

1937

RADIO GUIDE

THE COMPLETE STOCK RADIO WHOLESALERS

$-21 - (-9 - 2) = -10$
 $-21 - (-11) = -10$
 $-21 + 11 = -10$
 $-10 = -10$



INDEX ..
FIRST PAGE

LEW BONN CO

MINNEAPOLIS - ST. PAUL
MINNESOTA

TO OUR CUSTOMERS



LEW BONN
President

We are constantly striving to give better service and a larger dollar value. We realize this must be done to justify your business. The larger dollar value we are giving because of our greater purchasing power, due to increasing demands from you, Our Customer, of staple radio merchandise guaranteed by nationally recognized manufacturers and backed by our policy of satisfaction, or Money Cheerfully Refunded.

We realize to give good service we must have employees working co-operatively to give their best; intelligent, pleasant, courteous, and always willing to do the unusual. Most of our personnel have been

with us over a period of time and are happy with their association and willing to give you just such service if you will give us this chance.

Our newly arranged stock and showroom with 55 feet of plate-glass showcase frontage, allows you plenty of room to see the actual equipment and parts while making your purchase from our technically trained counter staff.

Our mail order department and city desk is supervised very ably by one of our oldest employees, figured in years of service with our company, who analyzes and double checks your orders.

May I make a personal appeal to invite your criticism of any purchases or shipments, as only through your constructive complaints and suggestions can we correct weaknesses in our service. If we do not have what you want, we will get it for you if obtainable.

We offer you our Annual Catalog for another year with the wish that it will guide you to a higher level in the radio industry, based upon a more profitable foundation.

BOYD PHELPS
Sales Engineer W9BP

Few men, if any, have had experiences that closely parallel those of Boyd Phelps. Starting with wireless a quarter century ago, he has closely followed the art and many times taken the leadership in making important advancements. Some unbiased observers claim he was responsible for the start of short wave development in his classical experiments during 1920-1924 which began at Minneapolis and continued in Hartford and New York. For this he received a Gold Medal in 1933. Other adventures include editing QST, pounding brass and teaching radio in the navy during the war, establishing first communication on 5 meters and 1/2 meter, first amateur television, lowest wave regenerative oscillator, highest precision frequency measurements, etc. He has been a speaker at dozens of ham conventions since the first at Chicago in 1921, and his writings have been translated and reprinted in many foreign countries. His biography appears in "Who's Who in Engineering" (1925), "Young Men of America," etc.

"Beep" (as he is called by his numerous friends) has held nearly a score of calls and W2BP-W9BP are his at present, being also similar to his initials. The W9BP station contains five regular receivers covering 3 to 30,000 meters, a KW transmitter on 80 meters, a half KW line frequency control five meter unit a 200 watt crystal transmitter on 5-10-20, a modulator delivering 600 watts of audio to any of these, a 15 watt battery operated emergency portable on 40-80 meters, and a 12 watt five meter mobile station in the car.

While he calls the above adventures rather than experience, he has held many responsible positions as president, chief engineer, or consulting engineer with several large eastern radio factories and has a keen understanding of sales angles as well as the problems of the serviceman.

WARD JENSEN
General Manager W9TLE



Here's Our New Catalog! and with the exception of Delco Radio and Webster-Chicago P.A. equipment, all prices shown are NET. We believe you will agree with us, that the purpose of our book is to tell you what we have to sell and how much it costs. We DO NOT want you to drive business away by charging too much for your work or the merchandise you sell. A man is entitled to a FAIR PROFIT and "the laborer is worthy of his hire," but do not think for a minute that fictitious prices make for repeat business.

We realize that if you are successful it means business for us. We are therefore going to do everything in our power to see to it that you are a success. Our new mailing list will be bona fide and we invite your comments. If you care to see who gets our catalog in your town just drop in on us here in Minneapolis some time and we'll show you who is on our list.

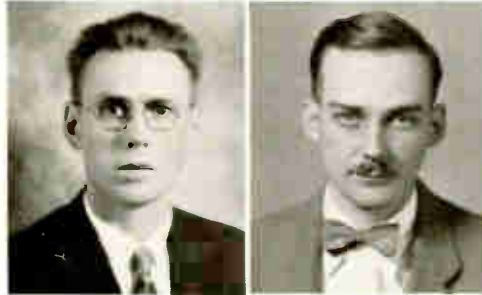
We do not believe you should show our catalog to your customer. Of course, in the past, when you showed him an article, the price shown was high and if by accident he saw it later, in a competitive catalog—what would that make you?

BE FAIR—Charge normal prices for your work, and RECOMMENDED LIST PRICES for your parts and business will be better for you.

How do you like our book? Ward Jensen has been a serviceman for many years and we know he anticipates your problems and will work with you to see that you get a square deal.

We will be glad to have you incorporate a couple of lines on your first order, telling us about it.

FRED KENNEDY
Manager St. Paul Store



Our new St. Paul store is under the capable direction of Fred Kennedy whose experience and ability admirably enable him to serve you. If its too far over to Minneapolis, drop in on Fred, who will see that you get what you want at 506 Robert St., St. Paul.

Business is better in St. Paul this season. "Kadette's" are selling fine and the new "Starline" and Delco models sure leave nothing to the imagination. New tubes and advanced circuits are going to make the Serviceman hop. Better let us show you some of the new and latest test equipment when you come in.

Both conventions are going to be held in St. Paul this year and we intend to show you that St. Paul is definitely on the map. The plans at present are to hold the "Northwest Radio Serviceman's" and the "Mid American and Dakota Division" A. R. R. L. convention at the Lowry Hotel. Watch for announcement of the time and place in "QST" and the "National Technician." Don't fail to look us up as we'll be there "with bells on." Last minute word has it that the "Mid American" will be held on May 21-22-23, 1927. Let's Go!

