporting bracket. Largest diameter, 6 inches. Length, 17 inches. Ship. wt., 8 lbs.

SK9416—List, \$17.50.  
Net, each ..... \$11.98



## B. C. T. Magnetic

The new magnetic high frequency signal that has the harmonious note of a steamboat whistle with the instant response of a high powered rifle. A genuine quality built Sparton that can be depended on for unfailing performance and years of service. Length, 11½ inches. Diaphragm, 4½ inches. Shipping wt., 3 lbs.

SK9404—List, \$6.50.  
Net, each ..... \$3.98

## The Harford



A traffic splitting signal of remarkable volume and carrying power. Finished in black enamel and fitted with supporting bracket. Length, 11½ inches. Largest diameter, 4½ inches. Wt., 2½ lbs.

SK9403—List, \$3.75.  
Net, each ..... \$2.35



## The New A. T.

A superbly finished instrument of remarkable signal power and long dependable life. A big oversize powerful signal at a price heretofore undreamed of. Unquestionably the greatest value in the motor-horn field. Furnished with adjustable pressed steel supporting bracket. Largest diameter, 5 inches. Length, 12½ inches. Weight, 8 lbs.

SK9409—List, \$6.00.  
Net, each ..... \$3.70

# NORTHEASTER a Real Magnetic Horn



Model No. "75"

It Gets You By!

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, high reputation and unmatched price value make it America's most popular magnetic motor car horn. Black enameled finish. 5¼-inch diaphragm. Ship. wt., 5 lbs. each.

Northeaster No. 75

SK9422—6-volt.  
SK9423—12-volt.  
List, \$7.50. Net, each ..... \$4.89

Northeaster No. 50

Same except smaller. Moderate size; 4¼-inch diaphragm. Ship. wt., 4½ lbs. each.

SK9424—6-volt.  
SK9425—12-volt.  
List, \$5.00. Net, each ..... \$3.25

## Schwarze Horn Button



Center steering wheel push button for all Fords, Essex and older Dodges. Bakelite top, mahogany finish. Sure contact. Shipping wt., 6 oz.

SK9400—List, 75c.  
Net, each ..... 45c

## The Sergeant

An ideal horn for motorcycles, taxicabs and trucks. Short projector. Snappy, distinctive tone. Real Northeaster quality and nationally advertised.

SK9402—List, \$5.00.  
Net, each ..... \$3.25



## Genuine FULTON Aermore Exhaust Horns

Four tone, pipe organ effect, penetrating but agreeable. For all cars. Quality and tone are built into the horn. Easily and quickly attached to the exhaust pipe. Special valve operates from driver's position. Ship. wt., about 6½ lbs. each.



SK9413—Special for Fords, 13 in. long. Net ..... \$4.67  
SK9414—For small size cars, length 15 in. Net ..... \$6.67  
SK9415—For medium size cars, length 17 in. Net ..... \$7.98

Give make and model of car and diameter of exhaust pipe when ordering.

## Exhaust Whistle



An efficient warning signal that can be heard in traffic noises, solidly built of bronze and aluminum polished. Ship. wt., about 1 lb. each.

SK9410—For ½ in. complete. List ..... \$1.10  
SK9411—¾ in. adapters. Net price ..... .25  
SK9412—1 in. adapters. Net price ..... .25

## SCHWARZE Motor Horns



## 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., 3½ lbs. each.

SK9401—List, \$3.50.  
Net, each ..... \$1.89



## Magnetic Type

A strong, lasting, adjustable horn. Its B-E-E-P-B-E-E-P musical note is unique, far-reaching, but always mellow and pleasant. Retail for \$6.50. Ship. wt., 3½ lbs. each.

SK9405—Each ..... \$3.98



## The Century, Beep-Beep Type

One of the most pleasing toned horns ever made and certainly the most for the money. Comparable with horns costing twice its price. Push this number! Magnetic vibrator type. High lustre black finish. Nothing to set out of order. Easy adjustment. Length, 14 inches. Shipping wt., each, 3½ lbs.

SK9408—List, \$4.00.  
Special net price ..... \$2.48



## The Sportone

Beautiful in design. Loud, distinct, penetrating tone. Metal parts highly nickel-plated and polished. Fine heavy brass protector. Can be mounted on windshield, running board, fender or inside hood. Each horn supplied with two universal brackets. Ship. wt., 4½ lbs. each.

SK9407—List price, \$7.00.  
Net price ..... \$4.78





# Spring Steel Bumpers

"Most Beautiful Bumpers in America!"

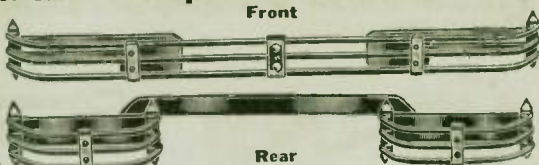
What has been needed—a really strong bumper of less weight and more attractive in appearance. It's the quality of the steel that counts in bumper construction. Harvey bumpers are made from special oil tempered spring steel. They absorb the shock of impact and instantly spring back to original position. The ingenious design provides greater bumping surface. All front bars reinforced by parallel spring steel back bars.

Bars have permanent black enamel finish. Trim is of nickel, rust-proof steel. No nickel finish to chip and rust. Have that built-in appearance, so popular now.

These bumpers really protect, because they are resilient. Become popular for use on trucks in Chicago—a great testimonial to their strength. They are approved by the Underwriters' Laboratories.

## For Popular Light Cars

This model constructed with 1/2-inch bars is made for the following popular light weight cars: Chevrolet, '26 and '27 models; Ford, '26 and '27, all models; Overland, '25-'26, model 91 and '27 Whippet; Star, '26-'27 all 4 and 6 cylinder models. Come complete



with special brackets to fit each model. Be sure to state make, model and year of car.

## Listing

8K9889—Set of Front and Rear Fender Guards (Bumpers) for all cars listed. List, \$25.00. Net, \$13.50  
8K9890—Set of Front Bar and Full Bar Rear Bumpers for Chevrolet 1926 and 1927 Models. List, \$25.00. Net, \$13.50  
8K9891—Set of Front Bumper and Full Bar Rear Bumpers for Fords 1921 to 1925. State year and model. List, \$25.00. Net, \$13.50

**Guaranteed  
2 Years**



# Pioneer Crack Proof Radiators

**Guaranteed 2 Years Against Defective Materials and Workmanship or from Damage Caused by Freezing**

We believe these to be the finest replacement radiators made. They have been on the market for three years and have stood the most exacting tests required of first quality radiators.

The core is 2 1/8 inches in thickness made of brass and the tanks of one piece stamping, heavy gauge brass. Nothing but 50/50 solder for dipping and assembling is used in constructing this radiator. The heavy 14-gauge steel tin-coated brackets, stamped of one piece with machine riveted corner braces can assure its sturdy construction and form a protection against vibration.

Pioneer radiators are assembled by skilled mechanics and are carefully tested and inspected before shipping.

8K9892	Ford, 1917-'23, less shell. Price, each.....	\$ 7.90
8K9893	Ford, 1917-'23, with shell. Price, each.....	8.70
8K9894	Ford, 1924-'25, less shell. Price, each.....	8.45
8K9895	Ford, 1924-'26, with shell. Price, each.....	9.36
8K9896	Chevrolet Superior, less shell. Price, each.....	10.95
8K9897	Chevrolet Superior, with shell. Price, each.....	14.50
8K9898	Chevrolet, Model K, 1925, less shell. Price, each.....	10.95
8K9899	Chevrolet, Model V, 1926, less shell. Price, each.....	11.70
8K9900	Chevrolet A & A, 1927, less shell. Price, each.....	14.29
8K9901	Dodge, 1917-'22, less shell. Price, each.....	17.59
8K9902	Dodge, 1922, late, same as 1923, less shell. Price, each.....	14.29
8K9903	Dodge, 1923, less shell. Price, each.....	14.29
8K9904	Dodge, 1924-'25, less shell. Price, each.....	14.65
8K9905	Maxwell, 1920-'21, less shell. Price, each.....	18.35
8K9906	Maxwell, 1920-'21, with shell. Price, each.....	15.70
8K9907	Maxwell, 1922-'24, less shell. Price, each.....	19.65
8K9908	Maxwell, 1922-'24, with shell. Price, each.....	15.70
8K9909	Maxwell, 1925, less shell. Price, each.....	15.70
8K9910	Maxwell, 1925, with shell. Price, each.....	19.65

## Alcohol and Glycerine Non-Freezing Solution



Automotive engineers will tell you that Alcohol and Glycerine are the best protectors for your auto radiator when the thermometer slides down to the freezing point. Their contentions are based on the fact that the slower evaporation of an Alcohol and Glycerine Solution will protect the radiator from freezing for a longer period of time than Plain Denatured Alcohol.

Glycerine, while it does not evaporate, is not an ideal solution because the cost of filling a radiator with Glycerine is too expensive and then there is the danger of slowing down the engine, rotted hose connections and gaskets.

Alcohol and Glycerine, when combined in the proper proportions, make a Non-Freeze Solution that gives real winter protection.

Every winter sees more and more motorists using Bayer's Alcohol and Glycerine Non-Freeze Solution in their radiators. They have found better protection and safety in using Bayer's.

Comes in gallon cans ready for use. Shipping wt., 10 lbs.  
8K9789—Gallon can. List, \$2.00. Net, each.....94c



## "X" Liquid

**Stops Radiator Leaks Quick**

The sure quick way to stop leaks and repair radiators, cracked cylinders, cracked waterjackets. Does the work without solder, 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.

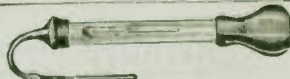
Nationally advertised and generally regarded the best stop leak made.

8K8891	Small size can. List, 75c.	
Net, each	.....	50c
8K8892	Standard cans. List, \$1.25.	
Net, each	.....	83c
8K8893	Dealers' assortment—	
12 small cans	.....\$0.75	\$ 9.00
6 standard cans	.....1.25	7.50
1 standard can	.....1.25	1.25
Retailers for.....		\$17.75
Your net cost.....		\$9.90
Your profit.....		7.85

## Fitzall Hose Clamps



Made of one piece cold rolled flat electro-galvanized wire stock. Heavy gauge to hold strong pressure. Smooth edges can't cut hose. Jr., 1/2 inch; Sr., 3/4 inch wide. Shipping wt. 8 oz.  
8K8888—Junior fits hose 3/4 in. to 1 1/4 in. O. D. Net, each.....1c  
Box of 10.....35c  
8K8889—Senior fits hose 1 in. to 2 1/2 in. O. D. Net, each.....5c  
Box of 10.....45c



## Freeze Meter

For testing alcohol content of radiator. Tells exactly at what temperature radiator will freeze. A cold weather necessity. Works with any type anti-freeze solution. Shipping wt., 1 1/2 lbs.  
8K8894—List, 75c. Net, each.....45c

## Radiator Hose



Made of the finest materials to withstand heat and oil. We believe this the finest 3-Ply hose made. 3 foot lengths only. Net Price  
8K8880—1 in. 3 ft. length.....\$0.48  
8K8881—1 1/4 in. 3 ft. length.....54  
8K8882—1 1/2 in. 3 ft. length.....59  
8K8883—1 3/4 in. 3 ft. length.....64  
8K8884—2 in. 3 ft. length.....69  
(Ford Inlet)  
8K8885—2 in. 3 ft. length.....78  
(Ford Outlet)  
8K8886—2 1/4 in. 3 ft. length.....89  
8K8887—2 1/2 in. 3 ft. length.....1.09

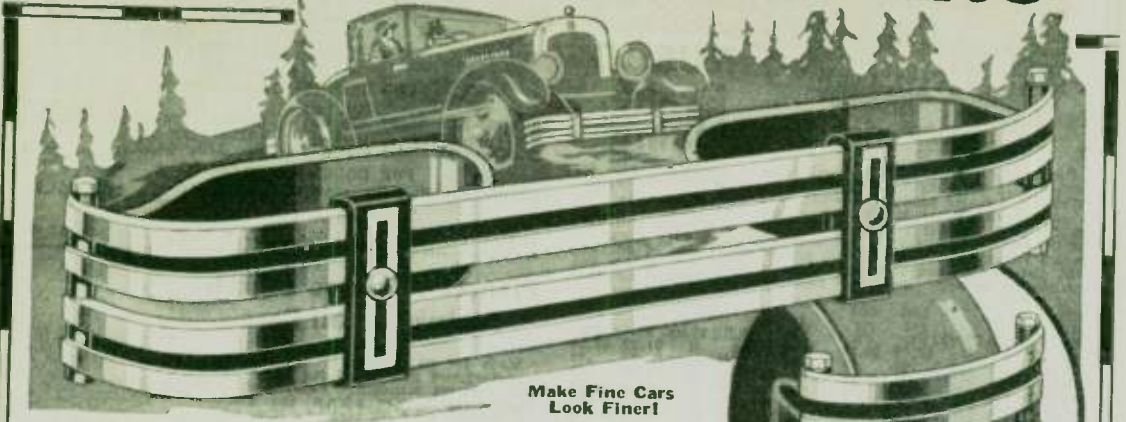
## Noc-Out Hose Clamp



One size fits all inlets and outlets, all cars. Will not cut hose and easily adjusted. The finest hose clamp made. Shipping wt., 8 oz.  
8K8890—Net, each.....6c  
Box of 10.....55c



# PIONEER BUMPERS



Make Fine Cars  
Look Finer!

## The Pioneer De Luxe

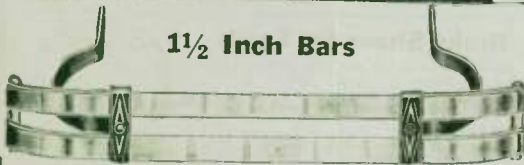
The kind you see on America's finest cars! Yet priced within the reach of all! Made of the finest grade carbon, oil-tempered, heat-treated spring steel with non-rusting, brilliant nickel finish and black enameled stripe. Bars 1 1/4 inches wide. Fittings for each car are malleable cast iron, constructed to withstand the hardest shocks. Made for us by one of the best known makers of fine bumpers. We will replace any bar that peels or any fitting that breaks!

Furnished for following popular cars: Auburn, Buick, Cadillac, Chandler, Chrysler, Cleveland, Diana, Dodge, Essex, Erskine, Flint, Hudson, Hupmobile 6, Jewett, Kissel, Locomobile, Moon, Nash, Oakland 6, Oldsmobile 6, Overland

Whippet 6, Paige, Peerless, Pontiac, Reo, Rickenbacker, Studebaker, Willys-Knight. Be sure to state make, year and model of car when ordering.

8K9800—Front Bumper, with fittings. List, \$15.00. Net, each ..... **\$9.45**  
8K9801—Rear Bumperets with fittings. List, \$15.00. Net, pair, \$9.45  
8K9802—Combination Front Bumper and pair Rear Bumperets, complete with fittings. List, \$30.00. Net, ..... \$17.95

1 1/2 Inch Bars



## Pioneer Master Bumpers

An unmatched value. Made by one of the largest makers of fine bumpers. Sturdily constructed with heavily nickel plated 1 1/2 in. bars of tough oil-treated steel.

The spring steel attachment bars are built to stand the severest shocks. A complete set, both front bumper and pair of rear bumperets come packed complete with all fittings ready to install.

You can double your money on these fine bumpers.

8K9803—For Fords, 1926-'27.  
8K9804—Chevrolet, 1926-'27.  
8K9805—Whippet 4, 1926-'27.  
8K9806—Star 4 and 6, 1926-'27.  
8K9807—Pontiac, 1926-'27.  
8K9808—Chrysler "50," 1926-'27.  
8K9809—Essex 6, 1927.

Front and Rear. List, \$19.50. Net per set.

**\$9.67**

2 1/3 or 3 Inch



## Pioneer Tubular

In Colors to Match Car Finish

New! Beautiful! and with the improved double slotted bar construction, one of the most efficient bumpers made. The tubular bar is of specially drawn steel tubing that by test requires 150,000 pound pressure to even bend it. The 2-inch oil-tempered back bar, together with the curved cross bar absorbs all shocks and springs instantly back to position. Brilliant, lasting black enamel finish, nickeled center strap and aluminum end caps give an aristocratic appearance to this fine bumper. Furnished for all cars. Large car bumpers have 3 inch diameter front bar with 2 1/2 inch rear guards. Smaller car size has 2 1/2 inch front bar and 2 1/2 inch rear guards. Special fittings for each car insure perfect fit. Specify car make and model.

8K9810—Front Bumper for large cars. List, \$19.50. Net, each ..... **\$9.67**  
8K9811—Rear Guards for large cars. List, \$19.75. Net, pair ..... **\$9.98**  
In special colors, extra \$2.00 each.

Car and Model	Front Bumper	Rear Guards
Chevrolet, 1926-'27	8K9812	8K9826
Whippet 6, 1926-'27	8K9813	8K9827
Chrysler 50, 1926-'27	8K9814	8K9828
Pontiac, 1926-'27	8K9815	8K9829
Star 4 & 6, 1926-'27	8K9816	8K9878
Dodge 4, 1926-'27	8K9817	8K9879
Essex, 1926-'27	8K9818	8K9880
Oldsmobile, 1926-'27	8K9819	8K9881
Nash Lt. 6, 1926-'27	8K9825	8K9882
Front bumpers, List \$16.50, net, each	.....	\$8.49
Rear Guards, List \$17.50, net, pair	.....	8.69

In colors, Extra Each, \$2.00





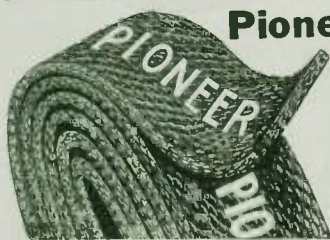
## RUSCO Brake Lining

Nationally advertised and favorably known everywhere cars are driven. It is scientifically constructed of long fibre Canadian Chrysotile Asbestos solidly interwoven with fine brass wire. The close compact weave is obtained by patented looms of special construction insuring a solid body superior in strength and wear resistance. Thoroughly impregnated with a special compound which renders it absolutely proof against the action of oil, water, dirt, and friction heat—yet leaves the lining soft, pliable and responsive to every demand. Especially satisfactory for four wheel brakes.

Art. No.	Width	Thick.	List per Ft.	Net per Ft.	Art. No.	Width	Thick.	List per Ft.	Net per Ft.
8K9750	1 1/4	5/16	\$0.55	\$0.25	8K9759	2 1/4	5/16	\$1.20	\$0.54
8K9751	1 1/2	5/16	.60	.27	8K9760	2 1/2	5/16	.95	.43
8K9752	1 3/4	5/16	.65	.30	8K9761	2 3/4	5/16	1.00	.45
8K9753	1 7/8	5/16	.70	.31	8K9762	3 1/4	5/16	1.30	.58
8K9754	2	5/16	.75	.33	8K9763	3 1/2	5/16	1.05	.48
8K9755	2 1/8	5/16	.80	.36	8K9764	3 3/4	5/16	1.10	.50
8K9756	2 1/4	5/16	1.00	.45	8K9765	4	5/16	1.50	.67
8K9757	2 1/2	5/16	.85	.38	8K9766	3 1/8	5/16	1.30	.58
8K9758	2 3/8	5/16	.90	.40	8K9767	3 1/4	5/16	1.75	.76

### For Light Cars—Special

8K9768—1 1/4 x 1/4. List, 50c. Net, per foot..... 23c  
FREE—with each order for 300 feet or more of Rusco Brake Lining, a fine display cabinet to hold 7 rolls of lining will be sent gratis, if requested.



## Pioneer Brake Lining

This wonderful lining is made for us by one of the best known makers of the finest brake linings. None better is made. It is firmly woven of carefully selected asbestos fibre with fine brass wire interwoven into each strand of fibers. Firm and solid. It is specially treated for protection against oil, dirt, grit, and water. It will last as long as any lining made and can be offered at most attractive prices.

strand of fibers. Firm and solid. It is specially treated for protection against oil, dirt, grit, and water. It will last as long as any lining made and can be offered at most attractive prices.

Thickness	5/32 In.	1/16 In.	1/4 In.
1 1/4"	No. 8K9769 12c Foot	No. 8K9776 13c Foot	Guaranteed for Service
1 1/2"	No. 8K9770 13c Foot	No. 8K9777 15c Foot	No. 8K9783 18c Foot
1 3/4"	No. 8K9771 16c Foot	No. 8K9778 17c Foot	No. 8K9784 20c Foot
2"	No. 8K9772 17c Foot	No. 8K9779 18c Foot	No. 8K9785 23c Foot
2 1/4"	No. 8K9773 19c Foot	No. 8K9780 20c Foot	No. 8K9786 25c Foot
2 1/2"	No. 8K9774 20c Foot	No. 8K9781 21c Foot	No. 8K9787 28c Foot
2 3/4"	No. 8K9775 22c Foot	No. 8K9782 23c Foot	No. 8K9788 30c Foot

### 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.	No.	No.	No.	No.	No.
8K9190 5/16"	8K9191 3/8"	8K9192 7/16"	8K9193 1/2"	8K9195 5/8"	8K9196 3/4"
11c BOX	12c BOX	13c BOX	14c BOX	16c BOX	17c BOX

### "CR&S" Riveting Pliers

This device furnishes the simplest, quickest and most efficient means for brake band and clutch riveting. Sets either split or tubular rivets in all sizes up to and including 1/16 inch. Accommodates any make of car. Shipping wt., 1 1/2 lbs.

8K9197—List, \$2.50, Net each.....\$1.67



## Genuine Duro Brake Bands

For Chevrolet, Dodge and Pontiac

The feature of these fine bands is that all adjustments are outside and easily accessible. Designed for heavy duty and perfectly formed to fit drum. Baked Japan finish insures metal parts against weather and rust. Lined with a fine quality lasting brake band lining. List, \$3.75 per pair.

### FOR CHEVROLETS AS LISTED

	Net, pair		Net, pair
8K8605—1923 Model 490	\$2.45	8K8607—1925 Model K	\$1.90
1923 Superior	2.45	8K8608—1926-27, Superior	2.70
8K8606—1921 Model F	2.45	V. List, \$4.50	2.70

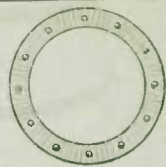
### FOR DODGE BROTHERS CARS

8K8609—For all 4 cyl. models. List, \$8.00. Net, pair....\$4.50

### FOR PONTIAC

8K8610—For all models, 1926-27. List, \$4.50. Net, pair....\$2.85

## Pioneer Asbestos Clutch Facings for all Cars



Made for us by one of the leading manufacturers and priced far below the usual market standard. Firm, solid weave, far heavier than the average facing. Only the best long fiber asbestos is used, specially treated to resist oil, dirt, water, heat, and friction wear. Pliable enough to engage smoothly and hold firmly. Accurately drilled and countersunk. Specify size, make of clutch or make, model and year of car.

No.	Size of Discs	Each	No.	Size of Discs	Each
8K9210	6-8 1/2 x 6 1/2	23c	8K9220	8-10 1/2 x 6 1/2	32c
8K9211	7-9 1/2 x 6 1/2	25c	8K9221	9-11 1/2 x 6 1/2	33c
8K9212	7-9 1/2 x 6 1/2	27c	8K9222	9-11 1/2 x 6 1/2	38c
8K9213	7-9 1/2 x 6 1/2	31c	8K9223	9-11 1/2 x 6 1/2	42c
8K9214	7-9 1/2 x 6 1/2	32c	8K9224	9-11 1/2 x 6 1/2	42c
8K9215	8-10 1/2 x 6 1/2	27c	8K9225	10-12 1/2 x 6 1/2	40c
8K9216	8-10 1/2 x 6 1/2	28c	8K9226	10-12 1/2 x 6 1/2	40c
8K9217	8-10 1/2 x 6 1/2	35c	8K9227	11-13 1/2 x 6 1/2	55c
8K9218	8-10 1/2 x 6 1/2	27c	8K9228	12-14 1/2 x 6 1/2	53c
8K9219	8-10 1/2 x 6 1/2	32c	8K9229	12-14 1/2 x 6 1/2	75c

## Brake Equipment for Fords

### Quick Detachable Transmission Bands



For Ford Cars. Made of heavy spring steel and lined with the very best grade of brake lining.

8K9161—Models up to 1925. Set of three. Net.....\$1.49  
8K9162—Model 1926-27. Set of three. Net.....\$1.95

## Brake Shoes for Fords

Much better than the old style one-piece "shoe." Made of finest selected new gray iron. Thoroughly surfaced ground and drilled. Replaces part No. 2566.

8K9185—Set of two. Net.....36c  
Lots of six sets. Net.....34c



## Scandinavia Transmission Lining

The accepted lining for Ford cars for many years. Made from the very finest selected long staple southern cotton. 8K9114—List price, \$2.00. Net price.....\$1.29

## Pioneer Transmission Lining

Brown-treated. Closely woven and will give exceptional service. Selected yarns only of great tensile strength are used. Come in attractive counter boxes.

8K9147—For Fords up to 1926. Per set, net.....27c  
8K9148—For 1926-27 Fords. Per set, net.....30c



## Texford Transmission Lining



Finest linings made. Finest long fiber material, treated with special wax oil which gives smooth, positive action and exceptional wear. In attractive round box, complete with rivets. Shipping wt., 1 lb.

8K9143—For Fords up to 1926. List, \$1.75. Net per set.....\$0.89  
8K9144—For 1926-27 Fords. List, \$2.00. Net per set.....1.04



# HASTINGS PISTON RINGS

Offered in conformity with our policy of selecting for our dealers only lines of known value and established reputation. There are scores of brands of good piston rings on the market, but we believe Hastings rank among the first five of the best. They have long enjoyed a high reputation. They are nationally advertised. Hastings Rings are individually cast and carefully machined on the most modern and exacting machines made. They are always concentric, perfectly round, uniform in tension with turned finish to provide quick seating. Lot Prices shown cover any assortment of the three styles listed. Make up order for 100 to get bigger discount.

**Rigidly Tested for Roundness, Uniform Tension and Size**



## Dubl-Test Power Rings

We call these compression rings "Power Rings" simply because that is what they add to a motor—power. Perfectly circular, uniform in tension and with a turned edge for quick seating, and absolutely accurate in size. We guarantee that every Hastings Ring will meet these standards, because every one of them is given a rigid test on these points. Stop cut. Each joint twice milled with medium short points to form perfect round when closed in. Play safe with Hastings! Average shipping wt., each, 6 oz.

**8K9323**—Sizes 2 1/2 to 4 1/2 inches inclusive, List, 25c, Net, each.....15c  
In lots of 25 to 100 rings, 12 1/2c each  
In lots of 100 or more.....10c each  
**8K9324**—Sizes 4 1/2 to 5 inches inclusive, List, 30c, Net, each.....18c  
In lots of 25 to 100 rings, 15c each  
In lots of 100 or more.....13 1/2c each  
Supplied in all standard sizes or following oversizes: .005; .010; .015; .025. State Size.



## 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. These rings do two things, therefore, regulate lubrication to the right basis and save oil by controlling the surplus. They stop oil pumping.

**8K9325**—Sizes 2 1/2 to 4 1/2 inches inclusive, List, 35c, Net, each.....21c  
In lots of 25-100 rings, each.....17 1/2c  
In lots of 100 or more, each.....15 1/2c  
Supplied in all standard sizes or following oversizes: .005; .010; .015; .025. State Size.

## Hastings Sets for Ford and Chevrolet



These sets consist of 4 oil circulating and 8 Dubl-Test Power Rings. Specially packaged and specially priced. This makes the ideal merchandising plan for selling rings for these two popular cars. Furnished in standard sizes and the following oversizes: .005, .010, .015, and .025. State exact size wanted. Shipping wt. 1 1/2 lbs.  
**8K9370**—For Fords, List, \$4.00, Net.....\$1.85  
**8K9371**—For Chevrolets, List, \$4.00, Net.....\$1.85  
Same, except with 4 Hastings Oil Rings and 8 Dubl-Test Power Rings.  
**8K9372**—For Fords, List, \$3.40, Net.....\$1.65  
**8K9373**—For Chevrolets, List, \$3.40, Net.....\$1.65



## Oil Circulating Rings

Hastings Oil Circulating Piston Rings work on the commonsense principle of providing an outlet for excessive oil and still retain full wearing surface of ring. They circulate the oil back to the crankcase eliminating smoking, excessive carbon, fouled spark plugs, etc.

When installed, holes are drilled at a 45° angle in the lower side of ring groove of piston. The lower side of the Hastings Oil Circulating Ring has a knife edge, as shown by illustration. On down stroke of piston excess oil is gathered up and circulated back to the crankcase through diagonal holes provided in the ring and piston. One ring on the third or last groove of each piston does the work. These rings are guaranteed to reduce oil consumption to a minimum and give complete satisfaction. This guarantee covers any motor where the Hastings Oil Circulating Piston Ring can come in contact with the cylinder wall. Average shipping wt., 6 oz.

**8K9326**—Sizes 2 1/2 to 4 1/2 inches inclusive, List, 50c, Net, each.....30c  
In lots of 25-100 rings, Net, each.....25c  
In lots of 100 or more, Net, each.....22 1/2c  
**8K9327**—Sizes 4 1/2 to 5 inches inclusive, List, 60c, Net, each.....36c  
In lots of 25-100, Net, each.....30c  
In lots of 100 or more, Net, each.....27c



## Genuine Apex Innerings (Inside Piston Rings)

The original innering and still the best! Go behind rings. Help renew worn motors. Guaranteed by manufacturer to stop oil pumping and piston slap. Finest made—not to be confused with cheap imitation. Sizes range from 2 1/2 to 5 inches diameter and 1/4, 3/8 and 1/2 inch width. Order same size as piston ring. State diameter.

**8K9328**—1/4 inch, Net, each.....10c  
**8K9329**—3/8 inch, Net, each.....10c  
**8K9330**—1/2 inch, Net, each.....10c

## Ring-Flex Inner Rings

Superior quality piston ring expanders. Designed to stop oil pumping and piston slap. 4 inch diameter only—can easily be cut for smaller sizes. Shipping wt., 8 oz. per dozen.

**8K9331**—1/4 inch, Net, each.....4c  
**8K9332**—3/8 inch, Net, each.....4c  
**8K9333**—1/2 inch, Net, each.....4c

## Finest Cast Iron Pistons for Fords and Chevrolets



Known everywhere for their high quality. Finest grade light grey iron. Accurately ground. Complete with Bunting Bronze Bushings and fitted Pin. Average shipping wt., 2 1/2 lbs.

**For Ford**—28 oz.  
**8K9334**—Standard, Net, each.....92c  
**8K9335**—.0025 O. S., Net, each.....92c  
**8K9336**—.005, Net, each.....92c  
**8K9337**—.010, Net, each.....92c  
**8K9338**—.015, Net, each.....92c  
**8K9339**—.025, Net, each.....92c

**For Chevrolet**  
**8K9340**—Standard, Net, each.....92c  
**8K9341**—.0025 O. S., Net, each.....92c  
**8K9342**—.005 O. S., Net, each.....92c  
**8K9343**—.010, Net, each.....92c  
**8K9344**—.015, Net, each.....92c  
**8K9345**—.025, Net, each.....92c



## Piston Rings

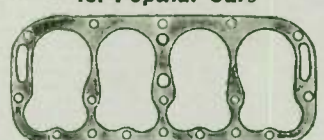
### Ford and Chevrolet

A real quality part, guaranteed accurate.

**For Fords**  
**8K9344**—Standard, Net, each.....12c  
**8K9345**—.0025 O. S., Net, each.....12c  
**8K9346**—.005 O. S., Net, each.....12c  
**8K9347**—.010 O. S., Net, each.....12c

**For Chevrolet**  
**8K9348**—Standard, Net, each.....12c  
**8K9349**—.0025 O. S., Net, each.....12c  
**8K9350**—.005 O. S., Net, each.....12c  
**8K9351**—.010 O. S., Net, each.....12c  
**8K9352**—.015, Net, each.....12c  
**8K9353**—.025, Net, each.....12c

## Cylinder Head Gaskets for Popular Cars



(Cut Shows Dodge 4 Gasket)

No.	Name, Model	List	Each
8K9300	—Buick Standard Six, 1925-27	\$0.85	\$0.51
8K9301	—Buick Master Six, 1924-27	.95	.57
8K9302	—Chevrolet 1916-27	.35	.23
8K9303	—Dodge 4, 1915-27	.40	.25
8K9304	—Chrysler 4-28, 1926-30, 1927-1928	.27	.27
8K9305	—Hudson Super Six, 1914-27	1.05	.63
8K9306	—Keweenaw 6, 1925-27	.72	.43
8K9307	—Ford, 1909-27	.25	.18
8K9308	—Hupp 4 R, 1917-22	.75	.45
8K9309	—Hupp 4 R 10-12, 1923-25	.75	.45
8K9310	—Jewett 6, 1922-24	1.00	.60
8K9311	—Maxwell 4, 1916-24	.27	.27
8K9312	—Nash Advanced Six, 1918-25	.81	.49
8K9313	—Nash Special Six, 1925-26	.57	.34
8K9314	—Nash Light Six, 1924-27	.60	.36
8K9315	—Oakland 6, 1916-23	.60	.36
8K9316	—Oakland 6-34, 1924	.65	.39
8K9299	—Oakland, 1925-27	.65	.39
8K9317	—Overland 4-91, 1919-23-25	.56	.34
8K9318	—Overland 4-92, 1923-26	.56	.34
8K9319	—Star 4, 1922-27	.45	.27
8K9320	—Studebaker Big Six, 1918-26	1.25	.75
8K9321	—Studebaker Light Six, 1923-24	1.00	.60
8K9322	—Studebaker Standard Six, 1925-27	1.00	.60



## FULTON Look-Under Glare Stop

Blocks out glare completely but leaves road clearly visible. You look under it—not through it. Unlike any other device of this type and guaranteed to give satisfaction. Highly polished steel frame. Attaches above windshield and swings out of way when not in use. Anyone can attach quickly. Shipping wt., 1 lb.  
**8K9052**—List, \$1.50, Net, each.....90c



# VERNAY ALL YEAR ROUND SHUTTER



## Always Open Until Closed

No danger over-heating. Practically all of the radiator is exposed when open, so that shutter can be kept on during summer. No cable strain. No rattle.



## Clamp-on Dash Control

Doesn't mar dash. Quickly placed and stays put. Eight self-locking positions of opening, meeting all weather conditions.



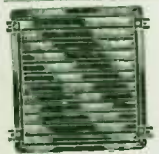
## Arc Circle Straight Pull Cable

No grating sound. Gentle pull on control places in any position easily and quickly. Easiest working shutter made.



## Streamline Vanes

Cold rolled steel, streamline construction, non-sticking, non-rattling, absolutely no wind flutter.



## Special Ford Snap-on Fitters

Need not go through delicate work with rods. Special fitters snap onto shell making a tight, secure installation—anyone can do it in a few minutes.



## Special Ford Dash Control

Clamps on dash and is installed without drilling a single hole. Six self-locking adjustments.

## Nationally Advertised

This will be a big shutter year! Motorists have learned the great value of a shutter in cold weather and they no longer hesitate to pay the small price a shutter costs. A radiator shutter is a cool weather necessity. It checks the flow of air through the radiator, heats the motor quickly and maintains the most efficient temperature.

Use of a shutter minimizes the need for using the choke. Gas is saved, crankcase dilution is lessened and excessive carbon is prevented. A radiator shutter actually saves its cost in many times over by keeping your motor at the right heat.

Striking beauty characterizes the Vernay radiator shutter. It seems to be a built-in part of even the finest car. The finish is baked on black enamel, durable and easy to keep clean. Your car will look much better with a Vernay on the radiator.

If you examine the VERNAY closely, its ingenious construction and mechanical action will compel your admiration. The frame and vanes are all stamped, cold rolled steel of highest quality. The patented bearings are solid brass and cannot rust or stick. You regulate the shutter by means of a control clamped to the instrument board. A flexible, galvanized cable, entirely hidden, passes from the control to the shutter. Eight different positions are given by the hand control, taking care of all weather conditions.

Streamline vanes are a distinct advantage possessed only by the VERNAY. This shape not only gives a pleasing appearance, but also eliminates wind-flutter. Get behind this fine shutter. We will supply you with advertising literature if you request it.



Shows Vernay Shutter on Chrysler Radiator, with vanes closed. The nearest, sturdiest shutter made. A real ornament to the car front.

No.	Car and Model	List Price	Net Price	Lots of 6
8K9900	Buick, Master or Stand.			
8K9901	Buick Stand, 6, '26-'27	\$10.50	\$7.00	\$6.30
8K9902	Buick Master 6, '26-'27	10.00	6.66	6.00
8K9903	Chevrolet K. V., '25-'26	6.00	4.00	3.60
8K9904	Chevrolet A. A., '27	7.00	4.66	4.20
8K9905	Chrysler 58 & 60, '25-'27	8.00	5.33	4.80
8K9906	Chrysler 70, '24-'26	10.00	6.66	6.00
8K9907	Chrysler 70, '27	10.00	6.66	6.00
8K9908	Chrysler 50, '26-'27	8.00	5.33	4.80
8K9912	Chrysler 6-62, '27-'28	8.00	5.33	4.80
8K9909	Dodge Senior	10.00	6.66	6.00
8K9910	Dodge, all '23-'27	7.50	5.00	4.50
8K9911	Dodge 4, Model 128, '27-'28	10.00	6.66	6.00
8K9914	Ford T, '23-'24	5.50	3.66	3.30
8K9915	Hupmobile A, '26-'27	10.00	6.66	6.00
8K9916	Hupmobile A, '26-'27	10.00	6.66	6.00
8K9919	Mon 60, '26-'27	10.00	7.66	6.00
8K9913	Nash, Standard 6, '28	10.00	6.66	6.00
8K9917	Nash, Special 6, '28	10.00	6.66	6.00
8K9918	Nash, Advance 6, '28	10.00	6.66	6.00
8K9920	Nash (Ajax) Light, '26-'27	8.00	5.33	4.80
8K9921	Nash Special, '26-'27	8.00	5.33	4.80
8K9922	Nash Advance, '26-'27	10.00	6.66	6.00
8K9923	Oakland, '26-'27	10.00	6.66	6.00
8K9924	Oldsmobile 30E, '26-'27	10.00	6.66	6.00
8K9925	Overland 91-92, '25-'26	7.50	5.00	4.50
8K9926	Overland 93, '26-'27	7.50	5.00	4.50
8K9927	Packard 6, '26	12.00	8.00	7.20
8K9928	Packard 8, '26	12.00	8.00	7.20
8K9929	Packard 8, '27	12.00	8.00	7.20
8K9930	Packard 8, '27	12.00	8.00	7.20
8K9931	Paige 45, '27	8.00	5.33	4.80
8K9932	Paige 65-75, '27	10.00	6.66	6.00
8K9933	Pontiac 6, '26-'27	7.50	5.00	4.50
8K9934	Ree T6 and Speedwagon			
	'26-'27	10.00	6.66	6.00
8K9935	Reo (Flying Cloud) A, '27	10.00	6.66	6.00
8K9936	Reo (Wolverine), '27	10.00	6.66	6.00
8K9937	Star 4-6, '26-'27	7.50	5.00	4.50
8K9938	Studebaker Standard, '26-'27	12.00	8.00	7.20
8K9939	Studebaker Special, '26-'27	12.00	8.00	7.20
8K9940	Studebaker Big 8, '25-'27	12.00	8.00	7.20
8K9941	Studebaker Bland (for curved radiators)	12.00	8.00	7.20
8K9942	Whippet 66-93A, '26-'27	7.50	5.00	4.50
8K9943	Willis-Knight 65, 66, 66A, '25-'27	10.00	6.66	6.00
8K9944	Willis-Knight 70-70A, '26-'27	10.00	6.66	6.00

## FREE Dealer Helps on Vernay

To dealers who wish to push Vernay, we furnish free, a quantity of 3-color 8-page folders. Display cards. A striking display case, 3 1/4 x 4 1/8 inches on which an actual shutter may be mounted furnished on request to dealers with an initial order of 12 shutters or more.

## Dole Leak-Proof Primer

One stroke of the Primer control which is located on dash sprays vaporized gasoline into the manifold. Motor starts instantly. No fussing, no delay—even in coldest weather. Saves battery, oil, saves gas.



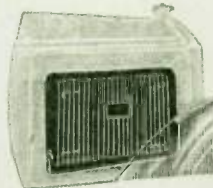
saves wear and tear on motor. Does away with old fashioned "choking." The Dole is superior to any other primer because its patented design prevents leakage or syphoning of gas. Easy to install. Shipping wt., 1 1/2 lbs. State make and model of car.  
**8K9353—For Fords. List, \$4.50. Net, each.....\$2.95**  
**8K9354—For all other cars (state make and model). List, \$5.00. Net, each.....\$3.30**

## Radiator Covers

A necessity for proper care of radiator and motor during cold weather. Made of a durable waterproof rubberized fabric with a thick lining of heat retaining kersey material. Ventilation regulated by two pleated curtain. Easily attached. Strongly reinforced openings.



Each  
**8K9367—Ford, 1924-'25 .....\$1.05**  
**8K9368—Ford, 1926-'27 .....1.05**  
**8K9355—Buick Master 6, 1926-'27 .....2.15**  
**8K9356—Chevrolet A. A., 1926-'27 .....1.75**  
**8K9357—Chrysler 50, 1926-'27...1.75**  
**8K9358—Dodge 4, 1924-'25-'26-'27 .....1.75**  
**8K9359—Maxwell, 1922-'23-'24...1.75**  
**8K9360—Overland 4, 1923-'24-'25-'26 .....1.75**  
**8K9361—Overland 6, 1925-'26...2.00**  
**8K9362—Star 4 and 6, 1930.....1.75**



## Lina-Vent Insulator Boards

Fit snug and tight inside the hood, completely covering the side air vents. The heat stays in, the cold is kept out. They are

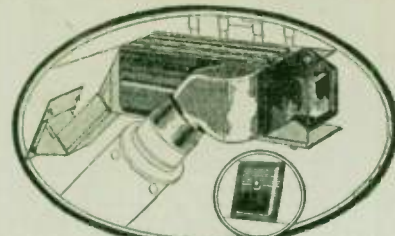
made of strong fibre board lined on one side with felt. Tension springs are hooked over air vent slots—on or off in a jiffy without tools. No vibration.

**8K9363—For Fords, 1917-'25. List, \$1.50. Net, per set.....99c**  
**8K9364—For Fords, Chevrolet, Star, Whippet 4, 1926-'27. List, \$1.90. Net, per set.....\$1.25**  
**8K9365—Size 14x24 inches for 1926-'27 Dodge 4, Essex, Cadillac, Chrysler 50, 58, 60, Oldsmobile, Studebaker Standard, Nash Spec., Buick Stand, and other larger cars. List, \$2.20. Net, per set.....\$1.45**  
**8K9366—Size 14x28 inches for 1926-'27 Master Buick, Willis-Knight, Pontiac, Chrysler 70, Whippet 6, Hupmobile, Oakland, Auburn 4 and 6, and others. List, \$2.50. Net, per set.....\$1.65**



# Red Cat Forced Draft Heaters

This fine line of heaters was selected for our dealers, after comparing with practically all other heaters offered. We believe them the most efficient, practical heaters made. They are manufactured by a concern long experienced in this field and are nationally advertised and known. Push this line and make friends as well as big profits.



## For Chevrolet

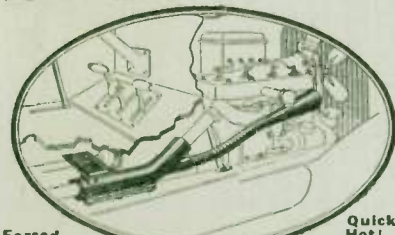
8K9846—List, \$6.00.

Net, each, ..... \$3.99

Lot of 5, Each, ..... \$3.60

**\$3.60**

A special cast iron manifold replaces the exhaust manifold now on car in such a way as not to disturb the efficiency of any way. Inside this special manifold are controlled passages through which exhaust must go. Heat ribs along sides almost double the heating surface. Around this is a sheet metal case which collects the heat and forces it quickly into the car. This movement is aided by the fan which passes the clean air quickly from manifold to inside car. Clean pure air only can get through as this air cannot reach the gaskets or other possible points of leakage. Tested for airtightness. The safest, surest, quickest, most efficient Chevrolet heater made. Simple to install, only one hole to cut in front floor board, controlled with floor shutter which by-passes heat under car when shutter is closed. Shipping wt., 14 lbs.



**Quick Hot!**

## Forced Draft

### Forced Draft Improved Model for Fords

8K9847—List, \$5.00.

Net, each, ..... \$2.90

Lot of 5, Each, ..... \$2.75

**\$2.75**

Constructed for Fords which are equipped with Holley, Swan, Stromberg, Economy and other Hot Shot Vaporizers. (Manifold type heaters will not fit Fords so equipped.) This heater has a cast iron housing which fits around exhaust pipe. A flexible metal hose with flared funnel reaches up to fan. Thus a draft of pure, fresh, clean air is forced through the heated chamber, becomes summer-hot and passes on through shutter into car. Neat, quick, hot—the finest Ford heater ever made. Fits all model Fords. Shipping wt., each, 12 lbs.

### Sheet Metal Forced Draft Heater for Fords

8K9848—List, \$2.50.

Net, each, ..... \$1.66

Lot of 5, Each, ..... \$1.50

**\$1.50**

Similar to the No. 8K9847 above, except housing around exhaust pipe is of sheet metal with a funnel arrangement for intake of forced draft of clean, fresh air. Register fits in center of car in front of front seat. Shutter by-passes heat under car when heat is not wanted. Acts just like a hot blast house furnace. Very efficient and an amazing value. Shipping wt., each, 5 lbs.



## Dash Control Cut-Out for All Cars

Made only in one size, but by means of a patented device can be fitted to all cars. Clamps around exhaust pipe so that it is not necessary to cut pipe. Adjusts packed to prevent any leakage. Extra large vent gives loud clear report. Control made of brass, nickel plated, with a hot steel plate wire. Requires only 1/2-inch hole in dash board to install.

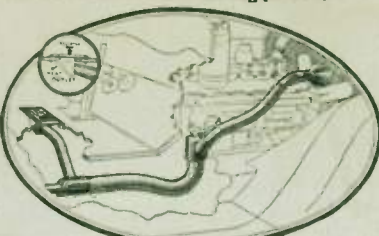
8K8611—List, \$2.50. Net, each, ..... \$1.30

## Waves of Clean Heat, Easily Regulated

### The New Flexible Tube Type Heaters for All Popular Cars

Red Cat Forced Draft Heaters are recognized as the most efficient and most rapid type of heaters. Clean pure air is forced by the fan through a flexible tubing which surrounds the hot manifold and exhaust pipe. The air is thus heated and forced through a register into the car. Driver and passengers are quickly warmed and kept warm even in coldest weather.

Car manufacturers favor this type of heater as it does not interfere with the functioning of the manifold which is designed to operate at a given temperature. Any change or altering of the manifold defeats that purpose. There is a by pass for the register box that permits the circulation of heat to pass beneath the car when the register box is closed. Shipping wts., 11 to 13 lbs.



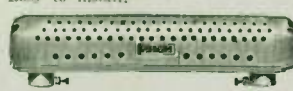
## Forced Draft-Quick Heat, Reliable Always on the Job

	Single Lots	Detail Lots of 5	Price Each	Each 5
8K9849—Buick Standard 6	.....	\$7.50	\$5.00	\$4.50
8K9850—Buick Master 6	.....	8.50	5.66	5.10
8K9851—Chrysler 50..	.....	6.50	4.33	3.90
8K9852—Chrysler 60..	.....	7.00	4.66	4.20
8K9853—Chrysler 70..	.....	7.50	5.00	4.50
8K9854—Chrysler 80..	.....	9.00	6.00	5.40
8K9855—Chevrolet 4..	.....	6.00	6.00	5.40
8K9856—Dodge, 1926	.....	6.00	4.00	3.60
8K9857—Eaton, 1926	.....	7.50	5.00	4.50
8K9858—Hudson, 1925	.....	8.50	5.66	5.10
8K9859—Hupmobile, 1926-7	.....	7.50	5.00	4.50

	Single Lots	Detail Lots of 5	Price Each	Each 5
8K9860—Moon, 1927	.....	\$9.00	\$6.00	\$5.40
8K9861—Moon, 1927	.....	9.00	6.00	5.40
8K9862—Oldsmobile, 1926-7	.....	8.00	5.33	4.80
8K9863—Whippet, 1926-7, 4 cyl.	.....	6.00	4.00	3.60
8K9864—Star 4 and 6, 1925-6-7	.....	6.50	4.33	3.90
8K9865—Velle Light 6, 1926-7	.....	8.00	5.33	4.80
8K9866—Special Sheet metal manifold type for Pontiac, all models	.....	6.00	4.00	3.60

## Famous "RAPID" Quick Heaters

We believe these the best heaters of their type made. Patented construction utilizes practically all exhaust gases and provides sufficient radiating surface to heat entire car quickly. They are positively odor-proof and will not rattle. An especially fine control valve works through floor board convenient to driver. Easy to install.



### "Footboard Style"

A type of heater which has found favor for a good percentage of car owners for many years. Can be placed as foot rail or heelboard. Black enameled finish measures 16 in. long by 4 1/2 in. wide and 2 1/2 in. high. Complete, ready to install. Shipping wt., 10 lbs. Order exhaust pipe size required by article number.

8K9868—1 1/2 inch 8K9871—2 1/4 inch  
8K9869—1 1/2 inch 8K9872—2 1/4 inch  
8K9870—2 inch  
List, \$7.50. Net, each, ..... \$4.95



## Shows Simple Installation



### Flush Register Type

A heater equally as efficient as Model No. 1 and equipped with distinctive black register but slightly shorter. Ideal for coupes and small sedans. Measures 15 1/2 in. long and 6 1/2 in. wide; comes complete with heater, control, valve and tubing. Order exhaust pipe size required by article number.

8K9873—1 1/2 inch 8K9876—2 1/4 inch  
8K9874—1 1/2 inch 8K9877—2 1/4 inch  
8K9875—2 inch  
List, \$10.50. Net, each, ..... \$6.95

### Chart of Exhaust Pipe Sizes

Make and Model	Make and Model	Make and Model
Airt, 1925-26.....1 1/2	Flint, B-60.....2 1/4	Oakland, Six.....2 1/4
Auburn, 6-65.....1 1/2	Flint, B-50.....2 1/4	Oldsmobile, Six.....2 1/4
Auburn, 8-77.....1 1/2	Ford, T.....1 1/2	Overland, 91.....2 1/4
Auburn, 8-88.....2 1/4	Franklin, 11B.....2 1/4	Overland, 95.....1 1/2
Buick, 115.....2	Gardner.....2 1/4	Packard, 5.....2 1/4
Buick, 120-128.....2 1/4	Hudson (1926).....2 1/4	Packard, 8.....2 1/4
Cadillac.....1 1/2	Hudson (1927).....2 1/4	Paige, 6-85 & 8-75.....2 1/4
Chandler, Stan. 6.....2	Hupmobile.....2	Paige, 8.....2 1/4
Chandler, Spec. 6.....2	Jewett, 1926.....2	Pearson.....2 1/4
Chandler, Big Six.....2 1/4	Jewett, 6-45.....1 1/2	Pearson-Arrow, 50.....2 1/4
Chevrolet.....2 1/4	Jordan, Lne 8.....2 1/4	Pearson-Arrow, 56.....2 1/4
Chrysler, 60.....1 1/2	La Salle, Gt Lne 8.....2 1/4	Pentair, Six.....2 1/4
Chrysler, 70.....2	Lincoln, 1925.....1 1/2	Reo, Wolcott.....2
Chrysler, 80.....2 1/4	Lincoln, 1926.....2 1/4	Reo, Flying Cloud.....2
Cleveland, 1925-26.....2 1/4	Lincoln, 1927.....2 1/4	Star, 4 & 6.....1 1/2
Diana, 8.....2 1/4	Loeemobile, Jr. 8.....2	Stearns-Knight.....2 1/4
Dodge Bros., 4.....2 1/4	Marmion, Little 8.....2	Studebaker, Stan. 6.1
Dodge Bros., 6.....2 1/4	Marmion, 75.....2 1/4	Studebaker, Big 6.2
Eaton.....2 1/4	Moon, 6-60.....1 1/2	Stutz, 8.....2 1/4
Erskine.....1 1/2	Moon, A.....2 1/4	Velle, 50.....2 1/4
Eaton (1926).....1 1/2	Nash, Light Six.....1 1/2	Velle, 60.....2 1/4
Eaton (1927).....1 1/2	Nash, Spec. Six.....1 1/2	Whippet.....2 1/4
Flint Junior, 2-18.....1 1/2	Nash, Six.....2 1/4	Willis Knight, 70.1
		Willis Knight, 60.2



## Pioneer Rebound Absorbers

Stop Bouncing, "Galloping" Side Sway and Bobbing



Built on correct engineering principles, of rugged construction, yet costing only about one-third the usual price. Quickly save their cost by saving of tires, spring breakage, vibration of all car parts, not to speak of fatigue of driver. They catch the violent rebound of the springs on hitting a bump, cushioning it firmly to a gentle stop. Prevents side sway, bouncing, bobbing or "galloping" of car in rough going. They insure your comfort and safety always and lengthen the life of your car. They are positively guaranteed by the maker. Extremely simple and rugged. The heavy web strap is held against a floating band of friction webbing by the strong steel spring. This band operates around a drum, like a brake. Nothing to wear out—they will outlast the car. No lubrication or attention whatever once they are adjusted. Very simple to install—no holes to drill. All fittings and complete instructions furnished. Furnished for all cars. State make, year, and model of car. Ship. wt., 11 1/2 lbs. each.

**8K8636**—Set of 2, one front, one rear, for 1928-27 Ford Touring and Sedan. List, \$10.00, Net, \$5.45  
**8K8636**—Set of 2 for all other Fords. List, \$10.00, Net, 5.45  
**8K8637**—For all other cars, front. Pair. List, \$10.00, Net, 5.45  
**8K8638**—For all other cars, rear. Pair. List, \$10.00, Net, 5.45

## Wall Oil Filter

We believe this to be the finest oil filter made. Its ingenious design provides 500 square inches of filtering area and every inch effective. Body is drawn from one piece of steel with no welded joints or seams to open up. The filter sack of fine woven flannel is provided with a series of large and small rings giving it a bellows shape as shown in sectional view. Oil enters at outer connection on top and must pass from outside to inside of sack, the clean filtered oil being returned to



crankcase from center connection. Thus all foreign matter in oil remains outside sack in shell, so that cleaning becomes easy. This can be done without disturbing pipe connections. Extremely simple to install on dash or motor. Fits and works on any car with full pressure oiling system (not suitable for Hudson, Essex or Ford). Does not affect regular operation of oil system. Comes complete ready to install. Shipping wt., 3 lbs. each.

**8K9477**—List, \$5.50, Net, \$3.55

## Spring Oilers



Needed on every car to stop squeaks, prevent spring breakage and make cars ride easier. These Spring Oilers use any kind of oil and feed it automatically while you ride. No bother, no fuss—and a minute a month insures perfect spring lubrication on any car. Coil spring holds felt oiling pad against auto spring leaves; absolutely no rattling, slipping or losing. Instantly attached—just clip on spring. Shipping wt., 2 lbs.

**8K8498**—Set of 4, for all cars. List, \$1.50, Net, 90c

### 30-Day Trial

Order a set for your car in regular way. Try them and test them 30 days. If then you are not satisfied, return them to us and we will refund your money.

## Thermo-Cool Motor Heat Regulator Ideal for Chevrolet

This wonderful device, standard equipment on such fine cars as Stutz and Marmion 8,

is now available for all cars with water pumps. Easily installed between engine and radiator, replacing 2 inches of the regular hose. When motor is cool, Thermo-Cool shuts off flow of water until motor warms up, when it opens gradually, until efficient operating heat is reached. Saves gas, reduces carbon, saves hours of time in warming up. Finely made, accurate and reliable. Shipping wt., 1 1/2 lbs. Retail price, \$5.00.

**8K9586**—1 -inch size } Net, each.  
**8K9587**—1 1/4 -inch size } \$3.33  
**8K9588**—1 1/2 -inch size }  
 Chevrolet takes this size.



A vital necessity in these days of low quality gasoline and heavy road dust. Six square inches of fine gauze holds back all dirt and lint from carburetor. Fits under vacuum tank out of way. Easily cleaned. Shipping wt., 2 lbs. List, \$1.75

**8K8620**—For cars with vacuum tanks. Net, each, 95c  
**8K8621**—For 1926-1927 Fords. Net, each, 95c

### Replacement Hub Caps

Made of heavy gauge aluminum, highly polished. They are in exact duplication of original equipment, showing manufacturer's monogram (in colors where standard). Accurately milled and threaded ready for attachment to car. For all models of cars listed. Ship. wt., 1 lb. per set.