TRAINED RADIO MEN TO SERVE YOU

BEN MILLER, W9DKL **JERRY JENSEN, Serviceman**
ART KASSET W9HOP **CHARLES ENGLEMAN, Serviceman**
O. G. SHERMAN, Serviceman

RALPH BOLAND, Public Address—Short Wave

**THE
LEW BONN CO.
DISTRIBUTES**



**INTERNATIONAL
KADETTE**

FRANCHISE DEALERS ON KADETTE

We are not showing the Kadette line in the catalog this year as we wish to keep it as an exclusive proposition for our dealers. This nationally advertised line includes models which range in price from a 3 tube AC-DC at \$10.00 to the most exquisite console at \$69.50, enabling us to set you up to meet the severest competition on the market.

Delco is also being held open to dealers and while they are shown on our pages we show only list prices. Write us for particulars.

INDEX

See Inside of Cover and Rear Insert
Before Ordering

"A" Batteries	13
Adapters (test)	86
Aerial Equipment	44, 45, 46, 47
Alignment Tools	85, 86, 87
Amateur Receivers	94, 95, 102, 103, 104
Amateur Transmitters	104
Amplifiers	1, 133, 134, 135, 136
Amplifier Cases	125, 128
Analizers	71 to 81
Antenna Equipment	44 to 47
Attenuators	27, 34
Audio Transformers	59 to 67
Auto Radio	8, 9
Aerials	12
Batteries	13
Eliminators	13, 15, 133
Generators	134
Remote Controls	10
Suppressors	11
Vibrators	68, 69, 70
Ballasts	14, 16, 17, 35, 38
Batteries	13
Chargers	12, 15
Testers	13, 33
Bias Cells	84
Binding Posts	40, 86
Blow Torches	87
Books	92, 93
Brackets	91
Buzzers	112
Cables—	
Analyzer	44, 45
Battery	45
Dial	38
Microphone	44, 45
Speaker	45
Call System	58
Capacity Indicators	23, 78
Carrying Cases	80, 126, 128
Cement	53, 84
Chargers	13, 15
Charger Bulbs	14, 15
Chassis and Racks	118
Chokes—	
Audio	59 to 67
R. F.	50, 95, 101, 105
Circle Cutters	87, 88, 90
Clips	39, 91, 96
Code Practice Sets	112
Coils—	
Field	55, 53
R. F.	50 to 55, 110
Transmitting	107, 109
Condensers—	
Electrolytic	15 to 25
Fixed Paper, etc.	12 to 25, 111
Transmitting	98, 99, 100, 102, 107
Trimmers	50, 51, 98, 101
Variable	51, 98, 99, 100, 102, 105
Vibrator	11
Cones	55, 56, 57
Connectors	41, 86
Crystals	106
Dials	10, 37, 98, 105
Dial Cables	38
Dial Lights	38
Dial Plates	37, 105
Drills	90
Dynamic Speakers	127 to 129, 134
Electric Equipment	42, 43
Electric Eye	49
Eliminators	13, 15, 134
Extension Cords	42, 43
Farm Power	134
Farm Radio	1 to 9
Batteries	13

Converters	16, 135
Inverters	15, 135
Receivers	1 to 9
Field Coils	55, 53
Field Exciters	129, 130
Filters, Interference	11, 22
Five Meters	116
Friction Tape	39
Fuses	38, 42, 84
Fuse Mountings	38, 84
Generators	135
Generators	135
Grid Caps	90, 95
Grid Leaks	51 to 53, 56
Grill Cloth	59
Grommets	35, 91
Ground Clamps	45
Hammilund	59 to 103
Hardware	80 to 92
Heat Phones	119
Hydrometer	13
I. F. Transformers	51, 52, 53
Insulators	45, 47, 94, 108
Inter-Office Communicator	58
Interference Filters	11, 22
Jacks and Plugs	40, 41, 86, 108
Jahson Products	107, 108
Keys, Transmitting	112
Kit—	
Amplifier	66
Coil	50, 51, 100
Receiver	104
Transmitting	105
Knobs	28, 105
Lacquer	58
Lead-In Strips	45
Light Cord	44
Lightning Arrestors	45
Line Ballasts	35
Lugs	91
Magnet Wire	44
Magnetic Speakers	126, 130
Manuals	92, 94
Meters	52, 53
Microphones	122 to 126
Microphone Stands	126
Mike Cable	45
Mike Connectors	41
Mike Stand Adapters	51, 126
Name Plates	117
National Products	94 to 99
Neon Lamps	105
Neutralizing Tools	85
Noise Eliminators	11, 22
Ohmite Products	36, 109
Oscillators—	
Phono Oscillators	121
Test Oscillators	71 to 82
Oscilloscopes	71 to 82
Panels	106, 118
Phones	119
Phone Cords	119
Phone Plugs	41
Phono Equipment	120, 121
Automatic	121
Discs	120
Motors	121
Needles	121
Oscillator	121
Pick Up	120
Records	120
Turntables	121, 133
Photo Electric Cells, etc.	49
Pilot Lights	38
Pilot Light Sockets	84
Pliers	89
Plug-In Coils	100, 109, 110

Plugs—	
A. C.	42, 43
Analyzer	85, 95
Mike	41
Phone	121
Potentiometers	26 to 30, 34, 38
Power Amplifiers	86, 131, 132, 133, 134
Power Supplies	95
Public Address	131, 132, 133, 134
Punches	88, 90
Racks and Panels	118
Radio Chassis	1 to 10, 118
Radio Sets	1 to 10
Records	121
Record Changer	121
Record Player	121
Recording Equipment	121
Relays	115
Remote Controls	10
Resistors—	
Carbon	32, 55
Precision	53, 84
Wire Wound	31 to 33
R. F. Chokes	50, 91, 101, 105
Rheostats	26 to 30, 54, 89
Rotary Converters	135
Screw Drivers	89
Selector Switches	36, 40
Signal Generator	71 to 81
Sockets	40, 95, 86, 101
Solder	38
Soldering Irons	87
Sound Equipment	126, 134, 135, 136
Spaghetti	91
Speakers	127, 128, 129, 130, 131, 135
Speaker Accessories	127 to 130
Speaker Cones	55, 56, 57
Speaker Fields	55, 56
Stand-Off Insulators	59
Storage Batteries	13
Suppressors	11
Switches—	
Knife	36, 39, 43, 45
Relay	117
Rotary	36, 39, 43, 45
Toggles	36, 39, 43, 45
Tape	39
Telephones	119
Terminal Strips	91
Test Adapters	84
Test Equipment	71 to 81
Test Leads	36
Tools	86 to 91
Transformers	59 to 67
Audio	59 to 67
Exact Duplicates	67
Power	59 to 67
R. F. Coils	50 to 55, 110
Tubes—	
Photo	49
Receiving	14 to 18
Transmitting	113, 114, 115
Tubing	109
Tungar Bulbs	14, 15
Variable Condensers—	
Receiving	51, 98, 99, 100, 102, 104
Transmitting	97, 99, 100, 102, 107
Trimmer	50, 51, 98, 101
Vibrators	68, 69, 70
Voltage Dividers	31 to 34
Voltage Regulators	14, 16, 35, 38
Voltmeters	82, 85
Volume Controls	26 to 30, 33, 36
Wire	44, 45
Wrenches	86 to 88
Wright Decoster	127, 128, 129
Yankee	26, 28, 48, 68, 69, 70

Fast Delivery Service in Twin Cities
Phone Your Order to Main 5313

We use a commercial delivery service that gives very prompt and efficient service. We can get merchandise to any part of Minneapolis or St. Paul within two to three hours. If you can't come over—call and have your order delivered.

Webb Publishing Co., St. Paul, Minn.

Time Payment Plans

Supreme Instruments

NOTE: An application, properly filled out, must accompany your order. We will gladly supply this form at your request.

CASH PRICE

Model 500 Automatic (De Luxe Series)
 Net Cash C.O.D. **\$66.95**
 Model 505 Tube Tester (De Luxe Series)
 Net Cash C.O.D. **\$47.95**
 Model 540 Radio Tester (De Luxe Series)
 Net Cash C.O.D. **\$36.95**
 Model 550 Radio Tester (De Luxe Series)
 Net Cash C.O.D. **\$55.95**
 Model 585 Diagonometer (De Luxe Series)
 Net Cash C.O.D. **\$96.95**
 Model 570 Signal Generator (De Luxe Series)
 Net Cash C.O.D. **\$31.95**
 Model 580 Signal Generator (De Luxe Series)
 Net Cash C.O.D. **\$54.95**
 Model 545 Cathoray Oscilloscope
 Net Cash C.O.D. **\$92.95**
 Model 555 Diagonoscope
 Net Cash C.O.D. **\$147.95**
 Model 400 Tube Tester (Standard Series)
 Net Cash C.O.D. **\$38.95**
 Model 490 Multi-Meter (Standard Series)
 Net Cash C.O.D. **\$22.95**
 Model 450 Set Tester (Standard Series)
 Net Cash C.O.D. **\$34.95**

S. I. C. EASY TERMS

Model 500 Automatic (De Luxe Series)
\$7.50 Deposit—**\$6.61** Monthly (ten months)
 Model 505 Tube Tester (De Luxe Series)
\$5.25 Deposit—**\$4.75** Monthly (ten months)
 Model 540 Radio Tester (De Luxe Series)
\$4.00 Deposit—**\$3.66** Monthly (ten months)
 Model 550 Radio Tester (De Luxe Series)
\$6.00 Deposit—**\$5.55** Monthly (ten months)
 Model 585 Diagonometer (De Luxe Series)
\$10.00 Deposit—**\$8.00** Monthly (twelve months)
 Model 570 Signal Generator (De Luxe Series)
\$4.00 Deposit—**\$3.90** Monthly (eight months)
 Model 580 Signal Generator (De Luxe Series)
\$6.00 Deposit—**\$5.44** Monthly (ten months)
 Model 545 Cathoray Oscilloscope
\$10.00 Deposit—**\$7.68** Monthly (twelve months)
 Model 555 Diagonoscope
\$15.00 Deposit—**\$12.05** Monthly (twelve months)
 Model 400 Tube Tester (Standard Series)
\$4.50 Deposit—**\$3.83** Monthly (ten months)
 Model 490 Multi-Meter (Standard Series)
\$4.00 Deposit—**\$4.25** Monthly (five months)
 Model 450 Set Tester (Standard Series)
\$4.00 Deposit—**\$3.82** Monthly (nine months)

Be sure and enclose down payment when ordering.

All prices F.O.B. Greenwood, Miss.

The Lew Bonn Co. Time Payment Offer

The Lew Bonn Co. Time Payment Offer is open on any merchandise we carry. Contracts of less than \$75.00 will be financed for as long as 6 months and contracts of between \$75.00 and \$150.00 may be carried as long as 10 months while contracts over \$150.00 may be extended to 12 months if necessary. Interest at the rate of 8% is charged if the balance owed is \$150.00 or over. Smaller contracts are charged for at the rate of \$1.00 per month for the term of the contract and the down payment can be anything you care to give us, preferably 20% or better.