**8K9575**—Dodge, 1915-26 .....45c  
**8K9576**—Essex 6 .....45c  
**8K9577**—Hudson 6, front .....85c  
**8K9578**—Hudson 6, rear .....85c  
**8K9579**—Buick Stand, 6, black, 85c  
**8K9580**—Buick Stand, 6, blue, 85c  
**8K9581**—Buick Master 6, black, 85c  
**8K9582**—Buick Master 6, blue, 85c  
**8K9583**—Nash 1922-23 Special 6, 85c  
**8K9584**—Nash 1923-25 Light 6, 85c  
**8K9585**—Chevrolet, all models, 80c  
 Set of 1 .....80c 55c



## Hartford Shock Absorbers

The Old Reliable

On the market for 24 years, time tried and proven. Maintain the car on a smooth unbroken plane of travel by the "2 way friction control" of spring action. When installed they form an active part of the car suspension, eliminating all jolts, jars and vibration as car passes over holes, bumps, ruts, ridges, etc. Like riding in an airplane—so smooth and even is travel with Hartford! Note the spring action is controlled both ways—up and down! Forty-six European and American fine car makers specify Hartford as standard equipment.



**Makes Every Road a Boulevard**  
**The First Shock Absorber and Still the Best**

**8K8646**—Model 106. List, per set of 4, \$22.50, Net, \$16.87

Fits: Chevrolet, Chrysler 50, Essex, Flint Jr., Nash L. 6, Max, Whippet 4, Pontiac, Star 4 and 6.

**8K8647**—Model 107. List, per set of 4, \$40.00, Net, \$30.00

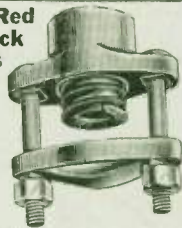
Fits: Auburn, Buick Stan., Chandler, Chrysler 60, 70 or 80, Diana, Dodge, Durant, Flint, Franklin, Gardner, Hudson, Hupmobile, Jewett, Jordan, Moon, Nash, Oakland, Oldsmobile, Reo, Studebaker, Velle, Whippet 6, Willys-Knight, Wolverine.

**8K8648**—Model 108. List, set of 4, \$50.00, Net, \$37.50

Fits: All heavy cars.  
**8K8649**—Special for Ford. List, set of 4, \$18.00, Net, \$14.25

## Buckeye Red Top Shock Absorbers

A spring controlling device, very efficient in operation. Controls the initial shock as well as the rebound. Tension can be regulated to fit the action of any spring. High grade malleable iron with spiral steel tempered springs. Can be installed by anyone in 10 minutes. Lessens spring breakage. Brings a new comfort to driving anywhere. Fits all cars. Shipping wt., per set, 4 lbs.



**8K8634**—Set of 4. List, \$8.50, Net, \$2.98

## Kirstin Dash Gas Gage Guaranteed 3 Years



Accurate, dependable, beautiful, absolutely fool-proof. Operated by the weight of the gasoline in the tank—no danger, no leakage. Nothing to break or rattle. A real ornament to dash. Very neat and compact. Can be quickly installed under instrument panel without cutting or drilling through the dash, as desired. Black and nickel finish. Try it for 30 days at manufacturer's risk! Shipping wt., 2 1/2 lbs.

**8K8659**—For Fords, 1926-1927, except Fordor. List, \$3.50, Net, each, \$2.34

Carton of 5, \$11.38

**8K8660**—For Chevrolet, 1924-1927. List, \$5.00, Net, each, \$3.34

Carton of 5, \$16.25

**8K8661**—For all late model Buick, Dodge, Oakland, Pontiac, Chevrolet, Whippet, Star, Falcon-Knight and Chrysler 50 cars (State Make and Model.) List, \$6.00, Net, each, \$4.00

Carton of 5, \$18.00



# TUTHILL

## TITANIC "Hump"



Titanic "hump centers" are springs of the highest quality obtainable. They are guaranteed forever against center breakage. Their superior quality, unusual sales help, a good profit and a responsible manufacturer with nearly a half century of experience all provide the most attractive spring proposition available.

### CHEVROLET

No.	Location	Model and Year	Width	Low	Length	Price	List	Net
8KC853	Front	K, V, 1925-26	1 1/2	7	36 1/2	\$ 6.00	\$ 3.24	
8KC869	Front	R, X, LM 1 Ton, 1925-27	1 1/2	8	36	7.05	3.81	
8KC860	Rear	K Touring, 1925	1 1/2	8	54 1/2	9.90	5.35	
8KC868	Rear	R, X 1 Ton, 1925-26	2 1/2	12	45	20.55	11.10	
CHRYSLER								
8KC221	Front	6-70 All ex. Coach, 1925	1 1/2	10	35 1/2	6.30	3.40	
8KC225	Front	4-58 All Types, 1925	2	8	30 1/2	7.50	4.05	
8KC230	Front	4-58 All Types, 1925-26	2	10	36 1/2	7.35	3.97	
8KC232	Front	6-60 All Types, 1926	2	11	36	8.25	4.45	
8KC236	Front	4-50 All Types, 1926-27	1 1/2	9	35 1/2	6.90	3.63	
8KC223	Rear	6-70 Touring, 1925-26	2	8	51 1/2	9.90	5.34	
DODGE								
8KD1150	Front	All Types, 1915-22	1 1/2	6	36 1/2	5.70	3.08	
8KD1162	Front	Touring, Coupe, 1923	1 1/2	8	36 1/2	6.30	3.40	
8KD1166	Front	Rd., Tr., Cpe., 1924-25	2	9	37 1/2	8.25	4.45	
8KD1171	Front	All, Balloon Tires 1924-27	2	9	37 1/2	8.25	4.45	
8KD1168	Rear	Touring, Coupe, 1924-25	2	7	55 1/2	11.70	6.32	
ESSEX								
8KE3702	Front	A, 4 Cyl., 1919-23	2	6	36	6.60	3.56	
8KE3705	Front	A, 4 Cyl., Late 1923	2	7	36	7.20	3.89	
8KE3706	Front	6 Cyl., 1924	2	7	36	6.15	3.32	
8KE3708	Front	All Types (6 Cyl.), 1924-26	2	9	36	6.90	3.73	
8KE3707	Rear	Coach, 1924-27	2	8	54 1/2	11.55	6.24	
FORD								
8KF117	Front	7 Lvs. Tapered, 1909-25	1 1/2	7	33 1/2	6.00	3.24	
8KF118	Front	8 Lvs. Tapered, All Years	1 1/2	8	33 1/2	6.50	3.51	
8KF119	Front	9 Lvs. Tapered, All Years	1 1/2	9	33 1/2	7.00	3.78	
8KF110	Front	10 Lvs. Diamond, All Years	1 1/2	10	33 1/2	7.50	4.05	
8KF105	Rear	8 Lvs. Tapered, All Years	2	8	50 1/2	12.00	7.48	
8KF115	Rear	9 Lvs. Tapered, All Years	2	9	50 1/2	15.45	8.35	
8KF113	Rear	10 Lvs. Diamond, All Years	2	10	50 1/2	17.00	9.18	
8KF114	Rear	One Ton Truck, All Years	3	9	18	8.10	4.38	
GRAHAM TRUCK								
8KG139	Front	1 1/2 Ton and Bus 1924-26	2	9	37	9.75	5.37	
HUDSON								
8KH648	Front	O, 1925	2 1/2	10	30	10.95	5.92	
HUPMOBILE								
8KH739	Front	6 Cyl., 1926-27	2	8	37	7.50	4.05	
JEWETT								
8KJ1950	Front	1922-24 & after Mar., 1925	2	8	36	7.95	4.30	
8KJ1954	Front	Late 1924 & to Mar., 1925	2	11	36	8.10	4.38	
OAKLAND								
8KO949	Front	34C, 34D, 6-44, 1920-23	1 1/2	7	36 1/2	6.75	3.65	
8KO955	Front	6-54A, 1924-25	2	7	36	7.35	3.97	
8KO918	Front	6-54B, O6, G06, 1925-27	2	12	36	9.90	5.34	
OLDSMOBILE								
8KO3514	Front	30, 1st Series, 1924-25	2	6	35 1/2	6.60	3.56	
8KO3525	Front	30, 3rd Series, 1926-27	2	7	35	6.90	3.73	
OVERLAND								
8KO444	Front	4, 91, 92, 1920-23	2	7	31 1/2	4.80	2.60	
8KO462	Front	96 Whippet 4, 1926-27	1 1/2	7	33	5.40	2.92	
8KO445	Rear	4, 91, 92, 1920-26	2	8	24 1/2	6.00	3.24	
8KO463	Rear	96 Whippet 4, 1926-27	1 1/2	7	49	8.10	4.38	
PONTIAC								
8KP315	Front	All Types, 1926-27	1 1/2	8	36	7.05	3.81	
8KP317	Rear	Coach, 1926-27	2	8	54	10.35	5.59	
REO SPEED WAGON								
8KR2250	Front	F (Reg. No. Plates), 1926	2	9	38 1/2	9.60	5.19	
8KR2251	Rear	F (Reg. No. Plates), 1926	2 1/2	9	41 1/2	13.05	7.05	
8KR2257	Rear	F (Three Extra Plates), 1926	2 1/2	12	41 1/2	18.90	10.21	
STAR								
8KS4056	Front	C, 1/2 Eyes, 1922-23	1 1/2	6	34 1/2	5.85	3.16	
8KS4053	Front	F, 1/2 Eyes, 1924-25	1 1/2	6	34 1/2	5.85	3.16	
STUDEBAKER								
8KS2329	Front	Light Six, 1922-24	2	7	36	7.65	4.14	
8KS2330	Front	Special and Big Six, 1924	2	7	38 1/2	8.70	4.70	
8KS2337	Front	Standard Six, 1925	2	7	36 1/2	7.95	4.30	
8KS2340	Front	Special and Big Six, 1925	2	7	38 1/2	9.00	4.86	
8KS2343	Front	Std. Six, All, 1925-26	2	8	36 1/2	7.65	4.14	
8KS2338	Rear	Std. Six Tr., Cpe., 1925	2	7	50 1/2	11.10	6.00	

\*Made same center construction as original, bolt or nib.

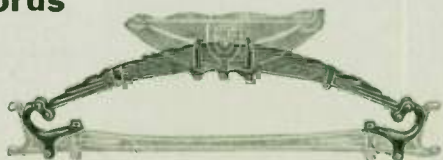
## State Make, Year and Model of Car for Which Spring is Wanted

We Can Furnish Springs for Any Car or Truck—Prices on Request

## BURTONS Long Front Springs For Fords

Twelve inches longer than standard Ford spring which adds necessary resiliency for absolute riding comfort. All jars and jolts are eliminated with the use of this spring. The special construction eliminates the danger of spring breakage. It comes complete with two sturdy brackets with Burton double safety lock feature; two bracket bolts, two long spring clips and special center plate. Average shipping weight, 32 pounds.

8K9883 - 8 plate, For Touring and Roadster, 1901-25, \$5.41  
8K9884 - 9 plate, For Coupe and Sedan, 1901-25, 5.69  
8K9885 - 10 plate, For heavy Trucks, 1901-25, 5.85



8K9886 - 8 plate, For 1926 Touring and Roadster, \$5.41  
8K9887 - 9 plate, For 1926 Coupe and Sedan, 5.69  
8K9888 - 10 plate, For heavy Trucks, commercial, 5.85



# FAMOUS DUTCH BRAND PRODUCTS

These splendid products have long enjoyed a national reputation for high quality and dependability. The manufacturers have a standing in this field second to none. Each and every one of these products is made from only the finest selected materials. They are made by skilled chemists and workmen



whose one guide is to produce the best. Wide distribution and national advertising have established such a large volume that production is on a most economical basis, keeping prices far below what might be expected for such high quality.

## Sure-Seal Tube Patches



This outfit includes a generous quantity of best grade, full strength rubber patching stock, tube of patching cement and metal buffer. Also the new Dutch brand Patch-Kutter. Punctures and blow-outs easily and quickly repaired with patches that stay put and will not slip or slide. Shipping wt., each, 8 ounces.

**8K8000**—36 sq. in. patching outfit. List, 35c. Net, each.....**21c**  
 Package of 12.....**\$2.40**  
**8K8001**—81 sq. in. List, 60c. Net, each.....**36c**  
 Package of 12.....**\$4.08**

## "2-in-1" Tire Cut Filler

A heavy liquid rubber for filling cuts in casings, keeps out water and sand, making casings last much longer. Put up in 1 x 6 tubes for easy application. Shipping wt., each, 8 ounces.

**8K8002**—List, 50c. Net, each.....**30c**  
 Counter display box of 12.....**\$3.25**



## "7711" Rubber Cement

Has world-wide reputation for quality. Quick air-drying cement for patching all rubber articles. Shipping wt., each, about 4 ounces.

**8K8003**—3/4 x 1 inch tubes. List, 10c. Net, each.....**5c**  
 Counter carton of 12.....**54c**  
**8K8004**—1st inch tubes. List, 15c. Net, each.....**8c**  
 Counter carton of 12.....**90c**  
**8K8005**—1/2 pint cans. List, 40c. Net, each.....**24c**  
 Counter display carton of 12.....**\$2.64**



## Friction Tape

Black, extra strong, closely woven friction tape. Guaranteed non-raveling edge.

Each.....**1c**  
**8K8032**—1 oz. rolls. **3c**  
 Each in lots of 16 rolls. **24c**  
**8K8033**—2 oz. rolls. **6c**  
 Each in lots of 16 rolls. **5c**  
**8K8034**—4 oz. rolls. **11c**  
 Each in lots of 16 rolls. **10c**  
**8K8035**—8 oz. rolls. **21c**  
 Each in lots of 16 rolls. **20c**



## Orange Gasket Shellac Compound

A solution of pure orange shellac combined with finest Far Eastern gums cut in highest proof alcohol. Already for use on all gaskets whether metal, leather, paper, asbestos, canvas, fiber, rubber or other. Shipping wt., each, about 8 lbs.

Net, each.....**10c**  
**8K8036**—2 ounce bottle.....**\$1.08**  
**8K8037**—1/2 pint cans.....**28c**  
 Dozen.....**\$3.36**  
**8K8038**—1 pint cans.....**49c**  
 Dozen.....**\$5.40**  
**8K8039**—1 quart.....**89c**  
 Dozen.....**\$9.84**

## Tire Brite (Black)

Preserves tires and makes them more attractive. Not an asphalt paint, but a special compound with a base of pure rubber, which allows paint to flex with the tire. Shipping weights, 2 lbs. and 3 lbs.

**8K8050**—1 pint cans. List, 75c. Net, each.....**43c**  
 Package of 12.....**\$5.00**  
**8K8051**—1 quart cans. List, \$1.25. Net, each.....**79c**  
 Package of 12.....**\$9.00**



## Por-A-Seal Stops Leaks in Radiators (Liquid)

Contains no injurious substances of any kind. Positively seals leaks in radiators and prevents accumulation of scale and rust in cooling system. Very popular throughout the country for many years past. Shipping wt., each, about 1 lb.

**8K8052**—10 ounce cans. Liquid. List, 75c. Net, each.....**40c**  
 Display carton of 12.....**\$4.50**

## Auto Top and Cushion Coating

Makes old tops and cushions look like new. Produces fine black, waterproof finish. Excellent for decks of closed cars. Applied easily and dries quickly. Not to be confused with the ordinary quality so-called, "Top Dressing." Shipping weights, 1 1/2 lbs. and 3 lbs.

**8K8053**—1 pint cans. List, 90c. Net, each.....**59c**  
 Carton of 12.....**\$6.60**  
**8K8054**—1 quart cans. List, \$1.50. Net, each.....**98c**  
 Carton of 6.....**\$5.58**



## Varni-Brite Auto Polish

Removes dirt, grease, road tar, rain and mud spots and other stains. Does not leave sticky or greasy surface, and does not catch dust or show finger marks. Produces a high varnish, bright finish without injury to the original enamel. For furniture use. Shipping weights, 1 1/2 lbs. and 3 lbs.



Also fine weights, 1 1/2 lbs. and 3 lbs.  
**8K8055**—1 pint cans. List, 75c. Net, each.....**46c**  
 Carton of 12.....**\$5.25**  
**8K8056**—1 quart cans. List, \$1.25. Net, each.....**79c**  
 Carton of 12.....**\$9.00**

## Valve Grinding Compound Oil Process

Easy cutting, rapid, free from magnetic iron, glass or emery. Grinds smoothly and evenly, without any risk of scoring. Splendid for lapping pistons into cylinders, pushing-in work, lapping, etc. Approved by U. S. Navy. Shipping wt., 8 ounces.

**8K8057**—7 ounce cans (Duplex). List, 40c. Net, each.....**24c**  
 Carton of 12.....**\$2.64**  
**8K8058**—1 lb. cans (fine). List, 90c. Net, each.....**65c**  
 Carton of 12.....**\$7.44**  
**8K8059**—1 lb. cans (coarse). List, 90c. Net, each.....**65c**  
 Carton of 12.....**\$7.44**



## Water Process

Same as above except for water mixing.  
**8K8060**—3 ounce cans. List, 25c. Net, each.....**15c**  
 Carton of 12.....**\$1.68**  
**8K8061**—1 lb. cans. List, 90c. Net, each.....**65c**  
 Carton of 12.....**\$7.44**

## All Purpose Black Enamel

A high-grade paint made of the choicest materials. Produces a durable, excellent, glossy finish, suitable for painting body of cars, engine covers, brass or nickel, or any worn parts. Resists heat. Dries quickly and will not check. Shipping weights, 1 lb., 2 lbs., and 5 lbs.  
**8K8062**—1/2 pint cans. List, 50c. Net, each.....**31c**  
 Carton of 12.....**\$3.50**  
**8K8063**—1 pint cans. List, 90c. Net, each.....**55c**  
 Carton of 12.....**\$6.25**  
**8K8064**—1 quart cans. List, \$1.50. Net, each.....**\$1.05**  
 Carton of 12.....**\$14.00**



## Neatsfoot Oil Solution

A quality product for softening clutch facings. Assures a firm, positive clutch hold. Relieves the mechanism of car from the jabs and shocks produced by "leaps" when starting. Nothing better for softening black band bulging. Shipping weights, 1 lb. and 1 1/2 lbs.

**8K8077**—1/2 pint cans. List, 40c. Net, each.....**24c**  
 Carton of 12.....**\$2.50**  
**8K8078**—1 pint cans. List, 65c. Net, each.....**39c**  
 Carton of 12.....**\$4.25**



## General Use Oil

Has countless uses in home, office, around car and shop. Cleans, prevents rust, and polishes. Makes a splendid furniture polish.

**8K8079**—3 ounce cans. List, 20c. Net, each.....**10c**  
 Carton of 12.....**\$1.14**



## Penetrating Oil

Graphitised. Used largely on springs and for silencing body squeaks. Also splendid for loosening "frozen" nuts and bolts. Unaffected by extreme cold and will not gum up. Shipping weights, 1 lb. and 1 1/2 pounds.

**8K8080**—1/2 pint cans. List, 50c. Net, each.....**26c**  
 Carton of 12.....**\$2.95**  
**8K8082**—1 pint cans. List, 75c. Net, each.....**39c**  
 Carton of 12.....**\$4.44**



## Top Patch Outfit

Outfit contains strip of patent-coated patching material measuring 36x33 inches and a 1/2 inch tube of extra adhesive cement. Quick way to repair torn tops or cushions easily and permanently. Shipping wt., 8 ounces.

**8K8083**—List, 50c. Net, each.....**27c**  
 Carton of 12.....**\$3.00**



## Display Assortment

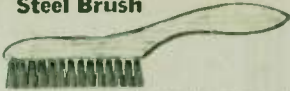
Contains an assortment of Dutch Brand products balanced on a sales basis, the retail value of which is \$83.10, allowing you a profit of \$35.10. Display stand is 6 1/2 ft. high, 33 in. wide and 10 in. deep and has 5 display shelves with room on top shelf, behind sign, for reserve stock. The value of the stand is about \$35.00, but is given free with this order for assortment. Shipping wt., 163 pounds.

**8K8084**—Special Display Assortment of Dutch brand products. List value, \$83.10. Special Net price.....**\$47.70**





## Steel Brush



A handy brush for removing rust from wheel rim and engine parts. Has four rows of hard steel wire bristles, 1 1/2 rows long, 10 inches wide, 1 1/2 inch. **8K8250**—Net price, each.....27c  
Per dozen.....\$3.00



## Spoke Brushes

Especially suited for cleaning wheels. Handle cannot be pulled off nor turn. Very stiff center. Will not bend easily. 1 1/2 inches long, brush part 12 inches long of white tampon fibres. **8K8251**—Each.....28c  
Dozen.....\$2.97



## Fender Brush

A smooth, polished, hardwood handle. Brush stiff palm-leaf. Face, 4 by 5 in. **8K8252**—20-inch long.....42c  
**8K8253**—Short handle, 10-inch long.....27c

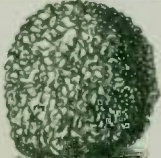


## Auto Spray Brush

Quickly attached to any ordinary hose connection. Easier to get to hard places than with sponge or cloth. Water sprays uniformly over entire brush. **8K8254**—List price, \$1.25.  
Net price.....79c

## Wool Duster

Best Quality—Made of strong staple imported wool, soft, silky finish. Will not scratch. Can be washed when dirty. Length of wool, 7 1/2 in.; length handle, 9 in. **8K8255**—Net price, 65c  
Lots of 6, each.....62c



## Sheep Wool Sponges

First quality soft sheep wool sponges. Very strong texture. Will stand lots of use. All fresh new stock. Will not scratch or mar the finest finish.

**8K8256**—About 6 1/2-in. diam., each.....31c  
In lots, each.....29c  
**8K8257**—About 7 1/2-in. diam., each.....57c  
In lots of 6, each.....54c

## Shurtite Rubber Sponges

For washing varnished or painted surfaces this sponge is superior to regular sponges as it cannot hold dirt or sand and does not scratch. Suitable for auto washing, the bath, etc. Soft, porous rubber. Size, approximately 3 1/2 x 6 inches. **8K8283**—Retail price, 75c; box of 12, \$4.20. Net, each.....40c



## Simoniz 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. **8K8281**—Polishing Wax, Each.....40c  
Dozen lots, each.....38c  
**8K8282**—Kleener, Each.....40c  
Dozen lots, each.....38c



## Auto Washer

Consists of a one-piece specially designed nozzle, made of polished aluminum, 3 inches long, to which is attached a sheep's wool sponge. Attaches to regular garden hose and gives proper water spray through sponge. You will not get wet when you wash cars with this outfit. Constant water flow prevents dirt accumulation in sponge. This washer won't scratch body finish, quicker, better washing job. Simple—nothing to get out of order. Sponge is replaceable. Will last lifetime. Shipping wt., 1 lb. **8K8258**—List, \$2.50.  
Net, each.....\$1.50

## Knit Polishing Cloth



Softer than cheesecloth and much more lasting. Best holder of polish of any cloth—used by car manufacturers in polishing up new cars. Extraordinary values at these special prices. Shipping wt., 5 yds., 1 lb. **8K8259**—5 yd. Roll. List, 50c.  
Net, each.....29c  
**8K8260**—Garage Size, 35 lb. Roll.  
Net per pound.....62c

## Fender Brush Biltwell Made



Made of tough Biltwell fibre of proper stiffness to go after mud! The right shape to reach underneath fenders. Twisted in wire—fibre won't come loose. Wire passes clear through handle and forms "eye" on end. Finest quality in a 1/2—manufactured by Biltwell Shipping wt., 1 lb. **8K8261**—List, 50c. Net, each.....33c

## Finest Quality Chamois



Extra quality chamois, selected from fine skins. Each in dustproof envelope. Prices very low.

**8K8278**—14x18 in. Each.....\$0.65  
**8K8279**—16x21 in. Net, each.....90  
**8K8280**—18x25 in. Each.....1.27

## Mats Quality Products



## Black Spar Auto Enamel

Contains the highest grade dyes and varnish obtainable. Brings out a beautiful hard gloss and holds it longer than any product on the market. **8K8262**—1/2-pint can. Each.....43c  
Dozen lots, each.....40c  
**8K8263**—1-pint can. Each.....74c  
Dozen lots, each.....70c  
**8K8264**—1-quart can. Each.....\$1.25  
Dozen lots, each.....\$1.20

## Touch-Up Kit (Black)

Dries quickly. Brings out a hard, lasting finish. Carton includes 4-oz. jar, small brush and sandpaper. A wonderful seller. **8K8265**—Net, each.....29c  
Lots of 12, each.....27c



## All Metal Polish

Cleans metals, tile, marble, etc. Requires no shaking. Will not harden; does not evaporate; is non-inflammable; will not scratch. **8K8270**—1/2-pint. Each.....18c  
Dozen lots, each.....17c  
**8K8271**—1-pint. Each.....30c  
Dozen lots, each.....28c  
**8K8272**—1-quart. Each.....53c  
Dozen lots, each.....49c

## Diamond Gloss

A cleaner and polish for baked enamel and varnished surfaces. Will remove tarnish from enamel, brings out the finish clear and dry. Will not show rain spots or catch dust. One cleaning lasts sixty days. **8K8273**—1-pint, each.....57c  
Lots of 6, each.....54c  
**8K8274**—Quarts, each.....85c  
Lots of 6, each.....82c



## Body Polish

Applied with spray or cloth. Takes off road tar and grime. Leaves fine, hard, high luster finish. Keeps car looking new. **8K8266**—Pint, each.....43c  
Lots of 12, each.....40c  
**8K8267**—Quarts, each.....75c  
Lots of 12, each.....70c  
**8K8268**—Gallons, each.....\$1.90  
Lots of 12, each.....\$1.80

## Gasket Shellac

For sealing gaskets, connections, etc., and cementing bicycle tires to rims. Dries quickly, sticks firmly and lasts long. Heat, oil and water-proof. **8K8269**—Net, each.....11c  
Dozen lots, each.....10c



## Tire Dressing (Black)

It keeps tires fresh; stops the bad effects of sunlight on rubber and dresses up the look of the car as well. **8K8275**—Pints, each.....42c  
Lots of 12, each.....40c  
**8K8276**—1/2-pint, each.....28c  
Lots of 12, each.....26c

## Top and Cushion Dressing

A flexible, water-proof preservative for pantalone, leather or its substitutes. Guaranteed not to peel, harden or crack. Gives a beautiful jet black gloss and dries in thirty minutes. **8K8277**—1/2-pint, each.....43c  
Dozen lots, each.....40c  
**8K8285**—1-pint, each.....71c  
Dozen lots, each.....68c







## Pioneer Winter Enclosures

for Fords and Chevrolets

Makes a Sedan out of a touring car, a Coupe out of a roadster at little cost! Without a doubt, the finest winter enclosure ever made. When installed, they make a neat, fine appearing, perfectly fitting and working job that adds from \$35 to \$50 to the worth of the car on which it is placed. Dealers place these on used cars for quick winter sales at extra profit!

Just like closed cars, the handle equipment includes outside handles. No flaps to open. These handles require no drilling, but extend clear through for easy door opening inside and out. This is a patented feature, not found on other enclosures.

Has strong, rigid all metal frame, adjustable to height and length. It is securely braced to form substantial, lasting support to the windows and doors. A flat steel strip fastens at top, sealing the car against wind, rain, all kinds of weather, keeping inside of car always comfortable. This job stays put! It won't rattle or come loose and it keeps its shape through the hardest usage.

Ventilation is provided by panels on the sides which slide easily in steel grooves—as easy to open as any window. Heavy clear celluloid windows of full size provide unusual vision.

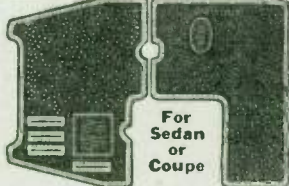
As easy to put on as a new top. No drilling required; only a screwdriver needed. Simple instructions furnished. Shipping weights, touring 30 lbs., roadster 18 lbs.

	For Fords	List	NET
8K11175—Touring 1923-'24-'25	.....	\$20.00	\$11.90
8K11176—Roadster 1923-'24-'25	.....	14.00	6.90
8K11177—Touring 1926-'27	.....	20.00	11.90
8K11178—Roadster 1926-'27	.....	14.00	6.90
	For Chevrolets	List	NET
8K11179—Touring 1923-'24-'25-'26	.....	\$22.00	\$12.50
8K11180—Roadster 1923-'24-'25-'26	.....	15.00	7.00
8K11181—Touring 1927	.....	23.00	12.50
8K11182—Roadster 1927	.....	16.00	7.00

## Pioneer Floor

Mats

for Fords

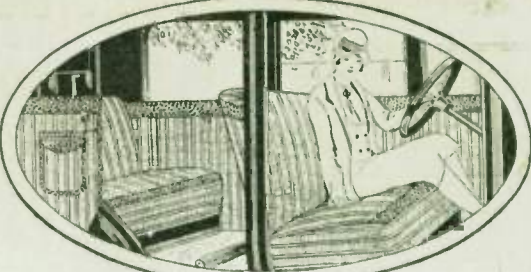


Heavy wearproof rubber, all regulation openings cut accurately so mat will lie flat without buckling or wrinkling. Fit-Snug slots for Pedals and lever. Shipping weight, 5 lbs.

8K9967—Touring (Front) 1915-'23	Net, each.....	75c
8K9968—Touring (Front) 1924-'25	Net, each.....	82c
8K9969—Touring (Front) 1926	Net, each.....	83c
8K9970—Coupe 1915-'23	Net, each.....	85c
8K9971—Coupe 1924-'25	Net, each.....	85c
8K9972—Coupe 1926-'27	Net, each.....	85c
8K9973—Tudor Sedans (2 Pieces) 1924-'25	Net, each.....	\$1.85
8K9974—Tudor (2 Pieces) 1926-'27	Net, each.....	\$1.98

For Sedans and Coupes. These floor coverings are made of brown and gray domestic hair bound at edges and reinforced binding around pedals and brakes. A well-made floor carpet in every respect.

8K9975—1918-'22 Coupe	Net, each.....	\$1.59
8K9976—1924-'25 Coupe	Net, each.....	\$1.59
8K9977—1926 Coupe	Net, each.....	\$1.59
8K9978—1915-'23 2-Door Sedan	Net, each Set.....	\$3.04
8K9979—1924-'25 Tudor	Net, each Set.....	\$3.15
8K9980—1926 Tudor	Net, each Set.....	\$2.95
8K9981—1922-'25 4-Door Sedan	Net, each Set.....	\$2.95
8K9982—1926 4-Door Sedan	Net, each Set.....	\$2.95



## Pioneer Seat Covers

Pioneer covers are of a superior quality fashioned from a long wearing covering material in a neutral gray and tan color with subdued blue stripe. A most tasteful, attractive pattern. Harmonizes nicely with every exterior and interior car finish. Where the most severe wear comes, at the seat edges and tops of the side panels and pocket trim, there is a strip of good quality imitation Spanish leather.

Each set is tailored especially for the car specified and they are guaranteed to fit perfectly. They are easily attached in a few moments and will stay in place. All necessary fasteners and complete instructions accompany each set. Shipping weight about 7 lbs. per set. State make, year, and model of car.

8K11165—Ford Tudor 1926-'27	.....	\$7.25
8K11166—Ford Fordor 1926-'27	.....	7.65
8K11167—Chevrolet Sedan 1925-'26	.....	7.70
8K11168—Chevrolet Sedan 1927	.....	7.70
8K11169—Chevrolet Landau Sedan 1925-'26	.....	7.70
8K11170—Chevrolet Landau Sedan 1927	.....	7.70
8K11171—Chevrolet Imperial Landau Sedan 1927	.....	7.85
8K11172—Chevrolet Coach 1926	.....	7.45
8K11173—Chevrolet Coach 1927	.....	7.60
8K11174—For all 1925-'26-'27 Four-Passenger Coupes, Four and Five Passenger Coaches, Broughams, Sedans and Landau Sedans in makes listed below. List, \$21.00. Net, Set \$10.50	.....	

Alas, Auburn, Buick, Cadillac, Chandler, Chrysler, Cleveland, Dodge, Durant, Essex, Essex, Flint, Gardner, Gray, Hudson, Hupmobile, Jewett, Jordan, La Salle, Maxwell, Moon, Nash, Oakland, Oldsmobile, Overland, Packard, Paige, Peerless, Pontiac, Reo, Star, Studebaker, Velie, Willys Knight, Wolverine, Whippet. In ordering, give make, model, type (sedan, coupe, etc.), number of passengers of car.

## Open-with-the-Door Side Curtains

Made of finest heavy regulation fabric toppling material. Door curtains open with doors. Comes complete with special door irons, which hold curtains firmly when doors are closed. Heavy clear vision celluloid windows in doors and side curtains. Specify year and model of car when ordering.

8K9988—Ford Touring 1915-'22	3-door opening.....	\$5.15
8K9989—Ford Touring 1923-'25	3-door opening.....	4.75
8K9990—Ford Touring 1926-'27	4-door opening.....	5.40
8K9991—Ford Roadster 1915-'22	1 door opens.....	3.20
8K9992—Ford Roadster 1923-'25	1 door opens.....	2.95
8K9993—Ford Roadster 1926-'27	Both doors open.....	3.20

## Wedge Back Cushions

A comfortable back rest. Wedge shaped fits the back. Imitation leather with filler that will retain its resiliency and lightness. A full size cushion indispensable for women drivers and those who find car pedals too far from seat. A good investment in safety and comfort. A remarkable value at this price. Shipping weight, 3 lbs.

8K9995—Each.....85c



## SAGLESS Top Re-Covers

Beautiful top covering outfits with cyst style back curtains. Fitted with 6x18-inch clear vision crystal glass mounted on black enameled rim. Well tailored throughout of extra heavy, long grain waterproof top fabric. Seams are stoutly sewed. All edges are bound and reinforced with extra strip of fabric. Top and quarters are sewed together. Straps are strongly sewed to rear curtain for fastening to frame. This gives additional strength and prevents sagging. Complete with all necessary tacks, blindings and fasteners. Quality considered, our prices are very low. When ordering be sure to specify year and model.

8K9791—Ford Touring 1915-'22	Net price, each.....	\$5.60
8K9792—Ford Touring 1923-'25	Net price, each.....	\$5.69
8K9793—Ford Touring 1926	Net price, each.....	\$6.45
8K9794—Chevrolet all styles Touring	Net price, each.....	\$7.25
8K9795—Ford Roadster 1915-'22	Net price, each.....	\$4.45
8K9796—Ford Roadster 1923-'25	Net price, each.....	\$4.45
8K9797—Ford Roadster 1926	Net price, each.....	\$4.95



# Fast Selling Specialties for Chevrolet Cars

## Bullet Head Lamps for Chevrolets

Bullet lamps of same general body construction as the regular equipment on 1927 Chevrolet, with exception of lenses. Our lamps are equipped with legal lenses, instead of flatlike reflector. Can also be used on any other small car using single bulb 8. C. wiring. Diameter, 8 1/4 inches; depth overall, 8 inches. Black enameled with nickel-plated door. Brilliant silvered reflectors. Fitted with 21 C. P. 6-8 v. bulb.

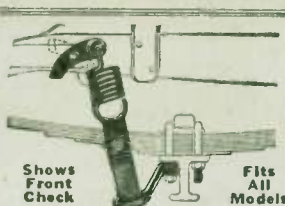
**8K9885**—For Chevrolet, all models. List, \$9.50. Net, per pair, **\$5.49**



## Fenders for Chevrolet

These replacement fenders are an exact duplicate of the original equipment on Chevrolet cars. They are finely finished and are all drilled out with the necessary holes for easy, quick installation. They will fit perfectly. Average shipping wt., 15 lbs.

**8K9960**—Fronts only, all models, Chev. Superior ..... **\$9.95**  
**8K9961**—Rears only, Touring and Sedan, Superior ..... **\$6.75**  
**8K9962**—Rears only, Roadster and Coupe, Superior ..... **\$9.95**  
**8K9963**—Fronts only, all models, Series K and V, 1925-'26 ..... **\$9.95**  
**8K9964**—Rears only, Touring, Sedan and 2-pass. Coupe 1925-'26 ..... **\$6.75**  
**8K9965**—Rears only, Coach, 1925-'26 ..... **\$6.75**



## Rebound Checks

Makes the Chevrolet car as smooth riding as many finer, heavier cars. Smothers the rebound, but does not interfere with downward spring action. Also checks side sway. Almost a necessity with balloon tires. Ideal for use with high pressure tires as well. Very simple to install—takes only a few moments. Strong and durable, they will stand much rough going. Comes complete with fittings. State model when ordering.  
**8K8612**—For 1925-1927 models. List, \$3.25. Net, per pair, **\$1.65**  
**8K8613**—For 1923-1924 models. List, \$3.25. Net, per pair, **\$1.65**

## Gear and Pinion



Spiral ring gear and pinion for Chevrolet car. Accurately machined from finest grade high carbon drop forged steel. Teeth sharply cut. Shipping wt., 5 lbs.  
**8K8792**—34 Tooth spiral ring gear and 9 tooth pinion for Superior model (late '21 to early '25).  
 List, Set, \$10.00. Net, **\$4.69**  
**8K8793**—42 Tooth Ring, 11 Tooth Pinion, for models K, V, and A, A, 1925-'27.  
 List, \$12.00. Net, set, **\$5.59**

## Speed Gears

Hation 3 1/2 to 1-12 tooth ring—12 tooth pinion. Makes 60 miles an hour possible. For models K, V, and A, A, 1925-'27.  
**8K8794**—List, \$15.00. Net, set, **\$7.99**

## Chevrolet Replacement Parts



Perfect fitting duplicates of original Chevrolet Parts in every way. First Quality Materials Only

Chevrolet Part No.	Description of Part	Price Each
8K-44884	Universal Joint	\$2.75
8K-344014	Universal Joint, 10 Spline	2.75
8K-H391	Thrust Bearing, White Metal	.12
8K-H391A	Thrust Bearing, Bronze Metal	.18
8K-587	Standard Hub Bolt, 3/4 in. Lots of 10	.19
8K-H151	Fibre Thrust Washer	.07
8K-H271	Bezel Ring Screw, Lots of 10	.13
8K-907	Std. Hex. Castle Nut, 3/4	.11
8K-H117	24 SAE	.07
8K-41021	Thrust Washer, Steel	.24
8K-H1174	Spider Pinion	.49
8K-H747	Propeller Shaft Roller Bearing	1.05
8K-H748	Propeller Shaft Bearing (Outer Race)	.29
8K-H1172	Propeller Shaft Bearing (Inner Race)	.85
8K-909501	Main Shaft Inner Roller Bearing	.55
8K-909601	Cone	.29
8K-909701	Cup	1.10
8K-909502	Retainer	1.30
8K-909602	Cone	.45
8K-909702	Cup	.17
8K-344336	Front or Rear Spring Shackle Bolt	

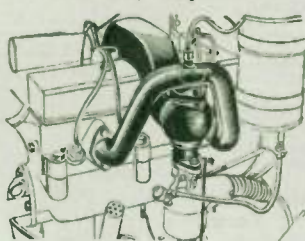
## Dash Control



## Cut-Out for Chev.

Replaces entirely small exhaust manifold by simply bolting on, no cutting or welding. Strong butterfly valve. Exhaust thrown down under car through long tube. Has hollow, ringing tone, each report loud and clear. Controls from dash. Easiest cut-out to install on Chevrolet and a superior one.  
**8K8642**—List, \$5.00. Net, each, **\$2.65**

## Economy Vaporizer



A new practical combination intake and exhaust manifold for use on all Chevrolet cars and trucks, which greatly improves performance with economy of operation and long life. Easily and quickly installed. Thorough tests have fully demonstrated these advantages: Completely vaporizes all grades of gasoline and furnishes uniform distribution of a dry gaseous combustible fuel mixture of proper temperature to all cylinders at all speeds; reduces carbon deposits and overcomes fuel knocks; increases mileage from 25 to 50 percent; increases power, speed and smoothness of operation. Eliminates fouling of spark plugs; eliminates crank case dilution by thoroughly vaporizing fuel. Makes starting easier, with less choking.

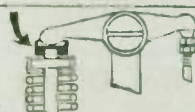
**GUARANTEE:** The manufacturer guarantees all claims made for the Economy Vaporizer and to give entire satisfaction or money refunded within ten days from date of sale, or in case of mechanical defects to replace Vaporizer. Shipping wt., 20 lbs.

**8K9966**—List, \$10.50. Net, each ..... **\$6.49**

## Connecting Rod

Standard weight, drop forged, replacement connecting rod, complete with bolts, bearing and shims. S. A. E. habbit bearing heard with all holes. Fits models K, V and A, A, Chevrolets.  
**8K8686**—List, \$2.00. Net, each, **\$1.75**

## Genuine Tex-Oil Silencers



Prevent direct contact of metal against metal of valve stems, thus killing annoying tarpet noises. Set of 8 fiber discs counteracts to fit valve stems as shown in illustration. Will last indefinitely. Any one can quickly install. Shipping wt., 1 pound.  
**8K8687**—Set of 8 pieces. List, \$4.80. Net, ..... **\$1.80**

## BONE DRY

### Distributor Cap Cover



Made of flexible rubber, which completely covers and protects the distributor cap keeping it absolutely dry and oil preventing rain, snow, water or moisture of any kind getting on the distributor cap. Absolute protection for the ignition system against circuits from these causes. Sure to last many times over in saving of time and annoyance. Every car should be equipped with a Bone Dry. Shipping weight, 8 oz.  
**8K9091**—For 4 cylinder cars. List, \$1.00. Net, ..... **\$0.49**  
**8K9092**—For 6 cylinder cars. List, \$1.25. Net, ..... **.55**

## Red Ball Gas Gauge

Direct action, positive type gauge. Nothing complicated to get out of order. Always dependable and accurate. Screws right into tank opening and stays there. Very neatly finished—attractive in appearance. Fits all models Chevrolet. Shipping wt., 2 pounds.  
**8K8688**—List, \$1.75. Net, each, **\$1.20**

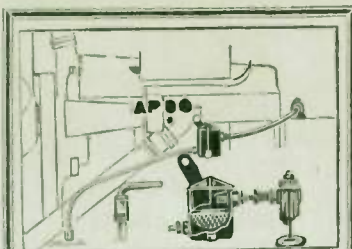
## Lubricator Hub Cap



Made of heavy brass, nickel plated and has cut-in threads which fit perfectly and hold. Fitted with Alemite fitting.  
**8K9590**—For all Chevrolets. List, 50c. Net, each ..... **32c**  
 Lots of 10, each ..... **30c**



# Make the Good Ford Car Better



## Apco Oil Filter System

Does a double duty—keeps oil clean and provides an auxiliary oil feed line to front motor bearings. The most popular Ford Specialty ever offered the trade. Oil constantly passes through special mesh screen and filter chamber is of glass so that owner can see the dirt, deposits of ravelings from band and other foreign matter which regularly gets into every Ford oil supply. Better than other systems because of the special plug which keeps a rush of clean clear oil always flowing on bearings. At normal speed every drop of oil in crankcase passes through filter in six minutes. Shipping wt., 2 lbs.

**BK9124**—List, \$3.50.  
Net, each .....\$2.45

## Rex Oiling System

Feeds oil under all conditions. Even if Regular Ford oil tube is clogged up. Prevents over-heating and burned out bearings. Can be installed in 15 minutes.



**BK9085**—For Fords prior to Sept., 1925.  
Each .....\$43c

**BK9086**—For Fords after Sept., 1925.  
Each .....\$43c

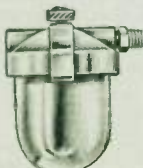
## Self Closing Pet Cocks

Replaces ordinary pet cocks on Ford crankcase. This new pet-cock closes automatically by means of patented spring attachment. Shipping wt., 8 oz.  
**BK9127**—List, \$1.00.  
Net, each .....29c



## Gasoline Filter

Made by Apco



Fits Most all Cars

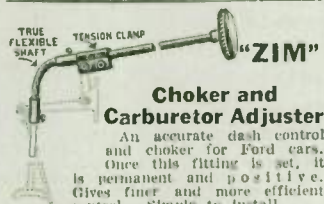
Has several noteworthy features. Incoming gasoline is required to flow from bottom to top through filter. Thus all heavy particles of dirt and foreign matter drop to bottom of chamber, being stopped by the mesh. Easily dismantled for cleaning. Saves its cost many times over. A big seller. One style fits all cars including Fords. Shipping wt., 1 lb.  
**BK9123**—List, \$2.00.  
Net, each .....\$1.40  
Carton of 10 .....\$13.00



## Fulton Foot Accelerator

The new improved type Fulton Accelerator regulator regulates evenly and smoothly the performance of the carburetor. The foot pedal is covered with thick live rubber, with nickel plated binding. Easy to install.

**BK9070**—For all Fords. List, \$1.00.  
Net price, each .....65c



## Choker and Carburetor Adjuster

An accurate dash control and choker for Ford cars. Once this fitting is set, it is permanent and positive. Gives finer and more efficient control. Simple to install.

**BK9129**—List price, 75c.  
Net, each .....49c  
Lots of 12 .....47c

## Dial on Dash

### Gas Gage

For Ford cars with hinged gas tank cap. Positive control from tank to dash, tells at a glance exactly how much gas is in the tank. Easy to install, requires no cutting or drilling. The dial is a dressy fixture that improves the car's appearance. Numerals are black on white background, easily read. Fits 1926-27.

**BK9081**—Retailers for \$2.50.  
Net, each .....\$1.67



## Pet Cock Wrench

A handy, inexpensive tool that makes it unnecessary to crawl under the car in order to find out oil level in the motor.

**BK9181**—List price, 15c.  
Net, each .....9c

## Air Cleaner for Fords

Keeps the grinding, destructive wear of dust and grit from delicate parts of motor. Will save its cost many times over by reducing wear on parts. Made by one of the oldest makers of air cleaners. A fine quality, practical cleaner that has proven very popular. Shipping wt., 5 lbs.  
**BK9122**—List, \$2.50.  
Net, each .....\$1.75



## Eagle Bar



With flying eagle perched on top. For Fords. Adds to appearance of any car. Well made. Highly polished. Nickel finish. Length, 6 1/2 inches.  
**BK9170**—Cap with eagle .....35c  
**BK9171**—Cap without eagle .....28c

## Radiator Cap



## Economy Vaporizer

For use on all Model "T" Ford cars and trucks, which greatly improves the performance of the motor, with economy of operation and long life of the motor. It is easily and quickly installed, simple in construction and operation, and with no moving parts to wear out. Thorough tests have fully demonstrated these advantages: Completely vaporizes all grades of gasoline and furnishes uniform distribution of a dry gaseous combustible fuel mixture of proper temperature to all cylinders at all speeds, and therefore reduces carbon deposits and overcomes fuel knocks; increases mileage from 25 to 50 per cent, using any grade of gasoline; increases power, speed and smoothness of operation; eliminates fouling of spark plugs; eliminates crank case dilution by thoroughly vaporizing the fuel; insures a cooler running motor; makes starting easier.

**BK9835**—List, \$8.00.  
Net, each .....\$4.79



## Fulton Pedal Pads

Made of live rubber in safety "tread" design, with metal bands for attaching. Easily attached. Prevents foot from slipping off pedals.

**BK9050**—For Fords up to and including 1925 model. Per set .....36c

**BK9051**—For sets 1926-1927 model .....36c

## Red Ball Gas Gage for Late Model Fords

For all open and closed model Fords with tank under cowl. Gravity principle—nothing to get out of order. Fits on right side of instrument board. Quickly installed. Indicated clearly by gallons. Very popular.

**BK9180**—List, \$1.75.  
Net, each .....\$1.15  
Lots of 12, each .....\$1.05



## Brake and Pedal Opening Covers Henry's Boots



All solid genuine leather, yet cost no more than imitation leather types. No tools required to install. Slip over pedals, tighten metal band around sheep wool lining, then replace floor mat or carpet, making "boots" air tight. Corners may be tacked if desired. Keep out cold, dirt and dust. Does not hinder operation in any way. A big seller. Shipping wt., 1 lb.  
**BK9128**—List, \$1.50 net.  
Net, each .....95c



# Ignition Equipment for Fords

## Howard Ignition System

Hotter Spark—  
Easier to In-  
stall—Simple—  
Never Out of  
Order



While entirely different from other systems, this new method is based upon sound engineering principles and proven by test. We ourselves have given this device a thorough try-out and we join the manufacturer in guaranteeing that if any user after 30 days of trial does not believe it superior to any other system, he can have his money back. Our dealers are authorized to sell it upon that basis. The Howard can be installed by anyone in 10 minutes' time. You simply mount it in place of present timer and attach wires as plainly marked. This system has no gears or bearings to wear out—no oiling required. The Bakelite cover shields all working parts from dirt, oil, and water. Uses one unit of Ford coils. Works with either magnets or battery. Simple, compact—nothing to get out of order. Gives more power, speed. Reduces gas and oil consumption. You will be amazed at the improved results at all engine speeds. Shipping wt., 10 lbs.

**8K9003**—For Fords with coils on dash.

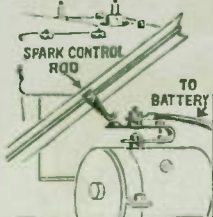
**8K9004**—For Fords with coils on engine block.  
Retail price, \$10.00. Net, each, \$5.98

## Starter Switch

For all Ford cars. Strong heavy construction, rust proof finish. Easily installed. Best contacts. Shipping wt., 1 lb.

**8K9023**—List, \$1.00. Net, each, 28c

## Spark Lever Starting Switch



A specially designed switch that bolts to starting motor and an arm that clamps to spark rod. Pushing up spark lever releases sparks and starts motor. Prevents back firing. Handier, more positive than the foot switch. May be connected in series with foot switch, having both. 1.1st, \$1.00. Shipping wt., 8 oz.

**8K9043**—For all Fords. Net, each, 45c

## Wiring Assemblies



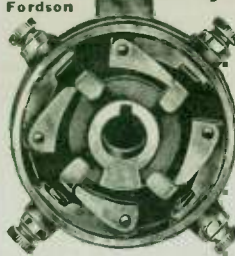
Replacement wire assemblies made to interchange with the genuine assembly. Assemblies furnished by the Ford Motor Company.

**8K9029**—4 wire for 1926.....27c  
**8K9030**—5 wire.....26c  
**8K9031**—6 wire.....36c  
**8K9032**—7 wire.....52c  
**8K9033**—Set 4 spark plug wires up to 1926.....17c  
**8K9034**—Spark plug wires for 1926, set of 4.....18c

For  
Fords  
Trucks  
Fordson

## The Fordynamo

Timer  
Guaranteed for  
1 Year



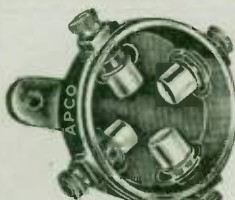
Oil less. Guaranteed for 1 year or 20,000 miles of unbroken service! Unquestionably the finest timer ever made. Built of the highest grade materials. Outer core is Bakelite, all working parts of brass, contacts and brush of special alloy commutator bronze. Built as a complete unit, like a generator. No rollers or raceway to wear down. Wiping contact action with full floating brush. Shell is waterproof and short proof. Shipping wt., 1 lb.

**8K9006**—For all Fords. List, \$2.50. Net, each.....\$1.65

## BullDogTimer

Low priced, but a really fine timer. Time tried and proven. Roller and Segment type of construction. No trick contacts or connections. Bone dry seasoned fibre. Hardened roller and shaft giving perfect bearing and long life. Shipping wt., 1 lb.

**8K9021**—List, 70c.  
Net, each.....36c  
Box of 10.....\$3.50



Apco  
Timer

A nationally advertised and highly regarded timer, priced much lower than you would expect for such quality. No vibration in this timer due to the round rotor which bears uniformly on contacts no matter how wobbly the shaft. Straight line contact constantly makes for perfect timing and minimum wear. Shipping wt., 1 lb.

**8K9027**—List, \$2.00.  
Net, each.....\$1.33  
Carton of 10.....\$12.50

## Generator Cut-Out



Complete with cover and mounting bracket. Prevents overcharging. Extra heavy throughout. Contact points of hard, clean-contact, non-pitting material.

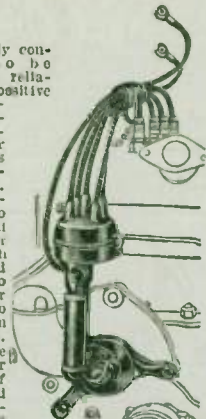
Fits all Fords. Shipping wt., 2 lbs.  
**8K9044**—List, \$1.00. Net, each, 49c  
Box of 6.....\$2.82

## Generator Brush Holder

A perfect replacement for Ford part No. 5132C. Accurately made and aligned to slip into place and insures smooth, unbroken service. A big bargain at our price.  
**8K9037**—  
Net, each.....28c  
Box of 10.....\$2.60



## ORIGINAL Ignition System



Generally considered to be the most reliable and positive performing ignition systems for Fords ever devised. Very similar to those used on other high priced cars. No rollers or raceway to wear down or short. Gets more miles per gallon of gas and oil. Eliminates most causes of overheating. Brings motor more powerful, easier running. Develops a hotter spark—makes starting easier, quicker acceleration. Substantially constructed. Hardened steel spiral gears running in grease. Steel distributor shaft, rotating in full 3 inch bearing raise head and wires away from dirt, oil and water. Genuine Bakelite distributor core—proof against water and short circuits. Can be easily installed without removing radiator. All brackets and wiring included. Operates on one single Ford coil unit. Shipping wt., 6 lbs.

**8K9025**—For battery use.  
**8K9026**—For magnets use.  
List, \$10.00. Net, each, \$5.98

## Ammeter for Fords



This ammeter will replace the meter used as standard equipment for Ford cars without making any changes. The low price quoted make it a big seller. It is a first-class instrument in every respect. Magnets are made of the best tungsten steel obtainable. Black enamel finish.

**8K9055**—For 1925 and older.....Each  
**8K9056**—For 1926-27 models.....38c

## Coil Points



Universal coil points are made of the best material and are interchangeable with the standard equipment used on Fords.

**8K9017**—1915-25.....8c  
**8K9018**—1925-27.....8c

## Genuine Kingston Spark Coils

Recognized as standard for all Ford cars since 1911. Strong de-veloped maple cases, oiled. The core and windings and the specially designed, patented contact points are guaranteed. We believe this the best Coil Unit for Fords made.



**8K9035**—List, \$1.50.  
Net, lots of 1 to 9.....\$1.09  
Lots of 10 or more, each.....\$1.05



## Drum Shape Head Lamps

for Fords

Body of heavy gauge steel finished in black enamel. Door rim is brass and fully nickel plated. Has a brass reflector highly nickel plated. Diameter, 9 1/2 in. Complete with special bracket, ready to attach to all Ford models.

8K9065—List price, \$6.00. Pair .....\$3.59



## Replacement Head Lamps

Illustration shows 1926-27 style complete with fender mount bracket. Black enameled with highly polished aluminum door with black striped inlay. 16-8 volt 21-2 C.P.

double filament. Silvered reflector; approved dimmer lens. Diameter, 9 in.  
8K9040—For 1926-27 models. List, \$7.50. Net, pair .....\$3.95  
8K9041—For models previous to 1926. List, \$7.00. Net, pair .....\$3.85

## Reflectors and Lamp Doors

For all models Fords 1915-1927.

Reflectors of brass, silver plated and interchangeable with regular equipment. Doors are heavy steel, black enameled.

8K9015—Reflectors. List, 75c. Net, each .....40c  
8K9016—Doors. List, 35c. Net, each .....15c



## Bullet Shape Head Lamps for Fords

Designed especially for Ford cars. Nicely black enameled with brass nickel-plated door. Legal lenses. Double silvered reflectors. Diameter, 8 1/2 inches; depth overall, 8 inches. D. C. 21-3 C. P. double filament bulbs included.

8K9067—List, \$9.50. Net, pair .....\$5.95  
8K9068—Bracket for 1915-25 models. Net, pair .....60c  
8K9069—Bracket for early 1926 and later. Net, pair .....90c

## Panel Lamps

New! Has 3/4 inch threaded blank which replaces upper panel bolt in a fit; connect wire to ammeter and job is done! Looks like factory installation. Nickel plated brass with switch.

8K9039—List, 70c. Net .....39c



**Panel Lamps for 1926-27 Models**

Clamp on switch and ammeter panel. No drilling or bolts necessary to install. Made of brass black enamel finish. Equipped with cable and terminal attachment.

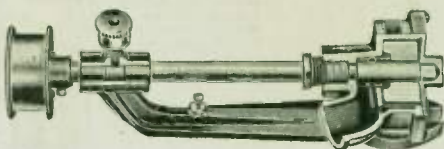
8K9046—For all models Ford prior to 1926, each .....39c  
8K9047—For 1926-27 Fords, each .....39c

# MILWAUKEE CIRCULATING WATER PUMP

**Finer Pumps at Prices All Can Afford to Pay**

Milwaukee Pumps are real centrifugal pumps, such as are built into higher priced cars. They assure perfect circulation. The large stuffing box at opposite end from main bearing is packed with Concaut Plastic Metallic Packing which bids goodbye to leaky water pumps. It also acts as an adjustable bearing at this point and is self-lubricating. Bunting Bronze Bushings in bearing at both ends of shaft. Extra large grease well in main bearing.

No extra horn bracket needed—the horn attaches direct onto the pump, practically in its original position without need of brackets or extra wiring. Belt included. Ship, wt., about 10 lbs. each.



8K9945—Milwaukee Standard for 1925 and earlier Fords. List, \$6.50. Net, each .....\$3.89

8K9946—Milwaukee Standard for 1926 and later Fords. List, \$6.50. Net, each .....\$3.89

8K9947—Milwaukee Bluebird for 1925 and earlier Fords. List, \$4.90. Net, each .....\$2.89

8K9948—Milwaukee Bluebird for 1926 and later Fords. List, \$4.90. Net, each .....\$2.89

## NORTH EAST Speedometer for Fords Rear-Wheel Drive



A full-sized, fine-looking instrument of distinctive design. A thoroughly dependable speedometer made by a reliable manufacturer. Accurate; compensated for temperature changes. 100,000 mile season, 100-mile trip odometer. Patented drive from rear wheels. Provides space for dash light at top (no light included). Complete with all installation parts. Fits all models 1925 on.

8K9131—List, \$15.00. Net, each .....\$9.75  
Lots of 10, each .....\$9.00

## A-C Speedometer for Ford Cars

This is the highly popular, nationally advertised speedometer universally accepted as the best. There is proof of the quality in the fact that they are used as original factory equipment on the better makes of cars. Fits all late models.

8K9125—List, \$10.00. Net, each .....\$6.95



## Clonick Water Pump



For all model T Fords. Generally considered one of the best made. Self-drawing. Finished in black enamel. Grease filler cup, stuffing box nut, screws, etc., heavily copper plated to resist rust. Shipping wt., 11 lbs.

8K9949—List, \$2.75. Net, each .....\$1.09

## Standard Water Pump



Extensive laboratory and road tests prove that perfect circulation is assured at all engine speeds, with the Standard Water Pump. Overheating as well as excessive evaporation of alcohol and water are prevented. Details for \$3.00.

8K9137—Net, each .....90c  
Ten for .....\$8.80

## Fenders for Fords



Heavy gauge steel. Perfect fit guaranteed in every way. Same style, original factory equipment, finished with two coats of high grade gloss black enamel. All holes drilled in exact position for quick installation. State year and model.

8K9950—All models, 1917-19, Front, Pair .....\$ 6.40

8K9951—Coupe, 1924-25, Rear, Pair .....5.87

8K9952—Tudor, Fordor Sedan, 1924-25, Rear, Pair .....5.74

8K9953—Coupe and Roadster, 1926, Rear, Pair .....6.07

8K9954—Sedan and Touring, 1926, Rear, Pair .....6.07

8K9955—All models, 1926-27, Front, Pair .....7.87

8K9956—Coupe, 1924-25, Per set .....11.00

8K9957—Sedan, 1924-25, Per set .....10.94

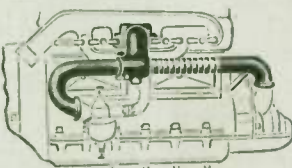
8K9958—Sedan and Touring, 1926, Per set .....12.87

8K9959—Coupe and Roadster, 1926, Per set .....12.87

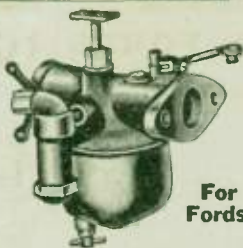
## Save Oil and Gas With This Manifold

One end is inserted into carburetor, other end into breather. Body clamps tight against exhaust manifold, producing effect of hot spot. When motor is started, partial vacuum is created in crankcase, thus stopping oil leaks. Automatically picks up escaping gas, thus eliminating dilution. Saves every particle of gas—no waste. Pre-heating of air provides better vaporization—more power, more miles to gallon, smoother running, practically no carbon. Installed in 10 minutes with no special tools. Guaranteed for life of motor. Pays for itself many times over in saving of gas and oil.

8K9097—List, \$5.00. Net, each, \$2.85  
Lots of 6, each .....\$2.75



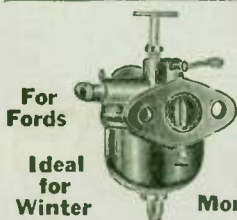




For  
Fords

## Kingston Carburetor

For all model Fords, the new improved type with special gasoline strainer to filter the low grade gasoline now in use. Makes a big difference in the running of your motor and the mileage delivered per gallon. Strainer is easy to get at for cleaning; standard equipment on most Ford cars. Shipping wt., 4 lbs. each.  
**8K9005—Net price .....\$2.90**



For  
Fords

**Ideal for Winter** **Quicker Starting**  
**More Power**

**Simmon's Super Power Carburetor**

This perfectly engineered carburetor, designed and built by skilled combustion engineers has many special features. One is an inbuilt electrical heating unit, to be connected to the battery and preheats fuel for cold weather starting. Another special feature is the extra volume of mixture passing to engine. One needle valve control. Smoother operation is obtained by using one fuel chamber. Creates more power, accelerates quicker, runs smoother regardless of load. Guaranteed. Shipping wt., 3½ lbs.  
**8K9130—List, \$5.00.**  
**Net, each .....\$2.75**



## Cylinder Head Gaskets for Fords

Superior in every way to the ordinary gasket. Outer wall of tough pliable copper. The edge of the asbestos is not exposed but is completely covered and overlapped with heavy copper. Shipping wt., 1½ lbs. each.  
**8K9108—Net, each .....20c**



## Flanged Gaskets for Fords

2-in-1 type. For intake and exhaust manifolds. Fit perfectly. Heavy copper reinforced center rim.  
**8K9112—Each .....2c**  
**100 Lbs .....\$1.78**



**3-in-1 Manifold Gasket**

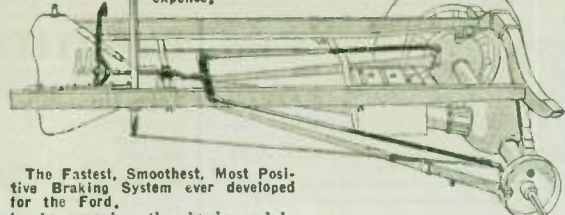
Two of these used in manifold take care of all intake and exhaust pipe openings. Flanges are adjustable to take care of warping. Shipping wt., 3 lbs. each.  
**8K9110—Each .....8c**  
**Lot of 50 .....7c**

## ZIM Triple Brake Action for Fords

A combination of rear wheel and transmission brakes, applied at the same time by simply pressing the brake-pedal. Fast, smooth, quiet, equalized brake action. Chatter is eliminated and side skidding done away with. Ford owners will quickly realize the advantages of these wonderful new brakes. Installed easily with a Ford wrench and a pair of pliers. The complete assembly consists of shaft arm, special brake pedal, set of auxiliary brake straps, pull rods and equalizer arms. This is perhaps the safest, most reliable brake for Fords ever devised. It is the nearest approach to 4-wheel brake safety produced.  
**8K9173—List price, set, \$9.00. Net price, set.....\$4.50**

Safety is Assured in Traffic or on Highway.

All chatter is eliminated—Patented Aug. 31, 1926, adding years to the life of the car and reducing upkeep expense.



## APCO Specialties for Ford Cars

### Oiling System



Provides an auxiliary pipe outside the motor so that if regular pipe is clogged motor is still supplied with oil. We believe this to be the best of the auxiliary Ford oiling systems. Nationally advertised and very popular. Shipping wt., each, 1½ lbs.  
**8K9163—For 1925 and earlier Fords.**  
**8K9165—For 1926-'27 Fords.**  
**List, \$1.50. Net, each.....75c**  
**Carton of 10, any assortment .....\$7.00**



### Crank Case Repair Arm

Made of boiler plate steel, black enameled. Can be applied to all models with ease. A very popular repair item. Shipping wt., 2 lbs.  
**8K9167—List, 75c. Net, each.....40c**  
**Carton of 10.....\$3.60**



### Truck Steering Column Brace

All open cab one ton Ford trucks have trouble with steering column loosening up. This extra long, heavy APCO brace insures a solid, rigid column. Shipping wt., 2 lbs.  
**8K9166—List, \$2.00.**  
**Net, each .....\$1.33**  
**Carton of 10.....\$12.50**



### Anti-Rattlers

Note attractive hexagon shape. Adjustment easily made with screw driver. No cotter pins to remove. Stronger springs. Kills all rattles.  
**8K9198—For Radius Rod.**  
**8K9199—For Steering Rod.**  
**List, 35c. Net, each.....26c**



Forming a safety cushion against vibration. It steadily loosens every part and speeds the vibration toward the junk heap. This wonderful device has a heavy iron yoke that rests against motor head where vibration is greatest. Two strong steel struts reaching to the frame of car hold this yoke firmly in place. The upper end of these struts rest against stiff springs, which are inside yoke, thus forming a safety cushion against vibration. The tension is controlled by nut on threaded end of strut to provide a fine adjustment. Installed by anyone in 15 minutes—nothing to it! Is not in way of any other parts and does not interfere with motor operation.  
Makes smoother, more economical, quieter operation and actually adds power to the engine. Try it 10 days and you would never be without it. Shipping wt., 6 lbs.  
**8K9169—For all model Fords. List, \$3.00. Net, each.....\$2.00**  
**8K9200—For Chevrolets (not illustrated) similar to Ford. Model except provides a complete new water outlet. Shipping wt., 13 lbs. List, \$5.00. Net, each.....\$3.40**

### Throttle Extension Horn Button



Horn button always at finger's tips. Slips on gas lever. Easily installed and stays put. A very fast seller. Shipping wt., 3 oz.  
**8K9138—List, 60c. Net, each.....38c**  
**Carton of 10.....\$3.50**



### Horn Button 137

Fits all types locking wheels as well as regular. Highly finished in all nickel. Splendidly made in every way. Shipping wt., 8 oz.  
**8K9172—List, 60c. Net, each.....29c**  
**Carton of 10.....\$2.70**

### Steering Post Horn Button 138

A low priced quality button. Several million now in use. Mechanically perfect. Splendid value. Shipping wt., 8 oz.  
**8K9174—List, 35c. Net, each.....20c**  
**Carton of 10.....\$1.80**



### Fan Belt Guide

Adjustable and correct. Installation is easy and no further attention required. Belt can never come off. Shipping wt., 8 oz.  
**8K9179—List, 15c. Net, each.....10c**  
**Special display stand of 10 .....90c**

### DeLuxe Shimmy Stop



Steadies steering, stops rattles, takes out road wobble, saves tires and wheels true to road. Adjustable to tension. Shipping wt., pair, 1 lb.  
**8K9186—List, \$1.00.**  
**Net, pair .....70c**  
**Carton of 10 pairs.....\$6.50**

## Giant Anti-Vibrator for Ford and Chevrolet

The greatest enemy to car life and riding comfort is vibration. It steadily loosens every part and speeds the vibration toward the junk heap. This wonderful device has a heavy iron yoke that rests against motor head where vibration is greatest. Two strong steel struts reaching to the frame of car hold this yoke firmly in place. The upper end of these struts rest against stiff springs, which are inside yoke, thus forming a safety cushion against vibration. The tension is controlled by nut on threaded end of strut to provide a fine adjustment. Installed by anyone in 15 minutes—nothing to it! Is not in way of any other parts and does not interfere with motor operation.  
Makes smoother, more economical, quieter operation and actually adds power to the engine. Try it 10 days and you would never be without it. Shipping wt., 6 lbs.  
**8K9169—For all model Fords. List, \$3.00. Net, each.....\$2.00**  
**8K9200—For Chevrolets (not illustrated) similar to Ford. Model except provides a complete new water outlet. Shipping wt., 13 lbs. List, \$5.00. Net, each.....\$3.40**



# REPAIRS AND SPECIALTIES FOR FORDS

## Connecting Rod



Duplicate of Ford Part No. 3024. Drop forged. Correct weight.

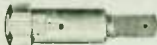
Properly machined. Babbitt bearing. Fits perfectly. Shipping wt., 2 lbs.  
**8K9113**—Net, each.....90c



## Spindle Bolt

Replaces part No. 2710A. Without oiler. Tapped for grease cup or Alenite point. List, 15c. Ship. wt., 1 lb. each.  
**8K9100**—Net, each.....9c  
Box of 10.....80c

## Spindle Con. Rod Bolt



Replaces part No. 2718A. Without oiler. Tapped for grease cup or Alenite point. List, 12c.  
**8K9101**—Net, each.....8c  
Box of 10.....70c



## Spindle Body Bushing

Replaces part No. 2713. Bronze. Ship. wt., 8 oz. each. List, 10c.  
**8K9105**—Net, each.....6c  
Box of 10.....50c

## Differential Thrust Plate



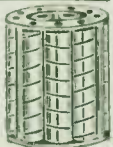
Replaces part No. 2528X. Bronze metal. Ship. wt., 1/2 lb. each. List, 35c.  
**8K9107**—Net, ea. 17c  
Box of 10.....\$1.60



## Front Hub

Replaces part No. 2803B. Complete assembly, roller bearings. Ship. wt., 7 1/2 lbs. each. List, \$1.80.  
**8K9109**—Net, each.....96c  
Box of 6.....\$5.70

## Roller Bearing



Replaces part No. 2508. A x 1/2 shaft roller bearing. Ship. wt., 2 1/2 lbs. each. List, 75c.

**8K9111**—Net, each, \$3.9c  
Box of 10.....\$3.80



## Spindle Arm Bushing

To replace Ford part No. 2711. Made of bronze.  
**8K9134**—List, 5c each. Net, box of 10.....25c



## Valves

High grade valves for Fords. Heat treated. Fit perfectly and will give excellent service. Shipping wt., each, 8 oz.  
**8K9118**—List, 25c.  
Net, each.....9c  
Box of 8.....65c

## Counter-balanced Crank-shaft



Made of one piece drop forged alloy crank steel. Counter-balances are integral part of shaft itself. Perfect running balance, eliminating vibration and motor noise. Engine runs smoothly at all speeds. Shipping wt., 25 lbs.  
**8K9115**—List, \$19.00. Net, each, \$9.98

## Adjustable Bearing Cap



For Fords. Provides instant take-up of wear, absolutely eliminating all end play in crank shaft. Improves ignition. Ship. wt., 3 1/2 lbs. each. List, \$3.75.  
**8K9090**—Net, each.....\$2.35

## EVERTITE

### Automatic Take-Up Connecting-Rod Bearing Bolts



Enable any mechanic to do a perfect bearing take-up job guaranteed against connection rod bearing knocks for 50,000 miles. Cushion the bearings. If crankshaft is out-of-round no retiming is necessary when EVERTITES are installed.

Shims are done away with, allowing oil to continually lubricate crankshaft. Puts new life in old motors by assuring smooth running bearings and quiet motor. As bearing wears a special coil spring automatically takes up the play. Installation is simple and easy, no need to scrape bearings. Anyone can do a perfect, easier job with Evertites. Every set positively guaranteed for 50,000 miles. Shipping weight, 6 pounds.

**8K9119**—Set of 8 3/4"x2 1/2" inch bolts for all Fords, Chevrolets, 1925-'27, Pontiac, Star, Studebaker Big 6 and other cars. List, \$3.75. Net.....\$2.25

## 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. Shipping weight, 4 lbs.

**8K9132**—For all Fords. List, \$3.50. Net, each.....\$2.10  
**8K9133**—For Chevrolets. List, \$4.00. Net, each.....\$2.40



## Leak Proof Grease Retainer

Asbestos packing ring is automatically held tight against a x 1/2 shaft by a coil spring and a cork gasket makes end of housing grease-tight. Installed simply by pulling off old retainer. Shipping wt., 8 oz.

**8K9140**—For all Fords. Net, each, 48c  
**8K9141**—For Ford trucks. Net, each.....48c

## Genuine ZIM Engine Support



Braces motor, minimizing vibration, making smoother running. Prevents breaking crank case arm. Made of pressed steel. Equipped with bolts and nuts for installation. Installation is very simple. Ship. wt., 7 lbs. each. List, \$2.00.  
**8K9182**—Net, each.....69c  
Pkg. of 6.....\$4.00



## "Ford" Wrench

Duplicate of Ford standard equipment. Specially designed for spark plugs and cylinder head bolts. Drop forged. Ship. wt., 1 1/4 lbs. each. List, 40c.  
**8K9187**—Net price.....20c

## Duro Spring Rebound Check

Smooths the rebound and checks side sway; does not affect downward spring action. Has heavy durable web strap, together with strong flexible spring. Strong U-bolts for quick simple attachment to body and axle, as illustrated. Mention model of Ford. Ship. wt., 3 lbs. each.  
**8K9175**—1917-'25  
**8K9176**—1926-'27.  
Net price, pair.....\$1.15



## Hub Caps



Exactly like standard equipment. Finest brass heavily nickel plated with cut in threads. Fits all models. Shipping wt., ea., 8 oz.

**8K9149**—List, 15c. Net, each., 9c

## Hub Lubricator Caps



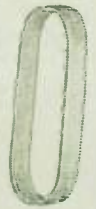
Special alloy metal brightly polished and finished in carmine, supplied with genuine Alenite fittings. High pressure lubrication in two minutes. Every Ford and Chevrolet car needs a set. Ship. wt., 1 1/2 lbs. each.  
**8K9158**—For Fords. List price, 85c. Net price.....57c  
**8K9159**—For Chevrolets. List price, 95c. Net price.....60c



## Special Ratio Gears

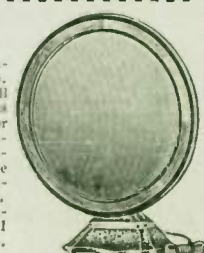
Guaranteed a perfect replacement. Exceptionally large rolling surface. Milwaukee are nationally known and are considered the standard Ford replacement gears. Teeth correctly formed, eliminating all noise. Shipping weight, 4 lbs. each.  
**8K9010**—2 1/2 to 1 ratio.  
**8K9011**—3 to 1 ratio.  
**8K9012**—Power gears, 4 to 1 ratio.  
Set.....\$4.30

## Fan Belts



Oil, heat, water proof. Endless fan belts are the best and the most serviceable for Fords. Made of finest 8-ply first grade fabric—will not stretch. No stitching or rivets used. Shipping weight, 1 lb. each.  
**8K9150**—1917-'20. Dozen.....13c  
Each.....\$1.44  
**8K9151**—1921-'25. Each.....13c  
Dozen.....\$1.44  
**8K9152**—1926-'27. Each.....17c  
Dozen.....\$1.92

## Claravox Speaker



One of the finest cones made. Clear, rich, full reproduction as you have never before heard. Accepts extra voltage of power tube operation without distortion, muffling or blasting. Overall height 10 1/2 in., diameter 16 1/2 in. Silk grille. Black and gold crackle finish. Shipping weight, 10 lbs.  
**2K5096**—List, \$35.00. Net., \$21.00  
Other Speakers, Pages 29-36.



# Quality Garage & Shop Tools

## Goodell-Pratt Thickness Gauge



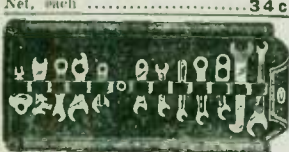
Sets valve tappets, spark plug shims, gauging shims, clearances, etc. It has 6 leaves, .002, .003, .001, .005, .010, and .015" thick. Leaves are 2 1/2" long by 1 1/2" wide, and are held together by a screw and nut which may be removed for inserting or replacing leaves.

**3K8800**—Ship. wt., 8 oz. each. Last price, 75c. Each, 50c. Lots of 6, each, 48c.



## Improved Howard Thickness Gauge

Long 9 inch angle handle enables workman to reach difficult places. Six blades: .002, .001, .006, .008, .010, .012. Shipping wt., 8 oz. **3K8804**—List, \$1.00. Net, each, 34c.



## Ignition Tool Set

This handy folding Wrench Kit has been on the market only a short time and has won great favor among the repair and garage men. They are great sellers.

This kit contains the following wrenches: Mea Magneto, Bosch Magneto, Esenau Magneto, Spittord Magneto, K. W. Magneto, Connecticut Distributor, Deleco Distributor, Delco Old Style Distributor, Remy Distributor, Remy Cam Lifter, Ford Switch Key, Thickness Gauges, Leather Kit.

**3K8812**—List, \$2.00. Net, each, 68c.

## Tungsten Contact Point Files

Very high grade 6-in. files, especially made for filing tungsten and medium points. Packed in boxes of 12. Ship. wt., 8 oz. each. **3K8833**—List, 15c. Each, 9c. 100, lots, each, 8c.

## Ford Wrist Pin or Piston Pin Bushing Reamers

Watervliet made of highest grade tool steel, specially treated. Spiral fluted. Every one guaranteed. Shipping wt., 1 lb.

**3K8807**—No. 30224—Standard—.148  
**3K8808**—No. 30224—.005 oversize—.148  
**3K8809**—No. 30224—.005 oversize—.148  
**3K8810**—No. 30224—.010 oversize—.148  
**3K8811**—No. 30224—.015 oversize—.148

## 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 for No. 2714 spindle arm bushing. We recommend the 8 flute type for better results. Shipping wt., 1 lb.

**3K8805**—No. 2712-14, 8 1/2 x Flute. List, \$1.90. Net, each, \$1.02  
**3K8806**—No. 2712-14, 8 1/2 x Flute. List, \$2.50. Net, each, \$1.35

## Famous Watervliet Reamers

Approved by Buick, Durant, and other Leading Car Manufacturers

"They Will Not Chatter!" A mechanically perfect tool. Generally considered by automotive engineers as the most satisfactory reamers made. It does not pay to equip with other than the best of tools—they are the cheapest in the end!

**SERVICE** Watervliet Spiral Expansion Reamers will be resharpened at factory for service charge of only \$1.00. Expansion: Under 3/4 inch expand from Standard to .007 oversize; from 3/4 inch to 1 1/2 inch inclusive, expand from Standard to .013 oversize; 1 1/2 inch to 2 1/2 inch expand from Standard to .018 oversize.



## Spiral Expansion Aligning Reamers

Special Tungsten Steel—tempered electrically to take and hold a quick cutting edge. A combined boring and reaming tool. Has self-cutting pilot to do rough cutting leaving spiral reamer to do reaming only. This means a perfectly aligned smooth job with speed. Works with shearing motion—no chattering—only a smooth mill-like surface. Simple adjustment makes changing easy and quick. A lock nut insures against overexpanding. Each packed in tube container with screw top for permanent use. Shipping wt., 1 to 3 lbs.

Our No.	Factory No.	Diameter	Length	Length Pilot	Net
3K8813	608PE	.068"	8"	2 1/2"	\$7.29
3K8814	686PE	.068"	8"	2 1/2"	\$7.29
3K8815	734PE	.068"	9"	2 1/2"	\$8.10
3K8816	30224PE	.710"	9"	2 1/2"	\$8.10
3K8817	750PE	.710"	9"	2 1/2"	\$8.10
3K8818	812PE	.850"	9"	2 1/2"	\$8.64
3K8819	850PE	.850"	9 1/4"	2 1/2"	\$8.11
3K8820	858PE	.858"	9 1/4"	2 1/2"	\$9.18
3K8821	874PE	.874"	9 1/4"	2 1/2"	\$9.99
3K8822	968PE	1"	10"	2 1/2"	10.26
3K8823	999PE	1"	10"	2 1/2"	11.89
3K8824	1093PE	1 1/8"	10 1/2"	2 1/2"	12.42
3K8825	1125PE	1 1/8"	10 1/2"	2 1/2"	12.42



## Spiral Expansion Hand Reamers

Watervliet made of special tungsten steel, insuring a uniform, permanent, quick cutting edge. Won't chatter or "dig in." Cut with a shearing smooth motion, positively will not jump. Especially desirable for holes with Key-way or oil grooves.

Our No.	Diameter Inches	Length Over All Inches	Length Flute Inches	Net Price
3K8826	.068	6 1/2"	2 1/2"	\$4.76
3K8827	.068	6 1/2"	2 1/2"	4.76
3K8828	.068	6 1/2"	2 1/2"	5.21
3K8829	.068	6 1/2"	2 1/2"	5.21
3K8830	.068	6 1/2"	2 1/2"	5.66
3K8831	.068	7 1/2"	3 1/2"	6.23
3K8832	.068	7 1/2"	3 1/2"	6.23
3K8833	.068	8 1/2"	3 1/2"	7.01
3K8834	.068	8 1/2"	3 1/2"	7.28
3K8835	.068	8 1/2"	4 1/2"	8.66
3K8836	.068	8 1/2"	4 1/2"	8.66
3K8837	.068	8 1/2"	4 1/2"	8.66



## Spiral Valve Stem Guide Reamers

With Pilots. For reaming standard and oversize valve stem guides. Watervliet quality—every reamer guaranteed. Spiral flutes prevent chattering or "digging in." Won't jump. Cut easily and smoothly. Self-cutting pilots. Shipping wt., each, about 8 oz.

Our No.	Size	Price Net
3K8838	3/4 inch standard	\$1.69
3K8839	3/4 inch for 1 1/4 inch oversize	1.69
3K8840	1 1/4 inch standard	1.76
3K8841	1 1/4 inch standard	1.80
3K8842	1 1/4 inch for 1 3/4 inch oversize	1.80
3K8843	1 3/4 inch standard	1.80
3K8844	1 3/4 inch for 2 1/4 inch oversize	1.91



**Adjustable Reamers Without Pilots**  
Diamond blade type. Watervliet quality. Extra fine threads. Shipping wt., 1/2 to 2 lbs.

Our No.	Range of Expansion	Length over all, in.	Length blades, in.	Net Price
3K8852	1 1/4 (368) to 1 1/4 (531)	5 1/2"	2"	\$2.99
3K8853	1 1/4 (531) to 1 1/4 (593)	6"	2 1/2"	2.99
3K8854	1 1/4 (593) to 1 1/4 (636)	6 1/2"	2 1/2"	3.20
3K8855	1 1/4 (636) to 1 1/4 (718)	7 1/2"	2 1/2"	3.20
3K8856	1 1/4 (718) to 1 1/4 (781)	7 1/2"	2 1/2"	3.37
3K8857	1 1/4 (781) to 1 1/4 (843)	8"	2 1/2"	3.71
3K8858	1 1/4 (843) to 1 1/4 (937)	8 1/2"	3"	3.91
3K8859	1 1/4 (937) to 1 1/4 (1062)	9"	3 1/2"	4.72
3K8860	1 1/4 (1062) to 1 1/4 (1187)	10"	3 1/2"	4.72

## Lock Washers



Quality blue steel lock washers. Assorted sizes. **3K8801** Box ....8c 12 boxes, 84c

## Cotter Pins

Extra strong spring cotter pins. Assorted sizes. Ship. wt., 3 lb. each.

**3K8802** Box .....7c Dozen boxes, 72c



## Castellated S. A. E. Nuts



This can contain assortment of castellated S. A. E. nuts. Finely finished. Shipping

wt., 8 oz. **3K8861**—List, 60c. Net, can, 29c. Carton of 12 cans, \$3.00

## Hexagon Nuts

Assortment of hexagon nuts in most used sizes.



**3K8862**—S. A. E. threads. List, 50c. Net, can, 27c  
**3K8863**—Standard thread. List, 50c. Net, can, 27c  
**3K8864**—Ass'd iron machine hexagon nuts of good quality. Sizes: 1/2, 3/4, 7/8, 1, 1 1/8, 1 1/4, and 1 1/2. List, 60c. Net, can, 29c



## Stove Bolts

28 assorted flat head stove bolts in handy sizes, 3/16 to 1 inch.

**3K8865**—List, 45c. Net, can, 22c. Carton, 10 cans, 85c  
**3K8866**—Same, except Round Head. List, 45c. Net, can, 22c. Carton, 10 cans, 85c  
**3K8867**—46 ass'd iron machine screws, sizes 1/2 to 1 1/2 inch. List, 45c. Net, can, 22c



**Taper Pin Reamers No. 654**  
Watervliet made and guaranteed. Finest quality. It pays to use Watervliet! Shipping wt., 8 oz.

Our No.	Diam. Over Flutes, Inches	Price, Each.
3K8870	.114 2 1/2"	\$0.81
3K8871	.127 2 1/2"	.60
3K8872	.146 2 1/2"	.60
3K8873	.162 2 1/2"	.75
3K8874	.185 2 1/2"	.90
3K8875	.208 4"	1.05
3K8876	.249 4 1/2"	1.20
3K8877	.279 5"	1.35
3K8878	.331 6"	1.50
3K8879	.398 6 1/2"	1.80



**Repairman's Reamer No. 704**  
Watervliet made and guaranteed. Shank fits ordinary hawse. Straight flute. Shipping wt., 8 oz.  
**3K8868**—No. 5; 3/4 in. diam. small end, 1 1/2 in. large end; 4 1/2 in. flutes. Net, ca, \$1.35  
**3K8869**—No. 6; 1 in. diam. small end, 1 1/2 in. large end; 4 1/2 in. flutes. Net, ca, \$1.68





### Improved Duro Valve Grinder

Especially fast, easy running valve grinder. Fitted with ball-bearings, so that little effort is required to do a quick, effective job. Reaches every valve, grinds smoothly and evenly and will last a lifetime. Chuck attachment, as shown, with extra fittings. Shipping wt., 2 lbs.

**8K9727**—List, \$2.50, Net, \$1.65

### 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. Guaranteed against breakage for one year. Fits all cars. Shipping wt., 1 1/2 lbs.

**8K9511**—List, \$2.50, Net, each, \$1.67



### Valve Lifter

All steel valve lifter stamped from heavy gauge steel. Has locking ratchets with spring tension.

**8K9734**—List price, 55c, Net price, 25c

### Valve Refacing Lathe

For All Size Valves. A few minutes' work with this tool will produce a clean and true seating surface on your valves. The valve is held in perfect alignment by a rigid clamp, so designed that the main strain comes directly into a fixed V-block. Set-screw in the crank has a pivoted shoe which prevents all defacing of valve stems. Carefully manufactured of very best materials. Black enamel and bright steel finish.

The cutter can be easily ground or replaced and is backed up by fixed stops which hold it exactly at a 45 degree angle.

The lifter is simply held in a vise by its toes, which puts it in the most convenient position both for turning the crank and for observing the operation on the valve. Shipping wt., 1 1/2 lbs.

**8K9512**—Each \$1.30

### Valve Seat Reamer

For All Cars

An Improved patented Reamer. 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, and will always hold to a perfect circle. The simple tool steel cutter can be easily ground or replaced, and being supported at the outer end by the cone, cannot vibrate or chatter. The smoothness, the correct angle and the roundness of the valve seat can be maintained more accurately than by any tool having a number of cutters. Will ream all sizes of valve seats.

**8K9513**—Each \$1.45



### Sunnen's Spring Compressor



For all cars. Absolutely needed on Studebaker Standard Six. Makes valve grinding jobs better and faster. Made of high-grade cold rolled steel and has lacquer finish, to prevent rusting. A wonder tool on Dodge, Essex, Star and all continental motors. Shipping wt., 2 lbs.

**8K9514**—List, \$3.80, Net, complete with 6 clips, \$2.49

**8K9515**—Set of 6 extra clips, List, \$1.00, Net, \$1.65

### Wheel Puller for All Cars

Pulls the wheel in one-third of a minute. Will pull all sizes of wire wheels. Does not damage axle. Remove axle nut, screw on the Wheel Puller, strike with hammer and the wheel comes off. Constructed entirely of solid steel milled out of the solid bar.



**8K9746**—Fits Ford and Chevrolet 490. **8K9747**—Fits Chevrolet, F. B. Dorr, Franklin, Maxwell and Moon.

**8K9748**—Fits Chalmers, Chandler, Cleveland, Columbia Empire, Essex, Ford Ten Truck, Grant, Hudson, Lexington, Monroe, Mitchell, Nash, Oakland, Oldsmobile Six, Packard, Roamer, Stevens, Studsbaaker, Vette, Westcott, Templar.

Each \$3.00

### Steering Wheel Puller

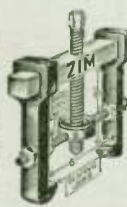


Here's a fine tool made for the job. Will quickly bring out the most stubborn wheel on any car. No possible injury to the wheel. Made of high test malleable iron, with carefully machined screw.

**8K9740**—Each \$95c

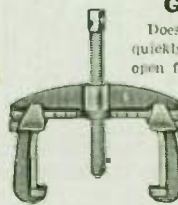
### Gear Puller

It is made of steel with slotted head. Designed especially for removing gears which are drilled and threaded for removal and can only be removed by stud bolts. Cross beam 6 in. White nickel finish. Used exclusively by many of the largest manufacturers of motors.



**8K9742**—Each \$3.40

### Gear Puller



Does the toughest job quickly and easily. Jaws open from 4 to 6 inches.

Sturdily built of fine forging with tool steel points.

**8K9744**—List price, \$3.25, Priced Special \$2.00

### Wheel Puller

For removing rear wheels on Ford Cars. To prevent stripping of threads puller is split and fitted with a binding screw.



**8K9189**—Each \$3.00

Lots of 6, each, \$3.25

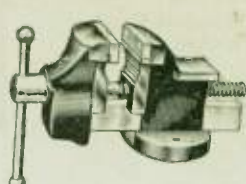
### Terminal Puller



For removing terminals from batteries and pulls all small generator and magneto bearings, distributor gears and shaft couplings. Ideal for pulling commutator in-bearings on Ford generator. Strongly made of finest materials, and will last practically a lifetime. Shipping wt., 8 pounds.

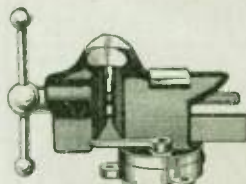
**8K9592**—List, \$3.50, Net, each, \$2.35

### Garage Vise



Heavy black finish with red trimmings. Jaws 3 1/2 inches wide, open 3 1/2 inches. Removable pipe jaws take up to 1 1/2-inch pipe. Screw of cold rolled steel. Heavy sliding bar of solid wrought steel. Stud and wing nuts furnished for attaching to bench. Weighs full 13 lbs. A very fine vise and a remarkable value. Shipping weight, 13 lbs.

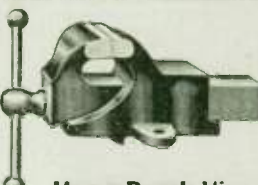
**8K9799**—List, \$5.00, Net, each, \$1.75



### Swivel Vise

Jaw, 3 1/2 inch. Cold rolled steel jaw and handle. For hard work and workshop use. Built strong and sturdy with plenty of weight for its size. Opens to 4 inches and weighs 19 1/2 lbs. Positive sliding beam screw, patented swivel base to work from any angle.

**8K9595**—Net \$4.63



### Heavy Bench Vise

A big, burly vise that will take care of practically all work in the garage and shop. Has square slide and inserted steel jaws. Handle and screw of cold rolled steel. Full polished face and anvil. A most remarkable value at this special price. Weighs full 22 lbs. Jaws 3 1/2 inches wide, open 3 1/2 inches. Shipping weight, about 25 lbs.

**8K9836**—List, \$7.50, Net, each, \$3.85



### Steel Tool Box

BLACK ENAMEL METAL TOOL BOX, size 22x7x9 inches for running board. Fitted with good lock and catches. Long enough to hold pump and most all other tools. Very strong and durable.

**8K9726**—List price, \$2.50, Each \$1.69

Lots of 6, each, \$1.65



### Lightnin Sleeve Puller

The fastest working sleeve puller made; works with or without the axle in the housing. A two-in-one tool, as small end pulls pleasure car sleeve and other end pulls one-ton truck sleeve. Saves cost and bother of having two separate tools. Made of steel with detachable lever handle as shown. Shipping wt., 7 lbs.

**8K9593**—List, \$3.50, Net, each, \$2.69



**Indestructible Ball Joint Hose**



**"Grease-So-Fast"**

**High Pressure Grease Gun**

Unquestionably the most efficient, handiest grease gun ever devised. A special feature is the filling by suction.

An ideal gun for small shop and garage use, for automobiles, trucks, tractors and machinery. Capable of generating 10,000 lbs. or more pressure per square inch. Adaptable to all systems of lubrication. Equipped with indestructible (Universal) ball joint steel pipe leak-proof hose. Made of the finest materials in everlasting rustproof finish. Couplers can be had for Alemite, or Dot systems, as listed below. (None are furnished with gun.) Shipping wt., about 6 lbs.

**SK9735**—Heavy Duty (shop type) Grease Gun only. List, \$20.00, Net, .....\$10.00

**SK9738**—Junior Model (car driver's type). Shipping wt., 2 1/2 lbs. List, \$7.50, Net, .....\$4.95

**SK9737**—Coupler for Alemite System. Net, each, .....60c

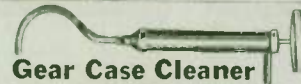
**SK9739**—Coupler Dot System. Net, each, .....\$1.00



**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.

**SK9714**—Net, each, .....45c  
Duz. lbs., each, .....42c



**Gear Case Cleaner**

Pumps dirty, worn-out grease from differential and gear housing. Good hook-point reaches bottom of all housings, and grease is pulled instantly through and out an outlet near handle by means of a special valve. A great builder of profits for the Service Station. Ship. wt., 3 lbs.

**SK9741**—List, \$3.50, Net, each, .....\$2.25



**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 40 inches long, 14 inches wide. Padded head-rest. Good quality, strong casters.

**SK9994**—Each, .....\$1.55  
Lots of 6, each, .....\$1.49



**Fender Repair Outfit**

For straightening fenders, removing dents in bodies, tanks, etc. Dullies made of semi-steel with a good, substantial hickory mallet. So designed that it will fit almost any fender curve, angle or groove. Can be used on flat surfaces, short bends or corrugations. Every fender repair man, radiator man, furnace man, tinner and sheet metal worker needs these handy tools. Set includes one mallet and two style fender tools. Shipping weight, about 5 lbs.

**SK9708**—Per Set, \$1.95

**Bench Grinder**

High speed, well made and handsomely finished Bench Grinder. Has accurately cut gears and easy running ball bearings. Equipped with a sturdy tool rest; 5-inch wheel.

**SK9700**—Net price, each, .....\$1.57

## ALEMITE

The Genuine Products

Known for their fine quality. Compressor C-600 suitable for car owner and small service stations. Holds enough grease to grease the standard car complete without refilling. One turn of handle pumps fresh grease through most stubborn joints. Shipping wt., 5 lbs.

**SK9689**—Compressor No. C-600. Net, each, .....\$2.39

**SK9697**—Standard Flexible Hose to fit, about 14 inches long. Complete with nozzle for regular Alemite fittings. Shipping wt., 1 1/2 lbs. Net, each, .....\$1.57

**SK9698**—Straddle Fittings, 1/2 inch pipe thread. Shipping wt., six, 1 lb. Carton of six, Net, .....63c  
Box of 25, .....\$2.50

**SK9699**—Elbow Fittings, 1/2 inch pipe thread. Shipping wt., six, 1 lb. Box of 10, .....\$1.90



**"SPEEDY" Air Brush**



A sturdy, light weight, well balanced air brush that is needed in every auto repair shop, paint shop and most manufacturing plants. It quickly and evenly spreads paints, lacquers, varnishes, auto to p. dressings, rust - proofings, and practically all protective and finishing coatings. Ideal for spraying kerosene and gasoline for washing motors and all greasy parts. Has newly invented automatic pressure regulator. Plated grip with trigger control permits continuous production without hand strain. Complete with 6 feet of best quality rubber hose with air connection. Will operate at air pressure from 50 to 150 pounds. Has two nozzles—one for large spray and one for small spray. Jar container in a standard mason jar, easily replaceable in case of breakage. Shipping weight, 5 lbs.

**SK9709**—List, \$15.00, Net, each, .....\$8.50

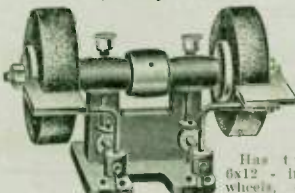


**Polishing Head and Bench Grinder**

Base of cast iron 3 in. x 7 in. Pulley 1 1/2 with 2 in. face. Arbor is of high carbon steel 3/4 in. x 12 in. long. Flanges hold wheels two to eight inches in diameter up to 1/2 in. thick with 1/2 in. hole. High grade ball-bearing bearings. Furnished with four lag screws for attaching to bench. Shipping weight, 12 lbs.

**SK9716**—List, \$7.50, Net, each, .....\$3.45

**Heavy Duty Grinder**



Has two 6x12 - inch wheels, one fine and one coarse grained, and two adjustable tool rests. Frame is 7 inches high, arbor 13 inches long, pulley 3 1/2 inches, operated by belt, Babcock bearings.

**SK9703**—List price, \$8.00, Net price, each, .....\$4.67

## Quality Hand Drills

Hollow Handle

Has wide, heavy single gear 3 1/2 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 3/4 in. diameter inclusive. Large handle is hollow with screw top, and holds a number of drills. Length over all, 10 1/2 in. Shipping weight, 3 lbs.

**SK9718**—List, \$2.50, Net, each, .....\$1.10



## Mechanics 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 finished in dark blue. Polished dark brown hardwood handle. Drill chuck fully polished with 11 chrome hardened jaws. Black enamel adjustable breast plate. Teeth wheels are encased to protect against injury to handle. Length, 18 inches. Black japany frame. Shipping weight, 7 1/2 lbs.

**SK9722**—List, \$5.00, Net, each, .....\$2.40



**Goodell-Pratt Automatic Drill**

A nationally advertised, very popular drill. Cuts quickly and makes clean holes in eight different sizes, 1/16 to 1/2 in. 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, 10 in. Shipping wt., 1 lb.

**SK9733**—List, \$2.50, Net, each, .....\$1.63

**Automatic Push Drill**

A very finely made little tool that will give extraordinarily good service. Nickel plated, knurled handle with eight drill points enclosed: 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2 and 5/8 in. Each in separate numbered compartment. Good quality chuck which holds the fluted drill points. Length, 10 inches. Shipping weight, 1 lb.

**SK9743**—List, \$2.00, Net, each, .....\$1.35

**Twist Drill Sets**

Straight shank carbon silver 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 1/16 inch) to No. 60 (about 1/2 inch). (Base block illustrated is not furnished.) Shipping wt., 1 lb.

**SK9730**—List, \$3.50, Net, each, .....\$1.95

Same quality drills as above in set of nine: 1/16, 1/8, 3/16, 1/4, 5/16, 3/8, 1/2 and 5/8 in. Shipping wt., 8 oz.

**SK9728**—Set of 9 Drills. List, 50c, Net, each, .....26c



**Star 8-In-One Socket Wrench**

Provides a full set of sockets instantly available in the most used openings for automobile repair work. Saves time and prevents loss of loose sockets. Works perfectly at any angle. Can't slip off and turn loose. Tested to 2,800 lbs. per square inch. Fully guaranteed against defect of material and workmanship. Highly nickel plated. Shipping weight, 2 lbs.

**SK9720**—List, \$1.50, Net, each, .....89c



# SUPERIOR BOG SERVICE QUALITY WRENCHES

## Superior Quality Bog Service Wrenches

These tools are made of the high quality hardened tool steel necessary to satisfy the mechanic who uses them daily on hard, tough jobs. Thousands of repair men have come to use them continuously after trying and discarding other makes that do not stand the gaff. Every socket accurately machined inside and out from solid bars of the finest quality steel. All wrenches finished in heavy satin nickel finish, with size of socket openings stamped on each wrench. The manufacturer unconditionally guarantees satisfaction and will replace any defective wrench free of charge.



### Master Socket Set \$5.95

32 Pieces \$5.95 Net

This all-purpose, general utility socket set places the repair man in a position to do wrench work on any car, tractor,

or truck. Set consists of following handles with 1/2 inch square shank, fitted with friction ball snap and an assortment of sockets to fit as shown:

1 Long Speed Handle, 1 Short Speed Handle, 1 Combination T. and L. Handle, 1 Ratchet Handle, 1 Long Extension Bar, 1 Short Extension Bar, 1 Universal Joint, 19 Hexagon Opening Sockets and 8 Square Opening Sockets, in following sizes: Hexagon Openings, 1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15, 15 1/2, 16, 16 1/2, 17, 17 1/2, 18, 18 1/2, 19, 19 1/2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32. Square openings, 1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15, 15 1/2, 16, 16 1/2, 17, 17 1/2, 18, 18 1/2, 19, 19 1/2, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32. Sockets and working parts made of finest steel, accurately machined, case hardened and tempered. All wrench handles have rust-resisting white nickel finish. Sockets, rich blue steel finish. Set comes in heavy metal compartment box with hinged lid. Shipping wt., 20 lbs. **BK8500**—Set complete. List, \$17.00. Net, each.....\$5.95

### Long Speed Wrench

Made from 1/2 inch round steel bars and has 1/2 inch square shank, fitted with friction ball to retain sockets. Rotating handle is knurled metal. Length over all, 19 inches. Fits all size 1/2 inch square type sockets. Satin nickel finish. Shipping weight, 2 lbs. **BK8501**—List, \$1.10. Net, each.....45c

### Short Speed Wrench

Satin nickel finish 1/2 inch round steel stock. 1/2 inch square shank with friction ball to hold sockets. Fits all size 1/2 inch square type sockets. Length over all, 12 inches. Shipping weight, 1 1/2 lbs. **BK8502**—List, \$1.00. Net, each.....42c

### Combination Tee and Offset Handle



Very strong, either as Tee Wrench, L or Offset Wrench—really four wrenches in one. Made of 1/2 inch square steel stock, white nickel finish and round knurled handle. Stock has friction ball in each end. Length, 10 inches. Fits all 1/2 inch square type sockets. Shipping weight, 2 lbs. **BK8503**—List, \$1.00. Net, each.....52c

### Universal Joint

Extra heavy Universal Joint made from solid steel bars, case hardened and tempered. Blue steel finish. Fits all 1/2 inch square shank handles and extension bars. Shipping weight, 1/2 lb. **BK8504**—List, 75c. Net, each.....39c



### Heavy Ratchet Handle

Exceptionally strong. Made for heavy work. Has large case-hardened and tempered ratchet. Fits all size 1/2 inch square type sockets. Length over all, 9 inches. Finished in white nickel. Shipping weight, 2 lbs. **BK8505**—List, \$1.50. Net, each.....65c

### Master Extension Bars

Made from 1/2 inch square steel bars. Fitted with friction ball in each end. Fits all 1/2 inch square type sockets. Satin nickel finish. Shipping weights, 8 oz. and 1 lb. **BK8506**—Length, 2 inches. List, 25c. Net, each.....13c **BK8507**—Length, 7 1/2 inches. List, 40c. Net, each.....22c

### Detachable Steel Sockets

Knurled. Blue steel finish. Size stamped on each. Guaranteed. For 1/2 inch square handles and nut openings, as listed. Shipping weight, 4 oz.

Opening Size, Inches	Opening Size, Inches
<b>BK8508</b> .....1/4	<b>BK8518</b> .....2 1/2
<b>BK8509</b> .....1/2	<b>BK8519</b> .....3
<b>BK8510</b> .....3/4	<b>BK8520</b> .....3 1/2
<b>BK8511</b> .....1	<b>BK8521</b> .....4
<b>BK8512</b> .....1 1/4	<b>BK8522</b> .....4 1/2
<b>BK8513</b> .....1 1/2	<b>BK8523</b> .....5
<b>BK8514</b> .....1 3/4	<b>BK8524</b> .....5 1/2
<b>BK8515</b> .....2	<b>BK8525</b> .....6
<b>BK8516</b> .....2 1/4	<b>BK8526</b> .....6 1/2
<b>BK8517</b> .....2 1/2	

List, 30c. Net, each.....12c  
Package of 10, any sizes.....\$1.10



### Utility Socket Set

High quality, car-users' or small-shop set. 6 Sockets, machine turned from high carbon steel, and case hardened. Will stand severe usage and give long service. Socket sizes: 1/4 in., 1/2 in., 3/4 in., 1 in., 1 1/4 in., and 1 1/2 in. Packed in a neat leatherette case. Ship. wt., 1 1/2 lbs. **BK8532**—Set complete with handle. List, 75c. Net, each.....39c

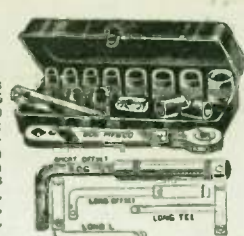
### Ratchet Socket Set



Contains 16 Hexagon Sockets—also a ratchet handle—a complete range of sizes, to handle all jobs: 1 Heavy Ratchet, 1 Universal Joint, 1 Short and 1 Long Extension Bar—20 pieces in all. Contained in a strong, black enameled metal box with catch. A very popular and widely used set. Ship. wt., 8 lbs. **BK8533**—List, \$7.50. Net.....\$3.00

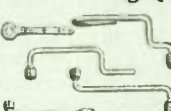
### Sophomore Socket Set

Consists of 15 pieces, as follows: 10 Sockets with hexagon openings, 1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15. 1 Heavy Ratchet, 1 Universal Joint, 1 Combination Tee and Offset Handle, 1 Short and 1 Long Extension Bar. All contained in a neat, black enameled steel box. Shipping weight, about 8 lbs. **BK8534**—List, \$9.00. Net.....\$3.30



## Ford Set

Low in Price, But Real Big Quality



Set consists of 5 wrenches in one frequently used on Ford cars: Double Socket Wrench, 1/2 and 3/4 inch Hexagon; Connecting Rod Wrench, 1/2 inch Hexagon; Fly Wheel Wrench, 1/2 inch Hexagon; Transmission Band Ratchet Wrench, 1/2 inch Hexagon; and Triple Socket Wrench with openings 1/2, 3/4, 1/2 and 3/4 inch. Shipping weight, 5 lbs. **BK8536**—Set complete. List, \$2.50. Net.....\$1.10

### Transmission Ratchet Wrench



For adjusting nuts on Ford transmission, reverse and break bands. Finely made of the best quality steel. Shipping weight, 1 lb. **BK8537**—List, 55c. Net, each.....21c



### Piston Ring Compressor

Adjustable for all size rings. So designed as to work equally well whether or not valves have been reamed. Assure pressure on entire circumference of ring and, therefore, cannot break ring. Fits all size rings from 2 1/4 to 4 1/4 inch diameter. Shipping weight, 1 1/2 lbs. **BK8538**—List, 60c. Net, each.....37c



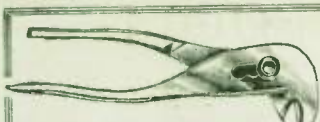
## Junior Socket Set

Handy, all-around repair kit for use on all cars, tractors, trucks and other machinery. Set contains 1 Combination Tee and Offset Handle; 9 Hexagon Opening Sockets, 1/4, 1/2, 3/4, 1, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, 3, 3 1/2, 4, 4 1/2, 5, 5 1/2, 6, 6 1/2, 7, 7 1/2, 8, 8 1/2, 9, 9 1/2, 10, 10 1/2, 11, 11 1/2, 12, 12 1/2, 13, 13 1/2, 14, 14 1/2, 15. Sockets case hardened and tempered. Wrench Handle finished white nickel; Sockets, rich blue steel finish. All in heavy metal, black enameled box. Shipping weight, 6 lbs. **BK8540**—List, \$3.50. Net.....\$1.50









### Parrot Head Adjustable Pliers

Drop forged from alloy steel, oil hardened and tempered. Highly polished and nickel plated over copper. Really combines a strong slip joint pliers with a powerful pipe wrench.



Makes difficult places easy to get at. A most useful tool for auto, battery, radio and shop work. Nicely made, fully guaranteed. Length, 7 inches. Shipping weight, 1 1/2 lbs. **SK9516**—List, \$1.50. Net, each.....90c



### Economy Pliers

A wonderfully well-made plier that you can retail at a price and still double your money. Guaranteed to give the best of service. Will stand much rough usage. Length, 6 1/2 inches. Gun metal finish. Shipping weight, 1 lb.

**SK9517**—List, 35c. Net, each.....15c  
Package of 12.....\$1.56  
**SK9518**—Same, except nickel plated. List, 75c. Net, each.....46c  
Package of 12.....\$5.28

### UTICA



### Side-Cutting Pliers

Ideal for electrical construction work. Lighter in weight than the average line-man's plier, but so skillfully tempered that the handles will not bend or set when great pressure is exerted on them. Its cutting qualities are unsurpassed by any Side Cutting Plier. Average shipping weight, 1 lb.

**SK9519**—6 in. List, \$1.50. Net, each.....75c  
**SK9520**—7 in. List, \$1.75. Net, each.....83c  
**SK9521**—8 in. List, \$2.00. Net, each.....89c



### Adjustable Hack Saw

Adjusts in the handle; takes all blades from 8 to 12 inches. A standard good quality frame (no blades included). **SK9522**—List price, 75c. Each, 28c. Six.....\$1.62



### Pistol Grip Hack Saw

A very strongly made, adjustable Hack Saw with ebonyized wood handle. Nickel plated frame. Takes blades from 8 to 12 inches. A high grade tool for regular shop work. Shipping weight, 1 lb. **SK9523**—List, \$1.00. Net, each.....48c



### Hack Saw Blades

Hard cutting edge—soft back to prevent breakage. To fit frame **SK9585** at left. **SK9508**—8 in., dozen, net.....28c  
**SK9509**—10 in., dozen, net.....32c  
**SK9510**—12 in., dozen, net.....35c



### Thin Nose Slip Joint Pliers

Has heavy, well-shaped handles made to fit the hand so that great pressure can be comfortably applied. Drop forged from finest grade steel and well finished in nickel plate only. Length, 6 1/2 in. Shipping weight, 8 oz. **SK9524**—List, 75c. Net, each.....38c  
Package of 12.....\$4.32

### Diagonal Cutting Pliers



Used by electricians in all their work, by radio builders and auto ignition work. Side cutting edges are designed so that they will cut silk covered wire without injuring the covering or breaking the wire. Special grip handles. Fully nickel plated. Fully guaranteed. Cuts piano wire. Length, 5 inches. Shipping weight, 8 oz. **SK9525**—List, \$1.50. Net, each.....95c

### Long Nose Pliers



Especially adapted for fine work. Drop forged from an extra quality of steel with carefully spring tempered nose and keen, strong cutting edges. The most satisfactory type of this kind of plier made. It does not pay to get a cheap one. Average ship. wt., 3 oz. **SK9526**—5 in. List, \$1.50. Net, each.....95c  
**SK9527**—6 in. List, \$2.00. Net, each.....\$1.07



### Universal Pliers

The kind of plier that fits all kinds of jobs. Needed in every home, barn, garage and work shop. Made from proper tempered drop forged steel and will stand much hard usage on all kinds of work. Length, 7 inches. Shipping weight, 1 lb. **SK9528**—List, \$1.25. Net, each.....75c

### Tinner's Snips



High quality drop forged snip, finished with polished blades and Japan handles. Although moderate in price, it is a fine cutting tool, that will give long service. Widely used in garages, shops where great leverage and strength is needed. Shipping weight, 1 lb. **SK9529**—7 in. List, \$1.00. Net, each.....49c  
**SK9530**—10 in. List, \$1.25. Net, each.....62c



### Armstrong Vanadium Steel Thin Wrenches

Especially intended for the mechanic who knows tools and demands the best. 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. Positively guaranteed not to break or spread. No finer wrenches are made. Shipping wt., 1 lb.

	Length	Opening	Net
	Inches	Inches	Each
<b>SK9531</b>	5 1/2	3/8 & 1/2	\$0.40
<b>SK9532</b>	6	1/2 & 5/8	.50
<b>SK9533</b>	6 1/2	5/8 & 3/4	.60
<b>SK9534</b>	6 1/2	3/4 & 7/8	.60
<b>SK9535</b>	6 1/2	7/8 & 1 1/2	.60
<b>SK9536</b>	7	1 1/8 & 1 1/4	.70
<b>SK9537</b>	7	1 1/4 & 1 1/2	.90
<b>SK9538</b>	8	1 1/2 & 1 3/4	.90
<b>SK9539</b>	9 1/2	1 3/4 & 2	1.10



### SPEEDNUT World's Wonder Wrench

**\$2.15**

Adjusts itself automatically, ratchets, tightens its grip the harder the pull, can't slip and won't round nuts. Unquestionably the simplest, most durable, efficient and economical tool of this type ever devised. Made from finest specially heat-treated forged steel. No more guessing the size wrench needed; no more skinned knuckles; no more fretting and fussing—it always fits. Positive grip. Shipping weight, about 2 lbs.

**SK9540**—4 in. List, \$3.50. Net, each.....\$2.15  
**SK9541**—8 in. List, \$4.00. Net, each.....\$2.55

### UTICA



### Slip Joint Combination Pliers

Especially designed for the automobile mechanic and differs in this respect from the ordinary combination plier. Has long, narrow nose and is riveted flush on both sides—no need to tighten bolt every time plier is used. Full nickel plated finish. Average shipping weight, 1 lb. **SK9542**—5 in. List, 85c. Net, each.....55c  
**SK9543**—6 in. List, \$1.00. Net, each.....67c  
**SK9544**—8 in. List, \$1.25. Net, each.....85c

### UTICA



### Battery and Brake Adjusting Pliers

An ideal tool for the battery service station and garage. So designed that the jaws will take all types of connections and not injure the top of the jaws when making connections or removing them. It also makes an ideal tool for brake adjusting. Length, 7 in. Shipping weight, 1 lb. **SK9545**—List, \$1.50. Net, each.....85c



### Bolt Cutters

Extra strong, durable, reliable—made of the finest material throughout. Tempered tool steel jaws. Rubber bumpers between handles. Cuts bolts, rods, chains, etc. Black finish. Length, 24 inches. Shipping weight, 6 lbs. **SK9546**—List, \$5.00. Net, each.....\$3.50



### Cotter Pin Puller

Pulls pin easily and quickly in any location, from any position. Also straightens pin as it pulls. Tempered steel hook and strongly made in every way. Shipping weight, 8 oz. **SK9547**—List, 50c. Net, each.....25c

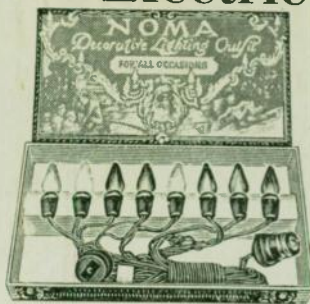


# Electric Christmas Tree Outfits

## Very Popular Set

Here we offer exceptional quality Xmas tree outfits at a price you would ordinarily pay for a much inferior grade. Consists of 8 Mazda bulbs in assorted colors with constant contact sockets. Lamps cannot work loose—they stay lit—an unusual feature. Has special tapping device with two-piece cord and attachment plug, in a beautifully colored display box that helps sell sets. Approved by National Board of Fire Underwriters.