Carried for 10 months will be **\$9.00** per month.
 Or:—Balance Due.....**\$150.00**
 Interest for 10 months at 8%.... **10.00**
\$160.00

In 10 monthly installments is **\$16.00** per month.
 Or in 6 monthly installments is **\$26.00** per month.

To illustrate:

De Luxe Model Tester.....**\$99.50**
 Down Payment..... **19.50**
 Balance **\$80.00**

To obtain credit on this plan, write us for an application form to fill out and return to us along with your order and down payment. We will send you a contract form to be signed after your references have been approved and immediately upon the return of this contract, properly signed, we will ship your order.

Clough Brengle Plan

Time payment prices on Clough Brengle equipment are shown below, and it will be necessary to write for a credit reference blank which must be filled out and returned to us, together with your down payment. (This will be refunded if credit is not approved.) A contract form will then be sent you to be signed and returned to us. Upon approval of this contract by Clough Brengle the unit you ordered will be shipped you.

Model	Price	Down Payment	Mos.	Payments
OC-A	29.95	4.50	7	4.20
99	43.90	5.00	10	4.44
OM-A	57.75	6.50	10	5.85
81-A	34.25	4.00	10	3.46
CRA	94.50	9.50	10	8.36
79-A	53.75	6.00	10	5.45
95	47.75	5.50	10	4.83

Hallcrafter Plan

All models of Hallcrafter receivers are available on time payments as outlined below. To avail yourself of this plan, write us for a credit application blank and return it to us properly filled out, along with your down payment and your order for a Hallcrafter receiver. You will then be sent a conditional sales contract to be signed and returned to us. As soon as this has been approved, your receiver will be shipped. Time payment prices are as follows:

Model	Down Payment	Mos.	Payments
Sky Buddy	\$ 7.00	6	\$ 4.50
S-10—less speaker	22.70	10	9.18
S-10—with speaker	25.50	10	10.30
SX10—less speaker	24.90	10	10.08
SX10—with speaker	27.70	10	11.80
S-11—less speaker	20.20	10	8.28
S-11—with speaker	23.00	10	9.40
SX11—less speaker	22.70	10	9.18
SX11—with speaker	25.50	10	10.30
S-12—less speaker	22.70	10	9.18
S-12—with speaker	25.50	10	10.30
SX12—less speaker	24.90	10	10.08
SX12—with speaker	27.70	10	11.80
Sky Chief—with speaker	10.00	6	6.00

**10
WATT**

**SETCHEL-CARLSON
SOUND SYSTEMS**

**15
WATT**

\$41.70 PORTABLE 15-WATT AMPLIFIER
COMPLETE WITH TUBES AND TWIN SPEAKERS

**MODEL
PA15**



MODEL PA15—15-WATT A.C. PORTABLE

Model P. A. No. 15 is a fifteen watt twin speaker amplifier, as shown above. It is modernly engineered to use the new crystal or velocity type microphone, which insures true reproduction of sound.

Temporary Installations—Makes a perfect portable sound system due to its compactness and individuality. The two speakers, when fastened together, make an ideal dust-proof carrying case. The amplifier unit is also dust-proof when front slide cover is in place.

Permanent Installations — Two separate 10-inch speakers are used for adequate coverage of large areas. The amplifier, which is a separate unit, can be placed in the most convenient location for controlling and operating.

General Features—

- Two separate, individually controlled microphone input circuits.
- Phonograph or radio input circuit for mixing voice with musical background.
- 35-foot cord with each speaker,
- Full range tone control.
- High gain for crystal or velocity microphone.
- Tubes used: 3 No. 6F5, 1 No. 42, 2 No. 2A3, and 1 No. 5Z8.

Model PA15.

List, \$69.50.

Net Price (with Twin Speakers).....

\$41.70

**MODEL PA6—14-WATT 6-VOLT PORTABLE
OR PERMANENT**

Model P. A. 6—Is an 8-tube, 14-watt amplifier designed to operate most efficiently on a 6-volt battery. The low drain of 10 amperes is accomplished by using new tubes and design.

For Permanent Installations—On sound trucks, etc., the use of the bell type speaker, as shown above, is recommended.

For Portable Use—Two 10-inch speakers in leatherette cases are used. See picture on reverse side of this page.

The P. A. 6 is furnished with one Bell Type speaker or two speakers in leatherette carrying case—your choice of either equipment at the same price.

General Features—

- Crystal, velocity or ribbon type microphones can be used, and are recommended.
- Full range tone control.
- Radio and phonograph input circuits.
- Twin power supply, employing two vibrators, two transformers, two rectifiers, assuring efficient and dependable operation.
- Tubes used: 2 No. 6F5's, 2 No. 37's, 2 No. 6A6's, and 2 No. 6X5's.

Model PA6.

List Price, \$79.50.

Net Price **\$47.70**
(With twin speakers or one speaker in directional baffle shown below. Specify which.)

**MODEL PA10—10-WATT A.C. PORTABLE WITH
SINGLE SPEAKER**

This portable ten watt amplifier with one 10-inch speaker has sufficient gain for a crystal or ribbon mike and offers an excellent value for small orchestra or carnival speaker. Housed in one carrying case as illustrated at left below. If equipped with a newly developed magnetic pick up, it is an excellent unit for use with the stringed instruments in an orchestra. This pick up with volume control and cord may be supplied at a net price of \$6.00. (List price \$10.00.)

Model PA10

List Price \$49.50.

Dealer Cost **\$29.95**

**MICROPHONES AND STANDS EXTRA—
SEE P.A.
PAGES**



Left:

Carrying Case as used in PA10 10-watt amplifier with one speaker only.

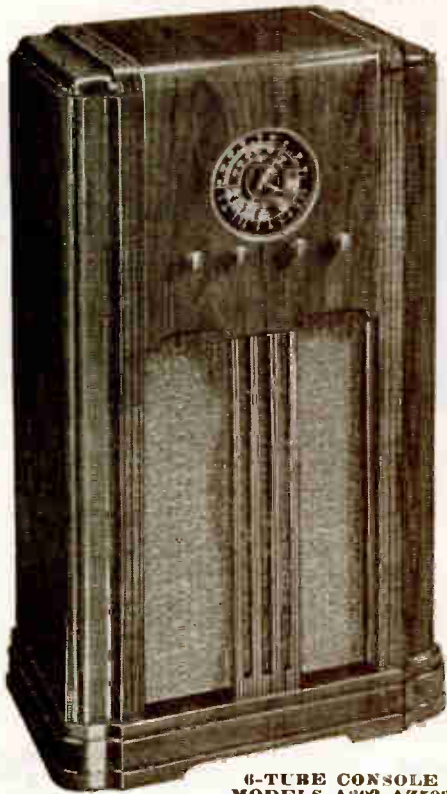
Right:

Baffle horn and speaker as used in PA6 as optional with twin speakers shown above.



DEDUCT 2% FOR CASH WITH ORDER

1937-AC AND FARM RADIOS-STAR-LINE



**6-TUBE CONSOLE
MODELS A393-AZ593**



SIX-TUBE STREAMLINE CONSOLE AND MANTEL MODELS

**R. C. A. Licensed
Complete With Tubes
18 to 550 Meters in
3 Bands**



**6-TUBE MANTEL MODELS
Z347-Z547**

3 continuous wave bands—18 to 550 meters. 6 1/4-in. three-color airplane dial. Zone station tuning. 15 to 1 ratio vernier dial. 11 tuned circuits. Variable tone control. 3-gang condenser. Automatic volume control. 10 kc. selectivity. Full size electro dynamic speaker. Beautiful harmonizing cabinets in modernistic streamline contours.

HERE ARE AMERICA'S FINEST RADIOS—MAGIC EYE—

SIX-TUBE A.C. CONSOLE

An impressive graceful streamline console of the very latest design as illustrated above. The recessed speaker grill with its oversized 8-inch dynamic speaker adds much to the richness and fullness of its tone. Beautiful natural grained American walnut instrument panel with rolled top. Overlay of walnut over solid red gum pillasters and hand rubbed finish. Height 39 1/2 ins., width 22 ins., depth 12 ins.

List price, \$64.50.
Model No. A393.
Net price

\$31.65

SIX-TUBE BATTERY CONSOLE

Housed in the same beautiful console described above but equipped with oversize dynamic speaker. Operates entirely from a six-volt storage battery and drains only 1.3 ampere. This is a truly economical console receiver and permits the rural user to enjoy the full rounded out tone of A.C. operated receivers.

List price, \$77.50.
Model No. AZ593.
Your net cost

\$37.25

SIX-TUBE BATTERY MANTEL

Carrying out all the cabinet features of the A.C. mantel set plus the powerful battery operated chassis used in the 6-volt console, this set enables the user who lacks the facilities of lighting service to enjoy the fullest benefit of modern all-wave reception.

List price, \$54.50.
Model No. Z547.
Your net cost

\$26.95

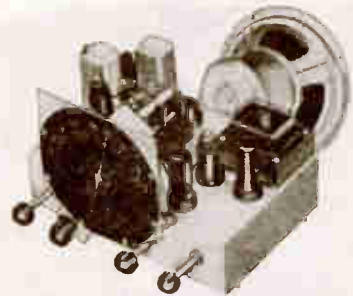
SIX-TUBE A.C. MANTEL

A DeLuxe six-tube A.C. table model superheterodyne using same chassis as the six-tube console described on the left. The beauty and harmony of the console are carried out in this truly attractive mantel set. Comes complete with latest type metal tubes and equipped with 8-in. dynamic reproducer. Size 15 1/2 x 13 1/4 x 9 1/2 ins.

List price, \$47.50.
Model No. Z347.
Your net cost

\$23.75

A.C. RADIO CHASSIS



With 8-Inch Speaker

To bring a customer's receiver up-to-date and avail him of modern all-wave reception, equip him with this 6-tube all-wave chassis and speaker. 8 ins. high, 11 1/4 ins. wide and 8 ins. deep. 60 cycle A.C. only.

List price, \$42.50.
Model No. AZ3.
Your price with tubes

\$21.45

CUSTOM BUILT-WORLD RECEPTION



7-TUBE BATTERY MANTEL MODEL M551

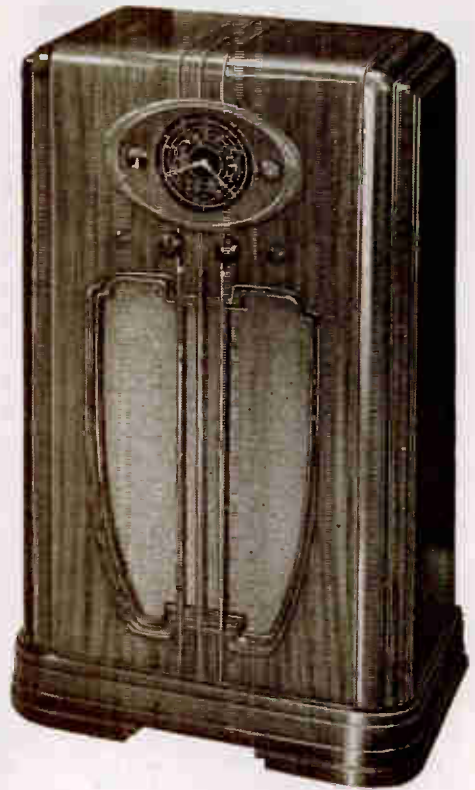


STAR-LINE

Superlative Reception
★ MODERN RADIO RECEIVERS ★

**ELEVEN TUBE
STREAMLINE
CONSOLE**

**Metal Tubes
Magic Eye
Spin-A-Dial Tuning
All Wave Reception
Oversized 12-Inch
Dynamic Speaker
Spin-A-Dial
(Both Models)**