**5K6898**—List .....\$2.50  
Less than 50 sets, each..... 1.48  
50 sets or more, each..... 1.44



## Noma Tree Holder



An impressive iron rest in a snow effect with 8 richly colored bulbs in base, and an outlet for extra light extensions. Also has water container to supply moisture to the tree. Is heavy enough to prevent tipping. Bulbs not included.

**5K6806**—List, \$6.50.  
Net, each .....\$3.94

## Metal Reflectors

Attractively designed 3 1/2 inch copper light reflectors packed 8 to a carton. A beautifier for every tree.

**5K6803**—List, per gross...\$5.00  
Net, per dozen..... .30  
Net, per gross..... 3.00



## Outdoor Sets



Ideal multiple set for Xmas tree placed out-of-doors. Burnt out lamps do not affect light of the others. Complete with 7 beautifully colored bulbs in attractive carton.

**5K6896**—List .....\$4.50  
Less than 50, each..... 2.74  
50 or more, each..... 2.67

## Reflector Outfit



This set consists of 8 beautiful, twinkling stars, equipped with colored Mazda bulbs. Complete with attachment cord and plugs. Very attractive.

**5K6897**—List .....\$3.40  
Less than 30, each..... 2.04  
30 or more, each..... 1.99

## Edison Outdoor Sets

The Ideal outdoor set for use with large size standard base lamps. Comes complete with attachments and 10 beautifully colored Mazda bulbs in an attractive box.

**5K6894**—List .....\$10.50  
Less than 10, each..... 5.94  
10 or more, each..... 6.09

## Illuminated Wreath

12-Inch



A Yuletide decoration of exquisite beauty and appeal for home, store or club, etc. Covered with red wool chenille roping, pines, and artificial flowers. Candle shaft of silver and green with drip effect.  
**5K6849**—List ...\$2.00  
Less than 36, each ...\$1.16  
36 or more, each ...\$1.13

## Mazda Lamps

Do not neglect to provide a supply of these richly colored Mazda bulbs for the coming Yuletide season. Packed 100 to a carton made up in assorted tints, or of one color in individual boxes. Supplied in red, blue, canary, green, orange, purple and white, with 15 volt power. Specify color.



**5K6800**—List, each.....12c  
For carton of 10.....80c  
For display carton of 100.....\$7.80

## Amazing Flashlight Bargain!

**\$1.38** Complete with Bulb and Battery



## 500-Foot Focusing Ribbed Fiber Nickel Trim

Heavy duty fiber ribbed focusing flashlight. It searches out the road, exposing those many objects that will endanger your trail, whether 500 or 5 feet away. By turning the head of the flashlight you may change the light instantly from the narrow piercing ray to a diffused white light. The case is of best quality black corrugated fiber. Non-short circuiting. Special built-in spring shock absorber protects lamp against rough handling and insures a positive contact. 2 1/2 inch octagon head prevents flashlight from rolling. Price includes one bulb and battery. Shipping weight, 2 lbs.

**5K7341**—Retail value, \$3.00.  
Special Feature your cost, each.....\$1.38

## Eclipse Flashlight Batteries

Superior quality. Guaranteed shelf life. Strong recuperative power and long dependable service units. Can be used to make up two or three cell batteries.

**5K7349**—1 1/2 in. Diameter, 2 1/2 in. long. Each.....9c



## Mazda Bulbs

Carry a full stock and be sure of emergency sales.  
**5K7345**—2.3 V. Baby 2 cell.  
**5K7346**—2.5 V. Regular 2 cell.  
**5K7347**—3.8 V. 3 cell. Retail, 12c. Net .....9c  
Ten lots .....84c



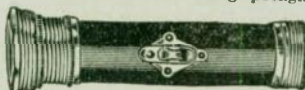
## Three Cell Focusing

Length, 9 inches. 3 cell battery included.  
**5K7343**—Fiber Case. Retail, \$2.95. Net.....\$1.60  
**5K7344**—Nickel Case. Retail, \$3.20. Net..... 1.70

## Two Cell Miners



## Two Cell Focusing Spotlight



2 1/2 inch Octagon head. Complete with 2 cell battery.  
**5K7333**—Fiber Case. Retail, \$1.75. Net.....\$0.95  
**5K7334**—Nickel Case. Retail, \$2.05. Net..... 1.10

Throws powerful 300 foot ray. Fits pocket. Battery included. Length, 7 inches.  
**5K7339**—Fiber Case. Retail, \$1.75. Net.....\$0.95  
**5K7340**—Nickel Case. Retail, \$2.55. Net..... 1.35

## Two Cell Regular

Length, 7 1/4 inches. 2-cell batteries included.  
**5K7337**—Fiber Case. Each...89c  
**5K7338**—Nickel Case. Each...95c



# Quality Floor Lamps

New, dashing models, fresh from the Studio of one of the most accomplished designers of fine lamps in the country. Prices never before approached! All have long cords and separable plugs.

## The Priscilla Junior

Height 63 inches. Standard of metal with decorative twist as shown. Heavy ornamental open work metal base. Popular polychrome bronze finish, with shaded effects. Wired with two light pull cords and tassel. Adjustable clusters. Semi-pleated Georgette shade, 20 x 14 inches. Lace panels trimmed with silk braid. Charmeuse lined. Ribbon ruching collar and border. Colors: Taupe over Orange or Blue over Rose. State Color. Shipping wts. Base 15 lbs. Shade 7 lbs. 5K11200—Complete, net..... **\$13.75** 5K11201—Base only, net \$6.35. 5K11202—Shade only, net \$7.60.

## The Annette Bridge

A most popular bridge lamp. Height 63 inches. Metal standard with ornamental open work base and bridge. Beautiful antique Polychrome bronze finish in harmonizing colors. Wired with single pull chain socket with tassel. Shade 15 x 10 inches is of semi-pleated Georgette with silk flower trimming. Ribbon ruching border and collar. Sateen lined. Color: Tan over Rose. Shpg. weights: Base 15 lbs., Shade 5 lbs. 5K11203—Complete, net..... **\$6.40** 5K11204—Base only, net \$4.45. 5K11205—Shade only, net \$2.25.

## The Peggy Bridge

Bridge lamp. Height 63 inches. Twisted and hammered iron in dulled gold finish. Genuine imported marble base. Wired with adjustable bridge arm. Shade 12x14 inches is pleated Georgette. Silk lined. Ribbon braid. Silk cord trim. Single pull chain socket with tassel. Color: Taupe and Gold with Peach lining. Shipping wt.: Base 15 lbs., Shade 5 lbs.

5K11206—Complete, net..... **\$18.95** 5K11207—Base only, net... \$12.60 5K11208—Shade only, net..... \$6.55

## The Eleonore Bridge

A great value. Bridge lamp. Height 63 inches. Wood standard in bronze Polychrome finish, stippled and shaded. Metal base. Wired with adjustable reeded bridge arm, key socket. Shade Sun silk. Silk and tinsel form braid border and collar. Silk flower spray. Color: Rose. Shipping wt.: Base 14 lbs., Shade 5 lbs. 5K11209—Complete, net..... **\$4.65** 5K11210—Base only, net... \$3.20 5K11211—Shade only, net... \$1.50

## The Virginia Junior

Height 63 inches. Metal standard with ornamental open work base as shown. Antique Polychrome finish with soft blending colors. Wired complete with two pull chain clusters with tassels. Shade 20 x 14 inches is semi-pleated Georgette, sateen lined. Silk flower trimming. Ribbon ruching border and collar. Color: Blue over Rose. Shipping wts., Base 16 lbs., Shade 7 lbs. 5K11212—Complete, net..... \$8.90 5K11213—Base only, net..... \$4.95 5K11214—Shade only, net..... \$3.95

## The Constance

A most remarkable value. Standard of wood, 63 inches high. Polychrome bronze finish, stippled and shaded. Ornamental heavy metal base. Wired with two light pull chain clusters with tassels. Finial top. Shade is 19 x 19 inches of sun silk. Fancy braid of silk and tinsel. Large silk flower. Color: Rose. Shipping weights: Base 14 lbs., Shade 5 lbs. 5K11215—Complete, net..... **\$7.20** 5K11216—Base only, net... \$4.80 5K11217—Shade only, net... 3.40

## The Lisbon

New Spanish design. Height 63 inches. All metal with twisted wrought iron panels and decorative open work as shown. Rich polychrome finish delicately blended and shaded. Wired with two pull chain sockets with tassels. Finial top. Shade 21 x 14 inches of semi-pleated Georgette with pretty lace panels and collar. Charmeuse lined. Silk ribbon and braid trimming. Colors: Black over Orange or Tan over Rose. State choice. Shipping wts., Base 18 lbs., Shade 7 lbs. 5K11218—C o m p l e t e , net..... **\$14.55** 5K11219—Base only, net..... \$6.90 5K11220—Shade only, net..... \$7.70



# All New 1928 Styles

Double Your  
Money on  
These Fine  
Lamps

Never  
Better Values  
Than These

## The Marguerite

Stunning! 63 inches high. Metal standard with open work base and inset of genuine imported marble. Antique Polychrome finish. Final top. Wired complete with two light pull chain sockets with tassels. Shade 20x15 inches, pleated Georgette, charmeuse lined. Silk cord and ruching trimming. Colors: **Taupe over Orange or Blue over Rose. State color.** Shipping wt., Base 20 lbs., Shade 7 lbs.  
5K11221—Complete, net ..... **\$15.45**  
5K11222—Base only, net **\$7.80**  
5K11223—Shade only, net **\$7.75**

## The Lorraine Junior

Very striking appearance. 63 inches high. Twisted brass and wrought iron with onyx finish inserts. Genuine imported marble base set in metal. Old gold color plated finish. Wired complete with two pull chain sockets with heavy tassels. Shade 20x12 inches of pleated Georgette, silk lined; sunburst panels. Silk braid and medallions. Colors: **Gold over Rose or Peach over Orange. State color.** Shipping weights, Base 20 lbs., Shade 7 lbs.  
5K11224—Complete, net ..... **\$30.90**  
5K11225—Base only, net ..... **\$19.50**  
5K11226—Shade only, net ..... **\$11.48**

## The Elaine Bridge

A very fine bridge lamp. Metal standard with engraved open work base having genuine imported marble insert. Antique Polychrome richly blended finish. Height 63 inches. Wired with open work adjustable metal arm, single pull socket with tassel. Shade 15x10 inches, semi-pleated Georgette with lace panels and collar. Charmeuse lined. Silk ribbon and braid trimming. Colors: **Black over Orange or Tan over Rose. State color.** Shipping wts., Base 20 lbs., Shade 7 lbs.  
5K11227—Complete net **\$11.63**  
5K11228—Base only, net ..... **\$7.95**  
5K11229—Shade only, net ..... **\$3.95**

## The Juliette Junior

Bewitchingly beautiful! Stands 63 inches high. All metal with open work engraved iron, reeded stem in old gold color plated finish. Onyx finish inserts. Final top. Wired complete with two pull chain sockets with heavy tassels. Shade 20x14 inches of pleated Georgette with lace panel inserts. Silk lined. Silk ruching and braiding. Colors: **Taupe over Rose or Gold over Rose. State color.** Shipping wts., Base 15 lbs., Shade 7 lbs.  
5K11230—Complete, net ..... **\$24.15**  
5K11231—Base only, net ..... **\$13.65**  
5K11232—Shade only, net ..... **\$10.50**

## The Nanette

Very dainty! Bridge lamp, 63 inches high. Twisted brass and wrought iron, with onyx finish insert in shaft near base. Genuine imported marble base set in metal frame. Old gold color plated finish. Wired complete with adjustable pull chain socket with tassels. Final top. Shade 14x9 inches of pleated Georgette, silk braid and medallions. Silk lined; sunburst panels. Colors: **Gold over Rose or Peach over Orange. State color.** Shipping wts., Base 20 lbs., Shade 6 lbs.  
5K11233—Complete, net... **\$25.88**  
5K11234—Base only, net... **\$18.95**  
5K11235—Shade only, net... **\$7.25**

## The Gloria Junior

Very aristocratic looking! Engraved metal lamp standard 63 inches high. Final top. Old gold color plated finish. Genuine imported marble square base set in metal frame. Wired with two pull chain sockets with tassels. Shade 21x21 inches (extra large) of rich pleated Georgette. Silk lined. Embroidered velvet cut border and collar. Colors: **Taupe over Orange or Tan over Rose. State color.** Shipping wts., Base 20 lbs., Shade 8 lbs.  
5K11236—Complete, net ..... **\$24.15**  
5K11237—Base only, net ..... **\$13.65**  
5K11238—Shade only, net ..... **\$10.50**

## The Aileen Bridge

All metal bridge lamp, 63 inches high, with engraved open work iron and reeded stem. Rich old gold color plated finish. Inserts of onyx finish. Wired complete with adjustable bridge arm, and single pull chain socket with tassel. Shade 12x12 inches of pleated Georgette. Silk lined. Silk ruching and braiding. Colors: **Taupe over Rose or Gold over Rose. State color.** Shipping wts., Base 16 lbs., Shade 6 lbs.  
5K11239—Complete, net... **\$19.50**  
5K11240—Base only, net... **\$13.55**  
5K11241—Shade only, net... **\$6.15**



# Table, Boudoir and Novelty Lamps

## Boudoir Lamp

Orange color; iridescent glass vase, mounted on bronze color metal base. Height, 14 inches; shade, 7 inches high. Top, of rose color China silk. Lined with rose crepe. Wired complete with push socket, 6 ft. cord and two piece plug. Shipping wt., 3 lbs.

SK7925—List, \$3.50.  
Net, each .....\$2.10

## 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.

SK7926—List, \$2.00.  
Net, each .....\$1.25



Table Lamp



One Light Table Lamp

An exceptionally fine lamp. Richest materials. Exquisite workmanship. Heavy metal base of antique gold. Height, 26 1/2 inches. Oval shade 9x16 inches with pleated georgette top. Lined with orange satin; trimmed with wide, fancy green ruching. Wired complete with two pull-chain sockets, 6 ft. cord and two piece plug. Shipping wt., 5 lbs.

SK7927—List, \$19.00.  
Net, each .....\$9.75

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 inches. Wired complete with key socket, 6 foot cord and two piece plug. Shipping wt., 5 lbs. A big seller at our price.

SK7928—List, \$7.00  
Net, each .....\$3.95

## Peacock Lamp

The biggest lamp value on the market. Imported black pottery vase, 26 1/2 inches high, decorated with green and gold Peacock design. Mounted on 5 inch cast base. Oval shade, 9 1/2 x 16 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.

SK7929—List, \$22.50.  
Net, each .....\$12.75



## Doll Lamp

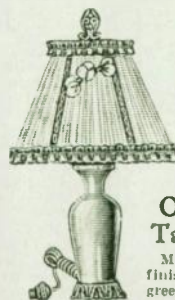
Height, 12 inches. Pottery doll base with 6 1/2 inch ruffled chintz shade. Decorated with red and green flowers. Trimmed with one inch rainbow ruching. Wired complete with key socket. Shipping wt., 3 lbs.

SK7933—List, \$2.75.  
Net .....\$1.95

## Vase Lamp

Light blue pottery vase, one light lamp. With polychrome base and shade holder. Shade is light blue silk georgette over pink colored satin, trimmed with dark blue ruching, gold braid and a spray of flowers. Height over all, 23 inches; 12-inch shade. Push button socket, 5 foot cord and plug.

SK7934—Retail price, \$7.50.  
Net .....\$4.80



## One Light Table Lamp

Metal base, gold finished, 12 inch green silk shade, with Rayon gold lining. Wired complete with turn button socket, cord and two piece plug. Height, 25 1/2 inches.

SK7935—List, \$9.00.  
Net, each...\$5.50



## 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.

SK7931—List, \$5.00.  
Net, each .....\$3.25



Pottery Boudoir Lamp



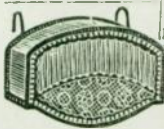
Antique Iron

Base is lavender glazed pottery. Height, 12 inches. Shade is 8 inches wide, covered and lined with rose mull, trimmed with black and gold braid. Wired complete, with push socket, cord and two-piece plug. Shipping wt., 3 lbs.

SK7932—List, \$3.00.  
Net, each .....\$1.65

Height, 25 inches. Beautiful iron base finished in antique gold. Shade 13 inch beaded, semi-transparent parchment in gold bronze color with bird and spray design. Wired complete. One key socket, 6 foot cord and two-piece plug.

SK7941—Retail price, \$8.50. Net....\$3.75



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. Shpg. wt., 2 lbs.

SK7938—List, \$2.50.  
Net, each .....\$1.67

## 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.

SK7940—List, \$5.00.  
Net, each .....\$2.75

## Desk and Floor Types



Finished in attractive Pompeian (greenish) bronze.

SK7936—Table lamp. Retail price, \$3.00.  
Net, each .....\$1.78

SK7937—Floor lamp. Retail price, \$7.50.  
Net, each .....\$4.85

## 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.

## Desk Lamps with Ink Well

A most popular type of desk lamp, providing both a pleasing convenient light together with two glass ink wells and pen rack. Finished in statuary bronze—a most attractive and sensible finish for this kind of lamp. Heavy base 6 3/4 inches. Flexible arm 12 inches long. Parabola metal shade. Fitted with key socket, cord and separable plug.

This is the kind of item the live dealer may push for sales the year round. Every office and most homes are logical prospects. Makes an especially acceptable gift. Shipping wt., 8 lbs.

SK7939—List, \$5.00. Net, each.....\$3.00



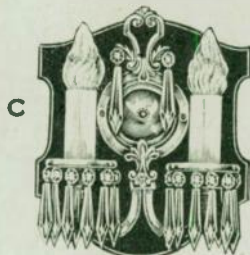




**Unmatched  
for Brilliance  
Richness  
and Striking  
Beauty**



**B**



**C**

**Gleaming  
Crystals  
Chased  
Silver Effects  
Touched  
with Black**



**D**

## The New Crystal Fixtures

Priced Within Reach of Every Home

## Beauty Never Before Possible at Such Low Prices!

Crystal pendants that sparkle like suspended drops of water; hundreds of them shedding their many colored iridescent glow of warmly pleasing illumination. They take you back to the romantic days of stately affairs in lordly manor houses, grand balls and the brilliant affairs in kingly palaces. Not before has such splendor and richness been within the reach of the average American home.

This line is truly a work of art. The 3½-inch crystals are fashioned by skillful artists—flaming in

their iridescence, true beauty that grows on you thru the years. They never tire.

The coronets of the three drops have circlets in heavily chased silver finish deftly touched in black. The ceiling and single light drop have four, the three-light five cascades of crystals ending with a silver ball. Canopy and chain are also silver plated. The chasing is richly touched with black. Each fixture wired complete with keyless sockets.

**A—5K7979—Three-Light Fixture.** Spread 16 inches. Length 36 inches. Shipping weight 45 lbs. List \$36.00

Net..... **\$18.00**

**B—5K7981—Ceiling Crystal.** Spread 9 inches.

1-Light. Shipping weight 12 lbs. List \$19.75. Net .... **\$9.88**

**C—5K7982—Two-Light Candle Bracket.** Spread 8 inches. Shipping weight 6 lbs. List \$8.00. Net..... **\$4.00**

**D—5K7980—One-Light Drop.** Spread 9 inches. Length 36 inches. Shipping weight 15 lbs. List \$21.75. Net..... **\$10.88**

**5K7999—One-Light Candle Bracket.** Same design as C. Shipping weight 4 lbs. List \$5.60. Net..... **\$2.80**

## The Beautiful Wall Lights Are All the Vogue



### The Ship

Strikes an instant appeal, because the romance of the ship and the sea never dies! Made of aluminum alloy gorgeously finished in soft pleasing brown, touched with green and red, richly blended. Width

of back 9½ inches; depth 12 inches; extends 5 inches. Shipping weight 6 lbs. **5K7983—List \$6.00. Net, each. \$2.95**



### The Adam

Reserved elegance is the keynote of this most popular design. Brings an air of cultured refinement to the home. Aluminum alloy in ivory polychrome finish. Height 10 inches; extends 3¼ inches. Shipping weight 6 lbs.

**5K7984—List \$5.00. Net, each. \$2.28**



### The

### Stratford

Delicate color shading, marks the dominant appeal of this very attractive model. Richly carved. Fashioned from aluminum alloy in the popular Eden and Pompeian polychrome finish. Back 4½ inches wide; height 11

inches, extends 4¼ inches. Shipping weight 6 lbs. **5K7985—List \$5.00. Net, each. \$2.38**

You Have Many Prospective Customers for Crystal Fixtures

World Radio History





## The New Moorish

## Solid Brass Fixtures

The latest achievement of the designers and craftsmen in the advancement of better home lighting. Made of solid brass in a rich, lasting finish. In this set we offer the same fine qualities, charming design and appearance, everlasting in quality, heretofore found only on the highest price special fixtures, at a price the average home owner can easily pay.

Note especially the hand hammered effect, giving the hand wrought appearance of the olden day metal workers. The designs reflect the latest tendency toward the rich old patterns, developed in the days when accomplished artists spent years in the perfection of their creations. These fixtures display the rich splendor of those olden days in patterns adapted to fit the best of American homes.

Our dealers here 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 lbs. **\$3.60**  
5K7986—List \$6.00. Net.....
- B—Five-Light Drop Fixture**—Length 36 inches; spread 22 inches. Wired complete; keyless sockets. Ship. wt. 22 lbs. **\$13.50**  
5K7987—List \$22.50. Net.....
- C—Three-Light Ceiling Fixture**—Spread 12 inches; depth 10 inches. Wired complete; keyless sockets. Ship. wt. 15 lbs. **\$5.45**  
5K7988—List \$8.00. Net.....

- D—Five Light Ceiling Fixture**—Spread 18 inches; drop 15 inches. Wired complete; keyless sockets. Shipping weight 18 lbs. **\$12.75**  
5K7989—List \$20.50. Net.....

- E—Beamlight**—Diameter 5 inches. Wired complete; keyless socket. Shipping weight 3 lbs. **\$1.10**  
5K7990—List \$1.60. Net each.....

- F—One Light Hall Lantern**—Length 36 inches; spread 10 inches. Wired complete; keyless socket. Shipping wt. 8 lbs. **\$5.58**  
5K7991—List \$9.30. Net.....

- G—Five Light Candle Fixture**—Length 36 inches; spread 22 inches. Wired complete; keyless sockets. Ship. 22 lbs. **\$13.50**  
5K7992—List \$22.50. Net each.....

- H—Two-Light Candle Bracket**—Spread 6½ inches; extends 3½ inches. Wired complete; keyless sockets, inbuilt switch. **\$4.50**  
5K7993—List \$7.50. Net.....

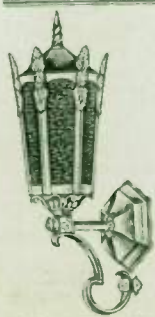
- I—Five-Light Ceiling Fixture**—Diameter 16 inches; extends 12 inches. Wired complete; keyless sockets. Shipping wt. 12 lbs. **\$9.00**  
5K7997—List \$15.00. Net each.....

No Bulbs Furnished with Fixtures—See Page 197 for Bulbs.

### Copper 2-Way Lantern

Made of genuine solid copper in natural color. Extends 8½ inches. Length over all 18½ inches. Lantern 6½ inches wide, 9 inches long. Can be mounted either upright or inverted as illustrated. Wired complete; keyless socket. Shipping wt. 5 lbs.

5K7994—List \$15.25. **\$7.75**  
Net each



### Colonial Style Copper Lantern

Made of hammered solid copper, natural copper color. Extends 6½ inches. Length over all 10½ inches. Lantern 5½ inches wide, 7½ inches long. Dark amber or cracked glass. Wired complete; one keyless socket. Suitable for inside or outdoor use. Ship. wt. 4 lbs.

5K7996—List \$6.95. net. **\$3.75**



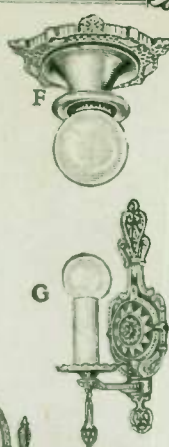
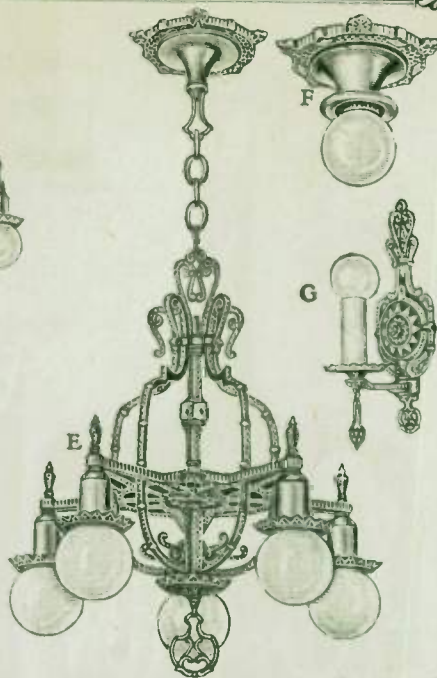
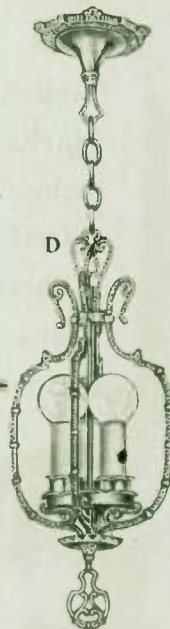
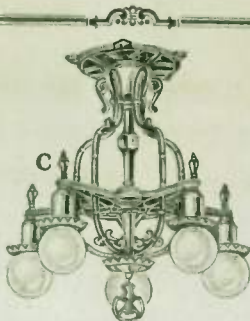
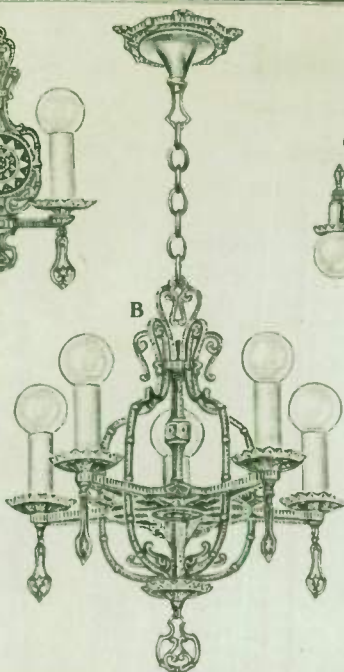
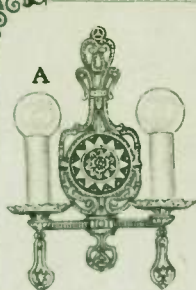
### Colonial Style Copper Lantern

Made of hammered solid copper. Length over all 11½ inches. Lantern 5½ inches wide, 7½ inches long. Dark amber cracked glass. Wired complete; one keyless socket. Can be used inside or on porch. Ship. wt. 4 lbs.

5K7995—List \$6.95. **\$3.75**  
Net...







## The Alhambra

Lighting has ceased to be merely a necessity—it has also become a distinct decorative art which affords further opportunity for the embodiment of individuality throughout the home. The exquisite artistry of these fittings is indeed one of the highest developments of creative art in this field.

The simplicity and symmetry of these fittings, reflecting their rich splendor is masterfully combined with harmonious bronze chrome finishes. Both design and coloring are faithful reproductions of real Spanish models. This is the line of fixtures to offer for the finer homes. Made thruout of extra heavy solid cast brass in rich hammered effect. The prices we quote are extremely low for merchandise of this quality. We can supply you with beautifully printed folders showing these fixtures with large illustrations and without prices. Show them to your customers and increase your sales.

### A—Two-Light Candle Bracket.

Back plate 4 1/4 x 14 inches; spread 7 inches. Magnificent design. Wired complete. Keyless sockets; inbuilt switch. Shipping weight 8 lbs.

5K7968—List \$12.00 Net

**\$6.00**

Bulbs Not Included. See Page 197.

## Spanish Fixtures in Cast Bronze

### B—Five-Light Ceiling Fixture.

Length 36 inches; spread 18 inches. Wired complete; keyless sockets. Shipping wt. 22 lbs.

5K7969—List \$36.00. Net **\$19.50**

### C—Five-Light Ceiling Fixture.

Spread 18 inches. Wired complete. Keyless sockets.

Shipping wt. 15 lbs.

5K7970—List \$36.00. Net **\$19.50**

### D—Hall Fitting Wired Complete—Three-Lights.

Length 36 inches; spread 8 inches.

5K7998—List \$20.00. Net **\$11.50**

### E—Five-Light Drop.

Length 36 inches; spread 18 inches. Wired complete; keyless

sockets. Shipping weight 22 lbs.

5K7971—List \$36.00. Net **\$19.50**

### F—Beam Light. Diameter 6 inches. Wired complete. Keyless

socket. Shipping weight 8 lbs.

5K7972—List \$4.50. Net **\$2.75**

### G—One-Light Candle Bracket. Back plate 4 1/4 x 14 inches.

Extends 5 inches. Wired complete; keyless socket; inbuilt switch.

Shipping weight 6 lbs.

5K7973—List \$9.25. Net **\$5.25**

## Copper Lanterns in Old English Styles—Very Popular



### Genuine Solid Copper Lantern

Made of hammered solid copper in natural copper finish. Height 11 1/2 inches; lantern 5 1/2 inches wide, 7 1/2 inches long. Dark amber crackled glass. One keyless socket. Shipping wt. 4 lbs.

8K7974—List \$9.00.

Net each **\$4.60**



### Genuine Solid Copper Bracket

Hammered solid copper in original color. Favorite old lantern style. Dark amber color or crackled glass. Length over all 11 inches; extends 7 inches; lantern 5 1/2 inches wide, 7 1/2 inches long. Shipping wt. 4 lbs.

8K7975—List \$10.00.

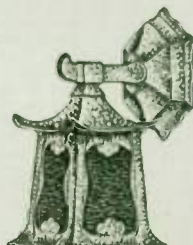
Net each **\$4.85**



### Street Number Lantern

One of the most popular lanterns ever designed. A boon to casual callers, messengers, doctors and others! Solid metal in old English motif with finish of soft ebony touched verdegreen giving the impression of old copper. Height 20 inches (No street numbers included. Regular house numbers can be used). Ship. wt. 5 lbs.

8K7976—List \$11.60. Net each **\$5.22**



### Copper Lantern—Colonial Style

Made of genuine hammered copper in natural color. Dark amber crackled glass. Extends 6 1/4 inches. Length over all 9 1/2 inches. Lantern 5 1/2 inches wide, 6 1/2 inches long. Wired complete; one keyless socket. Shipping wt. 4 lbs.

5K7977—List \$9.00.

Net each **\$4.70**



### Copper Lantern—Colonial Style

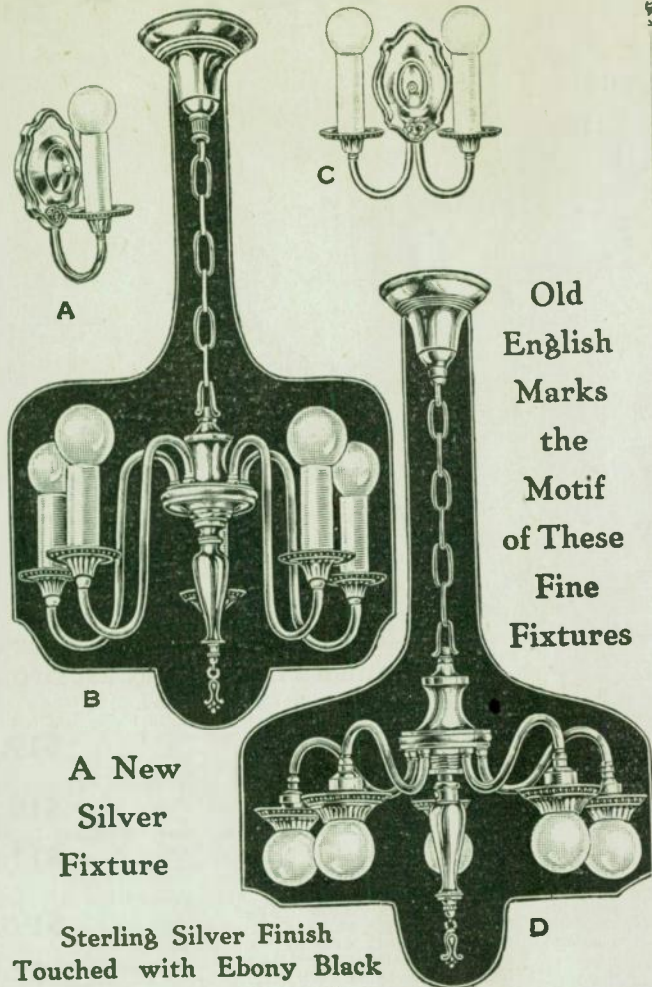
Made of genuine solid hammered copper in natural color. Dark amber color crackled glass. Length over all 10 1/4 inches. Lantern 5 1/2 inches wide, 6 1/2 inches long. Wired complete; one keyless socket. Shipping wt. 4 lbs.

5K7978—List \$10.00.

Net each **\$4.85**

No Bulbs Included with Fixtures. See Page 197.





**A New  
Silver  
Fixture**

**Sterling Silver Finish  
Touched with Ebony Black**

**Old  
English  
Marks  
the  
Motif  
of These  
Fine  
Fixtures**

Grace of line, dignity of design and a craftsmanship worthy of the silversmiths of olden days may be found in these exquisitely beautiful fixtures. Their presence in the home bespeaks the refined taste and good judgement of the owner. For the home of reserve and real refinement no other fixture would be more fitting. They are made from a strong, yet light metal with a life long lasting sterling silver finish. Like the skilled touch of the artist, this finish is relieved here and there with touches of ebony black. In every detail the workmanship reflects the art of accomplished artisans who have labored to make this an outstanding example of their artistry. In each little detail of construction you see with what care and skill have these fine fixtures been wrought.

The first assumption would be that such elegance of appearance and such perfection of workmanship would command a high price. But such is not the case. These prices were made by a highly regarded manufacturer whose sole effort has been toward bringing beauty and quality to lines of fixtures at prices within the reach of the average American home. You may judge how marvelously successful he has been when you review the modest list prices shown below and the extraordinary discounts at which we offer them to our dealers.

**A—5K7845—One-Light Candle Bracket.** Wired complete with in-built switches. Back, 4 x 9 inches; extends 6 inches. Shipping wt., 3 lbs. **\$1.62**  
List, \$3.25. Net.....

**B—5K7842—Five-Light Candle Fixture.** Wired complete; keyless sockets. Length, 36 inches; spread, 18 inches. Shipping weight, 18 lbs. **\$6.95**  
List, \$14.00. Net.....

**C—5K7844—Two-Light Candle Bracket.** Wired complete with switches in-built. Back, 4 x 9 inches; extension, 5 inches; spread, 10 inches. **\$2.12**  
Shipping wt., 5 lbs. List, \$4.25. Net.....

**D—5K7843—Five-Light Ball Lamp Fixture.** Wired complete; keyless sockets. Length, 36 inches; spread, 18 inches. Shipping wt., 18 lbs. **\$7.95**  
List, \$16.00. Net.....

**No Bulbs  
Furn-  
ished.  
See  
Page  
197  
for Bulbs**



**Artistic  
Ceiling  
Pieces**

Cast from fiber, giving a clean sharp line in a hand-carved effect. Guaranteed unbreakable. Rich gold and polychrome finish—soft, delicate effect. Amber peach glow tulip shades on A, B and C provide charming lighting effect. Wired complete with keyless sockets.

**A—Six-Light.** Diameter, 18 inches. 4½ inch drop. Wt., 8 lbs.  
**\$9.95**  
Net.....  
**B—Three-Light.** Diameter, 14 inches; drop 6½ inches. Wt., 7 lbs.

**5K7847—List, \$14.00 Net..... \$6.85**

**C—One-Light.** Diameter, 9 inches. Wt., 5 lbs.

**5K7848—List, \$4.50 Net..... \$2.25**

**D—Three-Light.** Diameter, 11 inches, drop, 10 inches. Wt., 8 lbs.

**5K7849—List, \$11.00 Net..... \$5.50**

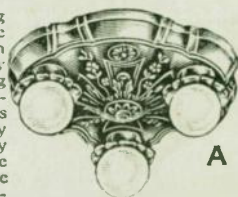
**E—Two-Light.** 14 x 7¾ inches. Wt., 8 lbs.

**5K7850—List, \$3.50 Net..... \$1.75**



**Bedroom and Sun  
Porch Fixtures**

The striking feature of this fine line is the rich embossing. They have a pleasing tastefulness of design that has made them very popular. Richly finished in the ivory polychrome—universally favored for bedroom and sun parlor fixtures. They will harmonize with almost any surroundings and furnishings.



**A—5K7851—3-Light Fixture.** Spread, 12 inches. Wired complete; keyless sockets. Shipping wt., 8 lbs. **\$5.00**  
List, .....  
Net, each, **\$2.48**  
**B—5K7852—2-Light Fixture.** Spread, 12 inches. Wired complete; keyless sockets. List, .....  
Net, each, **\$3.00**

**C—5K7853—Beam Light.** Diameter flange, 5 inches; drop, 3½ inches. Wired complete; keyless sockets. List, .....  
Net, each, **69c**

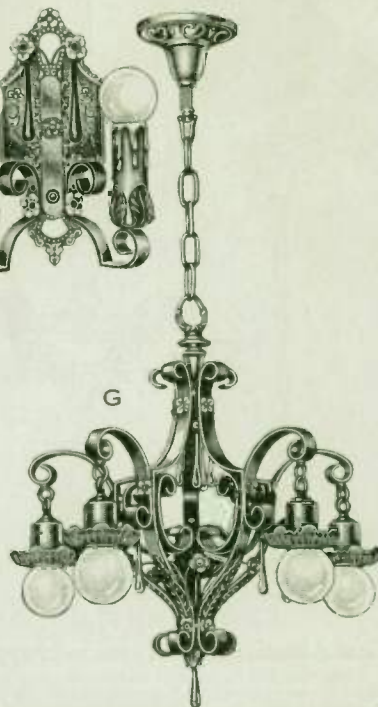
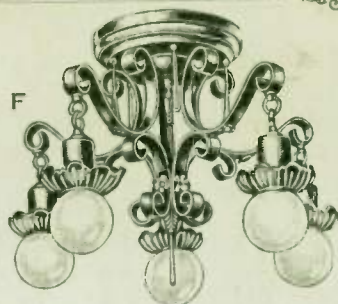
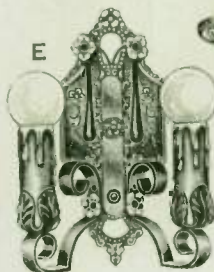
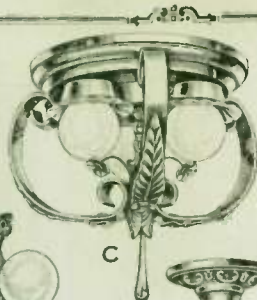
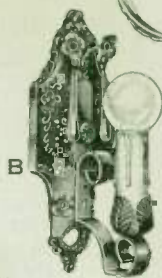
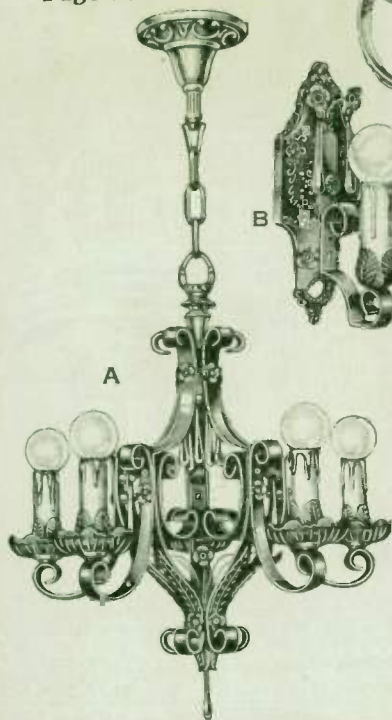
**Bulbs Not Furnished—See Page 197**







Bulbs Are Not  
Furnished—See  
Page 197



## The Ever Popular Early American Type WROT IRON Fixtures

## Polychrome Finish

# Rarely Beautiful Yet Within the Reach of All!!

The vogue of wrot iron increases with every year. These modern adaptations find their inspiration in the fitments of fine old European and Early American homes. The finish is especially attractive and fitting. Soft ivory coloring predominates, shaded with pastel brown and livened with touches of red and green. Harmonizes perfectly with all kinds of drapes and furnishings. Never before has such beauty of design and high quality in construction and materials been available at prices so low as these.

**A—Five-Light Candle Fixture.** Spread 22½ inches. Length 36 inches. Wired complete. Keyless sockets. Shipping weight 22 lbs.

5K7862—List \$22.50. Net.....**\$10.95**

**B—One-Light Candle Bracket.** Back 4½ x 11 inches; extends 5 inches. Wired complete. Inbuilt switch. Shipping weight 6 lbs.

5K7863—List \$3.50. Net.....**\$1.75**

**C—Three-Light Ceiling Piece.** 8½ inch canopy; drop 10 inches. Wired complete. Keyless sockets. Shipping weight 10 lbs.

5K7864—List \$6.75. Net.....**\$3.37**

**Two-Light Ceiling Piece.** (Not illustrated but same as "C" except two instead of three lights.) Shipping weight 9 lbs.

5K7865—List \$5.50. Net.....**\$2.75**

**D—Hall Lamp.** Spread 9½ inches. Wired complete. Keyless socket. Shipping wt. 7 lbs.

5K7861—List \$8.00. Net.....**\$4.00**

**E—Two-Light Candle Bracket.** Back 4½ x 11 inches; extends 5 inches. Wired complete. Keyless sockets. Inbuilt switch. Shipping wt. 6 lbs.

5K7866—List \$4.00. Net.....**\$1.95**

**F—Five-Light Ceiling Piece.** Spread 22½ inches. Wired complete. Keyless sockets. Shipping wt. 16 lbs.

5K7867—List \$17.25. Net.....**\$8.65**

**G—Five-Light Drop.** Spread 22½ inches. Length 36 inches. Wired complete. Keyless sockets. Shipping weight 18 lbs.

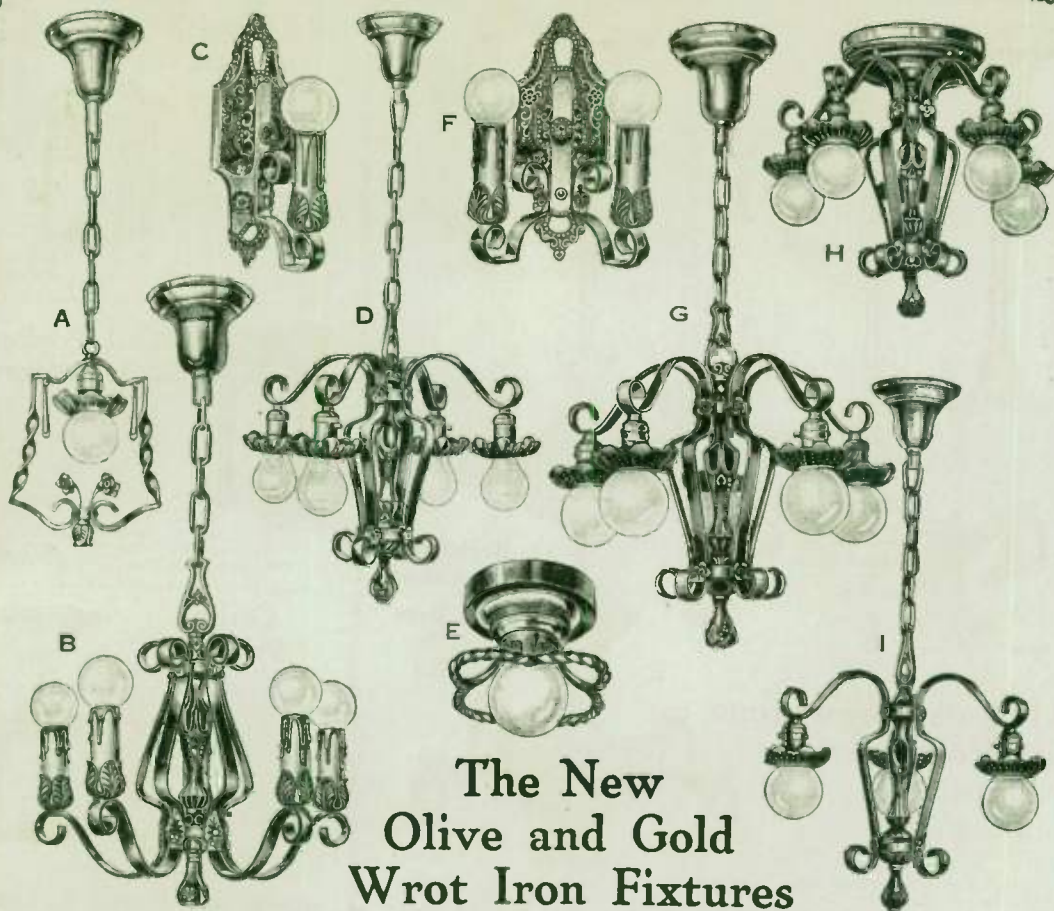
5K7868—List \$22.50. Net.....**\$11.25**

**Two-Light Drop.** (Not illustrated but same general design as "G".) Especially desirable for bedroom, den, sewing room, etc. Spread 18 inches. Wired complete. Keyless sockets. Shipping weight 12 lbs.

5K7860—List \$10.00. Net.....**\$4.95**

No Bulbs Furnished—See Page 197 for Bulbs





## The New Olive and Gold Wrot Iron Fixtures

### Rich Striking Color Effects Together With Skilled Craftsmanship Distinguish This Fine Set

Truly modern designs, fashioned for today's tastes and vogue in home decoration. The finish has been planned to harmonize with almost any type of furniture or room trimming—warm and attractive always. The dominant color is soft olive green, like old green gold, with a delicate touch of polychrome (gold and red) in the fancy ornaments. Wrot iron will always be popular and these fine fixtures are an example of the possibilities in this splendid style.

**A—Hall Lamp.** Spread, 8½ inches. Wired complete. Keyless socket. Shipping weight, 6 lbs.  
5K11274—List, \$4.00. Net, each..... **\$1.95**

**B—Five-Light Candle Fixture.** Spread, 17 inches. Wired complete. Keyless socket. Shipping wt., 18 lbs.  
5K11275—List, \$9.00. Net..... **\$4.48**

**C—One-Light Candle Bracket.** Back, 4½ x 11 inches; extends 5 inches. Wired complete. Keyless socket. Inbuilt switch. Shipping wt., 4 lbs.  
5K11276—List, \$3.00. Net..... **\$1.50**

**D—Four-Light Drop.** Spread, 19 inches. Wired complete. Key sockets. Shipping wt., 16 lbs.  
5K11282—List, \$9.50. Net..... **\$4.75**

**E—Beam Light.** Diameter, 7 inches; drop, 4½ inches. Wired complete. Keyless socket. Shipping wt., 6 lbs.  
5K11277—List, \$1.80. Net..... **\$0.90**

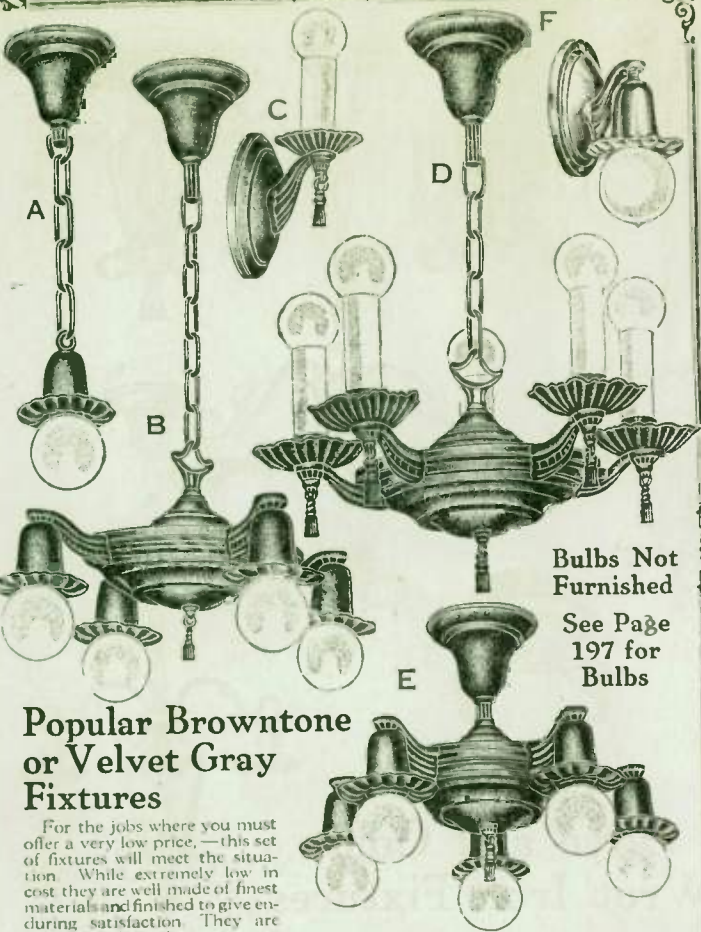
**F—Two-Light Candle Bracket.** Back, 4½ x 11 inches; extends 5 inches. Wired complete; keyless sockets; inbuilt switch. Shipping wt., 5 lbs.  
5K11278—List, \$4.00. Net..... **\$1.95**

**G—Five-Light Drop.** Spread, 19 inches. Wired complete; key sockets. Shipping wt., 18 lbs.  
5K11281—List, \$10.50. Net..... **\$5.30**

**H—Five-Light Ceiling Fixture.** Spread, 19 inches; drop, 15½ inches. Wired complete; keyless sockets. Shipping wt., 14 lbs.  
5K11279—List, \$10.00. Net..... **\$4.95**

**I—Three-Light Drop.** Spread, 19 inches. Wired complete. Push sockets. Shipping wt., 17 lbs.  
5K11280—List, \$8.25. Net..... **\$4.10**





## Popular Browntone or Velvet Gray Fixtures

For the jobs where you must offer a very low price, — this set of fixtures will meet the situation. While extremely low in cost they are well made of finest materials and finished to give enduring satisfaction. They are priced so low that you can undersell competition and yet make a big margin of profit.

Pans, arms and canopies made of good weight genuine brass. Sprayed finish will last for years and equals appearance of many higher priced lines. Choice of finish: Soft golden Brown with bright gold trim or Velvet Gray with gold trim.

**A—One Light Pendant.** Wired complete. Key socket. Length 36 in. Shipping wt. 6 lbs. List price, **90c**.  
\$1.80. Net.....  
5K7876—Browntone and Gold.  
5K7877—Gray and Gold.

**B—Four Light Drop Fixture.** Spread 18½ inches; 10 inch body. Key sockets. Wired complete. Shipping wt. 25 lbs. List price, **\$3.96**.  
\$8.00. Net.....  
5K7886—Browntone and Gold.  
5K7887—Gray and Gold.

**Five Light Drop Fixture.** (Not illustrated but same design and specifications as B.) List price, \$9.50. Net..... **\$4.80**  
5K7888—Browntone and Gold.  
5K7889—Gray and Gold.

**Three Light Drop Fixture.** (Not illustrated but same design as B.) Spread 17 inches; body 8 inches. Shipping wt. 10 lbs. List price, \$6.25. Net..... **\$3.15**  
5K7890—Browntone and Gold.  
5K7891—Gray and Gold.

**Two Light Drop Fixture.** (Not illustrated but same design as B.) Spread 15 inches; body 6 inches. Shipping wt. 8 lbs. List price, \$4.50. Net..... **\$2.25**  
5K7892—Browntone and Gold.  
5K7893—Gray and Gold.

**C—One Light Candle Fixture.** Wall plate 4½ x 6 inches; extension 5 in. Wired complete. Keyless socket.

Shipping wt. 6 lbs. List **90c**  
price, \$1.80. Net.....  
5K7896—Browntone and Gold.  
5K7897—Gray and Gold.

**D—Five Light Candle Fixture.** Spread 19 inches; body 10 inches. Keyless sockets. Wired complete. Shipping wt. 25 lbs. List price, **\$4.68**.  
\$9.00. Net.....  
5K7878—Browntone and Gold.  
5K7879—Gray and Gold.

**Four Light Candle Fixture.** (Not illustrated but same design and specifications as D.) List price, \$7.65. Net..... **\$3.83**  
5K7880—Browntone and Gold.  
5K7881—Gray and Gold.

**E—Five Light Ceiling Fixture.** Spread 18½ inches; body 10 inches. Keyless sockets. Wired complete. Shipping wt. 18 lbs. List price, **\$4.78**.  
\$9.25. Net.....  
5K7882—Browntone and Gold.  
5K7883—Gray and Gold.

**Four Light Ceiling Fixture.** (Not illustrated, but same design and specifications as E.) List price, \$8.00. Net..... **\$3.98**  
5K7884—Browntone and Gold.  
5K7885—Gray and Gold.

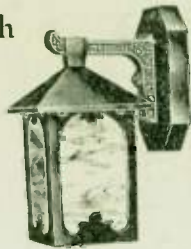
**F—One Light Drop Bracket.** Wall plate 4½ x 6 inches; extension 5 in. Wired complete. Key Socket. Shipping wt. 6 lbs. List price, \$1.80. Net..... **90c**  
5K7894—Browntone and Gold.  
5K7895—Gray and Gold.

**Bulbs Not  
Furnished**

**See Page  
197 for  
Bulbs**

## Old English Lantern

Made of copper plated sheets in dark green finish. Amber glass panels. Length over all 11 inches; extension 8 inches; Lantern 5½ in. wide, 8½ in. long. Wired complete. Shipping wt. 5 lbs.



5K7898—List \$6.00. Net each. **\$3.20**



## Wall Pocket Style Lantern

Old Colonial wall pocket style, in soft, dark green finish. Amber glass panels. Width 5½ in.; extends 5½ in. Very appropriate for almost all types of homes. Wired complete. Shipping wt. 5 lbs.

5K7899—List \$5.00. Net each. **\$2.65**

## Ceiling Pendant

Attractive dark green finish. Amber glass panels. Length over all 14½ inches; lantern 5½ inches wide, 8½ inches long. Shipping wt. 5 lbs. Very popular and a most remarkable value. Wired complete.

5K7869—List, \$5.75.

Net, each..... **\$3.10**



## Porch Light

Fixture for porch ceiling. Finished in dull black and equipped with smooth, 6-in frosted globe. Weatherproof keyless socket. Length over all 7½ inches. Bulb not included. Wired complete. A splendid value at this special price. Shipping wt. 7½ lbs.

5K11259—List price, \$1.80. Net .. **90c**

## Fancy Porch Light

Ceiling plate globe light. Plate of cast iron, finished in black. Diameter, 6 in. Six inch crystal ribbed globe, frosted on inside. Length 8 in. Keyless socket. Wired complete.

5K11261—List price, \$2.70. Net, each..... **\$1.35**



## Outdoor Bracket

The standard bracket for the garage or barn. Thirty-inch gooseneck. Has 10-inch steel enamel reflector. Green outside, white inside. Wired complete. Bulb not included. Shipping wt. 6 lbs.

5K11260—List price, \$4.50. Net, each..... **\$2.25**







## Porcelain Ceiling Fixture

Franklin vitrified pottery, snow white. For bathroom, hallway, corridors, porches or sun parlors. Base diameter 6 3/4 inches. Wired complete with water-proof sign socket. Shipping wt., 5 lbs.

5K7825—List, with keyless socket, \$3.00.

Net..... \$1.80

5K7826—List, with pull chain socket, \$4.13

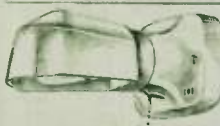
Net..... \$2.48

## Porcelain Bracket Convenience Outlet

Made of Franklin vitrified pottery, snow white. Has Levolver socket with lever for turning off and on, as shown. Also fitted with convenience outlet for electric appliances. Completely wired. One of the most popular brackets on the market. Shipping wt., 7 lbs.

5K7827—List, \$5.25.

Net..... \$3.15



## Porcelain Mirror Bracket

Made of Franklin vitrified pottery throughout, snow white. Base 4 1/2 x 6 inches; projection without shade, 2 1/4 inches. Wired completely with pull chain socket. Has convenience outlet for appliances, as shown. Shipping wt., 5 lbs.

5K7828—List, \$4.38.

Net, each..... \$2.63

## Levolver Bracket

For bathroom and kitchen use. Socket cover and canopy of white porcelain; nickel plated stem. New Levolver switch, turns off and on with lever beneath socket. Also has convenience outlet for appliances. Snow white—a beauty. Shipping wt., 4 lbs.

5K7829—List, \$5.00.

Net..... \$2.40



## All Glass Bracket

Shade and canopy made of Hyperion glass. Snow white. Porcelain pull chain receptacle. Wired complete. Convenience outlet for appliances. Ship. wt., 4 lbs.

5K7830—List, \$5.00.

Net..... \$2.50

## Plain Bracket

Snow White Hyperion glass shade and canopy. Porcelain pull chain socket. Wired complete. Shipping wt., 3 lbs.

5K7831—List, \$3.60.

Net..... \$1.80



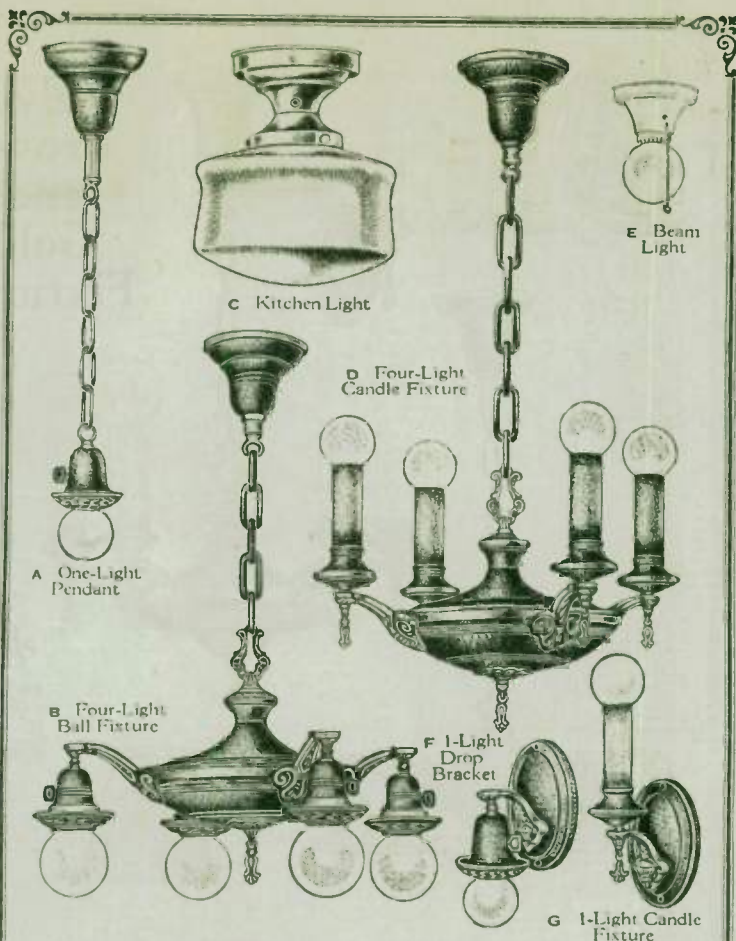
## Ceiling Unit

Snow white Hyperion glass shade and canopy. Diameter shade, 6 1/2 in. Wired complete. Shipping wt., 4 lbs.

5K7832—Pull Chain..... \$1.80

5K7833—Keyless..... 1.40

List, \$2.80. Net.....



# The Most Amazing Value in the Country!

Complete Set of 7 Pieces

**\$11<sup>75</sup>**

Neatly designed lighting fixtures in a complete set, for lighting the entire house at an especially low cost. This set, consisting of seven attractive pieces, which may be purchased either separately or in the entire set, as desired. All metal parts are constructed of heavy brass finished in brown color, with the embossed and cast ornaments in highly polished gold color. Beam light and kitchen light are of white enamel finish, giving them an air of sanitation. The enamel finish is very permanent and may be safely cleaned. Each fixture is completely wired for installation.

5K11266—Complete set. List Price, \$23.50. Net..... \$11.75

These Fixtures are of the Finest Quality. Never before have such Values been offered!

**A—One-Light Pendant.** Length, 36 inches over all. Finished in brown and gold. Wired complete. Key socket. 5K11273—List Price, \$1.90. Net..... \$1.20

**B—Four-Light Drop Fixture.** Wired complete. Finished in brown and gold. Spread, 20 inches; length, 36 inches over all. Key sockets. 5K11270—List Price, \$8.50. Net..... \$4.25

**C—Kitchen Light.** White enamel finish. Length, over all, 12 inches; diameter of bowl, 8 1/2 inches. Keyless socket, wired complete. 5K11268—List Price, \$2.40. Net..... \$1.45

**D—Four-Light Candle Fixture.** Finished in brown and gold. Spread, 20 inches; length, 36 inches over all. Wired complete with keyless socket. 5K11269—List Price, \$8.50. Net..... \$4.25

**E—Beam Light.** White enamel finish for use in bedrooms, sun parlor and bath. Pull chain. Socket wired complete. 5K11267—List Price, \$1.40. Net..... 90¢

**F—One-Light Drop Bracket.** Wired complete. Finished in brown and gold. Key socket. Wall plate, 4 1/2 x 6 inches. 5K11272—List Price, \$1.90. Net..... \$1.12

**G—One-Light Candle Fixture.** Wired complete. Finished in brown and gold. Wall plate, 4 1/2 x 6 inches. Fitted with keyless socket. 5K11271—List Price, \$1.90. Net..... \$1.12

Prices Do Not Include Bulbs. See Page 197.



## Velvet Brown and Gold Fixtures



## Solid Brass in a Favorite Modern Design

The quality of this line is at once evident by its rich appearance and rare symmetrical design. Made of heavy brass, coated with velvet brown, touched with gold—tarnish-proof colors that assure many years of lasting beauty.

Heavy metal—solid brass is used throughout in the construction of these fixtures. Brass screws inserted in all eyelets, and swivel loops facilitate wiring and installation. Finishes are applied under

a new process that prevents peeling, tarnishing or chipping. All parts are heavily lacquered.

In looking through these pages you will be impressed with the evident fact that these fixtures have a degree of beauty and distinction that makes them suitable for the very best installations and their finishes are such that they will harmonize with every possible color or decorative scheme.

**A—One Light Drop Bracket.** Wall plate  $4\frac{1}{2} \times 6$ . Wired complete. Key socket. Shipping wt. 3 lbs.  
5K11250—List price, \$2.60.  
Net, each... **\$1.38**

**B—Five Light Drop Fixture.** Spread 18 in. Length 36 in. Wired complete. Key sockets. Shipping wt. 20 lbs.  
5K11263—List price, \$13.50.  
Net, each... **\$6.95**

**C—One Light Candle Bracket.** Wall plate,  $4\frac{1}{2} \times 6$ . Wired complete. Keyless socket. Shipping wt. 3 lbs.  
5K11264—List price, \$2.60.  
Net, each... **\$1.38**

**D—Five Light Candle Fixture.** Spread 18 in. Length 36 in. Wired complete. Keyless sockets. Shipping wt. 20 lbs.  
5K11251—List price, \$13.50.  
Net, each... **\$6.95**

**E—One Light Ceiling Fixture.** Wired complete. Keyless socket. Shipping wt. 4 lbs.  
5K11252—List price, \$2.70.  
Net, each... **\$1.45**

**F—Four Light Drop Fixture (Like B).** Fitted with four blue wreath and flower design. Crystal glass shades. Spread 17 in. Length 36 in. Wired complete. Key sockets. Shipping weight 18 lbs.  
5K11265—List price \$14.50.  
Net, each... **\$7.25**

**Three Light Drop Fixture (Like B).** Same design as B less shades. Spread 14 in. Length 36 in. Wired complete. Key sockets. Shipping wt. 15 lbs.  
5K11253—List price, \$10.50.  
Net, each... **\$5.25**

**Two Light Drop Fixture. (Like B).** Same design as B. Fitted with two blue wreath and flower design crystal glass shades. Spread 13 in. Length 36 in. Wired complete. Key sockets. Shipping wt. 12 lbs.  
5K11254—List price, \$8.40.  
Net, each... **\$4.20**

**G—One Light Pendant.** Length 36 inches. Key socket. Fitted with blue wreath and flower design glass shades. Shipping wt 4 lbs.  
5K11255—List price, \$3.00.  
Net, each... **\$1.50**

**H—Five Light Ceiling Fixture** fitted with five blue wreath and flower design. Crystal glass shades. Spread 18 in. Length 11 in. Wired complete. Key sockets. Shipping wt. 18 lbs.  
5K11256—List price, \$16.50.  
Net, each... **\$8.25**

**Four Light Ceiling Fixture.** (Same design as H). Fitted with four blue wreath and flower design. Crystal glass shades. Spread 17 in. Length 11 in. Wired complete. Key sockets. Shipping wt. 15 lbs.  
5K11257—List price, \$14.00.  
Net, each... **\$7.00**

**Three Light Ceiling Fixture.** (Same design as H less shades). Spread 14 in. Length 11 inches. Wired complete. Key sockets. Shipping wt 12 lbs.  
5K11258—List price, \$10.00.  
Net, each... **\$4.95**



## Decorated Residential Units

Designed especially for bedrooms and parlors, but adaptable to many other places in the home. This type of lighting fixture is gaining in popularity because of the note of

cheerfulness and pleasing effect it gives to the room in which installed. Glass, 9 inches in diameter, 6 1/2 inches deep, beautifully hand decorated, and trimmed with imported prism bells and drop as shown.

Shipping wt., each unit, 6 lbs.

5K11283—Chain Drop Fixture in Ivory

and Pink finish. List, complete, \$4.30. Net, each \$3.15

5K11284—Same, in Ivory and Blue finish. List, \$6.30. Net, each \$3.15

5K11285—Ceiling Fixture in Ivory and Pink finish. List, complete, \$5.30. Net, each \$2.65

5K11286—Same in Ivory and Blue finish. List, \$5.30. Net, each \$2.65

## Orna-mental Drop Light

## Decorative One-Drop Light

An ideal fixture for sun room, kitchen, bedroom or sleeping porch. Shades of genuine Hyperion glass, beautifully hand decorated in garland effect with flowers and foliage. Wired complete. Shipping wt. each, 5 lbs.

5K11292—Ivory and Blue, with key socket. List, \$3.80. Net, each \$1.90

5K11293—Same, with pull-chain socket. List, \$4.15. Net, each \$2.08

5K11294—Ivory and Pink finish with key socket. List, \$3.80. Net, each \$1.90

5K11295—Same, with pull-chain socket. List, \$4.15. Net, each \$2.08

## White Ceiling Light

Length, 6 inches. Fitted with keyless socket, 6 in white glass shade. Completely wired.

5K11296—Keyless socket. List price, \$1.50. Net, each 74c

5K11297—Pull-chain socket. List price, \$2.60. Net, each \$1.30

## Beam Light

Small convenient light for hallways and closets. Metal parts finished in white enamel. Equipped with porcelain socket and pull chain. Bulb not included.

5K11298—List price, \$1.65. Net, each 83c

## Improved Kitchen Lights with Convenience Outlet

The most advanced type of light for the kitchen. Designed by skilled lighting engineer. Fast replacing the old style of kitchen illumination. Wired complete, ready to install. A special feature is the clever switch and convenience outlet, as shown in the illustration. This makes it possible to use the light for illumination and also the same current lead for any appliances, such as irons, toasters, waffle irons, etc. Genuine Hyperion glass Bowl, 9x4 inches. All metal parts are beautifully white enameled with a hard, lasting finish that may be cleaned with soap and water. Will not fade. Shipping wt., 8 lbs.

5K11299—List \$6.20. Net \$3.10

5K11300—Same, except with pull-chain switch and without Convenience Outlet. List, \$4.25. Net, each \$2.13

## Commercial Fixtures Lighting

Area 600 Square Feet For stores, offices, schools. Dust-proof. Gives strong light without glare. Accommodates up to 200 watt bulb. Metal parts and chain are a statuary bronze-plated finish.

Hanging Type Length, 45 inches Diameter of bowl, 14 in. Shipping wt., 12 lb.

5K11301—Keyless. List, \$7.15. Net, each \$3.60

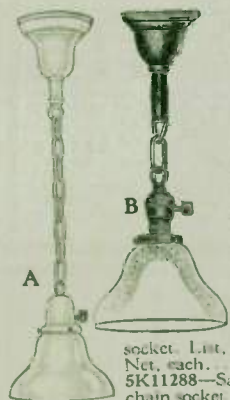
5K11302—Pull-chain. List, \$8.50. Net, each \$4.25

## Ceiling Type

Length, 12 inches. Bowl diameter, 12 inches. Shipping wt., 12 lbs.

5K11303—Keyless. List, \$5.10. Net, each \$2.55

5K11304—Pull-chain. List, \$6.45. Net, each \$3.25



## Pendant Lights

Very popular, one-light, pendants—made of genuine brass in choice of natural, satin finish or white enamel. Finest quality glass shades. Wired complete. Shipping wt., 5 lbs.

Style "A" 5K11287—Length, 36 in. Glass, 7x2 1/4 inches, with key socket. List, \$3.00. Net, each \$1.50

5K11288—Same, with pull-chain socket. List, \$3.40. Net, each \$1.70

## Style "B"

5K11289—Satin finished brass. Length, 17 inches. 6 inch glass shade and key socket. List, \$3.00. Net, each \$1.50

5K11290—Same, with pull-chain socket. List, \$3.40. Net, each \$1.70

## Plugs, Elements and Cords for Electric Appliances—Also See Page 196

### Iron Elements

Standardized electric iron elements in two sizes, adaptable to most of the standard 5 to 8 lb. irons. Specify make. Shipping wt., 8 oz.

No. Volt Net, Each

4K6061 110 57c

4K6062 220 85c

4K6063 32 90c

### Nichrome Wire

A three-section spool containing 12 feet of coiled Nichrome wire, 50 feet of Nichrome flat ribbon and 100 feet of ordinary Nichrome wire. Gives shop necessary material for repairing all kind of appliances. Shipping wt., 8 lbs.

4K6067—3-Coil Spool. Net, each \$3.90



ideal type of element. Shipping wt., 8 oz.

4K6065—Net, each 44c

### Heater Elements

Made from the finest Nichrome wire to fit most of the standard appliances on the market. Adaptable to all Edison base electric heaters. Guaranteed for one year. Shipping wt., 8 oz.

4K6064—Net, each 44c

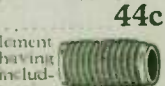
Horizontal heater element for all heaters, having horizontal elements, including some type of Hotpoint and Majestic. Shipping wt., 8 oz.

4K6066—Net, each 44c

Cone shaped heater element radiates heat waves parallel to reflector. Considered by many to be the



Shipping wt., 8 oz.



Shipping wt., 8 oz.

### Beaver Switch Plug

Fits all appliances. Controls current without pulling off cord, which causes most of the troubles with appliances. Shipping wt., 8 oz.

4K6069—Net, each 45c

Shipping wt., 8 oz.

4K6069—Net, each 45c

### Automatic Safety Plug

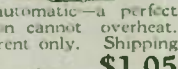
Makes any iron automatic—a perfect safety control. Iron cannot overheat. For alternating current only. Shipping wt., 8 oz.

4K6070—List, \$1.50. Net, each \$1.05

### Snap Plug Switch

A snap type appliance switch plug at a very low price. Fits all standard irons and appliances. Shipping wt., 8 oz.

4K6068—Net, each 26c





# BEE-VAC Electric Cleaners More Profits for the Dealer

The Cleaner that Beats Canvasser Competition

The Bee-Vac is a combination of 100% cleaner value and low consumer price which does away with high-pressure selling, costly demonstrations, or discussion of mechanical details. It meets and beats canvasser competition and puts a dependable, guaranteed, long-lived cleaner within the reach of every housewife. It is easily sold on a substantial margin of profit, and stays sold without service.

**Cleaning Attachments**  
Make of the Bee-Vac a complete housecleaning outfit. Used with either model. The full set consists of the following: An 8 ft. flexible rubber hose, swiveled metal connection fastened to end of hose, 5 in. aluminum nozzle, brush, steel connecting tube, 30 inch extension tube.

10K7738—List, \$5.00.  
Net .....\$3.50

Endorsed by  
Board of  
Underwriters.  
Good House-  
keeping.  
Modern  
Priscilla  
and Other  
Testing  
Labora-  
tories

Model  
"G"  
Bronze  
Bearing  
Retail \$29.50  
Your Net  
\$21.15

Ball  
Bearing  
Model  
Retail \$34.75

Attach-  
ments  
Your  
Net  
\$23.50

A high quality, light weight, deep-cleaning, dependable electric cleaner—handsome in appearance, and convenient to use in every way. Powerful suction concentrated in a narrow nozzle opening, together with a double, swing-back brush, gets the deepest dirt and most stubborn litter.

Has more suction than other cleaners. The swing-back brush is an exclusive feature; it cannot become detached or lost.

Super-efficient 1 1/2 h. p. Birco universal motor of finest construction is fully encased in dust-proof coverings, and permanently lubricated at the factory. It requires no oiling of any kind, thus eliminating bearing troubles, and giving the motor exceptionally long life. Motor case and nozzle castings are of highly polished aluminum. For 110 volt current D. C. or A. C. 60 cycles or less. Complete with 20 foot cord.

10K7739—List, \$34.75.  
Net, each .....\$23.50  
In lots of three or more, Net...\$22.00

## BEE-VAC JUNIOR Vacuum Brush

Bee-Vac Junior, the Super-Quality Vacuum Brush, has an instant appeal—not only to the housewife for use on overstuffed furniture, clothing, stair carpets, etc.—but also to the business man and store-keeper as well. Cleaning automobile upholstery, billiard tables, office furniture and fixtures, show cases, etc., are but a few of the thousand and one uses for this wonder brush. It has a super efficient 1/2 h. p. Birco universal motor of finest construction. Bronze bearings are protected by dust-proof coverings. A perfected oiling system eliminates bearing and lubrication troubles, giving the motor long life. Complete with 20 foot cord.

10K7741—List, \$19.50.  
Net, each .....\$12.75  
In lots of 3 or more, Net...\$11.75

## Two Year Guarantee

Every part of the Bee-Vac, motor and all, carries an unrestricted guarantee for TWO full years—twice as long as the usual electric cleaner guarantee. This guarantee is backed by 18 years of manufacturing experience and nearly two million dollars in resources.

Every part of the Model G Bee-Vac—motor and all—carries an unrestricted guarantee for TWO full years. The Model G is similar in every way to the Ball Bearing Bee-Vac and answers the same description as that given for it opposite with the following exceptions: Motor is equipped with bronze bearings, fully protected by dust proof coverings. A perfected oiling system overcomes bearing troubles. It has a purple dust bag with yellow letters. For all 110 volt current A. C. or D. C. 60 cycles or less. Complete with 20 foot cord.

10K7740—List, \$29.50.  
Net, each .....\$21.15  
In lots of 3 or more, Net, each, \$20.10  
Note: If you wish to order one Model "G" Bee-Vac and two Ball Bearing Bee-Vacs or vice versa, the three lot price for each will be given providing the total is three.

# The Famous ROYAL Electric Vacuum Cleaner

Nationally Advertised—It Sells on Demonstration! Gets ALL the Dirt by Air Alone!!

Here is a line that the Dealer can use as a steady, sure source of extra profit by but little sales effort. Any Dealer who signifies his intention of pushing the Royal line will be placed in touch with the manufacturer by us, so that he may take full advantage of the Royal Plan. This includes:

- 1st—Fair "trade-in" plan—whereby the manufacturer will co-operate with the dealers in taking in old cleaners on trades for new Royals.
- 2nd—"Fifty-Fifty" Newspaper allowance by the factory. Also 50-50 allowance for November-December Billboard Campaign.
- 3rd—Factory Co-operation—expert window demonstration free, etc.

We believe this to be one of the best lines of vacuum cleaners on the market and it enjoys a nation-wide popularity.

## Royal Standard

Highly efficient, powerful suction, 14 in. cleaning nozzle, 1/2 h. p. motor, complete attachments, easily emptied dust bag. Will clean into corners, clean tile, cement, wood floors, rugs, furniture, clothing and polish-finished floors. Weight, 11 1/2 lbs. Fully guaranteed. Excellent for house use. Shipping wt., 20 lbs. Complete with 20 foot cord.

10K7734—List, \$48.50,  
Net, each .....\$32.25

In lots of 2-5, Net, each, \$31.00  
Attachments for Standard Royal.

10K7737—List, \$8.50,  
Net, each set .....\$5.50

## Super Royal

Super efficiency, 50 per cent higher suction than the standard, 15 in. cleaning nozzle, 3/4 h. p. motor, extra wide opening top emptying dustbag. Complete attachments. A most thorough, rapid cleaner for heavy duty service. Weight, 11 lbs. 14 oz. Excellent for: homes, theatres, hotels, apartments, public buildings, etc., where thorough and rapid cleaning is required. Fully guaranteed. Shipping wt., 22 lbs. Complete with 20 foot cord.

10K7735—List, \$62.50,  
Net, each .....\$41.75

In lots of 2-5, Net, ea. \$40.00  
Attachments for Super Royal.

10K7736—List, \$10.50,  
Net, each set .....\$6.50



**Cleans By Air Alone**  
Gets all the imbedded dirt by lifting rug nap—no dirt can escape it!



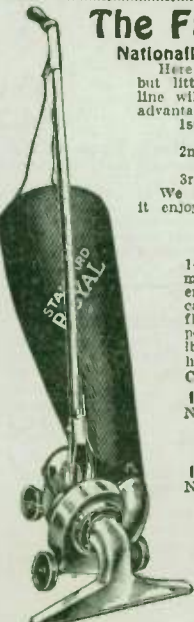
**Nozzle Adjustment**  
Fit it accurately to the job in hand—for long or short nap.



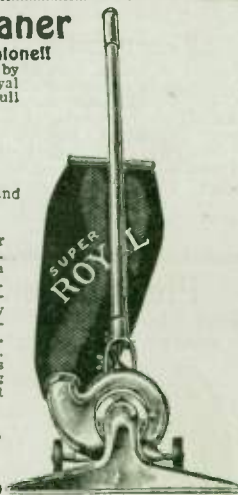
**Floor Brush**  
Exclusive feature. Two rows soft, long bristles. For floors, linoleum, tile.



**Easily Attached Hose**  
Quick change of nozzle and hose or attachments. Very popular feature.

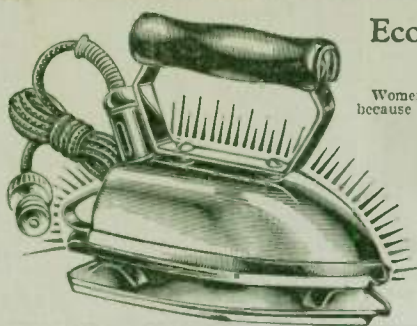


**You Can Build Up a Real Business on Vacuum Cleaners With But Little Effort**





# Push These Fine ELECTRIC IRONS For More Profits!



## Economy Electric Iron

Women especially like this iron because of its perfect balance—there is no hand nor arm fatigue even after hours of use. An especially pretty design with a medium beveled edge. Highly polished ironing surface. Nickel plated top with natural shaped etched handle. Steel rest and reversible stand. Fitted with genuine Nichrome heating element which will last indefinitely. Iron holds temperature a long time after current is turned off. Full six-pound weight. Unquestionably one of the finest irons ever made and extremely popular everywhere. Shipping weight, 9 lbs. An unmatched value at our price.

6K6024—List, \$3.50.

\$2.25

Net, each, single lots..... \$2.10

Lots of 50..... \$1.97



## Dejur Regulating Iron

Made by one of the oldest manufacturers of quality electrical apparatus. Distinctly different from all other irons in many respects, the principal one of which is that there is no plug to remove or replace. The special regulating device operated by the three little red buttons at top of handle give several changes of heat. On starting iron, all three buttons are pushed in, until iron is hot enough for use. If heat becomes too strong, another push of any of the buttons reduces it to the desired degree—thus control is quick, sure and convenient. Its rugged mechanical construction assures trouble-proof service year after year under the hardest abuse. There is nothing to get out of order. Another feature is the handle, made of genuine bakelite—will not scorch, warp, loosen, and keeps smooth, assuring perfect comfort and ease of operation. The over-sized connecting wires, protected by armored cable, prevents breaking or coming loose. 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.

6K6029—6 lb. List, \$ 8.75. Net, \$5.69

6K6030—8 lb. List, 12.00. Net, 8.40

6K6031—12 lb. List, 20.00. Net, 14.00

6K6032—15 lb. List, 21.00. Net, 14.65



## Liberty Automatic

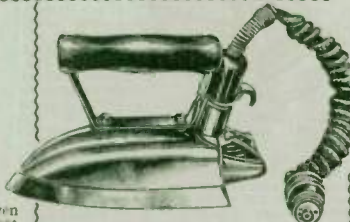
No matter how long left standing, even after forgotten, this iron will not over-heat or become too cool. Maintains a constant, smooth, even ironing temperature at all times. Extra wattage in-put insures greater heat when ironing. Cool, sustained handle, convenient heel rest and perfect balance eliminate fatigue. Graceful sloping design with beveled edges makes operation easy. Lasts much longer because will not over-heat. Absolutely guaranteed by manufacturer for two years. Genuine Nichrome heating element, thermostatically controlled. Beautifully nickel-finished. 6 ft. cord and plugs. Full six-pound weight. Shipping weight, 7 1/2 lbs.

6K6025—List, \$7.35.

Net, each, single lots..... \$5.14

Lots of 3..... \$4.77

12 or more..... 4.40



## Beveled Edge Electric Iron

Though low in price, this is an extraordinarily fine iron. Has beautiful beveled base, is perfectly balanced as to weight and has a pleasing stream line design. Etched handle is bolted clear through. Will not break or get hot.

New style heavy plug guard. Handsome, massive tip-up heel rest. Full six-pound weight. Beautiful, heavily etched finish. Improved Nichrome heating element makes for quick, even heat distribution. Large ironing surface saves time, labor and electricity. Fully guaranteed. Shipping weight, 7 lbs.

6K6028—List, \$5.00.

Net, each..... \$2.70



## DeLuxe—American Beauty

Often spoken of as the best iron made. A good, practical, serviceable, thorough, beautiful, large ironing surface, 15 1/2 x 21 1/2 inches. Large, comfortable, always cool, wood handle, special, unusual, flexible cord.

Balanced to the fraction of an ounce—doesn't tire the arm or wrist. Has cut-away nose—easier to see work on tucks, flounces, etc. Has indestructible patented sheet heating element, fool-proof, with perfect distribution of heat over entire surface. Rounding, removable, non-corroding contacts. Non-kink spring protects cord and keeps it away from work. Bottom plate machine milled as smooth as glass. 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. Will not rust or corrode. Each enclosed in beautiful shif box. Shipping weight, 8 lbs.

6K6033—Net weight, 6 1/2 lbs.; wattage, 525; for 110-220 volt

current. List, \$7.50. In lots of six, each, \$4.95. Net, each..... \$5.20

## Waage Three-Heat Electric Iron

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. 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. Weight of iron, 8 pounds.

6K6027—Retail, \$6.75. Net,.... \$4.45



## Traveler's or Juvenile Iron

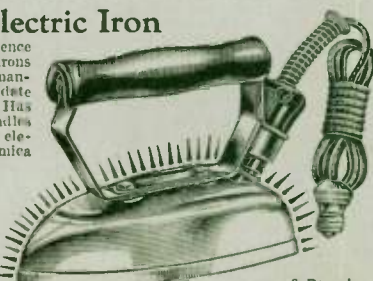
Exactly the same as any high grade standard electric iron, but smaller in size, weighing only one pound. Beautifully nickel-plated with etched handle and nicely pointed nose and beveled edge. Guaranteed to give good service. Has the finest quality element. Complete with 6 ft. cord and non-scratch plugs. Shipping weight, 3 1/2 lbs. Push this iron; it has wonderful sales possibilities.

6K6026—List, \$3.00. Net, each... \$1.10

## Marion Quality Electric Iron

The product of years of experience in the manufacture of electric irons by a well and favorably known manufacturer. Embodies all the up-to-date features known in this field. Has medium sharp nose which handles plaits and tucks perfectly. The element is hand-laced on a single mica plate, insulated both top and bottom. The wire used is the best obtainable; pressure plate matched to insure thermo contact. The terminal pins are made of bronze and can be removed and placed without removing top. Has a square heel, which gives added ironing area. Rounded edges insure speed of operation. Handle support rests on raised boxes, insuring coolness. Etched, natural shaped handle. Wattage 550; for all 110-220 volt current. Complete with cord and plugs. Shipping weight, 8 lbs.

6K6034—List, \$5.00. Net, each..... \$2.95

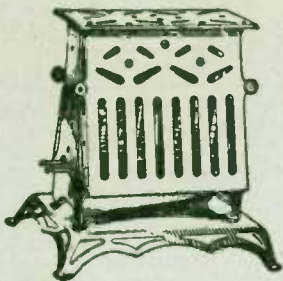


6-Pound

6K6034—List, \$5.00. Net, each..... \$2.95



### Marion Giant Flip-Flop Toaster



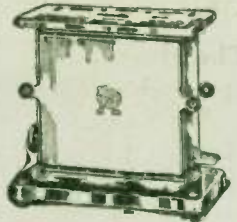
A large, speedy, moderately priced toaster that toasts two slices at one time. The special toast turning doors enable user to quickly turn the toast without touching it. Doors and handles are heat insulated for ease of operation. Element is made of the best obtainable resistance wire laced on clear mica. Toasting rack is of single piece pressed steel, highly nickel plated—cannot warp or break. All parts are coppered, heavily nickelled and highly polished. Accommodates slices 5½x6 inches, handling two at once. A very beautiful toaster with a ruggedness of construction that enables it to withstand hard, everyday usage. Operates on any 105 to 120 volt alternating current, wattage, 350. Shipping weight, 5 lbs.



**6K6036**—List, \$3.75. Net, each .....\$2.69

Special Guarantee. This Marion appliance is guaranteed against mechanical and electrical defects for a period of one year from date of purchase by the user, excepting the cord and plug.

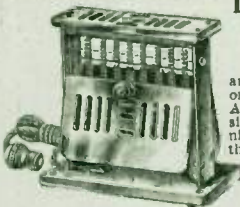
### Hold-Heet Toaster



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 plugs. For all 105-120 volt current. Finest quality heating elements. Shipping wt., 4 lbs.

**6K6044**—List, \$3.50. Net, each .....\$1.90

### Lightning 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 a porcelain frame. Equipped with 6 ft. heating cord and plug. This toaster is guaranteed to give perfect satisfaction. Operates on 110 volt alternating current. Shipping weight, 1 lb.

**6K6037**—List, \$3.00. Net, each...\$1.65

### Star-Rite Toaster

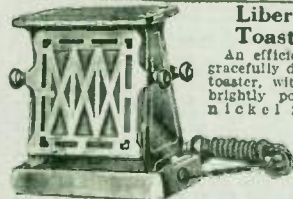
Frame and base are pressed steel with heavy nickel plating over a specially prepared copper base. Reversible type, holding two large slices of bread, which can be reversed by swiveling sideways. Height, 9½ inches. Nichrome element strung over asbestos cord. Equipped with 6 ft. cord and two-piece plug. For 105-110 volt current. Shipping weight, 4 lbs.



**6K6038**—List, \$4.50. Net, each, \$3.00  
In lots of 3.....\$2.92  
Special sales helps, circulars, window cards and electro-types furnished on request.

### Liberty Toaster

An efficient and gracefully designed toaster, with two brightly polished nickel finished



doors and Tuscan Rosewood knobs. Frame, 7¼x4 inches, and 7¼ inches high. Genuine nickel chromium coiled wire element. For all 110-120 volts, A. C. or D. C. current. Shipping weight, 5 lbs.

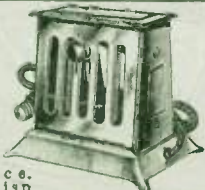
**6K6039**—List, \$3.50. Net, each, \$2.45

**6K6040**—Same, with conveniently located off and on switch for easy table control without disconnecting plug.

List, \$4.50. Net, each.....\$3.15

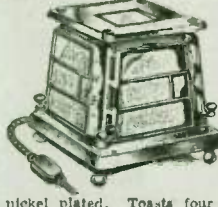
### Spec-Dec Electric Toaster

A very popular, good-looking, efficient toaster ruggedly built to give years of day after day trouble-free service. Makes evenly crisp toast in a minimum of time. Beautifully nickel plated with black wood door handles. Complete with 6 ft. cord and plug. For any 110-120 volt current. Shipping weight, 5 lbs.



**6K6041**—List, \$2.00. Net, each, \$1.15  
Lots of 12. Each.....\$1.05  
Lots of 25. Each......98

### Estate 4-Slice Toaster



One of the finest toasters on the market and enjoys wide popularity everywhere. Sturdily constructed frame, highly nickel plated. Toasts four slices of bread turning device

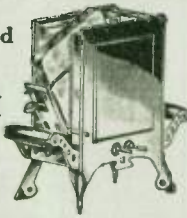
at once and has special so that the four can be turned at the same time. Genuine Nichrome heating element. Because of its extra capacity, there is a steady sale for this fine toaster. For all 110-120 volt current. Shipping weight, 8 lbs.



**6K6042**—List, \$8.95. Net, each .....\$5.96

### Permway Thoro-Bread Toaster

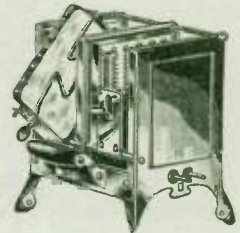
The newest, neatest, most compact and most efficient toaster ever offered. Unlike other toasters in that it toasts



the bread on each side at the same time. This makes a crispy brown toast with all the freshness of good bread retained under the crispy surface. The operation, moreover, is much faster. Heavily gauged steel, heavily nickel plated and highly polished. Tipping bread holder prevents finger-burning. Height, 7½ inches. 6 ft. cord with plugs. Shipping weight, 8 lbs.

**6K6043**—List, \$4.00. Net, each .....\$2.67

### Permway Thoro-Bread 2-Slice Toaster



Unquestionably one of the finest toasters made, and with features that make it the choice of all who see and try it. Frame is of heavy gauge steel with special nickel plating, highly polished. Toasts two slices of bread on both sides at the same time. This special feature produces a crispy brown toast without losing the freshness of the original bread. A feature found in no other toaster. The bread holder is so designed as to automatically center the toast between the two elements, assuring even toasting regardless of the thickness of the slice. Tipping bread basket with handle prevents burning fingers. Height, 7½ inches; width between elements, over one inch. Insulated feet. 6 ft. cord with plugs. Shipping weight, 8 lbs.

**6K6045**—List, \$6.50. Net, each .....\$4.34

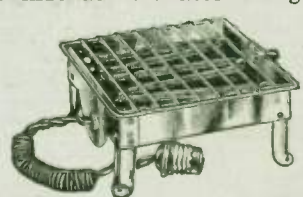
### Kook-Rite Electric Stove



For cooking, frying, toasting. Boils water in 1½ to 15 minutes. Steel black enamel finish. So strong that it will support a 200-lb. weight. Removable legs, special heating element of Porcel-Lava and high grade Nichrome wire. Will not scorch furniture. For any 105 to 120-volt current.

**6K6046**—Black Enamel. Retail, \$2.10. Net price.....98¢  
Lots of 3. Each.....84¢

### Combination Toaster Range



Sturdy and compact electric stove. Makes toast; grills meat; cooks, fries and boils, without heating up the room. Especially desirable for afternoon or evening lunches, or for quick cooking at any time. Heating coils glow red hot almost the instant switch is turned on. You can prepare a meal without leaving the table. Top size, 5 by 6 inches. Metal parts nickel plated and polished. Complete with 6-foot cord and attaching plug. For 105 to 120-volt current.

**6K6047**—Retail value, \$1.50. Each.....87¢



# ELECTRIC PERCOLATORS AND COFFEE SETS

The Most  
Acceptable  
Gift  
Colonial



**9-Cup Urn Set**

Beautiful pattern. Made of extra heavy spun metal in rich nickel finish; non-heating chrome handles. Patented exclusive heating element from cold to percolating heat in one minute. Gravity reset safety switch automatically shuts off when dry. Gold lined sugar and creamer. Tray 13 inches. For 105-120 volt current. 6-foot cord and plug.  
**6K6001**—Set complete. List, \$30.00, Net, \$19.55  
**6K6002**—Urn only. List, \$18.00, Net, \$11.25

Royal Quality Sets  
One Minute  
Percolation  
Use Less Current  
Make  
Better Coffee



**7-Cup Urn Set**

Tasteful old English design. Rich heavy nickel plate finish with chased-effect band. Gold lined Sugar and Creamer. 13-inch tray. Special heating element starts percolating from cold in one minute. Automatic shut-off if it runs dry. For 105-120 volt current. 6-foot cord and plug. Shipping wt., 11 lbs.  
**6K6003**—Set complete. List, \$25.00, Net, \$17.85  
**6K6004**—Urn only. List, \$16.00, Net, \$11.20

The Best  
Values

Old  
English  
Design

EVERY OFFER  
AN AMAZING VALUE



**HOLD-HEET 9-Cup Urn Set**

A most strikingly designed set that makes an ideal wedding or Christmas gift. Made of sparkling Nicalume, a wonder metal formed by coating aluminum with nickel. Has a permanent silver-like brilliancy that always looks new and is easily kept clean with dry cloth. Nickel finished tray 12 1/2 x 20 1/2 inches with Colonial pattern creamer and sugar bowl, gold plated inside. Nationally advertised and guaranteed for two years. Urn has finest quality element and is full 9-cup capacity. For 105-120 volts current. Shipping wt., 12 lbs.  
**6K6015**—Set Complete. List, \$24.50, Net, \$14.70  
**6K6016**—Urn only. List, \$14.00, Net, 8.40

Royal Per- Rochoster Quality colators



Finest quality—pumps faster, makes coffee quicker, uses less current. Thermo—statte principle element starts percolation from cold water within one minute. Gravity reset safety switch automatically shuts off if percolator runs dry. Beautiful heavy flanged cover, element nickel plated finish. 6-foot handle, take apart basket. Cord and plug. Shipping wt., 4 lbs.  
**6K6005**—3-cup. List, \$8.50, Net, \$5.95  
**6K6006**—5-cup. List, \$9.50, Net, 6.65  
**6K6007**—7-cup. List, \$10.50, Net, 7.35  
**6K6008**—9-cup. List, \$12.00, Net, 8.40

Empire  
2-Cup  
Percolator  
A Feature!

A big bargain, but wonderful quality. Panel design. Seamless drawn aluminum body. Highly polished. Enamelized handle. Emerson type of heating element makes delicious coffee more quickly than any other kind. Valveless double-walled vacuum pump. Insulated base. 6-foot cord and plugs. For 105-110 volt current. Shipping wt., 1 1/2 lbs.  
**6K6000**—List, \$2.98, Net, \$2.23



Popular Pure  
Aluminum  
Percolator

Very popular type that heats quickly and retains heat after current is turned off. Polished aluminum in favored panel design. Enamelized handle stays cool. Insulated footed base. 6 foot cord and plugs. For 105-120 volt current. Shipping wt., 3 lbs.  
**6K6012**—6 cup. List, \$4.00, Net, \$2.38  
**6K6013**—8 cup. List, \$4.50, Net, 2.50



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 insulating pot of heating element. 6 foot cord and plugs. Full 9-cup size.  
**6K6009**—List, \$6.00, Net, \$4.15

7 Cup  
Party Set



Stunningly beautiful English design set in the bright polished nickel finish. Has permanent silver-like finish. Refined, tasteful lines with hand carved effect heating. Gold lined Sugar and Creamer. Quick heating percolator with ever-cool enamelized handle. Percolates from cold water in one minute. Automatically shuts off when dry. Uses little current from 105-110 volt line. Cords and plugs. 13 inch Tray. Gold lined Sugar and Creamer. Wt., 11 lbs.  
**6K6010**—Complete Set. List, \$21.00, Net, \$14.70  
**6K6011**—Percolator only. List, \$12.00, Net, \$8.40

4 Piece Set



Made of heavy aluminum, beautifully paneled in an original and striking design. Highly polished and finished. Percolator fitted with full size genuine Nicalume element, heat resisting glass top, plug guard and enamelized "cool" handle. Insulated base. Full 8-cup size. Tray, sugar and cream server are made to match faithfully. Guaranteed. A very fine set. For all 105-120 volt current. Cord and plugs. Shipping wt., 3 lbs.  
**6K6020**—Complete set. Net, \$4.90  
**6K6021**—Percolator only. Net, 3.45

HOLD-HEET Nicalume  
Percolators



Colonial  
Design

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 unextractable elements in the grounds. 105-115 volts. With 6 ft. gray silk cord. One of the very best percolators made and one every dealer should push for big profits and permanently satisfied customers.  
**6K6017**—6 cup. List, \$9.85, Net, \$5.92  
**6K6018**—9 cup. List, \$11.85, Net, \$7.11

Permway Thoro-Perk Balanced  
Percolation

9-Cup  
Size



A very unique and superior percolator, with the heating element in the separable base. This permits of easy serving and cleaning—two points that appeal strongly to every housewife. Special grade 20 gauge aluminum is used with a fine polished finish that lasts indefinitely. Full 9 cup size. Flame guarded, black handle. Genuine Nicalume IV element entirely enclosed. One of the finest, most popular percolators on the market. Makes coffee unexcelled! For all 105-120 volt current. 6 foot cord and plugs. Shipping wt., 5 pounds.  
**6K6019**—List, \$7.00, Net, \$4.55



# Every Home Needs These Handy Appliances



## Eskimo 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. A pretty, cleanly, sanitary-looking machine. Comes complete with adjustable stand and 7 feet of cord with toggle switch and 2-piece plug. For 110 volt, 60 cycle

current. Shipping weight, 7 lbs.  
6K6048—List, \$7.00. Net, each.....\$4.55

## Electric Beater



Perhaps one of the most welcome developments in the field of work and time-saving devices for kitchen use. Works very fast. For beating, whipping, stirring and mixing quickly and thoroughly. No other device equals it. Equipped with reliable Hamilton Beach Universal 110 volt motor. Has variable speeds with right and left-hand control switch. All gears are enclosed, making it entirely safe. Absolutely clean. No dirt or muss. Highly nickel plated. Polished finish. Beater has eight blades of the double acting type. Easily cleaned. Handles very easily and weighs only 3 1/2 lbs. Fully guaranteed. Shipping wt., 5 lbs.  
6K6049—List, \$20.00. Net, each.....\$15.75



## Hamilton Beach Type C Vibrator

The professional instrument, finest Vibrator made. It has most powerful motor, gives the true Swedish rotary movement which medical science recog-

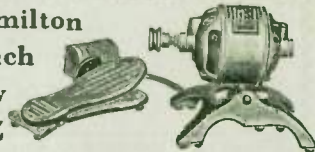
nizes as the most effective stroke. Its action is deeply penetrating, in any of its seven speeds. Very attractively finished in triple-buff-and-polish aluminum. Light, yet strong. Especially recommended for physicians, nurses, massage, barbers, and for energetic home treatment. Outfit consists of Vibrator; six applicators; ample cord and plug; and the 300 page library-bound book, "Health and How to Get It"; all packed in a handsome black leatherette carrying case lined with velvet. Shipping wt., 8 lbs.  
6K6050—Retail price, \$29.50.  
Net, each.....\$20.00



## Arnold Sanitary Automatic Mixers

Unquestionably, one of the finest mixers made. Guaranteed to mix in half the time required by any other mixer. This model used a motor exclusively by largest fountains throughout the country. A special feature is the agitator with double propellers so that it takes less than a minute to whip creamy smoothness a thick malted milk. This saves the motor and doubles the life of the mixer. Agitator and container of nickel silver. Won't tarnish or corrode. The stand is heavy metal with thick, permanent, porcelain finish. Rubber feet. Finest motor works on any 105-120 volt current. Shipping weight, about 10 lbs.  
6K6053—Net, each.....\$22.50

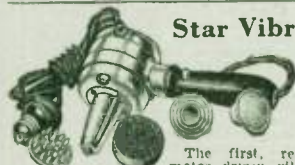
## Hamilton Beach Sew E-Z



## Sewing Machine Motors

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 A. C. or D. C., 110 volt, 60 cycle current. Shipping wt., 15 lbs.  
6K6051—List, \$18.50.  
Net, each.....\$13.00  
6K6052—Same, except for 110 volt, 25 cycle current. List, \$18.50.  
Net, each.....\$13.00

**Every Dealer Can Find a Big  
Market for These Specialties  
—Push Them!**



## 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 rosewood handle. Vibrator operates on either alternating or direct current, 105-120 volts. Four applicators—cup, comb, disc and sponge. Packed in imitation leather covered wooden box.  
6K6057—Retail price, \$7.50.  
Net.....\$5.00

## Sunburst Therapeutic Lamp

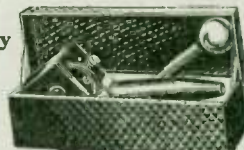


Hailed everywhere as a great boon for treating muscular trouble and minor ailments. Produces a strong health-giving ray. This effect comes from a specially concentrated filament lamp placed in proper focus with the highly polished, specially designed reflector. Switch conveniently located at top of ivory handle. Complete with bulb and 6 ft. cord extension. Shipping weight, 5 lbs.  
6K6059—List, \$5.00. Net.....\$3.25

## Northern Heating Pads

Made to conform to the exacting requirements of doctors, nurses and health authorities. This fine pad provides constant heat, which can be maintained unvaryingly for hours at a time. Has over-sized heating element, providing perfectly balanced heat, just the right volume, constantly. Wiring in pad is spiral, to prevent breakage from bending and twisting. Thermostat is of the most sensitive type, with platinum points, which insure long life and positively prevent overheating. Size, 12x15 inches. 10 ft. silk cord. 3-heat switch. For 110 volt, 60 cycle current only. Shipping wt., 2 1/2 lbs.  
6K6058—List, \$7.00. Net, each.....\$4.35

## Marvel Violet Ray Machine

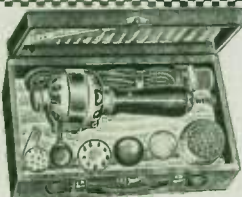


This Model is a marvel for simplicity and ease of operation. Nothing to get out of order. Works on either direct or alternating current. Complete with general applicator, and packed in handsome container. Guaranteed for one year.  
6K6056—Retail price, \$8.50.  
Your net cost.....\$5.60

## MASTER Violet Ray Machine



This machine is of the one-piece type; that is, the entire outfit is contained in the handle and there is separate Cell contained in cabinet or carrying case. For those who desire simplicity in appearance and operation this Master One Piece type machine offers the greatest efficiency possible. The entire mechanism is enclosed in a beautiful highly polished Hard Rubber handle. Price includes Carrying Case, General Electrode, Comb Electrode and Metal Electrode.  
6K6054—Retail price, \$15.00.  
Net.....\$7.95



## Arnold Vibrator

Never was there a Vibrator more thorough in its efficiency or more gentle and soothing in application than the Arnold. It stimulates the nerves and sends the blood surging through the veins, vitalizing every fiber of the body and bringing the beautiful rose-bloom of youth and health into the cheeks. The very finest machine that can be constructed. A full set of 6 applicators included, together with a 64 page book on "Vibratory Massage"—and beautifully lined case.  
6K6055—Net.....\$11.00





## WHITE CROSS Waffle Iron

With Cast Aluminum Grids

Bakes full-sized golden-brown waffles, both sides at the same time. No grease is required—smoke and odor are entirely eliminated. Uses no more electricity than the ordinary iron or toaster. The grid proper is 7 inches in diameter and made of pure cast aluminum. Beautiful, graceful lines, mirrored nickel finish, ebonyized black handles. Complete with 6 ft. cord and plugs. Guaranteed heating elements and perfect heat control. Shipping weight, 10 lbs. 6K7281—List, \$7.50. Net, each.....\$4.95

## Bersted Lightning Electric Waffle Mould

Low in price but fully guaranteed to give absolutely satisfactory service. Height to top of center, 6 inches. Pure die cast aluminum. 7 1/2 inches in diameter. Case made of steel, beautifully nickel-plated finish, slotted hinged to allow for expansion. Black ebony handle. Nichrome heating elements top and bottom. Will bake waffle on both sides at the same time, quickly and evenly. Complete, with 6 ft. super-heater cord and plugs. For any 110 volt current. Shipping weight, 10 lbs.

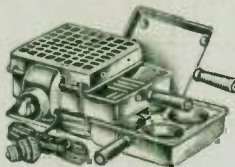
6K7282—List, \$6.50. Net, each.....\$4.55



## 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 cupcakes. 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. Fines heating element coils supported by porcelain bushings. Cooking surface, 7x7 inches. For all 110 volt current. 6 ft. cord and plugs. Shipping weight, 10 lbs.

6K7300—List, \$12.50. Net, each.....\$8.10



## Permway Marcel Waver

Produces the professional touch in perfect and deep marcel in a few moments' time, even in hands of the most inexperienced person. Heating element so designed that there is no danger of burning hair. Highly nickel plated and finely polished with pyralin finished handles. White silk cord and two piece attachment plug. Iron equipped with spring cord guard. Guaranteed for one year, but should last a lifetime with ordinary use. For all 110 volt current. Shipping weight, 1 lb. 6K7297—List, \$1.50. Net, each...95 c

In Colors



## Hold-Heat Curling Irons

The final word in performance and appearance. Roller-bearing spring action insures positive pressure. All rods and ferrules are heavy brass nicely nickel-plated. Trouble-proof rubber covered tinzel cord. All curlers except 6K7293-d have disconnecting cord connection in handle.

Finish	Rod Dim.	Retail	Each
6K7293—Rose.	5/16x5/16	\$1.60	\$0.96
6K7295—Ivory.	5/16x5/16	2.50	1.47
6K7301—Orchid.	5/16x5/16	2.75	1.62
6K7302—Rose.	5/16x5/16	2.75	1.62

## Improved STAR-Rite

### Electric Waffle Iron



An efficient, attractive, well-built waffle iron that is very popular everywhere. Shell of drawn brass,

heavily nickel-plated and highly polished. Removable grids of pure aluminum, 6 1/2 inches in diameter. Attractive ebonyized side handles. Mica construction element gives quick, strong, even heat to all parts of mould. Type base is insulated against heat. One plug distributes electricity to both top and bottom grids. For all 105-120 A. C. or D. C. current. Complete with 6 ft. cord and plugs. Shipping weight, 11 lbs.

6K7298—List, \$9.00. Net, each, \$5.85



## STAR-Rite Grill

Complete and compact. Provides every kind of utensil for table cooking.

Constructed of high grade steel, copper plated—then nickel-plated. Will not rust. One deep pan for broiling, boiling or frying, one griddle or shallow pan, three egg cups, one cover, holder and frame. Complete with cord and attachment plug. For 105-120 volt current.

6K7376—Retail price, \$5.95. Net, each.....\$3.95

## STAR-Rite Hair Dryer



A far more efficient type of dryer than the former style, and one that gives a greatly increased volume of air, hot or cold as desired. Removable heating element in funnel—start and stop switch in handle for air switch on cord for starting and stopping motor. Very light weight. Row-wood handle. Operates on either alternating or direct current, 105-120 volts. Comes in leatherized wooden box.

6K7393—Retail, \$9.00. Net, each.....\$6.00



## Hold-Heat Waffle Iron

### De Luxe Model Most Beautiful Made!



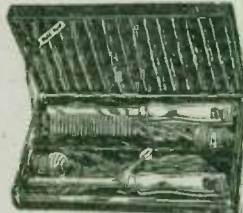
The most beautiful waffle iron on the market. A masterpiece, designed by a famous artist. Makes full size, large waffles. Drip catcher on edge of plates in addition to large base, which acts as a tray and drip catcher. Die cast aluminum plates require no grease, eliminating all smoke and odor. Ample expansion hinge. Octagonal ebonyized handles. Shell of heavy brass, beautifully etched and finished in highly polished nickel plate. 5 1/2 inches high; base, 9 1/2 inches. For all 105-115 volt current. Cord and plug included. Shipping weight, 13 lbs.

6K7299—List, \$12.00. Net, each.....\$6.40

## De Luxe Curling Iron

The most beautiful Curling Iron made. Comes in elegant silk-lined box. Removable connector in handle. 105-125 volts. 6K7291—Ivory or Rosewood finish. Size of rod, 5/16x3/4. Retail, \$3.25. Each.....\$1.82 6K7292—Ivory or Rosewood finish. Size of rod, 3/8x3/4. Retail, \$3.50. Each.....\$1.98

## Hold-Heat Special Gift Boxes



## Combination Set

Curling Iron and Drying 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. 6K7290—Ivory finish. Retail, \$6.00. Each.....\$3.38



# PORTABLE ELECTRIC HEATERS



**Quick  
Clean  
Heat**

**Every  
Bathroom  
Should Have  
One**

**The  
Handy**

Due to oval shaped bowl, the heat rays strike each other forming a fan of even intense heat. No "hot" or "cold" spots—just an even glow of heat with wide radius. Special Hinge Joint makes it adjustable to any angle. For any 105-120 V. current. Attractive cast iron base with beautiful 3-coat, antique, verdant green finish. Permanent and washable. Extra heavy gauge bowl, diameter 12 1/2 inches, highly polished and lacquered. Throws every heat unit forward. Handle permits moving as desired without burning hands. Height, 17 inches. 7 foot cord. Removable element and guard.

**6K7379—Retail, \$4.00.**  
**Net, each.....\$2.75**

## White Cross Electric Automatic Waterless Pressure Cooker

Made from heavy, pure aluminum. Inside perforated aluminum vestibule compartment and wire rack to support roasts, fowl, etc., mounted on four nickel steel legs. Warning whistle moulded into lid enables operator to adjust heat at proper time. The cover fits into a special groove and makes water tight seal when in use so cooking vapors can escape. Fitted with genuine Nichrome heating element. Rotary snap switch for turning heat high, low or off. Operation is very simple. You can bake, roast, steam or cook foods in this remarkable cooker in less time and with better results and at less expense than in any other way. One of the most convenient, efficient electrical appliances made. Works on all 110-125 A. C. or D. C. current. Ship. wt., about 12 lbs.

**6K6992—List, \$10.50.**  
**Net, each.....\$6.85**



## Marion Portable Electric Radiator

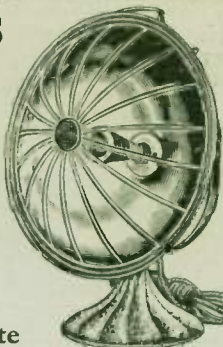
Ideal for small offices, sleeping porches, bedrooms, stores, etc. Made of pressed steel, coppered and nickel plated and highly polished. Heat reflector is finished in black Japan. Legs are adjustable for wall mounting or floor use. Equipped with 3-heat reciprocating switch. Draws 1,500 watts. Not suitable for lamp socket operation. Shipping weight, 15 lbs. For 110 volts.

**6K11310—List, \$20.00.**  
**Net, each....\$14.00**



**Compact  
Hot!  
Easy to  
Move  
About**

**A  
Desirable  
Addition  
to  
Any  
Home**



## The Star-Rite

This handsomely designed heater has a solid copper reflector, highly polished, which throws an unusually large amount of heat. The guard is also of copper. Easily detached 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.

**6K7378—Retail price, \$6.50.**  
**Net, each.....\$4.34**

## The Leader

**Retail \$3.50**

**NET  
\$1.45**



A thoroughly reliable portable electric heater at a heretofore unheard of low price. Has 10-inch bowl with highly polished copper plated reflector. Stand and back neatly enameled. 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.

**6K6957—List, \$3.50.**  
**Net, each.....\$1.45**

## Permway Aunt Sarah's Electric Oven

The fastest selling specialty appliance on the market. It bakes, broils, and browns perfectly as quickly as a gas oven, yet it does not heat the kitchen, and costs very little to operate.

Approved by the Priscilla Proving Plant. Made of polished, rust-resisting steel. 11 1/2 inches in diameter and 10 inches high. The heating element is of refractory material of the best grade, and IV Nichrome wire furnishes the heat. 6 ft. cord and attachment plug. For any 105-120 volt current. Ship. wt., 9 lbs.

**6K6993—List, \$3.50.**  
**Net, each.....\$2.38**



## Permway Thoro-Cook Double Boiler

The ideal utensil for cooking the various breakfast cereals, boiling eggs, etc. Easily and quickly cleaned. Has 3-pint capacity, the lower portion being one quart size and can be used alone if desired. The heating arrangement is of unusual design, being recessed up and into the portion of the double boiler. This makes for quick heating and easy cleaning. Made from special alloy aluminum of heavy gauge, highly polished, presenting an unusually attractive appearance. Trimmings of highly polished nickel and hexagon black ebony finished handles. 6 ft. cord with plugs. For all 110 volt current. Shipping weight, 4 lbs.