11-TUBE A.C. OR BATTERY CONSOLE MODELS AM786-M557

BATTERY MISER 7-TUBE MANTEL MODEL

Conservative in design, this mantel 6-volt set is enhanced by a highly figured butt walnut front panel and pilasters of molded red gum. Hand rubbed piano finish. Tunes in four bands, from 16.4 to 2,000 meters. Uses powerful 8-in. permanent dynamic reproducer drawing no field current. Complete drain on a six-volt storage battery is only 1.7 ampere. Uses full floating, three-gang condenser and fly-wheel "Spin-A-Dial." Automatic volume control and full rounded tone make this set especially attractive to the farm listener.

List price, \$74.50.

Model No. M551.

Your net cost

\$36.95

METAL TUBES—STREAMLINE CABINETS—HI-GAIN CIRCUITS

THE "STAR-LINE" SPIN-A-DIAL STATION SELECTOR



A spinning fly-wheel continues to rotate the pointers after you let go of the knob! Clock dial logging makes it possible to come back to a station with ease and precision. The 11-in. oval dial finished in gold letters on black background, plus the beautiful hammered bronze escutcheon, set these receivers in a class by themselves as years in advance of all others.

11-TUBE A.C. CONSOLE

This modern ELEVEN-tube receiver with its full 12-in. dynamic reproducer behind the front panel of one of 1937's most attractive streamlined consoles, offers you an artistic full-toned receiver that will bring into the room all the realistic qualities of studio productions plus the ability to tune the four corners of the world. Truly Superlative Reception! Cabinet front panel of beautiful curving butt walnut, contrasting pilasters. Four wave bands, 16.5 to 2,000 meters, covering "Weather," "American," "Police," and "Foreign." Has variable tone control and full automatic signal strength compensation.

List price, \$80.50.

Model No. AM786.

Your net cost

\$46.45

11-TUBE ALL-WAVE CHASSIS WITH 12-IN. SPEAKER
As used in above streamlined console.

Model AM7.

List, \$79.50.

Net

\$35.95

7-TUBE BATTERY CONSOLE

The seven-tube "Battery Miser" housed in this beautiful modernistic console described above gives you all the enjoyment of modern all-electric reception and tone plus the added economy of only 1.7 amp. drain from a single six-volt storage battery. Truly all-wave reception with powerful and faithful reproduction.

List price, \$80.50.

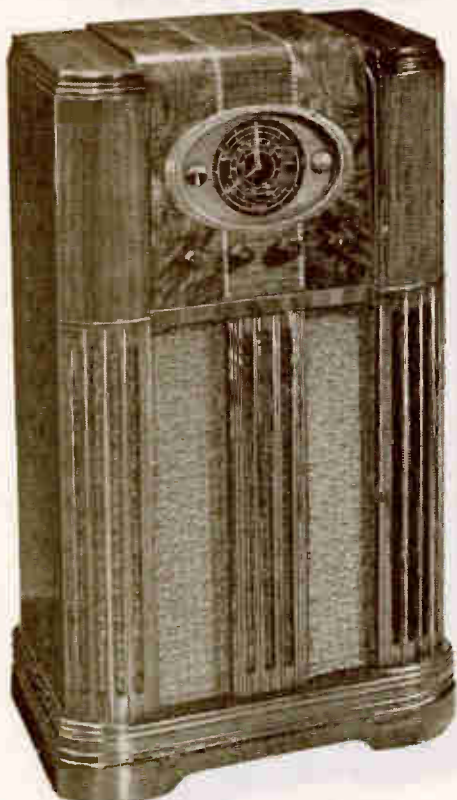
Model No. M557.

Your net cost

\$46.45

DEDUCT 2% FOR CASH WITH ORDER

1937 STAR-LINE RADIOS--METAL



12-Tube A.C.
Console.

Model
AM458.

12 TUBE STARLINE CONSOLE

- COMPLETE SHORT-WAVE COVERAGE.
- Four bands: 16.4 to 2,000 meters.
- Absolute sensitivity of 2 microvolts.
- Full floating 3-gang variable condenser.
- Automatic tone control, automatic volume control.
- RCA Hazeltine licensed, underwriters' approved.
- 12 metal tubes, new 6L6 beam power output.
- "Litz" wound coils in R.F. circuits.
- GIANT 12-inch reproducer.
- "Electric Eye" and "Spin-a-Dial" tuning.

This powerful 12-tube chassis with its heavy-duty, high-fidelity reproducer is housed in an exquisitely-designed cabinet of burl walnut with slightly slanting instrument panel and roll top. Its hand-rubbed finish and fluted pillars with rich gold grill cloth bring out all the beauty of the genuine walnut used in panelling. Perfected acoustic qualities and ample baffle produce tone quality unexcelled in a receiver of anywhere near this attractive price.

Model AM458.
List Price, \$125.00.
Dealer Cost

\$57.65

CHASSIS AND SPEAKER ONLY

This superior receiver with its 12-in. auditorium dynamic speaker is available for installation in existing cabinets.