**6K6994—List, \$6.00.**  
**Net, each.....\$4.20**



## Liberty Twin Hot Plates

A general utility hot plate. Frame, 18 1/2 x 18 inches of "Armo" iron finished in blue-black and white vitreous enamel and wiped edges. Legs are beautifully nickel-plated finish. Nichrome IV or Chromel "A" elements mounted in 6 in. Liberty special refractory bases. Controlled by "on" and "off" tumbler switches. For all A. C. or D. C. 110-120 volt current. Shipping weight, 12 pounds.

**6K5997—List, \$8.85.**  
**Net, each.....\$6.20**

Sales help: Display cards, booklets, folders and other advertising material will be furnished gratis on request.

## Permway Economy Table Stoves

One of the finest, most beautiful lines of hot plates on the market. Very rugged and strong in construction with gray baked stove enamel top and highly nickel plated legs. Has extra heavy Nichrome IV element wire. Controlled by a reciprocating switch controlling temperature to high, low and simmering. For all 110 volt current. Detachable cord and plug. Guaranteed for one year and with ordinary care should last a lifetime. Shipping weight, single, 12 lbs.; double, 22 lbs.

**6K6995—Single.**  
**List, \$8.50. Net, each.....\$5.68**  
**6K6996—Double.**  
**List, \$12.50. Net, each.....8.35**



## White Cross Electric Table Stoves, 110 V.

This electric stove is made in three sizes, one, two and three burner. Constructed of sheet steel finished in black enamel, nickel trimmed, and will stand years of hard service. Has a one-heat indicator Rotary switch at each burner and draws 5 Amperes. Finished complete with standard length (sockets lined) heater cord with two-piece plug.

**6K7383—One Burner, size 9x9x5 1/2 inches. List, \$3.80. Net.....\$2.57**  
**6K7384—Two Burner, size 9x18x5 1/2 inches. List, \$6.00. Net.....\$3.58**  
**6K7385—Three Burner, size 9x27x5 1/2 inches. List, \$8.00. Net.....\$5.34**

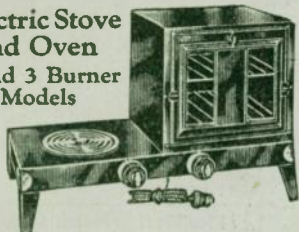


## National Electric Cabinet Ranges



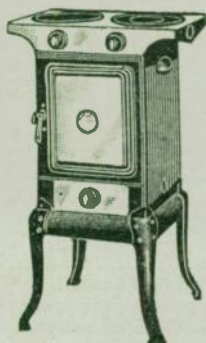
**6K7820**  
Electric Cabinet  
Range  
Retail Price \$29.00  
Net Price  
**\$19.33**  
heat can be secured and maintained at all times. Simply plug in at one receptacle for cooking or the other for baking.

## Electric Stove and Oven 2 and 3 Burner Models



Every housewife can now afford this modern way of cooking. These ranges are unusually substantial in construction, good looking, economical in heat consumption and the three-heat reciprocating switch at each unit regulates the heat to any desired temperature. They are made of heavy sheet steel, finished in heavy black enamel, nickel trimmed.  
**COMPLETE WITH OVEN 11x11x12 INCHES WIDE.**  
**6K7821**—Two Burner, size 11x24x3½ inches high. List, \$14.00. Net, \$9.33  
**6K7822**—Three Burner, size 11x24x3½ inches high. List, \$17.50. Net, \$11.67

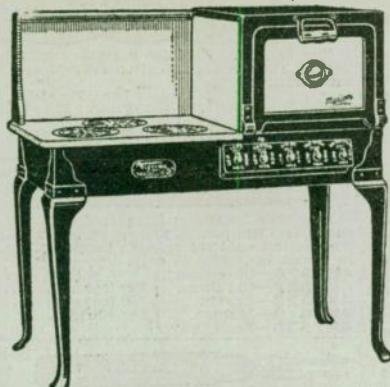
## The New Super-Heat High Speed WILWEAR Electric Range



**Bakes, Broils, Roasts, Toasts**  
A most popular type of electric range, with an amazing number of special features. Heavy steel base and frame finished in black baked enamel; very durable and rust-resisting. Pearl-gray porcelain on hot plate door and switch plate. Oven lined with Sherardized steel, guaranteed rust-proof. The oven is specially insulated with J-M asbestos sponge felt. Reversible heater, semi-flush mount switches providing control for high speed super-heat which connects 1100 watts in large plate for quick cooking. Coils are of Nichrome wire, very easy to replace. Top cooking plates are 8 in. in diameter. The top of oven contains removable rust-proof broiler unit with perfect distribution of heat. Heavily insulated Crown door with quick-acting dial thermometer. Large 8 inch unit heats oven to cooking temperature in 15 minutes. Special switch for oven and broiler. Dimensions: Range, 35 in. high; oven, 12x12x11 in.; stove top, 13x20 in.; burners on hot plate, ¼ in. and ½ in. diameter; oven broiler unit, 8½x9 in. This is an especially quick and economical range in operation and enjoys a wide popularity. For 105 to 115 volt current. Shipping wt., 90 pounds.  
**6K7823**—List, Complete, \$59.50.  
Net, each ..... **\$38.68**

## Marion Quality Electric Ranges

These are generally known as one of the finest lines of electric ranges on the market. Tops are of pressed steel and equipped with 8-inch radiant type surface units. Each unit, including the oven, is controlled with a 3-heat switch. The units have coils of the spiral type laid in deep grooves in a clayed product compound which reflects the heat onto the cooking utensil, making for 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 in any way. Extra heavy pins and nuts are used at all terminal connections. Complete instruction cards are sent with each range, telling how to operate and cook successfully with the Marion. These ranges are very economical in operation.



### Marion Model 99 Electric Ranges

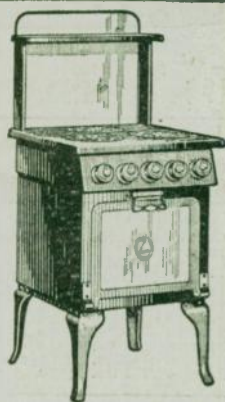
Designed to fill the needs of small families and apartment house installations. This range embodies all of the accepted improvements in electrical cooking equipment and enjoys a wide popularity everywhere. Equipped with three Cloverleaf Surface Units, One Baking Unit, One Broiler Unit—each 1200-600-300 watts capacity. Frame is of Armo rustless steel in black, high gloss, heat-proof Japan with white porcelain top and splashers. Oven has heat indicating thermometer. Oven is of Wilder aluminized steel. Heating units controlled by 3-heat Diamond H reciprocating switches. Dimensions: Size of oven, 16x16x12 in.; size of cooking top, 21½x24½ in.; height of cooking top, 31½ in.; total height, 46 in.; floor space, 22x44 in.

For 110-120 volt, 60 cycle A. C. current. Shipping wt., 200 lbs.  
**6K11195**—List, \$99.00. Net, each ..... **\$65.00**  
Same as above, except all-over glistening white porcelain enamel, baked on Armo Ingot iron. The most beautiful and durable electric range made.  
**6K11196**—List, \$125.00. Net, each ..... **\$92.50**

### Marion Model 55

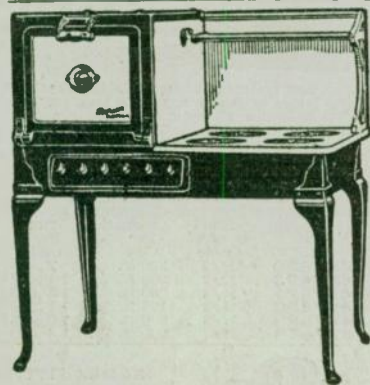
A very popular style of electric range of the low oven type construction and designed for the installation where space is limited. Its cooking capacity is large enough for the needs of the average family. It is made of Armo rustless steel and finished in black baked Japan, which will retain its lustre throughout the entire life of the range. White porcelain top and back splashers. The interior of the oven is made of Wilder aluminized steel that resists rust. The top is fitted with two Cloverleaf surface units, 1200-600-300 watts capacity; one Cloverleaf surface unit, 1850-825-413 watts capacity; one top broiling unit, 1200-600-300 watts capacity; one baking unit, 1200-600-300 watts capacity. All heating units are controlled by 3-heat reciprocating snap switches, thus insuring low current consumption and ideal cooking control. The oven is insulated on all sides with mineral wool and equipped with an indicating thermometer. Dimensions: Size of oven, 16x16x12 in.; size of top, 22x22 in.; height of cooking top, 32½ in.; floor space, 22x22 in. One of the finest little ranges of this type made and will give exceptionally satisfactory service. For 110-120 volt, 60 cycle A. C. 2-wire current. Shipping weight, 165 pounds.

**6K11197**—List, \$70.00. Net, each ..... **\$49.00**  
**GUARANTEE:** All Marion electric ranges are guaranteed against mechanical and electrical defects for a period of one year.



### Marion Model 100, Electric Range

A very new development in electric range construction, and designed to meet the needs of the large family. In this model are combined workmanship of the highest order and the very best materials obtainable. Completely made of Armo Ingot iron and will last a lifetime. Finished in high gloss black, heat-proof Japan with glistening white porcelain enamel cooking top, back and side splashers. Oven front is also porcelain enameled and fitted with a thermometer which accurately indicates the temperature in the oven. All the heating units are controlled by Diamond H 3-heat reciprocating switches and are wound with the best grade resistance wire. All the units are removable and interchangeable. The following units are furnished: In surface—3, 1200-600-300 watts, and 1, 1600-800-400 watts; in oven top—1, 1400-1700-350 watts, and in oven bottom—1, 1400-700-350 watts. Dimensions: Size of oven, 16 in. wide, 14 in. high and 20 in. deep; size of cooking top, 24x25 in.; height of cooking top, 31½ in.; total height, 49 in.; floor space, 26x34 in. For all 110-120 volt, 60 cycle A. C., 2-wire current. Shipping weight, 288 lbs.  
**6K11198**—List, \$140.00. Net, each ..... **\$105.00**







### Solid Single Braid Rubber Covered Wire

Number	Size	Per 100 ft.	Per 1000 ft.	Ass'ts 5000 ft.
4K6270—Black	14			
4K6271—White	14	\$0.95	\$ 6.36	\$ 5.25
4K6272—Red	14			
4K6273—Black	12			
4K6274—White	12	1.35	10.70	10.55
4K6275—Red	12			
4K6276—Black	10			
4K6277—White	10	1.75	14.15	13.95
4K6278—Red	10			
4K6279—Black	8			
4K6280—White	8	2.30	20.45	20.25
4K6281—Red	8			

### Standard Double Braid Rubber Covered



Number	Size	Per 100 ft.	Per 1000 ft.
4K6282—Black	8	\$ 2.75	\$ 26.75
4K6283—Black	6	3.95	37.45
4K7085—Black	4	6.25	51.40
4K6284—Black	2	7.55	73.45
4K6285—Black	1	9.75	95.90
4K6286—Black	0	12.85	125.00
4K7513—Black	00	15.45	149.50
4K7514—Black	000	18.85	179.00
4K7515—Black	0000	22.65	213.50

### Duplex Solid Rubber Covered Wire



Number	Size	Per 100 ft.	Per 1000 ft.
4K7516	14	\$2.15	\$19.45
4K7517	12	2.75	26.80

### Triple Braid Weather Proof Wire



Full Coils (about 1000 ft. to coil) take 100 lb. price.

Number	Size	Weight Per 1000 ft.	Per lb.	Per 100 lbs.
4K7518	18	16 lbs.	38c	\$35.85
4K7519	14	25 lbs.	31c	29.95
4K7520	12	35 lbs.	29c	27.45
4K7521	10	55 lbs.	24c	23.65
4K7522	8	75 lbs.	22c	21.10
4K7523	6	112 lbs.	21c	20.20
4K7524	4	164 lbs.	21c	19.85

### Lead Covered Cable



Number	Size	Description	Per 100 ft.	Per 1000 ft.
4K6288	14	Single Solid	\$2.85	\$26.40
4K6289	14	Duplex Solid	4.45	41.70
4K6290	12	Single Solid	3.35	30.15
4K6291	12	Duplex Solid	7.15	64.85
4K6292	10	Single Solid	5.10	45.95
4K6293	10	Duplex Solid	8.35	75.65

### 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-linking cord is just the thing for hard service.

Size	Per 100 ft.	Per 250 ft.
4K7642 18-2 Wire Light	\$ 5.55	\$11.95
4K7643 18-2 Wire Heavy	8.70	18.85
4K7644 16-2 Wire Heavy	10.20	22.10

## WIRE—Wiring Materials

ON the following pages will be found a complete line of electric wiring materials. We have attempted to include all items commonly used for house wiring, for wiring stores, garages, factories, etc. Any items you want that are not listed will be supplied at lowest prices. Write for quotations.

All prices quoted in this catalog are subject to market changes.

### Cotton Lamp Cord



Size No. 15. Used for portable wiring and drop lights. Tightly woven, cotton covered over live rubber insulations.

	Per Ft.	Per 250 Ft.	Per 1000 Ft.
4K7639—Green and Yellow.....	2c	\$2.95	\$10.87
4K6227—Twisted Black.....	2c	2.95	10.87

### Parallel Silk Lamp Cord

New code insulation lamp cord. Consists of two conductors laid parallel and covered with braided silk. The neatest cord for portable lamps, extension lights in homes, etc. Size 18 only.

4K7526—Olive Green.....	Per foot.....	3c
4K7527—Old Brass.....	250 foot coil.....	\$4.75
4K7528—Brown.....	Per 1000 ft.....	17.50
4K7619—Maroon.....		
4K7530—Pearl Gray.....		

### 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.

	Per Ft.	Per 250 Ft.	Per 1000 Ft.
4K7640—Heavy Reinforced.....	3 1/2c	\$5.54	\$20.85
4K7641—Light Reinforced.....	3c	4.74	17.95

### 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. Furnished in two colors, gray or black. Specify color wanted.

	Per Ft.	Per 250 Ft.	Per 1000 Ft.
4K7645—Twisted No. 18.....	3 1/2c	\$5.10	\$19.75
4K6294—Braid Overall No. 18.....	3c	4.75	17.95
4K6295—Twisted No. 16.....	4 1/2c	6.60	25.95
4K6296—Braid Overall No. 16.....	4c	5.89	21.75

### 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.

	Per Ft.	Per 250 Ft.	Per 1000 Ft.
4K7638.....	2c	\$6.09	\$12.90

### 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, porcelain 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.

No.	Size of Cable	Length of Coil	Price Per Coil	Per 1000 Ft.
4K7620	14/2	250 ft.	\$ 7.45	\$27.75
4K7433	12/2	200 ft.	11.07	41.80
4K7621	10/2	200 ft.	14.80	54.85
4K7622	8/2	125 ft.	11.75	86.70
4K7623	14/3	200 ft.	10.45	48.35
4K7649	12/3	200 ft.	14.10	65.50

### ROMEX FITTINGS

4K7624—Clamp for 14, 12 and 10 sizes. 50 for.....	15c
Per 1000.....	\$2.50
4K7625—Connector for 14 and 12 sizes 50 for.....	\$1.90
Per 1000.....	\$37.00



### Black Iron Conduit

Best quality.	Underwriters approved.	Size	100 Ft.	1000 Ft.
4K7064	1 in.	\$ 5.65	\$3.95	
4K7065	1 in.	7.60	73.50	
4K7066	1 1/4 in.	11.30	108.00	
4K7067	1 1/2 in.	15.30		
4K7068	1 3/4 in.	17.95		
4K7069	2 in.	24.25		
4K7070	2 1/2 in.	39.00		
4K7071	3 in.	51.00		

### Galvanized Iron Conduit

	Size	100 Ft.	1000 Ft.
4K7072	1 in.	\$ 6.20	\$ 61.80
4K7073	1 in.	7.95	78.40
4K7074	1 in.	11.95	117.90
4K7075	1 1/4 in.	16.90	
4K7076	1 1/2 in.	20.20	
4K7077	2 in.	27.15	
4K7078	2 1/2 in.	43.00	
4K7079	3 in.	56.25	

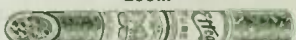
### Flexible Armored Cable (B.X.)



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.

	No. of Conductors	Per 250 Ft.	Per 1000 Ft.
4K7407	14	5c	\$ 8.05
4K7408	14	3c	13.75
4K7409	12	7c	13.50
4K7410	12	3c	8.75
4K7411	10	2c	18.00
4K7412	10	11c	18.20

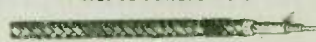
### Flexible Non-Metallic Conduit "Loom"



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.

	Size	In.	Ft.	Per 1000
4K7413	2/8	7/32	250	\$3.65
4K7414	3/8	1/4	250	\$3.98
4K7415	1/2	3/8	250	\$4.95
4K7416	3/4	1/2	250	\$6.45
4K7417	1	1/2	250	\$6.80

### No. 18 Fixture Wire

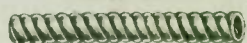


	Color	100'	1000'
4K6958	Oak Tan		
4K6957	Brown	58c	\$4.84
4K6959	Oak Tan		
4K6962	Brown	67c	\$5.80

Quantity price applies on assorted types and colors.

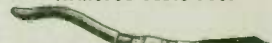
	Color	100'	1000'
4K6963	Brush Brass	75c	\$6.25
4K6964	White		
4K6971	Brush Brass	90c	\$7.60
4K6972	White		

### Greenfield Conduit



No.	Size	Per Ft.	Per 100 Ft.	Per 1000 Ft.
4K6287	1/2 in.	7 1/4c	\$ 6.55	
4K6298	3/4 in.	10c	8.75	
4K6299	1 in.	17c	15.50	

### Armored Cable Tool



Strips single strip armor from cable; 14, 14-3, or 12-3 without injury to wire. Cuts cable, wire or loom up to 1 in. Has auxiliary pliers with extra leverage. A real labor saver.

4K7058—Each \$8.50



## Independent Brass Shell Sockets



The construction of the shell and interchangeable locking arrangement makes the lock absolute and gives great holding surface.

4K7003— $\frac{1}{4}$ Cap	Each	25	Lots
Key Socket.....	14c	13 $\frac{1}{2}$ c	
4K7004— $\frac{1}{4}$ Cap			
Keyless Socket.....	14c	13c	
4K7005— $\frac{1}{4}$ Cap Pull			
Chain Socket.....	18c	17c	
4K7006—Pendant Cap			
Key Socket.....	14c	13 $\frac{1}{2}$ c	
4K7007—Pendant Cap			
Keyless Socket.....	14c	13c	
4K7008—Pendant Cap Pull			
Chain Socket.....	18c	17c	

## Interchangeable Porcelain Socket



All bodies are interchangeable. High quality is your assurance of complete satisfaction.

	Each	10	Lots
4K7009—Pull Chain.....	35c	34c	
4K7010—Keyless.....	14c	13 $\frac{1}{2}$ c	
4K7011—Key.....	15c	14c	

## Interchangeable Caps for Porcelain Bodies

	Bodies	Each	10	Lots
4K7012—Pendant Cap.....	7c	6 $\frac{1}{2}$ c		
4K7013— $\frac{1}{4}$ inch aluminum.....	24c	22c		
4K7014— $\frac{1}{4}$ Brass Cap.....	12c	11c		
4K7015— $\frac{1}{4}$ Brass Cap.....	14c	12c		

## Interchangeable Bases



	Each		
4K7017—Small Cleat Base.....	9c		
4K7018—Concealed Base.....	8c		
4K7019—4-Inch Base.....	24c		
4K7016—3 $\frac{1}{4}$ -Inch Base.....	18c		

## Porcelain (Sign) Receptacle



Fits ceiling ring or box cover.  
4K7020—Slotted base, short back. Each..... 7.35c  
100 lots

## 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.

4K7021—Each	30c	10	lots	29c
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## Receptacle



Screw ring Receptacle with covered terminals. For openwork or outside wiring.

4K7022—Each	10c		
100 lots			\$9.00

## Sign Receptacle



Two piece screw clamp with leads. Standard type.

4K7023—Each	10 $\frac{1}{2}$ c		
10 lots			\$9.65

## Mogul Base Socket

Has  $\frac{1}{4}$ -inch caps. All porcelain body. For All Mogul Base Nitrogen lamps.

4K7030—Each	25c		
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## Standard Snap Switches

Sturdy construction. Genuine bronze contacts and driving springs. Porcelain bases.

	Each	Per	100
4K7035—S. P. Non-Indicating.....	19c		\$17.30
4K7036—S. P. Indicating.....	21c		19.50
4K7037—3-Way Non-Indicating.....	36c		34.30

## Flush Receptacle



Take either parallel or tandem blades.

4K7057—Each	8 $\frac{1}{2}$ c		
10 lots			8 $\frac{1}{2}$ c

## Duplex Receptacle

Take either parallel or tandem blades.

4K7452—Each	14c		
10 lots			13 $\frac{1}{2}$ c

## Duplex Receptacle Plate

4K7443—One gang. B. finish. Each.....	7c		
100 lots			\$6.45

4K7444—One gang. White enamel. Each.....	15c		
100 lots			\$14.00



## No Door

### Receptacle Plate

4K7045—One gang. B. B. finish. Each.....	7c		
100 lots			\$6.45

4K7046—One gang. White enamel. Each.....	14c		
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## Canopy Switch



Standard Round type. Rear leads.  $\frac{3}{4}$  in. stem.

4K7059—Each.....	23c		
10 for			\$2.15

## Canopy Switch



Shallow flat back type used for canopy or bracket light.  $\frac{3}{4}$  inch stem.

4K7056—Each.....	23c		
10 lots			\$2.15

## Outlet Box Receptacle



Brass covered porcelain base. Pull chain body. Fits 3-3 $\frac{1}{4}$ -inch outlet box.

4K7028—Each.....	60c		
10 lots			58c
Fits 3-3 $\frac{1}{4}$ -inch and 4-in. box.			
4K7029—Each.....	80c		
10 lots			78c

## Wall Receptacle

Brass shell wall receptacle, porcelain concealed base.

4K7024—Keyless. Ea.	18c		
10 lots			17c

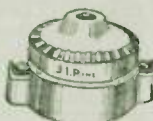


## Porcelain Rosette



High grade concealed Rosette. Snap cap. Easily wired and assembled.

4K7031—Each.....	9c		
Per 100			8c



## Cleat Rosette

Easily wired and assembled.

4K7032—Each.....	9c		
100 lots			8c



## Knife Switches

Our knife switches are all N. E. C. with high jaws and clean slate base.

	Fused, Each		
4K7626—2 pole 30 Amp.	\$0.69		
4K7627—2 pole 60 Amp.	1.25		
4K7628—2 pole 100 Amp.	2.65		
4K7629—3 pole 30 Amp.	1.10		
4K7630—3 pole 60 Amp.	1.88		
4K7631—3 pole 100 Amp.	3.89		
	Not Fused		
4K7632—2 pole 30 Amp.	\$0.49		
4K7633—2 pole 60 Amp.	.89		
4K7634—2 pole 100 Amp.	1.87		
4K7635—3 pole 30 Amp.	.98		
4K7636—3 pole 60 Amp.	1.35		
4K7637—3 pole 100 Amp.	3.00		

## Switch Plates

Push button switch plate of .040 gauge brass. Everlasting non-tarnishing finishes. 100 gangs can be assorted for quantity price.



No.	Gangs	Finish	Each	Gangs
4K7038	1	B. B.	6 $\frac{1}{2}$ c	\$5.95
4K7039	2	B. B.	12c	
4K7040	3	B. B.	18c	
4K7041	4	B. B.	23c	
4K7042	1	Wh. Enam.	13c	
4K7043	2	Wh. Enam.	24c	
4K7044	3	Wh. Enam.	45c	

## Toggle Switch Plates

Made to fit all standard toggle switches.

4K7047—Single gang. Each	7c		
100 lots			\$5.80
4K7048—Double gang. Each.....	14c		
100 lots			\$11.45
4K7049—Three gang. Each.....	18c		
4K7050—Four gang. Each.....	65c		



## Standard Push Switch

Porcelain flush switch. We absolutely guarantee to give perfect satisfaction. A product of high grade quality.

4K7445—Single Pole. Each.....	17c		
100 lots			\$15.80
4K7446—Three Way. Each.....	27c		
100 lots			\$25.00
4K7447—Double Pole. Each.....	27c		
100 lots			\$25.00
4K7448—Four way. Each.....	95c		



## Standard Toggle Switch

4K7449—Single Pole. Each.....	17c		
100 lots			\$15.80
4K7450—Double Pole. Each.....	27c		
100 lots			\$25.00
4K7451—Three Way. Each.....	27c		
100 lots			\$25.00



## Brass Shell Receptacle



Key receptacle with porcelain slotted base and side screws. Diameter of base  $\frac{1}{4}$  inch.

4K7025—Each.....	25c		
10 lots			23c

## Cleat Base Socket

Porcelain cleat base brass shell pull chain socket.

4K7027—Each.....	45c		
10 lots			44c



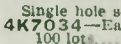
## Cleat Receptacle



Porcelain cleat receptacle: two outside screw holes for outside wiring.

4K7033—Each.....	6 $\frac{1}{2}$ c		
100 lots			\$5.95

## Porcelain Cleat Receptacle

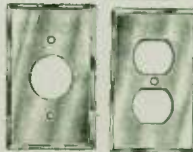


Single hole screw inside.

4K7034—Each.....	6 $\frac{1}{2}$ c		
100 lots			\$5.95



## Bakelite Plates

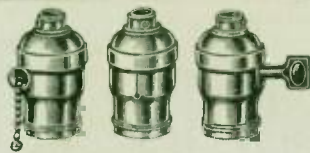


Mahogany color in sand blast effect with beveled edges. Screws to match furnished with each plate.

4K7612—Plates for single gang push switch. Each.....	11c		
10 lots			10c
4K7613—Plates for two gang push switch. Each.....	22c		
10 lots			20c
4K7614—Plates for single gang toggle switch. Each.....	11c		
10 lots			10c
4K7615—Plates for two gang toggle switch. Each.....	22c		
10 lots			20c
4K7616—Plates for single Receptacle no door. Each.....	11c		
10 lots			10c
4K7617—Plates for duplex Receptacle. Each.....	11c		
10 lots			10c
4K7618—Plates for comb. toggle and no door. Each.....	28c		
10 lots			27c



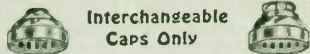
# ARROW ELECTRICAL DEVICES



## Association Sockets

Brushed satin brass finish. Complete shell cap and body with 1/4-inch cap.

	Each	25 Lots	100 Lots
4K6191—Key.	19c	18c	\$16.95
4K6192—Keyless.	18c	17c	15.65
4K6193—Pull Chain.	27c	26c	24.25
With Pendant Cap.			
4K6194—Key.	19c	18c	\$16.95
4K6195—Keyless.	18c	17c	15.65
4K6196—Pull Chain.	27c	27c	24.25



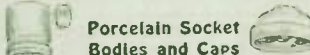
## Interchangeable Caps Only

	Each	100 Lots
4K6197—1/4 Cap.	6c	\$5.15
4K6198—Pend. Cap.	6c	5.15
4K6199—Cap.	10c	8.95

## Interchangeable Bodies Only



	Each	100 Lots
4K6200—Key.	16c	\$14.25
4K6201—Keyless.	14c	12.15
4K6202—Pull Chain.	23c	21.65



## Porcelain Socket Bodies and Caps

Make any combination desired with caps listed below.

	Each	10 Lots
4K6205—Key.	19c	18c
4K6206—Pull Chain.	43c	42c
4K6207—Keyless.	18c	17c

Make any combination desired with bodies listed above.

	Each	10 Lots
4K6208—Pendant Cap.	8c	7c
4K6209—1/4-inch Cap.	16c	15c



## Platalt Socket

Small composition platalt socket with shadholder groove.

	Each	10 Lots
4K6224—Each.	14c	13c



## Weatherproof Aluminum Keyless Socket With Cord Grip Cap

	Each	10 Lots
4K6246—Each.	45c	43c



## Weatherproof Keyless Socket

	Each	10 Lots
4K6242—1/4-inch Cap.	50c	43c
4K6243—1/2-inch Cap.	50c	43c
4K6244—2 1/2-inch Aluminum holder.	18c	17c
4K6245—3 1/2-inch Aluminum holder.	27c	26c

## Brass Shell Pull Switch Bodies



### 4K6217—Bottom Outlet, to hang from end of Cord.

Each . . . 47c

100 lots \$44.95

### 4K6218—Side Outlet.

Each . . . 47c

100 lots . . . \$44.95

## Arrow Porcelain (Sign) Receptacle



Fit ceiling rings, or box cover

	Each	10 Lots
4K6203—With wire leads, shallow body.	18c	17c
4K6297—Screw terminals without leads.	14c	12.95
100 lots.	14c	12.95
4K6204—Pull chain type with 8-inch chains and 6-foot cord.	47c	45c
10 lots.	45c	

## Mogul Cleat Receptacle

	Each	10 Lots
4K6222—Each.	50c	48c



## Arrow Ceiling Rosettes

Arrow two-piece Porcelain Rosettes are time and trouble savers. The snap catch is positive and fastens easily. Grooved base and large binding post screws permit easy wiring.

	Each	10 Lots
4K6210—Cleat Rosette.	14c	13c
100 lots.	11.80	
4K6211—Concealed Rosette.	14c	13c
100 lots.	11.80	

## Bases for Brass Shell Socket Bodies



	Each	10 Lots
4K6219—Slotted Porcelain Base.	17c	15c
4K6221—Cleat Porcelain Base.	22c	21c
100 lots.	34c	
4K6220—Brass Covered Base, 1 1/4 in. Diam.	34c	33c
10 lots.	33c	



## Outlet Box Receptacle Porcelain

	Each	10 Lots
4K6240—Each.	\$1.10	\$1.04

## Cap with Armored Cord Grip

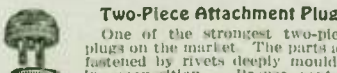
	Each	10 Lots
4K6259—Each.	14c	13c



## Grip-Tite Socket Cap

Pendant cap with grip-tite attachment to hold reinforced cord. Fits any Arrow brass shell body.

	Each	100 Lots
4K6260—Each.	16c	\$13.40



## Two-Piece Attachment Plug

One of the strongest two-piece plugs on the market. The parts are fastened by rivets deeply moulded in composition. Bronze contact springs firmly grip the prongs.

	Each	25 Lots	100 Lots
4K6223—Each.	6c	\$1.37	\$5.25

## Arrow 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.

	Each	For 100
4K7650—6 Amp.	3c	\$2.75
4K7651—10 Amp.	3c	2.75
4K7652—15 Amp.	3c	2.75
4K7653—20 Amp.	3c	2.75
4K7654—25 Amp.	3c	2.75
4K7655—30 Amp.	3c	2.75
Any assortment.		

## Arrow Push Switches

	Each	100 Lots
4K6225—Single Pole.	23c	\$20.75
4K6226—3-Way.	33c	\$29.00



## Arrow Toggle Switches

	Each	100 Lots
4K6230—Single Pole.	23c	\$20.75
4K6231—Double Pole.	65c	\$63.00
4K6232—3-Way.	33c	\$29.00



## Bull's Eye Receptacle

This receptacle acts as a warning device indicating that the circuit is closed.

	Each	10 Lots
4K6236—Receptacle with 2 C. P. 124 volt lamp.	63c	61c
4K6237—Complete with plate Bull's Eye and lamp.	98c	96c
10 lots.	32c	
4K6238—Extra Lamp.	30c	
4K6239—Extra Bull's Eye fits standard no door receptacle plate.	25c	23c
10 lots.	23c	



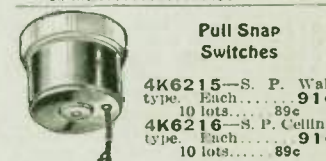
## Switch

With ratchet turn button. Insulation carried 1/4-inch into switch body.

	Each	10 Lots
4K6212—1/4-inch Stem.	25c	23c
4K6213—1/2-inch Stem.	25c	23c

## Pull Type Canopy Switch

	Each	10 Lots
4K6214—Each.	51c	49c

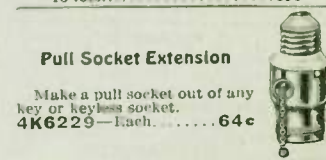


## Pull Snap Switches

	Each	10 Lots
4K6215—S. P. Wall type.	91c	89c
4K6216—S. P. Ceiling type.	91c	89c

## Combination Pendant Switch and Current Tap

	Each	10 Lots
4K6269—Each.	62c	59c



## Pull Socket Extension

Make a pull socket out of any key or keyless socket.

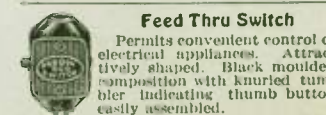
	Each	100 Lots
4K6229—Each.	64c	



## Current Tap

With screw adapter cap the pull chain operates the switch and the current is always live.

	Each	10 Lots
4K6248—Each.	79c	77c



## Feed Thru Switch

Permits convenient control of electrical appliances. Attractively shaped. Black moulded composition with knurled thumb button easily assembled.

	Each	10 Lots
4K6268—Each.	30c	29c

## Pull Chain Cord Extension

	Each	100 Lots
4K6247—Each.	8c	\$7.00





### ARROW DEVICES Surface Snap Switch

Positive action. Quick make and break. Gives long reliable service.

**4K7C60**—S. P. Non Indicating.  
Each, 22c. 100 lots.....\$19.36  
**4K7061**—S. P. Indicating.  
Each, 25c. 100 lots.....\$21.95  
**4K7062**—3 Way Indicating.  
Each, 44c. 100 lots.....\$39.45



### Toggle Surface Switch

A flip up or down turns current on and off. Smooth positive action.

**4K7646**—Indicating.  
Each, 23c. 100 lots.....\$20.89  
**4K7647**—3 Way.  
Each, 46c. 100 lots.....\$42.95

### Porcelain Outlet Box Receptacle

With porcelain 3 1/2-inch shade holder. Complete ceiling unit equipped with pull chain socket. Nickel chain and 6 foot cord. Perennial throughout furnished with fixture strap and screws to fit 3/4 or 4 inch outlet boxes.



**4K6262**—Each.....\$1.40  
10 lots.....1.37

### 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.



**4K7329**—For Ball Lamp.  
Each.....\$1.15  
**4K7330**—With Opal Half Shade.  
Each.....\$1.55

### 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.

**4K7498**—Each.....\$1.50  
Ten lots, Each.....1.39

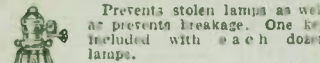
### Portable Lamp Guard



Made of heavy steel coppered wire. Very rugged and substantial. Takes 50-watt or smaller lamps.

**4K7499**—Each.....90c  
Ten lots.....87c

### Laxon Lamp Guards



Prevents stolen lamps as well as prevents breakage. One key included with each dozen lamps.

**4K7500**—Fits brass socket. Takes lamps up to 60-watt.  
Each, 20c. Dozen.....\$2.25  
**4K7501**—Fits brass socket. Takes lamps up to 100-watt.  
Each, 34c. Dozen.....\$3.60  
**4K7502**—Fits weatherproof socket. Takes lamps up to 60-watt.  
Each, 21c. Dozen.....\$2.30  
**4K7503**—Fits weatherproof socket. Takes lamps up to 100-watt.  
Each, 38c. Dozen.....\$3.90  
**4K7504**—Extra key.  
Each, 5c. Dozen.....40c



### Protector "O" Lamp Guards

With open bottom. Takes 60-watt and smaller lamps.

**4K7505**—For reg. skts.  
Each, 17c. Dozen.....\$1.98  
**4K7506**—For W.P. skts.  
Each, 17c. Dozen.....\$1.98



### Two Way Plug

Well built composition Plug. It is a good domestic make.

**4K7284**—Each, 18c  
100 lots.....\$15.95



### Beaver Thru Switch

Nationally advertised and well known for its efficiency. Saves current.

**4K7440**—  
Each.....\$0.27  
10 lots.....2.50

### Extra Tap

Designed to double the capacity of a single Pin-Type receptacle made of fine polished composition.

**4K7287**—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.

**4K7285**—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.

**4K7283**—Each.....5 1/4c  
100 lots.....4 1/2c

### Outlet Box Receptacle

Fits standard outlet boxes. Have black japan cover, porcelain receptacle with shade holder grooves.

**4K6254**—3 1/4 - inch box, binding post.  
Each.....15c 10 lots.....14c  
**4K6255**—4-inch box, binding post.  
Each, 16c. 10 lots.....15c  
**4K6256**—3 1/4-inch Pigtail.  
Each, 16c. 10 lots.....15c  
**4K6257**—4-inch Pigtail.  
Each, 18c. 10 lots.....17c



### Flush Receptacle

New pony convenience outlet double standard one piece contacts and binding posts. Side wired.

**4K6250**—Each \$ 0.14  
100 lots.....12.98  
Pony convenience outlet. Side wired one piece. Contacts and binding posts.  
**4K6251**—Each, 20c. 100 lots.....\$18.98



### Vapor Proof Receptacle

For use in damp places. Prices are for complete receptacle.

**4K7051**—With Pendant Pigtail.  
Each.....90c  
**4K7052**—With 1/2-inch thread top.  
Each.....\$1.03  
**4K7053**—With 3-inch Outlet box fitting. Each.....\$1.10  
**4K7054**—With 4-inch Outlet box fitting. Each.....\$1.15  
**4K7055**—Wire protection guard extra.  
Each.....41c



### Tri-O-Tap Extension

Practical for use in the home, workshop, and garage. Plug and Tri-O-Tap Cluster for attaching Three Pin type plugs.



**4K7441**—6 ft. Each.....35c  
**4K7442**—9 ft. Each.....45c



### Trio Tap

A three way pintype cluster with standard parallel prongs to fit into any flush receptacle.

**4K7354**—Each, 11c  
10 lots.....10c

### 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.

**4K7438**—Each.....43c

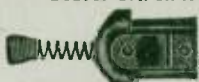
### Heater Cord Set



Equipped with an excellent fit all iron plug, a two piece attachment plug and six foot of fine grade heater cord.

**4K7403**—  
Each.....34c  
10 lots.....32c

### Beaver Gripall Heater Plug



First heater plug approved by the Underwriters. Lives up to its name, it grips all

round or flat appliance terminals.  
**4K7362**—Each, 25c. 10 lots.....24c

### Beaver Armored Gripall Plug

The most nearly perfect appliance plug on the market. Armored at the lower end to prevent clipping and breakage. Nickel plated. Upper end free of metal to remain cool at all times. Contacts of special alloy to minimize arcing and burning of terminals.



**4K7353**—Each, 35c. 100 lots 33c

### Arrow Appliance Plug

Fits all standard makes of items. Has tumblers switch which permits control without pulling plug out.

**4K7306**—Each.....52c  
10 lots.....48c



### 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. Can also be used on the free end of a cord as a cord extender, or cord connector.

SHOWING HOW CORD TAP MAY BE ATTACHED TO WIRE

**4K7355**—Each, 29c. 12 lots.....27c

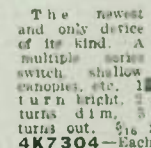
### Leveller Conduit Box and Fixture Switch



For 1/2 inch knock-outs in outlet box. Supplied with one thumb nut for conduit box and one for fixture canopy.

**4K7303**—Ea. 46c  
10 lots.....44c

### Leveller Twilight Switch



The newest and only device of its kind. A multiple series switch shallow snapouts, etc. 1 turn bright, 3 turns dim, 5 turns off. 1/2 inch long.

**4K7304**—Each, 63c. 10 lots, 60c

### Leveller Link Switch



This Leveller 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.

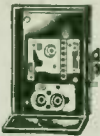
**4K7529**—Each, 46c  
10 lots.....44c



# American Switches & Meter Fittings

UNDERWRITERS APPROVED. Highest Grade of Material Used in the Construction of AMERICAN SWITCHES AND METER FITTINGS

AMERICAN ADMITS NO SUPERIOR



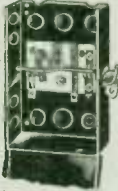
**Combination Meter Test Type Switches With Branch Circuits. 125 Volts 30 Amperes.**

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	Poles	Ship. wt.	Net. Lbs.	Each
4K6907	2	1	2	8 1/2	8 1/2	\$2.25
4K6908	2	2	2	8 1/2	8 1/2	2.75
4K6909	2	1	3	8 1/2	8 1/2	2.75
4K6910	2	2	3	21 1/2	21 1/2	2.75
4K6911	4	1	2	13	13	2.75
4K6912	4	1	2	13	13	3.25
4K6913	4	1	3	13	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.	Net.
4K6914	2	2 Plug Fuse	7	\$1.65
4K6915	3	2 Plug Fuse	7	1.75
4K6916	2	1 Plug Fuse	7	1.65
4K6917	3	2 Plug Fuse	7 1/4	2.00
4K6918	2	2 Cart Fuse	6	1.75
4K6919	3	2 Cart Fuse	6	2.00



**TROUGH Adaptable to all 30 Ampere Meter Test Type Switches**

Very handy to use in "Ganging" two or more meter test type switches. Saves time and labor over the old way of cutting pipe and "nipping" between switches. Dimension 3 in. x 1 in. x 1 in. Cover removable, eliminating pulling wire and loss of time.

No.	Shipping wt.	Net.
4K6920	1 1/2 lb.	1.75

**Standardized Meter Test Switch-Slate Base-250 V-Quick Break**



Meter trim furnished with each switch. Convenient knockouts provided. Takes standard

No.	Amperes	Poles	Ship. wt.	Net.
4K6921	30	2	6 lbs.	\$1.75
4K6922	60	2	10 lbs.	2.25
4K6923	100	2	22 lbs.	8.75
4K6924	30	3	6 lbs.	2.00
4K6925	60	3	15 lbs.	5.50
4K6926	100	3	26 lbs.	9.50
4K6927	200	3	35 lbs.	13.50



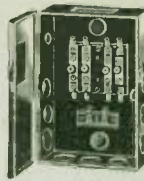
**Standardized Meter Test Switch-Positive Make-250 V-Quick Break**

Combination Series Meter Test Block and Switch. Slate Base. Type C construction.

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.	Ship. wt.	Net.
4K7556	2 0	3 1/2
4K7557	4	7



**Series Meter Test Blocks with Cabinet 125 to 600 Volts**

For use in localities requiring a separate meter fitting with testing facilities. No switch or branch circuit. Convenient knockouts. Meter trim furnished with each block.

No.	Amperes	Poles	Ship. wt.	Net.
4K6931	30	2 & 3	7 lbs.	\$ 2.50
4K6932	60	2 & 3	14 lbs.	5.00
4K6933	100	2 & 3	17 1/2 lbs.	6.00
4K6934	200	2 & 3	25 lbs.	10.00

**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.



No.	Amperes	Poles	Ship. wt.	Net.
4K6935	30	2	10 lbs.	\$1.60
4K6936	60	2	14 lbs.	4.40
4K6937	100	2	21 lbs.	6.00
4K6938	200	2	25 lbs.	10.00
4K6939	400	2	125 lbs.	32.00
4K6940	600	2	150 lbs.	42.00

No.	Amperes	Poles	Ship. wt.	Net.
4K6941	30	3	15 lbs.	2.80
4K6942	60	3	16 lbs.	4.60
4K6943	100	3	25 lbs.	7.80
4K6944	200	3	48 lbs.	14.40
4K6945	400	3	135 lbs.	40.00
4K6946	600	3	150 lbs.	55.00

No.	Amperes	Poles	Ship. wt.	Net.
4K6947	30	3	15 lbs.	2.80
4K6948	60	3	16 lbs.	4.60
4K6949	100	3	25 lbs.	7.80
4K6950	200	3	48 lbs.	14.40
4K6951	400	3	135 lbs.	40.00
4K6952	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.	Net.
4K7553	30	2	4 1/2 lbs.	\$1.00
4K7554	30	3	5 1/2 lbs.	1.35

**Service Switches-250 Volts**

Same specifications as 4K7553 above, except for 250 volts to take cartridge fuses.

No.	Amperes	Poles	Ship. wt.	Net.
4K7554	30	2	5 lbs.	\$1.50
4K7555	30	3	5 1/2 lbs.	2.00

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.	Net.
4K6928	60	3	25 lbs.	\$ 9.00
4K6929	100	3	48 lbs.	12.50
4K6930	200	3	90 lbs.	17.00

**Fuse Panels**

No.	Ship. wt.	Net.
4K7558	6	8
4K7559	8	14
4K7586	10	15
4K6900	12	16

No.	Ship. wt.	Net.
4K6901	6	1.50
4K6902	2	1.25
4K6903	6	1.25
4K6904	8	1.50
4K6905	10	2.00
4K6906	12	2.50

# FUSE CUT-OUTS



**Cartridge Fuse Cut-outs. Porcelain Bases. Underwriters' Standards**

No.	Amperes	Each
4K7597	Single Pole Main Line	\$0.20
4K7598	Double Pole Main Line	.28
4K7599	Triple Pole Main Line	.40
4K7600	Two Pole Single Branch	.35
4K7601	Three Pole Single Branch	.65
4K7602	Two Pole Double Branch	.75
4K7603	3 to 2 Pole Double Branch	.75
4K7604	Three Pole Double Branch	1.10

No.	Amperes	Each
4K7605	Double Pole Main Line	\$0.70
4K7606	Triple Pole Main Line	1.00
4K7607	Two Pole Single Branch	1.05
4K7608	Three Pole Single Branch	1.45
4K7609	Two Pole Double Branch	1.95
4K7610	3 to 2 Pole Double Branch	2.00
4K7611	Three Pole Double Branch	2.90

**Plug Fuse Cut-Outs**



High grade standard makes only. Smooth glazed porcelain blocks with heavy copper fittings.

No.	Amperes	Each
4K7566	Two pole main line	\$0.13
Per 100		\$11.50
4K7567	Three pole main line	.20
Per 100		\$18.00
4K7568	Two pole, single branch	.15
Per 100		\$12.90
4K7569	Two pole, double branch	.26
Per 100		\$23.00
4K7570	3 to 2 wire, double branch	.33
Per 100		\$29.75

**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.	Amperes	Each
4K7571	2-pole	\$0.30
Per 100		\$29.00
4K7572	3-pole	\$0.54
Per 100		\$52.00

**Porcelain Base**

For plug fuses.

Has reversible blades. 30 ampere.



No.	Amperes	Each
4K7573	Single branch, 2 to 2 wire	\$0.60
10 lots		.55c
4K7574	Double branch, 2 to 2 wire	\$1.40
10 lots		\$1.30
4K7575	Double branch, 3 to 2 wire	\$1.50
10 lots		\$1.40

**Steel Cut-Out Boxes**



Black enameled, approved boxes. 1/2 in. K. O. Rugged hinges and fasteners. Made of 14 gauge sheet steel to Underwriters' specifications.

No.	Wid.	Len.	Depth	En.	Asst.
4K7587	4 1/2	9	3	\$0.34	\$0.32
4K7588	6	8	4	.42	.40
4K7589	6	15	4	.57	.54
4K7590	8	10	4	.58	.55
4K7591	8	12	4	.65	.62
4K7592	8	15	4	.74	.72
4K7593	10	12	4	.74	.72
4K7594	10	15	4	.84	.80
4K7595	10	18	4	1.02	.97
4K7596	12	18	4	1.30	1.16



## Sectional Loom Boxes

Two popular grades of sectional switch boxes. Easily ganged. None better. Nos. 4K7174 and 4K7175 are rated as the highest grade on the market. No. 4K7174 and 4K7175 Loom boxes while low in price are trade and are fully guaranteed.

No.	Type	Each	100 Lots
4K7174	Light without clamps	9 <sup>1</sup> / <sub>2</sub> c	\$6.10
4K7175	Light with loom clamp	7 <sup>1</sup> / <sub>2</sub> c	7.15
4K7176	Heavy without clamp	8 c	7.50
4K7164	Heavy with loom clamp	9 c	8.50

## Conduit or BX Box

Well built. Has square ends. 1 1/2-in. knockouts. For use with rigid iron conduit or BX. Adjustable ears. Sides removable for ganging. Heavy steel. Underwriters' approved.

4K7358	2 1/2 in. deep	Each	100 Lots
4K7359	2 in. shallow	10 1/2 c	\$10.10
		10 1/2 c	10.10



## 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.

4K7360	Loom, no clamps	Each	100 lots
4K7361	Loom with clamps	13 c	\$11.85
4K7362	B. X. with clamps	14 c	12.95
4K7363	Conduit	16 c	14.85
		15 c	14.25

## Loom and Cable Box with Bar Hanger

Adjustable to any position on bar. Has 1/2 in. fixture stud, four knockouts for loom or armored cable, all provided with clamping screws.	4K7364	Each	100 lots
		14 1/2 c	\$13.75

## Set Up Boxes

All 1 1/2 in. deep. With a straight bar. 1/2 in. stud full adjustable to any position on bar.	4K7420	Loom, no clamps	Each	100 lots
	4K7421	Loom with clamps	14 1/2 c	\$13.65
	4K7422	Loom with clamps and ears	18 1/2 c	17.45
	4K7423	1 1/2 in. conduit, no ears	14 1/2 c	13.25
	4K7424	1 1/2 in. conduit, with ears	17 1/2 c	16.25

## Universal Box Hanger

For side wall or ceiling outlets on new work. By nailing a cross front of studing, an absolutely flush position for box is always secured.	4K7406	Each	100 lots
		5 1/2 c	\$4.95

## 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.	4K7419	Each	100 lots
		9 1/2 c	\$8.25

## B. X. Connectors

For Number 14 and 12 B. X. 2 or 3 Wire. Heavily galvanized, good locknut, prevents puncture of cable.	4K7195	Straight. Each	100
		4 c	\$2.55
	4K7196	45 degree angle. Each	100
		13 c	\$12.00
	4K7197	90 degree angle. Each	100
		17 c	\$16.00
	4K7162	Slip-in type; 1/2 in. Each	100
		3 c	\$2.40

## Duplex B X Connector

Allow two cables in one knockout.	4K7163	Each	100
		9 c	\$8.00



## Octagon Outlet Boxes

1 1/2 inches deep. Standard in depth and diam. Easy Knockouts, heavily enameled.

4K7154	4 in. with ears	Each	Per 100
4K7155	3 in. with ears	9 c	\$8.05
		7 c	6.33

## Shallow Ceiling Boxes and Plates

4K7156	4 in. diam. with ears. Loom 1/2 in. K. O.	Each	Per 100
		6 c	\$5.50
4K7157	4 in. diam., no ears. Loom 1/2 in. K. O.	Each	Per 100
		4 c	\$4.35
4K7158	4 in. diam., plate, 1/2 in. K. O.	Each	Per 100
		5 c	\$4.60
4K7159	3 in. diam., plate, 1/2 in. Loom.	Each	Per 100
		5 c	\$4.35



## 4-In. Square Black Outlet Boxes

1 1/2 inches deep. 1/2-inch knockouts.

4K7160	Each	Per 100
		\$8.95

## Closed Raised Steel Covers

4K7169	For 3 1/4 inch Box.	Each	100 lots
		3 1/2 c	\$2.98
4K7170	For 4-inch Box.	Each	100 lots
		4 c	\$3.68



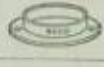
## Round Box Cover

4K7165	Fits 3 1/4-inch Box.	Each	100 lots
		4 1/2 c	\$3.68
4K7166	Fits 4-inch Box.	Each	100 lots
		5 c	\$4.23



## Drop Cord Cover

4K7167	Fits 3 1/4-inch Box.	Each	100 lots
		4 c	\$3.68
4K7168	Fits 4-inch Box.	Each	100 lots
		4 1/2 c	\$4.00



## Plaster Ring

4K7161	Fits 4-inch Box.	Each	100 lots
		5 c	\$4.25



## Flat Cover for Snap Switch

4K7171	Fits 3 1/4-inch Box.	Each	100 lots
		5 c	\$4.23
4K7172	Fits 4-inch Box.	Each	100 lots
		5 c	\$4.23



## Covers for Square Box

4K7201	Each	100 lots
		\$5.30



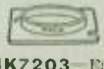
## Switch or Receptacle Covers

4K7204	No. 1	Gang	Each	100 lots
			6 c	\$5.30
4K7207	No. 2		9 c	8.15



## Blank Square Box Cover

4K7173	Each	100 lots
		\$4.10



## Raised Square Box Cover

4K7203	Each	100 lots
		\$5.00



## No-Bolt Fixture Stud

4K7177	Each	Per 100
		\$2.85



## 3/8-Inch Fixture Stud

4K7198	Each	Per 100
		\$2.10

## Solderless Fixture Connectors

4K7552	NOTORCH Connectors. Each	2 1/2 c
	Per 100	\$2.10

DISCOUNTS ON UNILETS  
Less than \$15.00..... 5%  
Over \$15.00..... 15%



## Unilets

### TYPE "A"

Conduit fittings for purpose.

Number	Size	Price Each
4K7080	1/2 in.	\$0.24
4K7081	3/4 in.	.31
4K7082	1 in.	.43
4K7083	1 1/4 in.	.80
4K7084	1 1/2 in.	.80



### TYPE "LB"

Number	Size	Price Each
4K7086	1/2 in.	\$0.40
4K7087	3/4 in.	.45
4K7088	1 in.	.65
4K7089	1 1/4 in.	1.04
4K7090	1 1/2 in.	1.37



### TYPE "C"

Number	Size	Price Each
4K7092	1/2 in.	\$0.36
4K7093	3/4 in.	.41
4K7094	1 in.	.49
4K7095	1 1/4 in.	.94
4K7096	1 1/2 in.	1.22



### TYPE "E"

Number	Size	Price Each
4K7098	1/2 in.	\$0.29
4K7099	3/4 in.	.35
4K7100	1 in.	.50
4K7101	1 1/4 in.	.80
4K7102	1 1/2 in.	1.04



### TYPE "LL"

Number	Size	Price Each
4K7104	1/2 in.	\$0.40
4K7105	3/4 in.	.45
4K7106	1 in.	.65
4K7107	1 1/4 in.	1.04
4K7108	1 1/2 in.	1.37



### TYPE "LR"

Number	Size	Price Each
4K7110	1/2 in.	\$0.40
4K7111	3/4 in.	.45
4K7112	1 in.	.65
4K7113	1 1/4 in.	1.04
4K7114	1 1/2 in.	1.37



### TYPE "T"

Number	Size	Price Each
4K7116	1/2 in.	\$0.48
4K7117	3/4 in.	.57
4K7118	1 in.	.50



### TYPE "X"

Number	Size	Price Each
4K7119	1/2 in.	\$0.60
4K7120	3/4 in.	.77
4K7121	1 in.	1.05

## Unilet Covers



Number	Size	Price Each
4K7425	1/2 in.	10 c
4K7426	3/4 in.	15 c
4K7427	1 in.	25 c
4K7428	1 1/4 in.	36 c
4K7428	1 1/2 in.	48 c





### Encoilet Entrance Fittings

Type F is a small, light and durable service fitting. Prices include 3-wire porcelain covers.

Number	Size	Each	25 Lots
4K7396	1/2 in.	21c	20c
4K7397	1 in.	29c	27c
4K7398	1 1/2 in.	40c	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
4K7582	One Wire	14c	\$1.35
4K7583	Two Wire	27c	3.60
4K7584	Three Wire	53c	5.20

### Screw House Bracket



This one-point bracket has a 2 1/2 inch No. 20 screw securely fastened to base. There is nothing better for a radio insulator.

4K7585	Each	14c
Per 100		\$12.25



### Locknuts

Heavily sherardized. Clean, deeply cut threads.

Number	Size	Each	Per 100
4K7178	1/2 in.	\$0.00 1/2	\$0.66
4K7179	3/4 in.	.01 1/2	.39
4K7180	1 in.	.01 1/2	.75
4K7181	1 1/4 in.	.01 1/2	1.25
4K7182	1 1/2 in.	.03	2.60
4K7183	1 3/4 in.	.04 1/2	3.75



### Bushings

Well made sherardized bushings that will stand the gaff of rough handling.

Number	Size	Each	Per 100
4K7187	1/2 in.	\$0.01 1/4	\$0.98
4K7188	3/4 in.	.02	1.37
4K7189	1 in.	.03 1/4	3.25
4K7190	1 1/4 in.	.05 1/2	4.75
4K7191	1 1/2 in.	.07	6.95

### One Screw Conduit Clamp



Made of steel, are substantial and hold securely. Only one screw required to fasten.

Number	Size	Each	Per 100
4K7400	1/2 in.	2 1/2c	\$1.65
4K7401	3/4 in.	2 1/2c	1.95
4K7402	1 in.	5c	4.25

### Conduit Straps



Strong, heavy, galvanized.

Number	Size	Lb.	10 lbs.
4K6885	1/4 in.	9c	80c
4K6886	1/2 in.	9c	80c
4K6887	3/4 in.	9c	80c
4K6888	1 in.	9c	80c
4K6889	1 1/4 in.	9c	80c
4K6890	1 1/2 in.	9c	80c
4K6891	1 3/4 in.	9c	80c



### 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 1/4-inch holder, other sizes, 2 1/4-inch.

Number	Article	Diam.	Net	Each	Ten
4K7480	10	\$0.95	\$0.81	\$0.64	
4K7481	12	1.16	.98	.77	
4K7482	14	1.60	1.28	1.01	
4K7483	16	1.90	1.62	1.27	

### 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 1/4-inch holders.

Number	Watt	Diam.	Ht.	Each	Each
4K7494	50	12	4 1/4	\$1.53	\$1.21
4K7495	75	12	5 1/4	1.62	1.27
4K7496	100	14	6 1/4	1.87	1.47
4K7453	200	16	7 1/4	2.21	1.74



### Nail Knobs

Thick heavy cap and body, will not break, assembled with 3/4 inch 12 penny nails, leather washer on top, steel washer below. Nails will not bend. Finest quality glazed.

4K7581	Per 100	\$1.23
Per 1000		\$10.20
In barrel lots of 3200		
per 1000		9.75



### Porcelain Tubes

4K7576	3 inch	\$0.44	\$3.50
4K7577	8 inch	2.30	21.50

### Solid Porcelain Knobs

4K7580	No. 5 1/2 Standard	87c
Per 1000		\$8.00



### Porcelain Cleats

4K7578	2 Wire	1.20	\$10.50
4K7579	3 Wire	1.20	10.50

### Conduit Elbows

BLACK IRON			
Number	Size	Each	10 Lots
4K7122	1/2 in.	\$0.09	\$0.84
4K7123	3/4 in.	.11	.96
4K7124	1 in.	.13	1.17
4K7125	1 1/4 in.	.25	.23 1/2
4K7126	1 1/2 in.	.34	31 1/2
4K7127	2 in.	.59	57 1/2
4K7128	2 1/2 in.	.99	.96

GALVANIZED			
Number	Size	Each	10 Lots
4K7130	1/2 in.	\$0.11	\$0.10 1/4
4K7131	3/4 in.	.16	.14
4K7132	1 in.	.22	.20
4K7133	1 1/4 in.	.29	.27
4K7134	1 1/2 in.	.38	.36
4K7135	2 in.	.69	.66
4K7136	2 1/2 in.	1.15	1.10

### Conduit Couplings

BLACK IRON			
Number	Size	Each	10 Lots
4K7137	1/2 in.	\$0.06	\$0.05 1/2
4K7138	3/4 in.	.09	.08
4K7140	1 in.	.11	.10
4K7141	1 1/4 in.	.15	.14
4K7142	1 1/2 in.	.19	.17 1/2
4K7143	2 in.	.25	.23 1/2
4K7144	2 1/2 in.	.34	.34
4K7145	3 in.	.53	.50

GALVANIZED			
Number	Size	Each	10 Lots
4K7146	1/2 in.	\$0.07	\$0.06
4K7147	3/4 in.	.10	.09
4K7148	1 in.	.12	.11
4K7149	1 1/4 in.	.17	.16
4K7150	1 1/2 in.	.21	.19
4K7151	2 in.	.27	.25 1/2
4K7152	2 1/2 in.	.40	.37
4K7153	3 in.	.59	.55



### Mica Fuse Plugs

A quality fuse plug with clear mica windows. The 10 amp. and 15 amp. size comes with the new Octoson window as required by underwriters.

Number	Size	Each	For 100
4K7530	6 Amp.	3c	\$2.85
4K7531	10 Amp.	3c	2.85
4K7532	15 Amp.	3c	2.85
4K7533	20 Amp.	3c	2.85
4K7534	25 Amp.	3c	2.85
4K7535	30 Amp.	3c	2.85

### Cartridge Fuses

Underwriters' Approved Standard

#### FERRULE ENDS

4K7536	10 amp.	4K7547	35 amp.
4K7537	15 amp.	4K7548	40 amp.
4K7538	20 amp.	4K7549	45 amp.
4K7539	25 amp.	4K7550	50 amp.
4K7540	30 amp.	4K7551	55 amp.
Each	5c	4K7552	60 amp.
Per 100	\$4.50	Per 100	\$8.95

#### KNIFE BLADE ENDS

4K7541	65 amp.	4K7561	110 amp.
4K7542	70 amp.	4K7562	125 amp.
4K7543	75 amp.	4K7563	150 amp.
4K7544	80 amp.	4K7564	175 amp.
4K7545	90 amp.	4K7565	200 amp.
4K7546	100 amp.	Each	62c
Each	29c	Per 100	\$69.85
Per 100	\$27.75		

### Jefferson Transformers



Best quality transformers. Reliable Use so little current they hardly register on meter. Underwriters' approved. Flexible A.C. secondary leads. Attach to 100-120-volt A.C. Capacity, 25 watts 60 cycle. For signal work and door openers.

Number	Secondary	Each	Ten
4K7487	Wizard 10 volts	71c	69c
4K7488	Tri-volt 6-8-12	84c	81c
4K7489	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
4K7490	Round	S.B.	9c	\$8.00
4K7491	Round	O.C.	10c	9.00
4K7492	Card holder	S.B.	20c	19.00
4K7493	Card holder	O.C.	22c	21.00



### Standard Iron Box Bells

Standard quality iron box bells.

Number	Style	Size	Each	Ten
4K7484	Buzzer		30c	29c
4K7485	Door Bell	2 1/2 in.	31c	30c
4K7486	Door Bell	3 in.	39c	38c

### Flat Head Wood Screws

NET PER GROSS

No. 6			
4K6808	1 in.	20c	
4K6809	1 1/4 in.	22c	
4K6810	1 1/2 in.	27c	
4K6811	2 in.	33c	
No. 8			
4K6812	1 in.	22c	
4K6813	1 1/4 in.	24c	
4K6814	1 1/2 in.	29c	
4K6817	2 in.	35c	
4K6818	2 1/2 in.	45c	
No. 10			
4K6819	1 1/4 in.	31c	
4K6821	2 in.	38c	
4K6822	2 1/2 in.	49c	

### Round Head Wood Screws

NET PER GROSS  
Iron Brass Plated

No. 6			
4K6823	1 in.	35c	
4K6826	1 1/4 in.	42c	
4K6827	2 in.	50c	
No. 7			
4K6828	1 in.	37c	
4K6829	1 1/4 in.	43c	
4K6831	2 in.	51c	
No. 8			
4K6832	1 in.	38c	
4K6833	1 1/4 in.	45c	
4K6834	2 in.	53c	

### Solid Brass Round Head Machine Screws

Price per Gross

Length	No.	6/32	No.	8/32
1/4 in.	4K6835	18c	4K6842	27c
3/8 in.	4K6836	20c	4K6843	31c
1/2 in.	4K6837	22c	4K6844	34c
3/4 in.	4K6838	29c	4K6845	41c
1 in.	4K6839	35c	4K6846	49c
1 1/4 in.	4K6840	45c	4K6847	60c
1 1/2 in.	4K6841	56c	4K6848	70c



# 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 Price	Net Each	Std. Pkg. Each
4K7464	15	30c	20c	19c
4K7465	25	30c	20c	19c
4K7466	50	32c	22c	21c

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 Price	Net Each	Std. Pkg. Each
4K7456	15	32c	22c	21c
4K7457	25	32c	22c	21c
4K7458	50	35c	24c	23c

Can be assorted for standard package price

## White—Inside Frosted

For Any 105-120 Volt Current 120 to standard package.

Number	Watts	Retail Price	Net Each	Std. Pkg. Each
4K7459	15	25c	17c	16c
4K7460	25	25c	17c	16c
4K7461	40	25c	17c	16c
4K7462	50	25c	19c	18c
4K7463	60	25c	19c	18c

Can be assorted for standard package price

## Type C Nitrogen Lamps

For 105 to 120 Volt Current —Clear Bulbs

Note: Inside frosted lamps will supersede the clear lamps as soon as manufacturing facilities permit. Prices will be the same.

Number	Watts	Std. Pkg.	Each	Std. Pkg.
4K7469	50	60	21c	19c
4K7470	75	60	32c	30c
4K7471	100	24	32c	30c
4K7472	200	24	58c	56c

For 28 to 32 Volt Current. Clear Bulbs

Number	Watts	Std. Pkg.	Each	Std. Pkg.
4K7473	50	60	30c	28c
4K7474	75	60	38c	35c
4K7475	100	24	45c	42c

For 105 to 115 Volt Current. Blue Bulbs

Number	Watts	Std. Pkg.	Each	Std. Pkg.
4K7476	50	60	45c	42c
4K7477	75	60	49c	45c

## Lite-O-Nite

Consumers practically no current. Is a small economical and reliable lamp that is in great demand for use in bedrooms, halls, sick rooms, nurseries, signs, signal lights, exits, etc. Rated at 8 1/2 watts. For

110-130-volt current.	
4K6877—Clear, Net, each, 19c.	
Std. Pkg. 250, Each, 17c	
4K6878—Frosted, Net, each, 21c.	
Std. Pkg. 250, Each, 19c	

## Dim-Lite Socket Low Lite

Gives five different degrees of light. Ideal for bedrooms, halls, etc. Satin brass finish. List, \$1.00. For all 110-120-volts current. Shipping wt. 12 oz.

4K6879—Net, each, 80c	
10 lots, each, 70c.	

## Flashers

Suitable for sign, show windows and where off-and-on action is wanted. Fit Edison base socket. Shpg. wt. 8 oz.

4K6880—60 Watt, Each, 90c	
4K6889—100 Watt, Net, each, \$1.06	

**Sell Lighting Fixtures—See the Great Display of them on Pages 171-181**

## 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 iron door for outdoor. "Racine" only with solid door for in or out door use. Approved by Underwriters. 250 Volts or Less, A. C. or D. C.

No.	Amp.	Style	List	Each
4K6866	10	Indoor	\$28.00	\$21.95
4K6867	10	Outdoor	28.00	21.95
4K6868	20	Indoor	30.00	23.52
4K6869	20	Outdoor	30.00	23.52

**Racine Switches**  
4K6870 10 In-outdoor 19.50 15.28  
4K6871 20 In-outdoor 23.00 18.03  
4K6872 30 In-outdoor 26.00 20.80

## Tork Time Clocks

For controlling lighting in store windows, on electric signs, poster boards, automatic oil burners, etc.

A. C. or D. C. 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
4K6873	115	\$20.00	\$14.00
4K6874	130	25.00	17.54

## Swirlite Reflectors Perfect Light Control for Display Windows

Good lighting sells merchandise, and SWIRLITE 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 130 or 150 watt Nitrogen bulbs. No bulbs included.

4K6883—Net Cost, each, \$4.25	
Lots of 3, \$4.15	

**Mill Type Bulbs**  
Very rugged. Recommended for use where lamps are subjected to vibration. For 105 to 120-volt current. Clear bulbs.  
4K7478—25-watt.  
4K7479—50-watt.  
Each, 18c. Std. pkg. lots of 120, Each, 17c

## Frosted Candle Lamp

A very attractive lamp of latest design for candle type lighting fixtures and wall brackets. Standard Edison base. For any current 105 to 120 volt.  
4K7467—White Frosted, Each, 36c  
4K7468—Golden Glow Frosted, Each, 39c

## Lamp Coloring Crescent Brand—Pint Bottles

Number	Color	Each	Ten
4K7508	Red	\$1.10	\$1.05
4K7509	Blue	1.10	1.05
4K7510	Green	1.10	1.05
4K7511	Amber	1.10	1.05
4K7512	Frosted	1.10	1.05

## 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.

4K6884—Each, 85c	
10 lots, 70c	

## Paine Hangers

For fixtures and outlet boxes. Insert through ceiling, automatic wings fold over. Three-eighth threaded nipple complete with lock-nut.

4K6875—Each, 14c	
100, \$11.75	

## Paine Sectional Switch Boxes



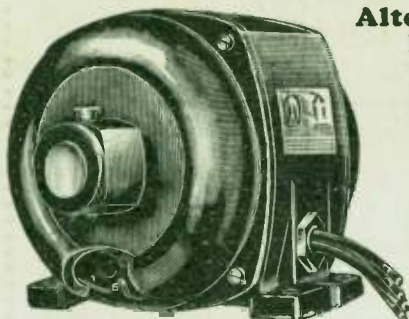
Something entirely new. New patented galvanized clip on ends more easily adjustable than the old type. Easy to gang. No screw adjustments. Just snaps on. A knockout. Can be reinserted in box to the satisfaction of the electrical inspector. Use them and save time.

4K6998—Loom box without clamps, Each, 9c	
100 lots, \$7.75	
4K6999—Loom box with clamps, Each, 10c	
100 lots, \$8.89	
Conduit or B. X. Box	
4K7000—Deep, Each, 10 1/2c	
100 lots, \$10.10	
4K7001—Shallow, Each, 10 1/2c	
100 lots, \$10.10	



# "B-LINE" Guaranteed MOTORS

## Alternating Current, Single Phase Repulsion-Induction Less than 40 Degrees Rise



B-Line Repulsion-Induction Motors are strictly quality goods. They are amply proportioned to deliver the maximum dependable service over a long period of years. B-Line motors operate with unusual quietness, and the temperature rise under full load is less than 40 degrees C.

Cast iron field rings and lead covers provide the proper housing for the field and armature, thus giving full protection for the heart of the motor. Positive ventilation is secured by use of an effective fan on the armature and large air ducts between the field core and field rings. B-Line frames are also splash proof. The field core is assembled, insulated, wound, dipped and baked as a unit, after which it is pressed into the cast iron field ring.

These motors are of splash-proof construction, with mirror-black baked enamel finish. The bearings are extra long running bronze, arranged with a wool-packed, long life, lubricating system. Every motor is very carefully crated or boxed so that the dealer is sure to get the motor in first-class condition and not marred or damaged. As a whole this line of motors have better efficiency, greater overload capacities and stronger starting torque than any other competing line of goods. They are not flimsy, light weight motors, but are heavy duty, strong, sturdy, husky motors, able to take care of any job they are installed on and guaranteed to be entirely satisfactory to the purchaser or his money will be refunded.

A thorough investigation of all performance data of this line of motors as compared with other motors has been made and this motor is a leader in all the most important respects. A transfer is imprinted right on the motor itself close to the leads connecting to the line, showing how to connect up for 110 or 220 volts. The direction of rotation can be changed easier and quicker than any other motor on the market. The motor has four brushes, which is the latest design. The brushes are built to give long life, but can

be changed or renewed very conveniently. The motors have a specially large fan and a unique ventilating system whereby air circulates on all sides of the windings.

B-Line motors are especially adapted to the operations of such machines as: air compressors, water pumps, floor surfacing machines, and similar applications requiring a motor of high starting torque, as well as ability to carry extreme overloads when required.

### 40 Degree—Single-Phase Repulsion-Induction 60 Cycle 110-220 Volts—Speed 1750 R. P. M.

Article Number	H. P.	Motor Only		Ship. Wt. Lbs.	Sliding Base		Pulley Recommended					Shaft Diam. In.
		List Price	Net Price		Article Number	Extra Cost	Article Number	Price	Diam. In.	Face In.		
13K111103	1/4	\$21.50	\$17.95	30			13K111003	\$0.87	2	1 1/4	1/2	
13K111105	3/8	27.00	22.95	35			13K111005	.97	2 1/2	1 3/4	3/4	
13K111107	1/2	33.00	28.05	65	13K111119	\$1.35	13K111007	1.22	3	2 1/2	3/4	
13K111109	3/4	40.00	34.00	70	13K111120	1.35	13K111009	1.34	3 1/2	2 3/4	1	
13K111111	1	47.00	37.95	80	13K111121	1.58	13K111009	1.34	3 1/2	3 1/4	1	
13K111113	1 1/2	66.00	57.10	142	13K111122	2.70	13K111013	1.58	4	3 3/4	1 1/2	
13K111115	2	75.00	63.75	150	13K111123	2.70	13K111013	1.58	4	3 3/4	1 1/2	

### 40 Degree—Single-Phase Repulsion-Induction 25 Cycle 110-220 Volts—Speed 1450 R. P. M.

Article Number	H.P.	Motor Only		Ship Wt. Lbs.	Sliding Base Extra Cost	Pulley Recommended				Shaft Diam. In.
		List Price	Net Price			Article Number	Price	Diam. In.	Face In.	
13K111126	1/4	\$24.75	\$21.05	35		13K111005	\$0.97	2 1/2	1 3/4	1/2
13K111128	3/8	39.50	33.58	65	\$1.35	13K111007	1.22	3	2 1/2	3/4
13K111130	1/2	37.95	32.00	70	1.35	13K111009	1.34	3 1/2	2 3/4	1
13K111132	3/4	46.00	38.10	75	1.35	13K111009	1.34	3 1/2	2 3/4	1
13K111134	1	62.10	52.70	142	2.70	13K111013	1.58	4	3 3/4	1 1/2
13K111136	1 1/4	75.90	64.60	160	2.70	13K111013	1.58	4	3 3/4	1 1/2

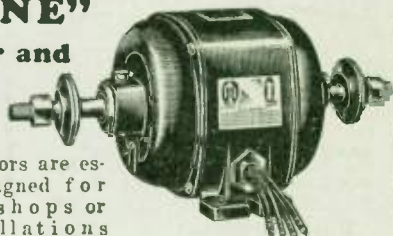
## Paper Pulleys For All Types of Motors

Paper pulleys are better than wood or metal pulleys. They grip the belt and reduce slipping, delivering more power with less wear on the belt. This complete assortment takes care of any ordinary requirements. We will gladly quote prices on sizes not listed.

Specify Article Number F9H11002.

Dia.	Face	Shaft Sizes	Ea.	Dia.	Face	Shaft Sizes	Ea.
1 1/2	2 1/2	1/2-3/4	\$0.87	4	2 1/2	1-1 1/4	\$1.35
2	2 1/2	3/4-1	.97	4	3 1/2	1-1 1/4	1.48
2	3 1/2	1-1 1/4	1.08	4	3 1/2	1-1 1/4	1.48
2 1/2	1 1/2	1/2-3/4	.97	4	4 1/2	1-1 1/4	1.61
2 1/2	2 1/2	3/4-1	1.06	4	4 1/2	1-1 1/4	1.61
2 1/2	3 1/2	1-1 1/4	1.18	4	5 1/2	1-1 1/4	1.79
3	1 1/2	1/2-3/4	1.06	4 1/2	2 1/2	3/4-1	1.50
3	2 1/2	3/4-1	1.16	4 1/2	3 1/2	1-1 1/4	1.60
3	3 1/2	1-1 1/4	1.28	4 1/2	4 1/2	1-1 1/4	1.70
3	4 1/2	1-1 1/4	1.28	4 1/2	4 1/2	1-1 1/4	1.70
3 1/2	1 1/2	1/2-3/4	1.41	4 1/2	5 1/2	1-1 1/4	1.85
3 1/2	2 1/2	3/4-1	1.41	5	2 1/2	3/4-1	1.67
3 1/2	3 1/2	1-1 1/4	1.26	5	3 1/2	1-1 1/4	1.81
3 1/2	4 1/2	1-1 1/4	1.26	5	4 1/2	1-1 1/4	1.97
3 1/2	5 1/2	1-1 1/4	1.38	5	5 1/2	1-1 1/4	2.31
3 1/2	6 1/2	1-1 1/4	1.38	6	3 1/2	1-1 1/4	2.31
3 3/4	1 1/2	1/2-3/4	1.50	6	4 1/2	1-1 1/4	2.56
3 3/4	2 1/2	3/4-1	1.50	6	5 1/2	1-1 1/4	2.81
3 3/4	3 1/2	1-1 1/4	1.74	6	6 1/2	1-1 1/4	3.19

## "B-LINE" Grinder and Buffing Motors



These motors are especially designed for use in tire shops or other installations where continuous heavy work is done all day long. They will last for years on such service if given only reasonable care and attention. They are identical in construction with the motors described above. The prices quoted represent big savings over prices usually asked for motors of this quality. No wheels included at prices quoted. Shafts extend to accommodate any type wheel which might be used and still permit of most convenient handling of work.

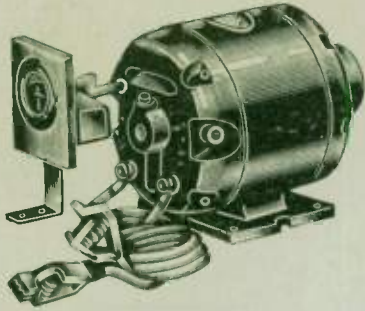
### Repulsion-Induction—Single-Phase 60-Cycle—Prices Do Not Include Wheels

Article Number	H.P.	Speed R.P.M.	List Price	Net Price	Volts	Ship. Wt.	Shaft Diam.
13K111139	1/4	1750	\$27.50	\$23.38	110	35	1/2
13K111141	3/8	3450	31.00	26.35	110	40	3/4
13K111143	1/2	1750	32.50	27.00	110	40	3/4
13K111145	3/4	3450	34.00	28.90	110	40	3/4
13K111146	1	1750	41.00	34.85	110/220	65	3/4
13K111149	1 1/2	3450	48.00	40.80	110/220	70	1
13K111151	2	1750	48.00	40.80	110/220	70	1
13K111153	3	3450	57.50	48.88	110/220	70	1 1/2
13K111155	4	3450	61.50	52.27	110/220	75	1 1/2



# Quality Electric Motors

## At Lowest Prices Ever Quoted



### Battery Charging and Lighting Generator

For charging batteries, lighting lamps and operating motors. Delivers 36 volts, 7 amperes at 2500 revolutions per minute. Will charge from 2 to 32-volt batteries connected in series or may be connected directly to a 32-volt lighting circuit to supply current for ten 25-watt lamps. For home lighting plant, garage or battery service stations. Solid construction throughout.

Bronze bearings and bearings. Built for hard work. A powerful generator of exceptional merit. Uses No. 14 copper wire or larger for connections. Complete with directions and wiring diagram. Has 2-inch grooved pulley for 1/2-inch round belt or 2-inch flat pulley for 1-inch flat belt. Specify pulley wanted.

9K11037—With meter, cutout, battery wire and clips as illustrated.....\$19.25  
9K11038—Generator only, no meter, cutout or battery wire.....\$16.50  
Shipping weight, 35 pounds.

### D. C. Charging and Lighting Generator

For charging radio and auto batteries or to operate a small home lighting system. A powerful generator that pays for itself quickly. You can sell it to small garages, truck fleet owners, farmers, laundries, grocers, radio set owners and many others. Delivers current to charge any 6-volt starting or lighting battery without adjustment or regulation. Also may be attached directly to lighting circuit of a tractor or motor boat or for any other purpose where 8-volt current of about 8 to 10 amperes is required. Has base for convenient attaching to flat surface. Size, 6 inches high, 7 1/2 inches wide, and 5 1/2 inches long. Fitted with pulley, 2 1/4 inches in diameter. Delivers 8 volts, 8 amperes against battery resistance when driven at a speed of about 2250 revolutions per minute. Has automatic cutout for disconnecting battery if power goes off. Provided with 2-in. grooved pulley for 3/4-in. round belt or 2-in. flat pulley for 1-inch flat belt. Complete with directions and wiring diagram. Specify pulley wanted.

9K11045—Each.....\$10.80

### Fractional H. P. Motors

Developed to satisfy demand for small dependable motors for driving small machinery and other devices. Ideal for dentists. Runs smoothly and is especially speedy. Grooved pulley. Shipping wt. 10 lbs.

9K8395—1/40 H. P. Universal, 3 speed. List, \$8.50. Net.....\$5.95  
9K8396—1/40 H. P. Universal, 1 speed. List, \$8.00. Net.....\$5.60



### Pioneer Utility Motor

1/4 H. P.

\$9.85 Less 2% Cash Discount

Here is an exceptional bargain in a motor, suitable for washing machines, ironers, grinders, lathes, buffers, saws, farm machinery and all general uses where a 1/4 H. P. motor is required. Nothing on the market to equal them for real quality at our tremendous savings.

An efficient, powerful, dependable, smooth, quiet and cool running motor.

A. C. motors are single phase, clutchless, split-phase type. D. C. motors are compound wound. Speed, 1750 R. P. M., except 25 cycle A. C. which is 1450 R. P. M. Everlasting oversize phosphor bronze bearings with automatic wick oil feed above and below. Simple, sturdy, trouble-proof construction throughout. Splash-proof type, the ventilating ducts being designed to keep out splashing water and yet provide ample ventilation. Can't be beat for family washing machines and places where motor is liable to be splashed. Smooth and cool running—a day's running will hardly warm it up. High powered—will carry 50% overload for a time without injury. Ten-foot waterproof cord with connecting plug included. Arranged for running either direction. 2-inch diameter grooved pulley included. Shaft diameter 1/2 inch.

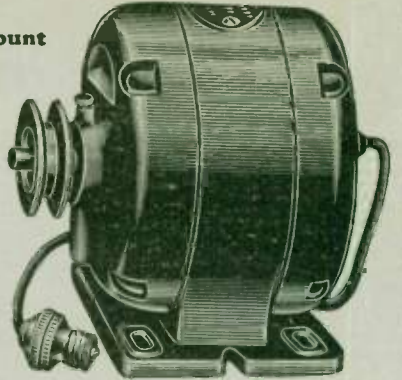
9K11032—1/4 H. P. Motor for 105 to 115 volt, 60 cycle.....\$9.85

A. C. Price.....\$15.00  
9K11033—1/4 H. P. Motor for 105 to 115 volts, 25 cycle.....\$15.00

A. C. Price.....\$15.00  
9K11034—1/4 H. P. Motor for 110 volts D. C. Each.....\$15.00

9K11035—1/4 H. P. Motor for 22 volt D. C. Each.....\$15.00

9K11036—1/4 H. P. Motor for 220 volt D. C. Each.....\$16.50  
Shipping weights, 35 to 40 pounds.



### Portable Power Stand

#### 1/4 H. P. Motor With Reduction Gear

This outfit consists of one of our Pioneer 1/4 H. P. Utility Motors mounted on a sturdy metal tripod and equipped with a reduction gear that gives the outfit tremendous pulling power. It will start heavy loads that ordinary small motors cannot handle. For operating churns, cream separators, washing machines, grinders, saws and other machinery. Motor has 2 1/4 inch diam. 1 1/4 inch wide flat belt pulley on one end with speed of 1750 R. P. M. Pulley on opposite end is geared down to 290 R. P. M. and has 4 1/2 inch and 2 inch diameter flat faced pulleys, 1 1/4 inch wide; also 4 inch face pulley grooved for 1/2 inch round belt. Numerous speed combinations can be worked out with this arrangement of pulleys.

The strong iron tripod legs are rubber tipped to prevent stand from slipping. Has an adjustable rod which attaches to the machine to be driven insuring a tight belt at all times. Height, 27 inches. Fitted with 15 foot cord and attaching plug. Actual weight, 35 pounds. Shipping weight, 84 lbs.

9K11040—For 110 Volt 60 cycle. A. C. List Price, \$45.00.

9K11041—For 22 Volt D. C. Your net.....\$26.95

9K11042—For 110 Volt D. C. Your net.....\$26.95



### Pioneer Portable Buffer and Grinder 1/4 H. P. Motor

Equipped with a 7-inch buffer on one end of shaft and a 6-inch grinding wheel on the other end. A sturdy, reliable, general purpose tool. It is a wonder on fine grinding. For grinding shafts, fine tools, lathes bits, etc., it is unexcelled. Far superior to belt-driven styles for all particular grinding jobs. It can be handily moved from one place to another and its many practical uses make it ideal for the home worker, home mechanic, motor repair shops, service stations, tire shops, etc.

Has the same dependable, smooth, cool-running motor as described above. Fitted with cord and 2-piece connection plug.

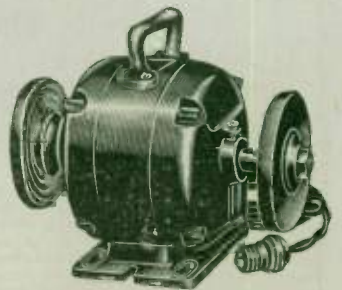
9K11028—For 110 v. 60-cycle A. C. Each.....\$14.95

9K11029—For 110 v. 25-cycle A. C. Each.....\$14.95

9K11030—For 22 v. D. C. Each.....\$14.95

9K11031—For 110 v. D. C. Each.....\$14.95

If desired, six inch wire brush wheel can be supplied in place of cotton buff for \$3.60 extra.





# American Flyer

For 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.



## American Legion Limited

A new, beautifully decorated train with the "American Flyer" Triple Action Remote Control. 62 inches long, consisting of locomotive, combination mail and baggage car, pullman and observation cars, all of which are finished in brilliant red. Locomotive is 15 inches long and has twin reversible headlights, large pantograph bell, hand rails, all finished in polished nickel; journal boxes, air tanks and name plates are bright brass. Baggage and mail car has two interior electric lights and four sliding doors. It also has mail bag set, allowing mail pick-up when in action. Pullman car name "Ainerica" has two interior lights and swinging,

and perhaps outlive its owner's playtime age. Each train and accessory is beautifully finished in appropriate colors and makes a fine appearance.

automatic-closing vestibule doors. Observation car "Pleasant View" has one interior electric light and one platform dome light, red and green rear lights. All cars are 16 inches long, including couplers. They are faithful reproductions of regular train equipment. Outfit consists of 8 pieces curved track, 6 straight pieces and necessary binding clips and track terminal connection, making oval track 212 inches in circumference. Shipping weight, 29 lbs.

15K7783—Complete. List, \$35.00.  
Net, each .....\$24.60  
(The 100 watt transformer is recommended for this train.)



## The Commander

3-car train, 61 inches long, consists of locomotive, two pullmans and observation car. Locomotive is 13 1/4 inches long, equipped with manual reverse and protected headlight, with red and green side lenses. Bell, pantograph headlight housing and hand rails are finished in polished nickel. Name plates, journal boxes and air tanks are bright brass. Pullman cars, named "Bunkerhill" are 14 1/4 inches long and have one interior light each. Observation car "Yorktown" is also 14 1/4 inches long and has one interior electric light and one light and observation plat-

form dome. Ornamental, polished brass platform railing. Entire train finished in brilliant orange and car sides are richly lithographed. Comes complete with track equipment to form 184 inch oval, consisting of 12 pieces and all connections. Shipping weight, 24 lbs.

15K7784—Complete. List, \$27.00.  
Net, each .....\$18.90  
15K7816—Same except with only 2 Green Cars and Engine. List, \$20.00.  
Net .....\$14.35

(Can be operated with 75 watt transformers, but 100 watt type is recommended.)



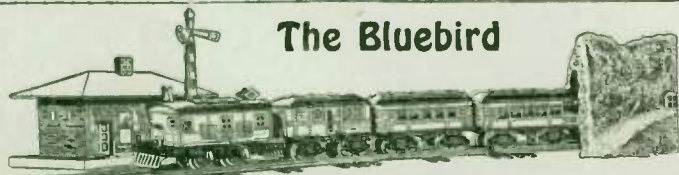
## The Jeffersonian

An "O" gauge miniature electric train whose low, long, huge-looking cars, together with big, powerful locomotive, presents a wonderful appearance. 40 inches long, finished in a beautiful thistle-green color. Equipment consists of 9 1/2 inch locomotive with automatic track reverse, combination baggage and mail car, pullman car and observation car. Locomotive has headlight and nickel finished trim

with bell. All cars are 9 1/4 inches long and have interior lights; 4-wheeled trucks and brass vestibule steps. Track equipment consists of 18 pieces, forming an oval 182 inches in circumference. Shipping weight, 12 lbs.

15K7785—List, \$15.50.  
Net, each .....\$10.83

(We recommend a 75 watt transformer for this train.)



## The Bluebird

Takes its name from the gay blue color in which this fine little train is finished. This is a very complete outfit with a 4-piece train—Station House, Semaphore and Tunnel. 9 1/4 inch locomotive with brass journal boxes, recessed type protected headlight, nickel plated trimmings and bell. Cars have double trucks and

are 6 1/4 inches long. Passenger and observation cars have one interior electric light in each. Track equipment consists of 14 pieces, forming a 142 inch oval. Shipping wt., 13 lbs.

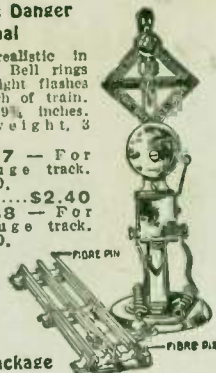
15K7786—Complete. List, \$13.75.  
Net, each .....\$9.33

(We recommend a 75 watt transformer for this train.)

## Automatic Danger Signal

Very realistic in operation. Bell rings and red light flashes on approach of train. Height, 9 1/2 inches. Shipping weight, 3 lbs.

15K7787—For "O" gauge track. List, \$3.50.  
Net, each .....\$2.40  
15K7788—For wide gauge track. List, \$3.80.  
Net, each .....\$2.60



## Extra Trackage

Heavy gauged tinne steel. Forms flat bottom to prevent wobbling on floor.



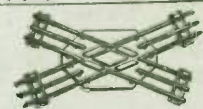
## Straight Track

"O" gauge track. Length, 10 in. Shipping wt., 1 lb.  
15K7789—Set of 12 pieces. List, \$1.80. Net, .....\$1.20  
Wide gauge track. Length, each piece, 14 inches. Shipping wt., 1 1/2 lbs.  
15K7790—Set of 6 pieces. List, \$3.60. Net, .....\$2.40



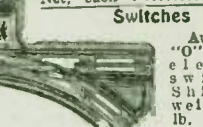
## Curved Track

"O" gauge. Length, each piece, 10 inches. Shipping wt., 1 lb.  
15K7791—Set of 12 pieces. List, \$1.80. Net, .....\$1.20  
Wide gauge. Length, each piece, 14 inches. Shipping wt., 1 1/2 lbs.  
15K7792—Set of 6 pieces. List, \$3.60. Net, .....\$1.80



## Crossover

"O" gauge. Shipping wt., 1 lb.  
15K7793—List, \$1.00.  
Net, each .....67c  
Wide gauge. Shipping wt., 1 1/2 lbs.  
15K7794—List, \$1.35.  
Net, each .....90c



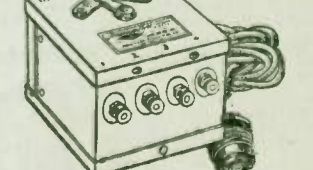
## Switches

Automatic "O" gauge electric switch. Shipping weight, 1 lb.  
15K7795—Pair (as shown). List, \$3.00.  
Net, each .....\$2.00

Wide gauge manual electric switches in pairs. Shipping weight, 3 1/2 lbs.  
15K7796—Pair. List, \$5.00.  
Net, each .....\$3.75



## Transformers



"American Flyer" trains are designed to operate on 5 1/2 in. to 18 1/2 in. volts, according to size. These transformers step down the 110 volt, 60 cycle A. C. current to the proper voltage and allow speed control of trains in half voltage steps. Finely made and absolutely safe.  
15K7797—30 watt size, 6 speeds. List, \$3.35. Net, each, .....\$2.25  
15K7798—75 watt size, 15 speeds. List, \$3.80. Net, each, .....\$2.60  
15K7799—100 watt size, 18 speeds. List, \$5.50. Net, each, .....\$3.67



## MAZDA TRAIN LAMPS

15K7813—8-volt clear for 0-Gauge  
Trains. Net, each.....20c  
15K7814—14-volt clear for Wide  
Gauge Trains. Net, each.....20c  
15K7815—14-volt frosted for 0-G  
Lamps. Net, each.....30c

## WATER TANK

Height, 9 1/4  
inches. Top  
finished a bril-  
liant red, and  
frame work in  
black. Has ad-  
justable wa-  
ter-spout con-  
trolled by  
weight and  
cord. Very  
realistic in ap-  
pearance.  
Shipping wt.,  
1 lb.

Net, each,  
60c

15K7800  
List, 85c



## Trestle Bridge

3-piece wooden trestle bridge with  
track. Length, 56 inches. Shipping  
weight, 5 1/2 lbs.  
15K7801—0" gauge. List, \$3.75,  
Net, each.....\$2.50  
15K7802—Wide gauge. List, \$4.25,  
Net, each.....\$2.90

## WIDE GAUGE TUNNELS

Made of heavy  
paper-mache, and  
will withstand more than ordinary  
rough handling. Very realistic color-  
ing in waterproof colors. For wide  
gauge trains only. Length, 18 inches;  
width, 13 1/4 inches; height, 10 1/2 inches.  
Shipping weight, 3 lbs.  
15K7803—List, \$2.50,  
Net, each.....\$1.67

## Passenger Station

Has one  
exterior  
electric light  
and universal track terminal and  
wires. Height, 5 1/2 inches; width, 3 1/2  
inches; length, 2 1/2 inches. Shipping  
weight, 3 1/2 lbs.  
15K7804—List, \$2.35,  
Net, each.....\$1.57

## Large Passenger Station

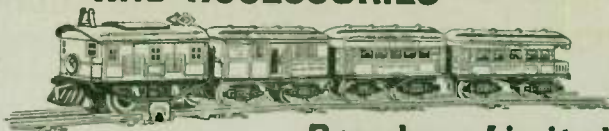
A great  
big station,  
similar in  
type to Suburban Station. Brilliant  
red top. Brick effect sides with  
"stone" trim. Height, 7 1/2 in.; width,  
8 in.; length, 12 1/2 in. Shipping wt.,  
4 lbs.  
15K7805—List, \$2.50,  
Net, each.....\$1.67

## Arc Light

Single arm arc  
light. One of the  
most popular train  
accessories.  
Height, 9 1/4 in.  
Very realistic in  
appearance, and  
strong and sturdy  
in construction.  
Shipping wt., 1  
pound.

15K7806—  
List, \$1.50.  
Net, each, \$1.00

A Portable Phonograph for the Kiddies—Page 210



## Broadway Limited

of 12 pieces, to form an oval 122 inches  
in circumference. Shipping weight, 8 lbs.

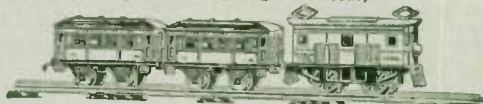
15K7807—Complete. List, \$9.25.

Net, each.....\$6.25

(We recommend 75 watt transformer,  
but a 50 watt size will operate it when no  
lighted accessories are used.)

## The Suburban

Length, 21 inches, with  
strong, speedy locomotive, fin-  
ished in brilliant red and neatly  
decorated. Engine, 6 1/2 inches  
long—has headlight and nickel-plated trim.  
Two single-truck passenger cars, 5 1/2  
inches long. Has 8 pieces, curved "0"  
gauge track, making 82-inch circle. A  
very popular little train.



Shipping weight, 5 lbs.

15K7808—Complete. List, \$5.75.

Net, each.....\$3.89

(We recommend 50 watt transformer to  
operate this train.)

# THE LIBERTY COASTER



STEEL  
WHEELS  
THAT WON'T  
COME  
APART  
OR  
BREAK

Strong  
Handle



BIG BALLOON TIRES  
ONE-PIECE BODY SIDES  
EXTRA STRONG UNDERPINNING

Quick-Acting Brake

Roller Bearing  
Wheels

off. Bottom of heavy 3-ply veneer,  
the top edge in brilliant red.

The heavy disc wheels are firmly bound together with steel band and are not  
merely spot-welded as is the common practice on wheels of this type. (See small  
cutaway illustration above to show this extra strong method of construction.) Roller  
bearings in hub cannot drop out when wheel is removed. Easily lubricated. Un-  
derpinnings are sturdy, designed with good, strong axles and heavy steel braces.  
Tough wooden handle with steel handgrips. Size of box, 16x30 inches. 10 in.  
roller bearing wheels with 3/4 in. rubber tires. Varnish and red trim. Shipping  
weight, 35 lbs.

15K7809—List, \$7.50. Net, each.....\$3.95

15K7811—Same, with 1-inch tires—green trim. List, \$9.00. Net..... 4.60

## Liberty Gliders

Strong steel framework securely riv-  
eted. Fitted with special Liberty wheels,  
the same as on Liberty Coaster directly  
above. Hard wood footboard nicely fin-  
ished. Special made, easy grip handle.  
Rest stand attached as shown.

15K7810—With 8 in. wheels, 3/4 in.  
tires, red finish. With brake. Shipping  
wt., 22 lbs. List, \$2.50.

Net, each.....\$1.88

15K7812—With 10 in. roller bearing  
yellow finish wheels and one in. balloon  
tires; rubber mat and brake. Shipping  
wt., 27 lbs. List, \$4.50.

Net, each.....\$2.70

STRONG AND STURDY—  
IT WILL STAND MUCH  
BANGING AROUND





# Wilson

## ATHLETIC EQUIPMENT



### Knute K. Rockne Double Laced-Valve Type Official Foot Ball

The Knute K. Rockne Foot Ball is the original valve type, ready laced ball. Designed by the famous Notre Dame coach to give long life and double laced to insure a firmer grip in passing. It has the double lining to keep the ball lively and prevents it from bulging out of shape. Made of the finest selected pebble grain cowhide, specially tanned. It has become the choice of leading coaches and universities. These balls come to you already laced and ready for quick inflation. Can be inflated with any ordinary pump in a jiffy. Shipped complete with Wilson patented valve bladder. Shipping weight, 2 lbs.

11K4961—List, \$12.00.  
Net, each .....\$8.00



### Interscholastic Ready Laced Foot Ball

Wilson Interscholastic Ready Laced Foot Ball. Regulation as to shape and size. It comes ready laced, saving you time and trouble of lacing and tying stem of bladder. Inflates with any regular pump. Made of fine selected pebbled grain cowhide with the Wilson patented double lining which holds ball in shape and adds to the life of the ball. Shipped complete with stemless bladder and laced ready for inflation. An unusually good value. Shipping weight, 1 1/4 lbs.

11K4962—List, \$8.00.  
Net, each .....\$5.50



### "Red" Grange "77" Regulation Foot Ball

Here are three regulation foot balls certified by Red Grange, the famous University of Illinois foot ball star and packed complete with bladder and his autographed photograph.

Wilson Red Grange Varsity Foot Ball is ready laced, air valve and regulation size. Made of selected pebble grain cowhide and canvas lined. Shipping weight, 2 lbs.

11K4963—List, \$5.00, Net.....\$3.35  
Wilson Red Grange Regulation Foot Ball. Made exactly as Varsity ball above except without ready laced and air valve feature. Shipping weight, 1 1/4 lbs.

11K4964—List, \$3.50, Net.....\$2.25  
Wilson Red Grange Scholastic Foot Ball. Of genuine cowhide, complete with bladder, rawhide lace and lacing needle. Shpg. wt., 1 1/4 lbs.  
11K4965—List, \$2.00, Net.....\$1.30

## Wilson Standard Foot Balls



### Interscholastic Ready Laced

Wilson A5B Interscholastic Foot Ball. Made of selected pebble grain cowhide leather, with Wilson patented double lining of best grade fabric. Official in size and weight. Especially suited for practice games. Packed complete in box with high grade pure gum bladder, rawhide lace and lacing needle. Shipping weight, 2 lbs.

11K4966—List, \$6.00.  
Net .....\$4.00



### Official Interscholastic

Wilson Interscholastic Ready Laced Foot Ball. Made of pebbled grain cowhide and lined with good quality white canvas. A most durable and serviceable ball. No lacing worries, as the ball is laced with rawhide ready to inflate. Official as to shape, size and weight. Packed complete with stemless bladder. Shipping weight, 1 1/4 lbs.

11K4967—List, \$5.00.  
Net .....\$3.50



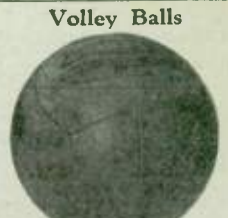
### Boy's Foot Balls

Wilson No. 27 College Foot Ball. Made of good quality genuine cowhide, pebbled grain, and double lined with canvas. Medium size. Leather lace; needle.

11K4968—List, \$1.50.  
Net .....\$1.05

Wilson No. 29 Youth's Foot Ball. Made of genuine cowhide—smaller than regulation size. With leather lace and needle.

11K4969—List, \$1.25.  
Net .....85c



### Volley Balls

Wilson-Meanwell Official Hidden Lace Volley Ball. Eight piece pattern of the finest selection of tan colored horsehide, ready laced. Complete with bladder. Shipping weight, 4 lbs.

11K4970—List, \$10.00.  
Net .....\$6.85

Wilson U. S. Gov't. Special Volley Ball. Selected pebble grain cowhide. With pure gum bladder, lace and needle. Shipping weight, 3 1/2 lbs.

11K4971—List, \$6.00.  
Net .....\$4.15

Wilson Volley Ball. Of pebble grain leather, with bladder, lace and needle. Shipping wt., 3 1/2 lbs.

11K4972—List, \$3.50.  
Net .....\$2.40

### Official Soccer Balls



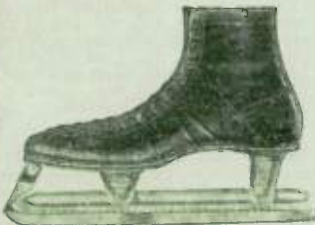
Official Highest Quality English Soccer Ball. Made in England and used in many big matches. Of specially treated leather and hand sewed with 12 panels. Complete with pure gum bladder and waxed linen cord lace. Shpg. wt., 2 1/4 lbs.

11K4976—List, \$14.00.  
Net .....\$9.65

Globe Soccer Ball. Of quality tan leather, hand sewed, 12 panels. With bladder and lace.

11K4977—List, \$9.00.  
Net .....\$6.25

## Planert's Winner Skating Outfits



### Men's Hockey

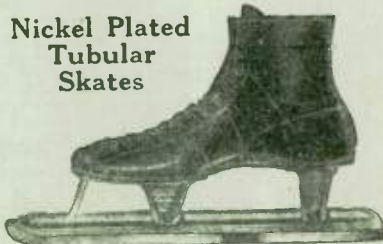
Men's Planert Winner Hockey Skate Outfit. Built of the finest quality materials. Electrically welded and soldered throughout. No open seams whatever give this skate the lightness and strength that accounts for their great popularity. Shoes are of selected grade leather with webbed reinforcements and long inside counters. Furnished in the high grade nickel plated finish. Tongue is padded with felt. Specially hardened steel blade insures a keen cutting edge. Order a half to one size larger than regular shoe. Shipping weight, per pair, 5 pounds.

11K4973—Sizes 5 to 11. No half sizes.  
Per Pair, List, \$9.50, Net.....\$6.98

Ladies' Planert Winner Hockey Skates. Same as men's, except high top shoes.

Shipping weight, 5 1/4 lbs.

11K4974—Sizes 3 to 8. No half sizes.  
Per Pair, List, \$9.50, Net.....\$6.98



### Men's Racers

Men's Planert Winner Tubular Racer Outfit. Here is a skate built for speed of the finest materials. Runners are of specially tempered steel to give fine cutting edge. Very strong and well made throughout, yet light enough for great speed. Riveted securely to special shoes made of select black leather. Shoes have felt padded tongue and are reinforced on sides with strong web tape. Long inside counter forms a perfect arch support. Furnished in a high grade nickel plated finish. Skate is electrically welded and soldered throughout. Order a half to one size larger than regular shoe. Shipping weight, per pair, 5 lbs.

11K4975—Sizes 5 to 11. No half sizes.  
Per Pair, List, \$9.50, Net.....\$6.98

Robes for Outdoor Sports Are Listed on Page 129



# Wilson

## ATHLETIC EQUIPMENT

### Basket Balls and Equipment

#### Walter E. Meanwell Hidden Lace-Valve Type Official Basket Ball

The Wilson-Meanwell "Hidden Lace" Official Intercollegiate basket ball has been adopted and used exclusively in many leading National and Sectional Basket Ball Championship games. Designed by the famous University of Wisconsin coach and is the only concealed lacing ball which gives a smooth, continuously spherical surface. Every ball is perfectly balanced and because of the patented Wilson fabric double lining, it is lively and stays round. Made of finest selected pebble grain cowhide, specially tanned. The Big Ten Conference has ruled that all basket balls used in conference games must have concealed or Hidden lacing and be of the valve type with a fabric lining, and must be blown to a standard pressure of 13 pounds. This ball conforms in every way to the new ruling.

It is a livelier ball than the unlined type, has no bladder stem or lacing bulge—inflates in a jiffy to the standard pressure without disturbing lacing. Bladder is easily accessible. Shipped complete with patented valve bladder. Shipping wt. 2½ lbs.

11K4980—List, \$18.00.  
Net, each.....\$12.00

#### Wilson Famous Basket Balls Interscholastic—Ready Laced

Wilson Interscholastic Ready-Laced Basket Ball. Made of fine selected pebble grain cowhide with Wilson patented double lining. Official as to shape, size and weight. Rawhide laced. Shipped complete with stemless bladder ready for instant inflation. Shipping wt. 2½ lbs.

11K4981—List, \$12.00. Net, each.....\$8.10

#### Wilson Interscholastic

Wilson Interscholastic J1B Basket Ball. Of selected pebbled grain cowhide with patented fabric double lining. Official in size and weight. Superior in many ways to so-called official balls. Complete in box with high grade gum bladder, rawhide lace and needle. Shipping wt. 2 lbs.

11K4982—List, \$10.00. Net, each.....\$6.25

#### Wilson Regulation Basket Balls

Wilson Basket Ball. Regulation size. Made of pebble grain cowhide with good quality canvas lining. A well made and durable ball. Shipping with pure gum bladder, rawhide lace and lacing needle. Shipping wt., 2 lbs.

11K4983—List, \$6.00. Net, each.....\$3.90

Wilson Basket Ball. Full size and made of genuine cowhide, pebble grained and with canvas lining. An excellent ball for practice play. Complete with bladder, leather lace and lacing needle. Shipping wt., 2 lbs.

11K4984—List, \$4.00. Net, each.....\$2.75

### Wilson Basket Ball Pants



#### Flannel Pants

Wilson Basket Ball Pants. Made of superior quality flannel with loose hanging hip pads. Belt and buckle fastening attached on pants. A very good flannel pants made to stand the gaff. Carried in the following colors: Navy, Cardinal, Royal Blue and Kelly Green. Ship. wt. 1 lb.

11K4985—Per pair. List, \$2.50.  
Net .....\$1.80



#### "Leather Skin" Flannel

Wilson Intercollegiate Basket Ball Pants. Made of famous "Leather-Skin" flannel, basket weave with suede finish on outside. Loose hanging hip pads. Belt and buckle attached to pants. Button fly front. Made on the short inseam style. An exceptionally well made pair of pants that will give long wear. Carried in the following colors: Navy, Cardinal, Dark Orange and Kelly Green. Shipping wt. 1 lb.

11K4986—Per pair. List, \$3.00.  
Net .....\$2.10



#### Olive Drab Pants

Wilson Basket Ball Pants. Made of superior quality twill in an olive drab color. Loose hanging hip pads. Belt and buckle attached to pants. Shipping wt. 1 lb.

11K4987—Per pair. List, \$1.75.  
Net .....\$1.15

Wilson Basket Ball Pants. Good quality drill, olive drab color. Lightly padded at hips. Regular fly front, olive drab color. Lightly padded at hips. Regular fly front. Shipping wt. 1 lb.

11K4988—Per pair. List, \$1.25.  
Net .....80c

#### Striped Athletic Shirts



Wool Worsted Striped Athletic Shirts. Made of high quality medium weight worsted yarn with neck and arm pits cut extra low for plenty of freedom to wearer. Popular wide white chest stripes. Stock colors: Navy Blue, Scarlet, Royal Blue and White. Specify Size. Shipping Weight, 1 lb.

11K4989—List, \$3.00.  
Net each.....\$2.00

#### Mixed Worsted

Of special construction combination worsted cotton. Popular wide white chest stripes. A shirt of long wearing qualities. Stock colors are same as above. Shipping wt. 1 lb.

11K4990—List, \$2.50. Net.....\$1.69

#### Plain Cotton

Plain white cotton shirt. Snug fitting. Shipping wt. 1 lb.

11K4991—Net .....45c

#### Sweat Shirts



Wilson Training or Sweat Shirt. Of good grade cotton with full fleece lining. Low one inch collar and long sleeves. Gray color only. An excellent shirt for general training purposes and for football and basket ball warming up. An ideal shirt for outdoor work. Ship. wt. 2½ lbs.

11K4992—List, \$1.75. Net, \$1.25

#### Elastic Support



Good quality elastic waistband and leg straps. Non-elastic mesh, pouch. Suitable for all around usage, basket ball, football and swimming. Carried in three sizes; small, medium and large. State size wanted when ordering. Ship. wt., 8 oz.

11K4993—List, 65c.  
Net .....40c



# Wilson

## ATHLETIC EQUIPMENT



### Double Cuff Training Gloves

Wilson No. 131 10 oz. Double Cuff Training Gloves. Made of fine selection of tan color napa leather, lined with high grade white canvas. Filled with good quality curled hair; shoe pad; leather binding and laced wrist. A strictly high grade training or friendly bout glove. Shipping wt., 3½ lbs.

11K4956—Set of Four Gloves.  
List, \$13.00, Net.....\$9.00



### Corbett Model Boxing Gloves

Wilson No. 109 8 oz. Corbett Model Boxing Gloves. Made of selected red glove leather, with good quality canvas lining. Hair filled with roll style palm grip canvas lined. A good glove for the gymnasium and boxing bouts. Leather bound. Shipping wt., 3 lbs.

11K4957—Set of Four Gloves.  
List, \$9.00, Net.....\$6.10



### Special 5-Ounce Fighting Gloves

Wilson No. 102 Special 5 ounce Fighting Gloves. Long cuffs afford extra wrist protection. Made of fine wine colored glove leather. Filled with fine hair padding. These gloves are designed by a former world's champion with years of experience in the ring. Shipping wt., 2 lbs.

11K4958—Set of Four Gloves.  
List, \$7.50, Net.....\$5.10



### Corbett Model Boxing Gloves

Wilson No. 132 Men's Corbett Model Boxing Gloves. Made of selected wine colored glove leather and canvas lined. Filled with good grade hair; roll style palm grip, leather lined and padded laced wrist. An exceptionally good value. Shipping wt., 3 lbs.

11K4959—Set of Four Gloves.  
List, \$7.50, Net.....\$5.10



### Youth's Model

Wilson No. 116 Youth's Model Sullivan pattern Boxing Gloves. A very good set of gloves for the young boy learning to box. Made on the same style as gloves worn by Sullivan in his training bouts. Of good quality glove leather, with canvas lining and hair filled. Laced wrist. Shipping wt., 3½ lbs.

11K4960—Set of Four Gloves.  
List, \$4.00, Net.....\$2.75

Wilson No. 115 Juvenile Boxing Gloves. Especially suitable for the younger boy. Made of good grade glove leather, canvas lined, hair filled. Shipping wt., 2½ lbs.

11K4951—Set of Four Gloves.  
List, \$3.50, Net.....\$2.25



### Medium Size Corbett Model Boxing Gloves

Wilson No. 133 Medium Size Corbett Model Boxing Gloves. Of good quality glove leather, canvas lined and hair filled. Well padded laced wrist. A very fine glove for the older boy. One of the most popular boxing gloves today. Shipping wt., 3 lbs.

11K4952—Set of Four Gloves.  
List, \$5.50, Net.....\$3.75

## Basket Ball Shoes



### Ralph Jones B. B. Shoes

Ralph Jones "Professional" Basket Ball Shoe. Designed by an expert and has an enviable reputation for comfort and service among the leading players throughout the country. Heavy white duck uppers with full leather trim and ankle patch. Heavy molded, thick tread rubber sole and positive suction cups that will not slip. Extra heavy scuffer toe cap. Double flexing joint sole to uppers. Non-heat insole with cushion heel. Shipping wt., 3 lbs.

11K4953—Men's sizes, 6½ to 11. List, \$4.00, Net.....\$3.00

11K4954—Boy's sizes, 2½ to 6. List, \$3.50, Net.....2.75



### W. E. Meanwell B. B. Shoes

Walter E. Meanwell Basketball Shoe. Here is a medium priced shoe designed by the University of Wisconsin basketball coach. Of fine quality heavy olive drab duck and brown trimmed. Sole of pure crepe rubber with comfortable inner sole and counters. Thick toe cap with patented stiffer toe guards. Outer part of sole reinforced with layer of rubber. Arch support and Orthopaedic heel. Shoe is also very good for gymnasium and tennis. Shipping wt., 2½ lbs.

11K4955—Men's sizes, 6½ to 11. List, \$2.75, Net.....\$2.35

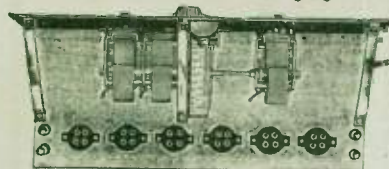
11K4979—Boy's sizes, 2½ to 6. List, \$2.50, Net.....2.35



# The Famous Model-B Single Dial Drum Control All Aluminum Chassis

The new model-B-Pierce-Airo chassis embodies the latest principles of design to fill the most exacting requirements of the set builder. The audio amplifier is a combination of resistance coupling designed for power and tone quality.

Single control tuning by drum dial, with brass compensated condenser ganged in

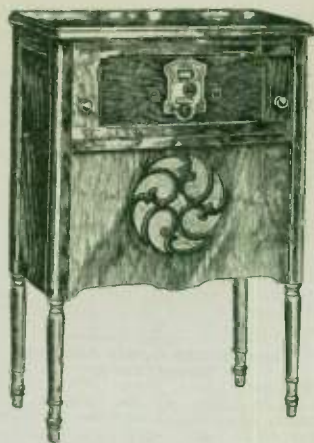


line and permanently calibrated. The chassis is all aluminum. Panel is bronze with new process wood finish. Can be easily made electrically operated with an "A" and "B" eliminator. 201-A tubes used throughout with "C" battery connection for power tube in last stage.