Model No. AM4.
List Price, \$90.00.
Net Price

\$41.95

5 TUBE—LAY DOWN MODELS—6 TUBE



5-TUBE MODEL

Positively the most sensitive and selective five-tube receiver offered for 1937. Giant dial mechanism having 15 to 1 ratio. Uses dual-purpose tubes and is tuned with a three-gang condenser. Newest tubes.

- Tuning range (3 bands) 18.5 to 550 meters.
- Full automatic volume control.
- 6½-in. dynamic speaker, tone control.
- 11 tuned circuits, 10 KC selectivity.

Attractive rolled top "lay-down" cabinet with figured American walnut with darker contrasting sides and hand-rubbed finish. Together with its "Zone" tuning dial in colors this is truly a pleasing receiver in appearance as well as performance.

Model A128.
List Price, \$39.50.
Dealer Cost

NEW CABINETS

GREATER BEAUTY

"LAY-DOWN" STYLE

Foreign Stations

Airplanes—Amateurs—Police



\$19.95

Model Z344.
List Price, \$49.50.
Net Price

\$24.65

3 BANDS ALL-WAVE RECEPTION

6-TUBE MODEL

A modern, "lay-down" table model in streamlined, rolled-top cabinet with gracefully moulded pillars of mold-d red gum and hand-rubbed finish. Full floating 3-gang condenser and newest type tubes.

- 3 continuous bands, 18 to 550 meters.
- 6¼-in. illuminated airplane dial.
- Automatic volume control, tone control.
- Heavy-duty dynamic speaker. Licensed.

World-wide reception is assured with this powerful 6-tube receiver of modern design. Eleven tuned circuits with preselector stage and high-gain, multi-purpose tubes. "Litz" wound coils and "Higain" superheterodyne circuit.

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

TUBES--ELECTRC EYE--ALL WAVE

19 TUBE STARLINE DELUXE

- Four complete wave length ranges.
- "Weather," "American," "Foreign," "Police."
- Two masterful auditorium dynamic speakers.
- Automatic bass compensation. Stadium volume.
- Automatic tone and volume control.
- Double chassis construction. Acoustic cabinet.
- 11-in. oval dial with fly wheel tuning.
- 16 Litz wound tuned amplifier circuits.
- Floating variable condenser, mounted on live rubber.
- Beautiful console cabinet of figured butt walnut.

This is truly 1937's greatest gesture toward the development of the radio art. Absolute fidelity of tone behind amazing volume. To close your eyes and listen to entertainment from the far corners of the globe as though it were in the room is a thrill long to be remembered. This beautiful cabinet of sliced and butt walnut with its contrasting pillars of harmoniously matched red gum pay tribute to the craftsmen's art and grace the most deluxe appointments of the modern home.

Model AM859
List Price \$225.00
Dealers' Net cost

\$99.50



19 Tube "All Wave" Console

Model AM859

19 TUBE CHASSIS WITH SPEAKERS

This powerful 19 tube, 30 watt, chassis with its two perfectly matched 12-inch stadium speakers, offered separately for a still more attractive price.

Model AM8
List Price \$180.00
Net Price

\$75.00

ECONOMICAL--AC--BATTERY--AC-DC SETS

FOUR TUBE FARM RADIO

Short Wave and American Broadcast

For those who desire the utmost in performance from a small receiver, this 4-tube 6-volt receiver with its 8-tube performance offers the answer. All power is derived from a 6-volt battery and the amount consumed is only 12 amp! The attractive cabinet illustrated below is of genuine American walnut with contrasting red gum sides and trim. Hand rubbed to a lustrous piano finish.

FOREIGN—AMERICAN BANDS.

Model No. B327.
List Price \$34.95
Dealer Cost

\$19.95

Five Tube AC

Two Band

A superior low-price receiver built to enable you to meet competition. Coverage on short wave is from 43 to 150 meters which offers as great a range as many 3-band receivers. Automatic volume control deluxe band-spread dial, attractive cabinet and other features make this receiver an outstanding value and defies all comers to top it.

Model No. B127
List Price \$27.50
Dealer Cost

\$13.95



The cabinet used in the above 3 models is of beautifully grained walnut with a pleasing contrast in selected red gumwood. Top and front are one piece and artistically rolled. All three models cover from 43 to 150 and 175 to 550 meters and are R.C.A. Hazeltine licensed.

DEDUCT 2% FOR CASH WITH ORDER



Six Tubes

AC or DC

This six-tube AC-DC Starline receiver is so smartly designed and engineered that many seven tube straight AC receivers cannot equal it in value. Tunes from 43 to 150 meters, covering the police, aircraft, amateur, American and Canadian broadcast as well as the regular 175 to 550 meter bands. Has automatic volume control, condenser set in rubber, six-inch dynamic speaker and newest multi-purpose tubes.

Model No. B227
List Price \$32.50
Dealer Net

\$15.45

DELCO AC - Style - CONSOLES

Performance

Easy Tuning—Natural Tone—Robot Eye



MODEL R1118

Distinct and positive band indications on large multi-colored edge lighted dials. A Delco can be tuned with perfect ease and assurance.



MODEL R1117

The Delco Robot Eye enables positive tuning. The set is properly tuned when the ray in the Robot Eye becomes narrow.



MODEL R1119

CONSOLE MODEL R1118

TEN TUBES—3 Bands—American Broadcast, Foreign, Police-Amateur.

CABINET—41 ins. high, 25 1/4 ins. wide, 12 1/2 ins. deep. Continuous instrument and top panel with matched walnut. Striped walnut pilasters.

FEATURES—Dual tuning ratio. Continuously variable tone control. Automatic base compensation. 7-in., 340°, edge lighted dial. Dual band indicator to conform with color of selected band. Robot Eye incorporated in dial. Clock tuning.