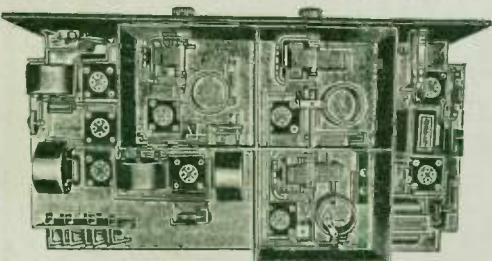
It is all ready assembled and wired so that it is only necessary for the user to connect the batteries.

Supplied either in a cabinet as shown or as a chassis without cabinet. Fits any standard 7x18 inch console or cabinet.

3K11513-In Console Cabinet as shown at right with fine quality in-built speaker. A very beautiful combination. Shpg. wt., 95 lbs. List \$97.50. Net.....\$51.50  
3K11514-Chassis Only. Shipping wt., 22 lbs. List \$50.00. Net.....\$29.50



Popular Style Cabinet—Fine walnut veneers in hand rubbed finish. Built in cone speaker. Sliding drawer for chassis installation. Ample room for batteries and accessories.



The ultradyne circuit was one of the earliest and most popular superheterodynes. This new shielded Ultradyne presents some new features and many refinements.

A single stage of completely shielded tuned radio frequency amplification precedes the modulator circuit. This stage uses the most sensitive form of input employing an automatic-constant coupling system which provides equal transfer of energy on all wave lengths. The "Uni-Chokes" employed as the intermediate-frequency transformers are very efficient and have a frequency response curve far superior to that of most long wave transformers. The last stage of audio amplification employs a power tube. It is capable of producing an undistorted output of great volume. All important circuits are by-passed by large fixed condensers.

The complete layout consists of one stage auto-coupled, tuned r. f.; an oscillator; modulator; three stages long wave r. f. amplification and two stages of the very best transformer coupled amplification. The r. f. modulator and oscillator circuits are completely shielded.

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

## The New Shielded Ultradyne An Advanced 9 Tube Super as Specified in Radio News

### LIST OF PARTS

		List	Net
3K3322-3	Hammarlund .00035 Condensers.....	\$15.75	\$ 9.45
3K3358-1	Hammarlund RF coil—No. RE-17.....	2.50	1.50
3K3359-1	Hammarlund RF coil No. RE-18.....	2.50	1.50
3K3525-1	Hammarlund Auto-Couple coil.....	3.50	2.10
3K3307-2	Hammarlund 50 mmf equalizing con.		
	@ 50	1.00	.60
3K431	-6 Tube 5 mf fixed cond.....	5.40	3.24
3K432	-1 Tube 1 mf fixed cond.....	1.25	.75
3K458	-3 .005 mf fixed cond. Tube @ .45.....	1.35	.81
3K454	-2 .001 mf fixed cond. Tube @ .40.....	.80	.48
3K452	-1 .00025 mf fixed cond. Tube.....	1.35	.82
3K1216-2	AF transformer Thordarson @ 8.00.....	16.00	9.60
3K4619-9	Benjamin Sockets @ 75c.....	6.75	4.05
3K1431-2	Marco Vernier Dials @ 2.00.....	4.00	2.40
3K442-2	Yaxley 20 ohm Rheos @ 1.35.....	2.70	1.62
3K3207-4	Yaxley 400 ohm potentiometer.....	1.75	1.05
3K3216-2	Amperite No. 1A.....	4.40	2.64
3K690	-6 Amperite, 1/2 amp.....	1.10	.66
3K3360-4	Madison Multichokes @ 6.50.....	26.00	16.90
3K2411-1	Yaxley double circuit jack.....	.70	.42
3K2412-1	Yaxley single circuit, fil control jack.....	.80	.48
3K2541-1	Yaxley switch with pilot light.....	.75	.45
3K6792-1	Panel 8x24x1/2.....	6.41	4.17
3K3793-1	Baseboard 12x23x1/2.....	1.00	.65
3K336-3	Hammarlund 6x6x7 shields @ 2.00.....	6.00	3.60
3K2101-20	Lengths Tinned Copper Bus Wire.....	.50	.28
3K2105-10	Lengths Spaghetti.....	1.00	.45
3K345	-Complete set of parts.		
List Price, \$115.61, Net.....			\$70.97
Shipping weight, 25 lbs.			

## The Super-Hilco Dyne Kit

### Essential Kit

Net

**\$11.40**

The Super-Hilco Dyne Receiver—a 7 tube set superior to and different from the usual Superheterodyne type set can be constructed from this kit. This receiver appears in the November

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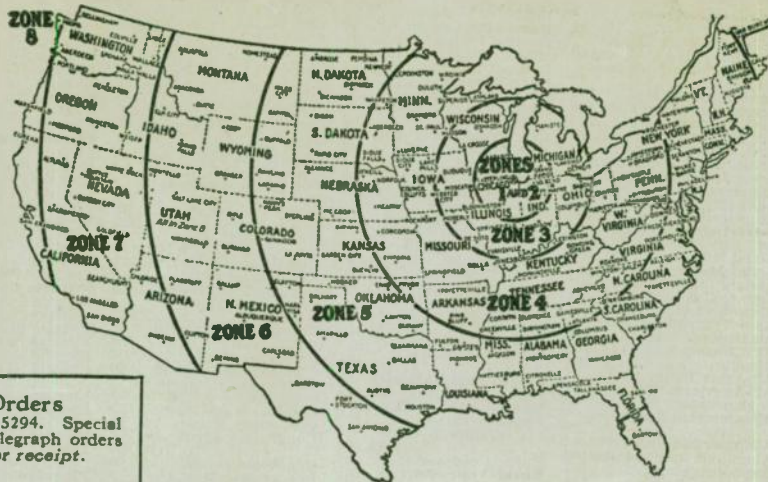
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2	8c	10c	11c	12c	13c	15c	16c
3	9c	11c	12c	13c	14c	16c	17c
4	10c	12c	13c	14c	15c	17c	18c
5	11c	13c	14c	15c	16c	18c	19c
6	12c	14c	15c	16c	17c	19c	20c
7	13c	15c	16c	17c	18c	20c	21c
8	14c	16c	17c	18c	19c	21c	22c
9	15c	17c	18c	19c	20c	22c	23c
10	16c	18c	19c	20c	21c	23c	24c
11	17c	19c	20c	21c	22c	24c	25c
12	18c	20c	21c	22c	23c	25c	26c
13	19c	21c	22c	23c	24c	26c	27c
14	20c	22c	23c	24c	25c	27c	28c
15	21c	23c	24c	25c	26c	28c	29c
16	22c	24c	25c	26c	27c	29c	30c
17	23c	25c	26c	27c	28c	30c	31c
18	24c	26c	27c	28c	29c	31c	32c
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Package not over												
1 Pound.....	.36	.36	.37	.37	.38	.38	.38	.39	.39	.39	.40	.42
2 Pounds.....	.37	.37	.39	.40	.41	.41	.42	.42	.43	.43	.45	.48
3 Pounds.....	.38	.38	.40	.42	.43	.43	.44	.44	.45	.45	.48	.55
4 Pounds.....	.38	.39	.42	.44	.45	.47	.49	.50	.51	.52	.56	.61
5 Pounds.....	.39	.40	.44	.46	.48	.50	.52	.53	.54	.56	.61	.68
10 Pounds.....	.43	.44	.53	.58	.61	.66	.69	.71	.74	.76	.86	1.00
15 Pounds.....	.48	.49	.62	.69	.74	.81	.86	.90	.93	.97	1.12	1.33
20 Pounds.....	.52	.54	.71	.81	.87	.97	1.03	1.08	1.13	1.18	1.38	1.66
25 Pounds.....	.56	.59	.80	.92	1.00	1.12	1.20	1.26	1.32	1.39	1.64	1.99
30 Pounds.....	.60	.63	.89	1.04	1.13	1.28	1.37	1.44	1.52	1.59	1.89	2.31
35 Pounds.....	.65	.68	.98	1.15	1.26	1.43	1.54	1.63	1.71	1.80	2.15	2.64
40 Pounds.....	.69	.73	1.07	1.27	1.39	1.59	1.71	1.81	1.91	2.01	2.41	2.97
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# This INDEX LOCATES YOUR WANTS QUICKLY

<b>A</b>	<b>*A Batteries</b> ..... 46, 51
<b>A-B-C Socket Power Units</b> ..... 44, 45, 46, 49	<b>Abox (Pioneer) Power Unit</b> ..... 47
<b>Accelerator Pedal</b> ..... 140	<b>Accelerators, Auto, Foot</b> ..... 156
<b>A. C. Spark Plugs</b> ..... 142	<b>A. C. Tubes</b> ..... 53, 58
<b>A. C. Voltmeters</b> ..... 118	<b>Acme "B" Eliminators</b> ..... 32
<b>Acme Speakers</b> ..... 32	<b>Adapters, Tube</b> ..... 58
<b>Adjusters, Carburetor</b> ..... 156	<b>Adjusters, Chain</b> ..... 129
<b>Advertising Service</b> ..... 22	<b>"A" Eliminators</b> ..... 7, 43, 49
<b>"A" Eliminators</b> ..... 7, 43, 49	<b>Aerial Kits</b> ..... 104, 105
<b>Aerial Mast</b> ..... 104	<b>Aerials, Light Socket</b> ..... 104
<b>Aero Coil Kits</b> ..... 66, 67, 81	<b>Aero Short Wave Kits</b> ..... 66, 81
<b>Aero Transmitter Kits</b> ..... 163	<b>Air Push</b> ..... 163
<b>Air Cleaners</b> ..... 141, 156	<b>Alemites</b> ..... 163
<b>All-Amax Reflex Kits</b> ..... 84	<b>All-American "B"</b> ..... 43
<b>All-American Radio Receivers</b> ..... 26	<b>All-American Speakers</b> ..... 31
<b>Aluminum for Shielding</b> ..... 103	<b>Ammeter, Ford</b> ..... 157
<b>Ammeters, Radio</b> ..... 99	<b>Amperies</b> ..... 99
<b>Amplifier, Na Aid True-Phonic</b> ..... 86	<b>Amplifier, Power</b> ..... 28, 49, 86, 102
<b>Amplifier, Remler R. F.</b> ..... 65	<b>Amplifier, Resistance Coupled</b> ..... 54, 97, 98
<b>Amplifier Tubes</b> ..... 52 to 58, 69, 97	<b>Amplion Speakers</b> ..... 33
<b>Antenna Equipment</b> ..... 102	<b>Antenna Wire</b> ..... 103, 105
<b>Anti-Motorboater</b> ..... 97	<b>Anti-Vibrators</b> ..... 159
<b>Arresters, Lighting</b> ..... 104	<b>"A" Socket Power Units</b> ..... 7, 43-49
<b>Athletic Equipment</b> ..... 202, 203, 204	<b>Audio Couplers, Impedance</b> ..... 74, 75, 86, 87
<b>Audio Couplers, True-Phonic</b> ..... 66	<b>Audio Transformers</b> ..... 63, 69
<b>Auto Batteries</b> ..... 72-74, 76, 77, 81, 86, 87	<b>Auto Bulbs</b> ..... 137
<b>Auto Cables</b> ..... 137	<b>Auto Clocks</b> ..... 139
<b>Auto Ehamel</b> ..... 152, 153	<b>Auto Heaters</b> ..... 149
<b>Auto Horns</b> ..... 143	<b>Automatic Drills</b> ..... 163
<b>Automatic Guide Lamps, Auto</b> ..... 134	<b>Automatic Relay Switches</b> ..... 48
<b>Auto Polish</b> ..... 152, 153	<b>Auto Rebs</b> ..... 129
<b>Auto Springs</b> ..... 151	<b>Astee Cord Tires and Tubes</b> ..... 122-125, 128
<b>B</b>	<b>"B" Eliminators</b> ..... 7, 43-49, 69
<b>"B" Eliminator Condenser Blocks</b> ..... 96	<b>"B" Eliminator, Reservoir</b> ..... 69
<b>"B" Eliminator, Voltmeter</b> ..... 44, 69, 118	<b>Back Cushions</b> ..... 154
<b>Bakelite Dials and Knobs</b> ..... 92	<b>Bakelite Panels</b> ..... 119
<b>Bakelite Tubing</b> ..... 102	<b>Balancer, R. F.</b> ..... 107
<b>Baldwin Headsets</b> ..... 37	<b>Baldwin Speakers</b> ..... 35
<b>Baldwin Units</b> ..... 36	<b>Balkite Power Units</b> ..... 45
<b>Balsa Wood Speakers</b> ..... 119	<b>Base Boards, Wood</b> ..... 203
<b>Basket Balls</b> ..... 203	<b>Batteries, Auto</b> ..... 136
<b>Batteries, Dry</b> ..... 51	<b>Batteries, Radio</b> ..... 46, 47, 51
<b>Battery Cabinets</b> ..... 50, 137	<b>Battery Cables</b> ..... 50, 137
<b>Battery Chargers</b> ..... 43-48, 136	<b>Battery Mats</b> ..... 50
<b>Battery Meters</b> ..... 50, 118	<b>Battery Switches</b> ..... 93, 94
<b>Battery Terminals</b> ..... 50, 136	<b>"B" Batteries, Dry</b> ..... 51
<b>"B" Current Supply</b> ..... 43-49, 69	<b>Bells and Buzzers</b> ..... 100, 196
<b>Bell Wire</b> ..... 105	<b>Belta Fan</b> ..... 160

<b>Bench, Radio</b> ..... 111, 116	<b>Benjamin Sockets</b> ..... 95
<b>Best-Lincoln Super Kit</b> ..... 80	<b>Binding Posts</b> ..... 101
<b>Blades, Scroll Saw</b> ..... 120, 166	<b>Blowout Patches</b> ..... 131, 132
<b>Blow Torches</b> ..... 121	<b>Blue Prints, Radio</b> ..... 206
<b>Bobine Twin-Eight Six Kit</b> ..... 82	<b>Bog Wrenches</b> ..... 164, 165
<b>Bolt Cutters</b> ..... 166	<b>Bolts, Stove</b> ..... 166
<b>Bolts, Stove</b> ..... 166	<b>BOLKS RADIO</b> ..... 97, 206
<b>Boxing Gloves</b> ..... 204	<b>Brack Control</b> ..... 48
<b>Brackets, Sub-Panel</b> ..... 70, 72, 119	<b>Brake Bands</b> ..... 159
<b>Brake Bands</b> ..... 159	<b>Brake Lanting</b> ..... 146
<b>Brake Lanting</b> ..... 146	<b>Brands Headset</b> ..... 37
<b>Bremer-Tully "B" Eliminator</b> ..... 43	<b>Bremer-Tully Counter-phase Power-Six</b> ..... 73
<b>Bremer-Tully Parts</b> ..... 73, 100, 102	<b>Bright Star Batteries</b> ..... 51
<b>Browning-Drake Colls</b> ..... 88	<b>Browning-Drake Parts</b> ..... 75
<b>Brushes, Auto</b> ..... 153	<b>"B" Supply Units</b> ..... 7, 43-49, 69
<b>Buffer Condensers</b> ..... 96	<b>Build-Your-Own Speaker</b> ..... 32
<b>Bulbs, Auto</b> ..... 137	<b>Bulbs, Electric</b> ..... 147
<b>Bumpers, Auto</b> ..... 144, 145	<b>Burns "B" Power</b> ..... 45
<b>Burns Speakers</b> ..... 29	<b>Bushing Removers</b> ..... 165
<b>Bushing Removers</b> ..... 165	<b>Bushings, Electric</b> ..... 96
<b>Buttons, Push</b> ..... 100, 196	<b>Button, Auto Horn</b> ..... 143, 159
<b>Buzzer</b> ..... 100	<b>C</b>
<b>"C" Batteries</b> ..... 51	<b>Cabinets, Portable</b> ..... 82, 116
<b>Cable Connectors</b> ..... 50, 94	<b>Cable Markers</b> ..... 50
<b>Cables, Auto</b> ..... 137	<b>Cables, Jones Multiplex</b> ..... 95
<b>Cable Antenna</b> ..... 104	<b>Call Book, Citizens' Radio</b> ..... 206
<b>Camfield Condensers</b> ..... 91	<b>Camfield Parts</b> ..... 71, 91
<b>Camfield Super Seven</b> ..... 71	<b>Cams, Auto Hub</b> ..... 150, 155, 160
<b>Caps, Radiator</b> ..... 140, 156	<b>Caps, Tube</b> ..... 55
<b>Caps, Valve</b> ..... 55	<b>Carburetor Detector</b> ..... 100
<b>Carburetor Adjusters</b> ..... 156	<b>Carburetors, Ford</b> ..... 159
<b>Cardboard Tubing</b> ..... 103	<b>Cardwell Condensers</b> ..... 91
<b>Carpets, Auto Floor</b> ..... 150	<b>Carpet Ladders</b> ..... 140
<b>CARTER PRODUCTS</b> ..... 37, 93	<b>Cartridge Fuses, Electric</b> ..... 196
<b>Celastite Battery Cable</b> ..... 196	<b>Cement, Radiator</b> ..... 144, 152
<b>Cement, Radio Insulating</b> ..... 103	<b>Cement, Rubber</b> ..... 132, 152
<b>Cement, Rubber</b> ..... 132, 152	<b>Chain Adjusters</b> ..... 129
<b>Chains, Tire</b> ..... 153	<b>Chamols</b> ..... 153
<b>Champion Spark Plugs</b> ..... 142	<b>Chargers, Battery</b> ..... 44, 45, 46, 47, 48, 136
<b>Checkers, Tube</b> ..... 59	<b>Checks, Rebound</b> ..... 155, 160
<b>Chevrolet Specialties</b> ..... 155	<b>Chicago Daily News Kit</b> ..... 67
<b>Choke Coils</b> ..... 64, 66, 70, 73, 74, 87, 89	<b>Christmas Tree Ornaments</b> ..... 167
<b>Cigar Lighters</b> ..... 144	<b>Citizens' Radio Call Book</b> ..... 206
<b>Clamps, Ground</b> ..... 105	<b>Clamps, Auto Hose</b> ..... 144
<b>Clamps, Hose</b> ..... 144	<b>Clarifier and Tone Filter</b> ..... 37
<b>Claroast</b> ..... 95	<b>Cleaners, Auto Air</b> ..... 141, 156
<b>Cleaners, Vacuum</b> ..... 182	<b>Cleats, Porcelain</b> ..... 196
<b>Cleats, Porcelain</b> ..... 196	<b>Clips, Grid Leak</b> ..... 96
<b>Clocks, Auto</b> ..... 139	<b>Clocks, Panel</b> ..... 106
<b>Cloth, Polishing</b> ..... 153	<b>Clutch Facing</b> ..... 201
<b>Coaster Wagons</b> ..... 201	<b>Coffee Urns</b> ..... 185
<b>Coil Kits, 6 tube</b> ..... 89	<b>Coil Points, Auto</b> ..... 157
<b>Coils, Radio</b> ..... 66, 70, 71, 72, 73, 74, 75, 81, 84, 88, 89, 97, 100, 102	<b>Coils, Aero</b> ..... 66, 81
<b>Coils, Auto</b> ..... 137, 157	<b>Coils, Choke</b> ..... 64, 70, 73, 74, 87, 89
<b>Coils, Honeycomb</b> ..... 88	<b>Coils, Short Wave</b> ..... 66, 100
<b>Coils, Solenoid R. F.</b> ..... 89	<b>Coils, Space-wound R. F.</b> ..... 89
<b>Coils, Spider Web</b> ..... 89	<b>Coils, Wave Trap</b> ..... 66, 70, 100, 102
<b>Coil Winders</b> ..... 121	<b>Compacts, Power</b> ..... 49
<b>Comparator, Temple</b> ..... 36	<b>Compound Valve Grinding</b> ..... 152
<b>Condenser Blocks "B" Eliminator</b> ..... 96	<b>Condenser, Buffer</b> ..... 96
<b>Condensers, Cardwell</b> ..... 90	<b>Condensers, Compensating</b> ..... 70, 90, 91
<b>Condensers, Dubilier</b> ..... 96, 100	<b>Condensers, Filter</b> ..... 96
<b>Condensers, Fixed</b> ..... 96, 100, 106	<b>Condenser Shafts</b> ..... 90
<b>Condensers, Midget</b> ..... 70, 90, 91	<b>Condensers, Neutralizing</b> ..... 70, 73, 84, 90, 91, 98
<b>Condensers, Variable</b> ..... 64, 66, 73, 74, 84, 90, 91	<b>CONDUIT Flexible Metallic</b> ..... 196
<b>Conduit, Rigid Iron</b> ..... 196	<b>Conduit Boxes</b> ..... 195, 197
<b>Cone Speakers</b> ..... 29-35, 106	<b>Cone Units, Battery</b> ..... 36
<b>Connectors, Cable</b> ..... 50	<b>Connectors, Cable</b> ..... 94
<b>Connectors, Fahnestock</b> ..... 101	<b>Connectors, Wire</b> ..... 121
<b>Console Speakers</b> ..... 107-116	<b>Continental Tubes</b> ..... 55
<b>Cookers, Pressure</b> ..... 188	<b>Copper Foil</b> ..... 103
<b>Cords, Extension (Radio)</b> ..... 161	<b>Cotton Pins</b> ..... 166
<b>Cotter Pin Pliers</b> ..... 120	<b>Countersinks</b> ..... 120
<b>Coupler Units, Oscillator</b> ..... 60, 61, 63, 64, 70, 71, 74, 76, 77, 80, 81, 203	<b>Covers, Radiator</b> ..... 148
<b>Covers, Radiator</b> ..... 148	<b>Covers, Seat</b> ..... 154
<b>Crank Case Repair Arm</b> ..... 150	<b>Crank Shaft, Ford</b> ..... 160
<b>Creeper, Auto</b> ..... 163	<b>Cryostat Detectors</b> ..... 100
<b>Crystal Sets, Pandora</b> ..... 100	<b>Cunningham Tubes</b> ..... 58
<b>Curling Irons, Electric</b> ..... 187	<b>Curtains, Side</b> ..... 154
<b>Cushions, Back</b> ..... 154	<b>Cut-Out Boxes</b> ..... 194
<b>Cut-Outs, Dash Control</b> ..... 149, 155	<b>Cutters, Bolt</b> ..... 166
<b>Cutters, Panel</b> ..... 120, 121	<b>"D" Coils, Ellis</b> ..... 81
<b>Dash Lamps</b> ..... 135	<b>Dash Switch</b> ..... 133, 134
<b>DASH PARTS</b> ..... 97	<b>DeJor Condensers</b> ..... 91
<b>DeJor Phone Plugs</b> ..... 37	<b>Desk Lamps</b> ..... 170
<b>Detectors, Crystal</b> ..... 100	<b>Detector Tubes</b> ..... 52-58, 97
<b>Dial Adjusters, Vernier</b> ..... 92	<b>Dials, 64, 70, 72-75, 77, 82</b> ..... 120
<b>Dials, Drum</b> ..... 64, 70, 72, 77, 82	<b>Dies, Taps and</b> ..... 120
<b>Dies, Taps and</b> ..... 120	<b>Direct Current Battery Charger</b> ..... 48
<b>Distributor Cover, Auto</b> ..... 155	<b>Donle-Bristol Tubes</b> ..... 58
<b>Doors, Auto Lamp</b> ..... 134	<b>Doughnut Coils</b> ..... 89
<b>Dressing, Auto Top</b> ..... 153	<b>Drills</b> ..... 120, 165
<b>Drills, Electric</b> ..... 120	<b>Drum Dial Radio Receivers</b> ..... 16-17
<b>Drum Dial Radio Receivers</b> ..... 16-17	<b>Dry Batteries</b> ..... 51
<b>Dry Cell Tubes</b> ..... 52-58	<b>Dublier Condensers</b> ..... 96, 100
<b>Dulce-Tone Radio Phonograph Speaker</b> ..... 36	<b>Duoformer Coils</b> ..... 7
<b>Dust Caps, Auto</b> ..... 130	<b>Dust Cloth</b> ..... 146
<b>Dust Brand Products</b> ..... 152	<b>Globe Speaker</b> ..... 33

<b>Gloves, Boxing</b> ..... 205	<b>Gold Unipower</b> ..... 47
<b>Gradeon Pick-Up Unit</b> ..... 83	<b>Grease Guns</b> ..... 163
<b>Grid Leak Clips</b> ..... 96	<b>Grid Resistances</b> ..... 94, 97
<b>Grid, Electric</b> ..... 164, 198	<b>Grinders, Valve</b> ..... 163
<b>Ground Clamps</b> ..... 105	<b>H</b>
<b>Hack Saws</b> ..... 166	<b>Hair Dryer, Electric</b> ..... 187
<b>Hardison Trans-formers</b> ..... 81	<b>Hammarlund Parts</b> ..... 63, 90, 100
<b>Hoyt Rotary Meter</b> ..... 59	<b>Hammarlund-Roberts Hi-O</b> ..... 63
<b>Hand Drills</b> ..... 120, 163	<b>Handy Trickle Booster Charger</b> ..... 46
<b>Hangers, Fixture</b> ..... 197	<b>Harvey Bumpers</b> ..... 144
<b>Head Lamps, Auto</b> ..... 135, 155, 158	<b>Headsets, Radio</b> ..... 37
<b>HEATERS, AUTO</b> ..... 149	<b>Heaters, Electric</b> ..... 188
<b>Heater Plugs</b> ..... 181, 193	<b>Heating Pads, Electric</b> ..... 186
<b>H. F. L. Nine-in-Line Super</b> ..... 62	<b>H. F. L. Transformers</b> ..... 63
<b>Hilo-Dyne Super Kit</b> ..... 205	<b>Homechargers</b> ..... 44
<b>Hi-Mu Tubes</b> ..... 54, 58, 97	<b>Honeycomb Coils</b> ..... 88
<b>Horn, Radio</b> ..... 29, 30, 31, 33, 35	<b>Horns, Auto</b> ..... 143
<b>Horn Buttons</b> ..... 143, 159	<b>Hose Clamps, Auto</b> ..... 144
<b>Hose, Radiator</b> ..... 144	<b>HOT TO ORDER</b> ..... 207
<b>Hot Plates</b> ..... 188	<b>Hub Caps</b> ..... 150, 155, 160
<b>Hydrometers</b> ..... 50, 137	<b>I</b>
<b>Ignition Equipment, Ford</b> ..... 157	<b>Ignition Tool Set</b> ..... 161
<b>Illuminated Dials</b> ..... 64, 70, 75, 77, 92	<b>Impedance Transformers</b> ..... 75
<b>Impedances, Audio</b> ..... 74, 75, 86, 87	<b>Inductance Switches</b> ..... 94, 101
<b>Infradyne Amplifier</b> ..... 65	<b>Insulated Wire</b> ..... 137, 190
<b>Insulators, Antenna</b> ..... 105	<b>Intensifier, Spark</b> ..... 183
<b>Irons, Electric</b> ..... 183	<b>J</b>
<b>Jacks, Radio</b> ..... 93, 94, 102	<b>Jacks, Auto</b> ..... 133
<b>Jack Switches</b> ..... 93, 94	<b>Jacks, Wall</b> ..... 93, 94
<b>Jewell Motors</b> ..... 50, 59, 118	<b>Jones Multiplex Cables</b> ..... 95
<b>K</b>	<b>Karas 2-Dial Equamatic</b> ..... 72
<b>Karas Parts</b> ..... 72, 90	<b>Kellogg Tire Plug</b> ..... 131
<b>Kingston "B" Eliminator</b> ..... 45	<b>Kits, Radio</b> ..... 7, 49, 60-65, 97, 205
<b>Knobs, Bakelite</b> ..... 92	<b>Kodak Transmitters and Eliminators</b> ..... 44
<b>Kuprox Units</b> ..... 44	<b>L</b>
<b>Laboratory Shielded Super</b> ..... 68	<b>Lamp Coloring</b> ..... 197
<b>Lamp Doors, Auto</b> ..... 134	<b>Lamp Guards, Electric</b> ..... 193
<b>Lamps, Auto</b> ..... 133, 134, 135, 155, 158	<b>Lamps, Desk</b> ..... 170
<b>Lamps, Electric</b> ..... 168, 180	<b>Lamps, Radio</b> ..... 106
<b>Lamps, Reading</b> ..... 170	<b>Lamps, Table</b> ..... 170
<b>Lamps, Therapeutic</b> ..... 188	<b>LaSalle Tubes</b> ..... 56, 57
<b>Lathe, Valve Refacing</b> ..... 162	<b>Lead in Wire</b> ..... 162
<b>Lead Taps, Battery</b> ..... 50	<b>Lenses, Auto</b> ..... 134
<b>Lighters, Cigar</b> ..... 141	<b>Lighting Cable, Auto</b> ..... 137
<b>Lightning Arresters</b> ..... 104	<b>Light Socket</b> ..... 163
<b>Light Socket Power Units</b> ..... 7, 43-49, 69	<b>Lignole Panels</b> ..... 119
<b>Lights, Pilot Radio</b> ..... 93, 94, 101	<b>Linings, Brake</b> ..... 146

<b>Electric Phonograph Pick-up</b> ..... 28, 85, 97	<b>Economy Nine Kit</b> ..... 83
<b>Eufarsee Antenna</b> ..... 182	<b>Eight-in-Line Receiver</b> ..... 182
<b>Electric Appliances</b> ..... 182-189	<b>Electric Bells</b> ..... 197
<b>Electric Curling Irons</b> ..... 187	<b>Electric Drills</b> ..... 120
<b>Electric Fixtures</b> ..... 171-181	<b>Electric Generators</b> ..... 199
<b>Electric Grill</b> ..... 187	<b>Electric Hair Dryer</b> ..... 187
<b>Electric Heaters</b> ..... 188	<b>Electric Heating Pads</b> ..... 186
<b>Electric Irons</b> ..... 183	<b>Electric Motors</b> ..... 198-199
<b>Electric Panel Clocks</b> ..... 106	<b>Electric Percolators</b> ..... 185
<b>Electric Phonograph Reproducing</b> ..... 85, 97	<b>Electric Pick-Ups</b> ..... 85, 97
<b>Electric Ranges</b> ..... 188, 189	<b>Electric Time Switches</b> ..... 106, 197
<b>Electric Toasters</b> ..... 184	<b>Electric Trains, Toy</b> ..... 200, 201
<b>Electric Vibrators</b> ..... 186	<b>Electric Violet Ray Machines</b> ..... 156
<b>Electric Vulcanizers</b> ..... 130	<b>Electric Waffle Irons</b> ..... 187
<b>Electrical Wiring</b> ..... 190-197	<b>Elements, Heater, Iron</b> ..... 181
<b>Eliminators, Radio A and B</b> ..... 43-49, 69	<b>Elkay Radio Receivers</b> ..... 24
<b>Elkon Trickle Charger</b> ..... 81	<b>Ellis "D" Coils</b> ..... 81
<b>Emblems, Radiator</b> ..... 140	<b>Enamel, Radiator</b> ..... 152, 153
<b>Enclosures, Winter</b> ..... 154	<b>Engine Support</b> ..... 160
<b>Equamatic R. F. Transformer</b> ..... 72	<b>Excellor Radio Consoles</b> ..... 110-111
<b>Exhaust Horns</b> ..... 143	<b>Express Rates</b> ..... 207
<b>Extension Cords, Radio</b> ..... 37	<b>Extension Cord Sets</b> ..... 193
<b>Extension Jack</b> ..... 94	<b>F</b>
<b>Fahnestock Connectors</b> ..... 101	<b>Fan Belts, Ford</b> ..... 160
<b>Fan Belt Guide</b> ..... 159	<b>Fenders, Auto</b> ..... 155, 158
<b>Fender Brush</b> ..... 153	<b>Fender Repair Outfit</b> ..... 164
<b>Ferranti Transformers</b> ..... 86	<b>Filament Control Resistances</b> ..... 94, 97, 99
<b>Filter, Contact Point</b> ..... 161	<b>Filter Chokes</b> ..... 48, 69, 96
<b>Filter, Auto Gas</b> ..... 150, 156	<b>Filter, Auto Oil</b> ..... 150, 156
<b>Filter, Output</b> ..... 37, 74, 75, 86, 87	<b>Filter, Tone</b> ..... 37, 75, 86
<b>Fixed Condensers</b> ..... 96, 100, 106	<b>Fixtures, Electric</b> ..... 171-181
<b>Flaps, Auto Rim, Tire</b> ..... 132	<b>Flashlights</b> ..... 167
<b>Floater Hydrometer</b> ..... 50	<b>Flood Lamps</b> ..... 168, 169
<b>Floor Mats, Auto</b> ..... 154	<b>Flower Vase</b> ..... 141
<b>Foil, Copper and Tin</b> ..... 103	<b>Football</b> ..... 202
<b>Ford Replacement</b> ..... 160	<b>Ford Specialties</b> ..... 156-160
<b>Franchise, Monroe Sets</b> ..... 3	<b>Freeze Meter</b> ..... 144
<b>Freight Rates</b> ..... 207	<b>Fritts Radio Cabinet</b> ..... 117
<b>Frost Headsets</b> ..... 37	<b>Frost Plugs</b> ..... 37
<b>Fuses, Electric</b> ..... 192, 196	<b>G</b>
<b>Garage Door Holders</b> ..... 141	<b>Garage Tools</b> ..... 161-167
<b>Gas Can, Emergency</b> ..... 141	<b>Gas Filters</b> ..... 150, 156
<b>Gas Gauge, Auto</b> ..... 150, 155, 156	<b>Gasket, Shellac</b> ..... 152, 153
<b>Gas Tank Locking Cap</b> ..... 141	<b>Gauges, Thickness</b> ..... 161
<b>Gauges, Tire</b> ..... 130	<b>Gears, Auto</b> ..... 155, 160
<b>Gear Shift Balls</b> ..... 140	<b>Generators, Electric</b> ..... 199
<b>Glare Stop</b> ..... 147	<b>Gliders</b> ..... 201

<b>Terms—2% Cash Discount—See Page 207</b>
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# The INDEX CONTINUED FROM THE OPPOSITE PAGE

## L—Continued

Listeners Guide, Radio	206
Litz Wire	103
Locknuts	161, 196
Lock Switches	103
Lock Washers	101, 161
Loflin-White Kit	79
Loon Boxes	195
Loop Antennae	82, 102
Loop Radio Set	21
Loop Wire	103
Loudspeakers	29-35, 106
Loudspeaker Units	36
Luggage Carriers	141
Lugs, Solder	101

## M

Madison-Moore Trans-	78
formers	
Magnafomer Kits	80
Majestic "B" Elim-	
inators	46
Mails, Rubber	132
Markers, Cable	130
Markers, Post	101
Mast, Aerial	104
Mats, Battery	50
Mats, Auto Floor	154
McCullough A. C. Tubes	58
Melo-Head Fourteen	
Kit	79
Meters, Radio	44, 59, 118
Meters, "B" Elimina-	
tor	44, 59, 118
Microphone Buttons	100
Midget Condensers	
	70, 90, 91
Milliammeters	118
Miniature Switches	93
Mirrors, Rear View	133
Modern "B" Compact	44
Modulator Plug	36
Monroe Radio Receiv-	
ers 2-4-9, 12-22, 38-42, 212	
Monroe Sets, Fran-	
chise	3
Motometers	139

## Motors, Electric

186, 193, 199	
Motor Heat Regulator	150
Motors, Sewing Ma-	
chine	186
Mountings, Resistor	97, 98
Multiple Plug	36, 37
Murad Radio Receiv-	
ers	23

## N

Na-Aid Midget Speaker	32
Na-Aid Triphonic	
Amplifier	86
Name Plates	94
National "A" Power	
Unit	47
National Radio Parts	75
Neatsfoot Oil	152
Nutrodine Kit and	
Cole	84, 89, 89
Neutralizing Condensers	
	70, 73, 84, 90, 91, 99
Nine-in-Line Super	62
Non-Freeze Solution	144
Northeastern Horns	143
Nuts	101, 161

## O

Octacore Speaker	31
Oil Filters	150, 156, 159
Oiling System	159
Ornaments, Radiator	139
Orthophone	37
Orthophonic Type Con-	
sols	109, 110, 113, 114
Ortho-Type Speaker	34, 35
Oscillator Coupler Units	
	60, 61, 63
Oscillator Tubes	53, 58
Outlet Boxes	195, 197
Outlets, Yaxley Con-	
venience	94
Output Filter	
	37, 74, 75, 86, 87
Output Transformers	63, 69,
	72, 74, 77, 81, 86, 87

## P

Pacnet Cone Speaker	34
Pacnet Powerformer	49
Panel Cutters	120-121
Panel Lamps, Auto	135, 158
Panel Light	93, 94, 101
Panel, Radio	73, 119
Paragon Radio Group	207
Paste, Solder	121
Pathe Cone Speakers	29, 35
Patches, Blowout	131, 132
Patching Cement	132, 152
Patches, Auto Tub	132, 152
Patterson, Conrad Radio	206
Pedal Pads	156
Pedal Pans	156
Penetrol, Walbert	102
Penn 3-Foot Cone	
Speaker	32

Percolators, Electric	185
Pet Cocks	156
Phasator	102
Philco Socket A and B	
Power	47
Phone Cushions	37
Phone Plugs	37, 93, 94
Phone, Radio Head	37
Phone Tips	37
Photograph Adapters	36
Photograph Pick-Up	
Electric	28, 85, 97

## Phonograph-Radio

Combination	28
Phonographs	210-211
Phonographs, Portable	

Phonograph Units	210
Piano Speaker	31
Pick-Up, Electric Phon-	
ograph	28, 85, 97
Pierce Air Receiver	205
Pierson Radio Consoles	
	24, 108-109
Pilot Condensers	91
Pilot Lights	93, 94, 101
Pilot Light Switch	94, 101
Pilot Meters	118
Pistons, Auto	147
Piston Pins	147
Piston Rings	147
Pliers	120, 129, 146, 166
Plug Fuses	192, 196
Plugs, Attachment	131, 193
Plugs, Radio Phone	
	37, 93, 94

Plugs, Spark	142
Polish, Auto	152, 153
Polishing Cloth	153
Polymer Condensers	96
Popular Mechanics	
Economy Nine	83
Portable Cabinet	82, 116
Portable Loop Antenna	
	82, 102
Portable Phonographs	210
Portable Radio Receiver	
	27, 82

Portable Voltmeters	
	44, 50, 52, 59, 85, 118
Potentiometers	76, 93, 94, 99
Power Amplifiers	
	28, 49, 86, 102
Powerformer	49
Powerizer	49
Power Pack, Unipac	69
Power Transformers	69, 87
Power Tube Adapters	58
Power Tubes 52-58, 69, 97	
Print, Blue	208

Pullers, Gear	162
Puller, Terminal	162
Pulleys	198
Pumps, Tire	130
Pumps, Auto Water	158
Punch, Radio	120, 156
Push Buttons	100, 196
Push-Pull Transformers	
	63, 69, 74, 77, 86, 87

## Q

Quadruplex 5 Receiver	
Kit	83
Quick Service	10, 11

## R

Radiators, Auto	144
Radiator Caps 138, 140, 156	
Radiator Cement	144, 152
Radiator Covers	148
Radiator Emblems	149
Radiator Hose	144
Radiator Ornaments	
	138
Radio Bench	110, 116
Radio Books	97, 208
Radio Call Book, Cite-	
izens	206
Radio Consoles	107-115
Radio Lamps	101, 106
Radio Listeners' Guide	206
Radio Service Set	59
Radio Tables	115-116
Radiotron Tubes	58
Ranges, Electric	189
Raytheon Tubes	
	44, 45, 46, 47
Reading Lamps	168-170
Reed Meter	59, 118
Reamers	120, 161, 162
Rebound Checks	155, 160
Receivers, Radio 2, 4, 5, 6, 8,	
9, 12-27, 38-42, 60-85, 212	
Rectifier Tubes	45, 46, 47, 54, 58
Rectifiers, porcelain	196
Reflex Kits, All-Alarm	84
Rejuvenators, Tube	59
Relay Switches	48
Reliners, Auto Tire	131
Remier-Best Super	64
Remier Infradyne	65
Reproducers	29-36, 106
Resistance Coupled	
Amplifier	64, 97, 98
Resistances	
	93, 94, 95, 97, 98, 99, 106

Resistances, Fixed	93
Resistances, Grid	94, 97
Resistors	98, 106
Resistor Couplers	97
Resistor Mountings	97, 98
R. F. Amplifiers	61, 65, 102
R. F. Choke Coil	
	64, 66, 70, 73, 74
R. F. Reflex Transform-	
ers	89
R. F. Transformers	
	60, 61, 63, 64, 66, 69, 70,
	71, 72, 73, 74, 76, 78, 80,
	81, 84, 88, 89, 100
Rheostat Knobs	92
Rheostats	76, 93, 94, 99
Ribbon Antenna	105
Rim Tools	146
Riveting Pliers	146
Rivets, Brass	146
Roadlights	134-135
Robes, Auto	129
Robertson Coils	88
Roller Bearing	127
Ropes, Auto Tow	132
Rotoscopes	138
Rubber Cement	132, 152
Rubber Mallets	132
Rubber Sponge	153
Rubber Tubing	139
Running-board Lights	
	133, 135

## S

Safe-T-Stat	139
St. James Upright Re-	
ceiver	78
Samson 5-Tube T. C.	
Receiver	74
Samson Parts	74
Sangamo Condensers	96
Saw Blades, Scroll	120
Saws, Hack	163
Saws, Scroll	163
Schwarze Horns	143
Scott Selectone Trans-	
formers	60, 61
Screw Clamps	120
Screwdrivers	120, 165
Screws	101, 161, 196
Scribers	120
Scroll Saw Blades	120
Scroll Saws	120
Seat Covers, Auto	154
Sentinel A-B-C Power	
Unit	46

## Service, Braun 12-Hour

10, 11	
Service Station, Battery	
Charger	48, 136
Sets, Radio 2, 4, 5, 6, 8, 9,	
12-27, 38-42, 60-85, 212	
Set Testers	44, 59, 85, 118
Sewing Machine Motors	86
Shaft, Condenser	90
Shellac Compound	
	103, 152, 153

Shielded R. F. Trans-	
formers	89
Shielded sockets	77
Shielded Tubes	55
Shielding, Aluminum	103
Shielding, Zinc	103
Shields, Stage	70
Shock Absorbers	
	150, 155, 160
Shock Absorbing	
Sockets	73, 95
Shoes, Basket-ball	203
Shoes, Brake	116
Short Wave, Aero Coil	66, 81
Short Wave Coils	100, 102
Kits	66, 70, 100, 102

## Shutters, Auto Radiator

148	
Slide Curtains, Auto	154
Silencers, Tappet	155
Silver Ball	68
Silver-Marshall	68
Short Ball	68, 69, 70
Simonz, Kleener	153
Sleeve Puller	162
Snake Kits	141
Snaps, Timers	166
Soccer Ball	202
Socket Power Unit 7, 43-49	
Sockets, Radio Tube	
	64, 70, 73, 77, 95
Sockets, Electrical	191, 192
Socket Wrench Set	
	120, 164, 165

Solder	121
Soldering Paste	121
Soldering Irons	121
Solder Lugs	101
Solenoid R. F. Coils	89
Sonotone Tubes	52, 53, 54
Space-Wound R. F.	
Coils	89
Spaghetti	103
Spark Intensifier	142
Spark Plugs, Auto	142
SPARTAN HORNS	143
Speakers	29-36
Speaker Table	116
Speaker Units	116
Speakers, Cone	29-35, 106

Sponges	153
Spotlights	135
Spring Connectors	101
Spring, Auto	151
Spring Compressors	
	162
Squeezes	139
Starting Cable, Auto	137
Starter Switches, Auto	
	137, 157
Stop Plates	140
Sterling Meters	59, 118
Stevens Speaker	34
Stop Lights	133
Storage Battery	46, 136
Stove Bolts	161
Stove Ornaments	138
Stoves, Electric	154, 188, 189
Stroboscope 8 Kit	78
Sub-Casings	131
Sub-Panel Brackets	
	70, 72, 119
Sub-Panel Sockets	77, 95
Super Ball Antenna	69
Superior Radio Consoles	107
Superphonic Horns	35
Switches	48, 93, 94, 104,
	106, 133, 134, 135, 137,
	192, 193, 194, 197,
	200
Switches, Battery	93, 94
Switches, Dash	133, 134
Switches, Electric Time	
	106, 197
Switches, Jack	93, 94
Switches, Pilot Light	94
Switches, Auto Starting	
	137, 157
Switches, Stop Light	133
Switching Rheostats	
	93, 94, 99

## T

Table Lamps	170
Tables, Radio	115-116
Taga, Battery Lead	50
Tail Lights	133
Talcum, Tire	132
Talking Tape	132
Tape, Friction	132, 162
Tappet Silencers	155
Tape and Dies	120
Template	121
Terminals, Battery	50, 136
Thermion Comparator	36
Terminal Plug, Battery	163

## TERMS

Testers, Battery	
	50, 59, 118, 136
Testers, Set	59, 85
Testers, Tube	52, 59, 85
Therapeutic Lamp	186
Thermion Gauges	161
Thordarson	
	87
A. F. Transformers	87
Thomson Super 7 Kit	81
Thordarson Power Com-	
part	49
Tinola Speaker	30
Three-Circuit Tuners	
	66, 74, 88, 89, 102
Time Clocks, Automatic	197
Time Switches, Auto-	
matic	106, 197
Tin Foil	103
Tips, Phone	37
Timers, Ford	157
Tire Chains	129
Tire Gauges	130
Tire Pumps	130
Tires, AUTO	122-127
Tire Shoes	131
Toasters, Electric	184
Tone Fixed Condensers	96

Toggle Switches	
	93, 191, 192, 193
Tone Filter	37, 75, 86
Tools, Auto	161-162
Tools, Cover	120, 121
Tools, Radio	120, 121
Tools, Rim	132
Tools, Valve	162
Top Dressing	152, 153
Top Patching Outfit	152
Top Re-Covers	121
Torches, Blow	132
Toroid R. F. Coil	73
Tow Ropes, Auto	132

## TRANS, ELECTRIC

TOY	200, 201
Transformers, Electric	
	196, 200
Transformers, Audio	
	63, 69, 72, 73, 76, 77,
	81, 86, 87
Transformers	
	86
Ferranti	
Transformers, Output	
	63, 69, 72, 73, 76, 87,
	81, 86, 87
Transformers, R. F.	
	60, 61, 63, 64, 66, 69, 70,
	71, 72, 73, 74, 76, 78, 79,
	80, 81, 84, 88, 89, 100
Transfers, Kodak	44
Transmission, Line	146
Transmitter Button	100

Transmitter Kit, Aero	81
Traps, Wave	102
Traveler Portable	
Radio Receiver	27
T. R. F. Kit, 5 tube	84
Trickle Chargers	
	44, 45, 46, 48
Trouble Lamp	133
Truck Tires	127
Truphonic Auto	
Couplers	86
Tube Adapters	58
Tube Cap, Radio	55
Tube Checkers	52, 59, 85
Tube Rejuvenator	69
Tube Repair Outfit	
	130, 131, 132, 152
Tube Tester	52, 59, 85
Tubes, A. C.	126, 127, 128
Tubes, Hi Mu	54, 58, 97
Tubes, Sonatone	52-54
Tubes, Vacuum	52, 53,



# THESE NEW IMPROVED Portable Phonographs

## Command a Ready Sale the Year Round

At first considered a Spring and Summer item only, Portable Phonographs have steadily stretched their market over the entire year. Thousands of them are daily sold for strictly home use. They have become the accepted companion of the radio set. The average home cannot afford both a fine phonograph and a good radio—the answer is the Portable.

Here is a line in which the profits are big. Only a little extra sales effort will make this a source of steady added income to the live radio store.

### The Popular Dan-Dee

List \$15.00 Net, \$8.75

Without question the greatest value ever offered in a good reliable Portable Phonograph. Its tone quality, appearance and general ruggedness are far more than might be expected at this amazingly low price! Compact, only 6 1/2 x 11 x 12 3/4 inches and weighs only 10 1/2 lbs. Plays all standard 10 and 12 inch records. The combination of a generous size tone arm with a special amplification chamber gives tremendous volume with a fidelity and sweetness of tone reproduction that amazes and delights all who hear it. The case is of dovetail construction covered with a heavy close grained artificial leather in a range of six popular colors. Powerful, silent motor. Strong leather handle. Self-contained record album holds 17 records. Special spring needle cup—needles won't spill out. Tone arm, hinges, catches and crank beautifully nickel plated. Assorted colored cases. Shipping wt., 12 1/2 lbs.

13K7817—List, \$15.00. Net, each.....\$8.75

### The Swanson King

With the New Type Superphonic Reproducer

List \$25.00, Net, \$15.00

For those who want the best. A truly fine musical instrument. Not excelled in beauty of design and tone quality. Fitted with an improved throw-back tone arm and the new type Superphonic Reproducer. Full rich volume with a delightful sweetness and naturalness of tone that is surprising. The magnificent case is of dovetail construction—will stand years of hard knocks—covered with fine grain artificial leather. Comes in six popular colors. Top of cover richly embossed in a striking design. Beautifully embossed, richly tinted record compartment holds 15 records. Powerful, silent running motor plays two 10-inch records with one winding. Snap cover case prevents needle spilling. Leather handle. Tone arm and all trimmings heavily nickel plated. A specially constructed tone chamber amplifies to room-filling volume with absolute fidelity of tone. We believe this one of the finest portable phonographs made. Size of case: 7 1/2 x 12 x 12 1/4 inches; weight, 12 lbs. Coverings of cases in assorted colors.

13K7818—List, \$25.00. Net, each.....\$15.00

List

\$15

Net

\$8<sup>75</sup>=



The Dan-Dee

List

\$25

Net

\$15



Swanson King

### The Carlton Symphonic Phonograph

With the New "Matched Wave" Tone Chamber

*Our Symphonic line is made for us by one of the leading Phonograph Manufacturers whose product holds high rank in the field of fine musical instruments.*

We believe the Symphonic to be the peer of all phonographs! Actual tests have proven that nine out of ten, blind-folded, choose it for its beautiful, mellow, faithful tone! The cabinet is a fine example of the most exquisite furniture maker's art.

The Carlton model is designed in an adaptation of the William and Mary period, of the finest cabinet construction and selected in materials. Magnificent rubbed and polished, high-lighted finish.

The secret of the magic-like, marvelous sweetness and truthfulness of tones comes from an advanced, highly developed reproducer coupled with the new tone chamber built on the principle of "matched wave travel." Never before has there been anything just like it! Not even the faint-

est sound is lost! Clearly, purely it recreates the records of string, voice, and reeds with a faithfulness and volume that is enthralling! From the sweet strains of the violin, the lilting trill of the soprano or the boom of a heavy bass, the tone is resonant, vibrant, clear as crystal!

Build good will and profits with the Symphonic line!

The Carlton measures 38 3/4 inches high, 19 inches wide, 20 inches deep. Double spring, powerful silent running motor. All metal parts richly nickel-plated. The front doors open upon a beautiful silk filled grille, below which is record compartment. Shipping wt., 100 lbs.

13K11398—Walnut.

13K11399—Mahogany.

List, \$125.00. Net, each. \$52.75





# SYMPHONIC PHONOGRAPHS

## Supreme in Rendition!

A musical triumph! Never before have you heard anything to equal it! Voice, string and reed instruments are all reproduced with a lifelike trueeness that is a wonder and delight to all who hear it. Whole orchestrations are rendered with such clarity and sharpness that each and every instrument is readily distinguishable, one from the other. Not a note is lost, not a beat is muffled, not a single delicate shading of tone is altered. One may close his eyes and "see" the entire musical ensemble right before him! Records that once gave pleasure now bring a new thrill. Notes you did not know were there, come out in all their original beauty. Vocal records enunciate each word clearly, even words beginning or ending with "s" or "t" which heretofore have been imperfectly rendered.

The secret of this superior performance lies first in a highly developed, improved Symphonic reproducer combined with a tone chamber built on the principle of "matched wave travel." This tone chamber is the result of years of test and development by expert acoustic engineers. It is the marvel of the industry! Each Symphonic Phonograph is tested and carefully adjusted by a musical expert. If its tone falls short of perfection it is rebuilt until it passes the ear of this trained critic.

The models shown are the four time proved styles that set the vogue. They are masterpieces of the cabinet makers and finishers art. They are befitting placement in the most richly appointed home.

The live Radio Dealer will not overlook the profit possibilities of a Phonograph Department. More phonographs are being sold today than ever before. The popularity of the Electrical Pick-Up idea (see page 85) has stimulated phonograph sales considerably.

The Symphonic line offers the Dealer the opportunity to compete against the advertised brands and have a splendid profit for himself. Comparison will easily show the Symphonic the superior of any other phonograph made.



List  
\$300

### 10 Days Free Test

Order one model of the Symphonic, remitting in the regular way. If after 10 days of trial, you do not think it lives up to our claims for it, you may return it and we will refund the price paid. Use your sample as a demonstrator and take orders from it. We furnish you a booklet containing only the list prices, from which you can show the other models.

This will be a big Symphonic Year! Make the best of it!

### The Admiral

A massive, dignified, exquisitely beautiful cabinet of the finest American walnut or choice mahogany in the favored Adam brown rubbed and polished finish. Dimensions: Height 46 1/2 inches, width 20 1/2 inches, depth 22 1/2 inches. All visible metal parts are in statuary bronze. Center door opens onto magnificent horn grille. Two large record compartments with doors as shown. Silent running powerful spring motor. 12-inch turn table. Shipping wt., 250 lbs.

13K11332—Walnut. } List \$300.00. Net, each...\$135.00  
13K11333—Mahogany. }



List  
\$235

### The Ambassador

A beautiful Tudor design. Selected walnut or choice mahogany. Dull rubbed and polished finish. Rich overlays. Four doors. The efficient Symphonic Spring Motor. Dimensions: Height 43 1/2 inches, width 26 1/2 in., depth 20 1/2 in. All exposed metal parts are in statuary bronze. Shipping wt., 150 lbs.

13K11330—Walnut. } List \$235.00. Net.....\$99.00  
13K11331—Mahogany. }



List  
\$125

### The Strand

Console Style that is very popular. Beautiful cabinet work sets off to fine advantage the choice selected woods—walnut or mahogany. Dull rubbed and polished finish. Statuary bronze finish metal parts. Big, powerful spring motor. 12-inch turn table.

Dimensions: Height 35 in., width 31 1/2 in., depth 19 1/2 in. Shipping wt., 195 lbs.

13K11328—Walnut. } List \$125.00. Net.....\$57.00  
13K11329—Mahogany. }



# MONROE

**SINGLE CONTROL  
SHIELDED SIX**

**The Finest Radio  
Brought Within Reach  
of the Average Home**

**10 Days' Free Test—See Page 3**

Retail Price **\$95<sup>00</sup>**

NET PRICE  
WHOLESALE

**\$47<sup>50</sup>**

**RADIO'S  
LEADING  
VALUE**



**Illuminated  
Tuning Dial**

**Special Inbuilt  
Speaker**

## **The Console Model Leads in Value!**

With this strikingly beautiful and most efficient radio set our Dealers can stop all competition! The market has never seen such an amazing value as this! Thousands of our Dealers will reap a harvest on this truly sensational offer.

On pages 8 and 9 you will find a detailed description of the now famous Monroe Single Control Illuminated Dial Six-Tube All Metal Chassis. A Masterpiece of Radio Engineering, it is proving a sensation everywhere. For ease and sharpness of tuning, for long range, it has never been excelled in its class.

The Console is constructed of choice materials with rich walnut finish. Its pleasing design harmonizes admirably with almost any other furniture. Velvety smooth polished finish. It stands 40 in. high, 27 in. wide and 14 in. deep. The set rests in a slide-out tray for easy access to tubes and connections. The lower compartment houses a special conspenser of an advanced design, developed for us by one of the best makers of fine loudspeakers. It is a marvel for its fine reproduction and tremendous volume. The lower compartment measures 12x23x10 inches and provides space for all power units or batteries, making this fine set completely self-contained.

Use This Set as a demonstrator! You can build a real volume trade around it. See page 3 for 10 Days Free Test—you are the sole judge. Let this model help you make this your biggest year!

### **Price List Console Model**

**1K11456**—Set Complete, without accessories, but with in-built loudspeaker. Shipping wt., 70 lbs. **\$47.50**  
List, \$95.00. Net Wholesale.....

### **or Battery Operation**

**1K11457**—Set Complete, with all accessories for battery operation including four 201 A type, one 200 A type and one 112 type power tubes, one Pioneer 120-amp. "A" Storage Battery, two 4½ V. "C" batteries, three large 45 V. "B" batteries and complete Antenna and Ground outfits. Shipping wt., 175 lbs. **\$73.75**  
List, \$146.50. Net Wholesale.....

### **For Socket Power Operation**

**1K11458**—Set Complete, for Socket Power Operation including four 201 A type, one 200 A type and 112 type power tubes, Pioneer "A" Eliminator, Pioneer "B" Eliminator, two 4½ V. "C" batteries and necessary Antenna and Ground outfits. Shipping wt., 140 lbs. List, \$180.00, Net Wholesale..... **\$94.50**

**W. C. Braun Co. 563-571 Randolph St. Chicago**