List price **\$99.95**

CONSOLE MODEL R1117

SEVEN TUBES—3 Bands—American Broadcast, Foreign, Police-Amateur.

CABINET—39 1/2 ins. high, 24 ins. wide, 11 1/4 ins. deep. Continuous instrument and top panel of matched walnut. Two-tone fluted pilasters.

FEATURES—Continuously variable tone selector. Automatic volume control. Three gang tuning condenser. Automatic antenna selector. 6-in. edge lighted illuminated multi-colored dial. Robot Eye.

List price **\$69.50**

CONSOLE MODEL R1119

TWELVE TUBES—4 Bands—American, Foreign, Police-Amateur and Weather Bands.

CABINET—42 ins. high, 26 1/4 ins. wide, 13 1/2 ins. deep. Continuous instrument and top panel of matched select quartered stripe walnut. Pilasters molded with highly figured claro and burl walnut. Ends of sliced walnut.

FEATURES—Dual tuning ratio. Five-point tone selector. Controllable bass compensation adjusted by tone control. Dual channel automatic volume control. Two-point selectivity control. 6L6 push-pull beam audio amplifier. 7-in., 340°, edge lighted dial. Dual band indicator to conform with color of selected band. Robot Eye. Clock tuning.

List price **\$144.50**

AMAZING NEW DELCO LAY-DOWN MODELS



MODEL R1115

TABLE MODEL R1115

FIVE TUBES—2 Bands—American Broadcast and both Police Bands.

CABINET—8 1/2 ins. high, 16 1/2 ins. long, 7 1/2 ins. deep. Front and end panel form one continuous piece. Horizontal straight grain walnut. Gold stripe inlaid around base. Overlapping, top darker tone.

FEATURES—Tone control, 4 1/2-in. multi-colored translucent, easy-reading dial.

List price **\$25.00**

THE GLOBE TROTTER R1120

Modernistic beauty embodied in curving one-piece cabinet. Exquisite tone from its full size electro dynamic speaker. Destined to be a best seller.

SIX TUBES—3 Bands—American, Police-Amateur and Foreign.

CABINET—11 ins. high, 17 ins. wide, 8 1/2 ins. deep. Continuous top panel of matched walnut. Beautiful modern fluted base.

FEATURES—6-in. multi-colored easy-reading oval dial. List price **\$39.95**

MODEL R1120



MODEL R1116

TABLE MODEL R1116

SIX TUBES—3 Bands—American Broadcast, Foreign and Police-Amateur.

CABINET—12 1/2 ins. high, 21 1/2 ins. long, 9 1/4 ins. deep. Continuous instrument and top panel of matched quartered stripe walnut. Modernistic grille harmonizing with dial.

FEATURES—Continuously variable tone selector. Automatic volume control. Three gang tuning condenser. Automatic antenna selector. 6-in. edge lighted illuminated multi-colored dial. List price **\$49.50**

List price **\$49.50**

PRICES SHOWN ARE LIST. WRITE FOR QUOTATIONS

DELCO 32-V - Models for - DC 2 VOLT the - DC 6 VOLT Rural Home



**MODEL R3209
32-VOLT
CONSOLE**

Uses No
Vibrator

NINE TUBES—4 Bands—American, Foreign, Police, Amateur and Weather.
CABINET—39½ ins. high, 24 ins. wide, 11¾ ins. deep. Continuous instrument and top panel of matched walnut. Two-tone fluted pilasters.
FEATURES—Selectivity control. Variable sensitivity selector. Automatic volume control. No vibrator. 7-in. oval dial. 10-in. full dynamic speaker. Deluxe 9 tube chassis used in both models.

Console Model R3209— \$89.50
32-volt. Price.....
Table Model R3208— \$72.50
32-volt. Price.....



**TABLE MODEL R3205—
32-Volt**

SIX TUBES—2 Bands—American Broadcast, Police-Amateur and Aeroplane.
CABINET—16½ ins. high, 12 ins. wide, 9 ins. deep. Top plaque in American half-round walnut. Front instrument panel book-matched stump walnut. Mahogany overlay in pilasters and grille. Sides select maple.
FEATURES—Variable tone selector. Variable sensitivity selector. Automatic volume control. No vibrator. 3-in. oval dial. 6-in. full dynamic speaker. Price..... **\$49.50**

"Amazing Tone in New 1937 Delco." Says Rubinfoff!

One look at the 1937 Delco Home Radios and even the most sophisticated will become raptured with their beauty—and after listening to their magical lifelike tone, they will be convinced that no home will be complete without a Delco. Delco Radios are truly the 1937 leaders in style, tone and performance.

"I would be happy if all my listeners could hear my Stradivarius over a new Delco radio—for then I could know that they would be hearing my music exactly as it was produced."—Rubinfoff.

**TABLE MODEL R2050—
2-Volt Battery**
Batteries Not Included in Price



FIVE TUBES—3 Bands—American Broadcast and one Police Band.

CABINET—10¾ ins. high, 21-5/16 ins. wide, 12 ins. deep. Continuous front and ends of walnut. Top and bottom of darker tone. Ample space provided in cabinet for A and B batteries.

FEATURES—6-in. oval dial. Automatic volume control. 6-in. new permanent magnet dynamic speaker. Price..... **\$34.50**



OUTSTANDING 6-VOLT PERFORMANCE

New, Permanent Magnet Dynamic Speakers Used in Delco Battery Models Consume No Current.

The permanent magnet dynamic speaker is the latest engineering development. This brand new permanent magnet dynamic speaker, never before used, will give the owner of a battery set the ultimate in tone performance. This speaker gives tone quality comparable to the electrodynamic type and **consumes no current.** It is the biggest improvement in speakers since the invention of the dynamic speaker.

"What appeals to me most in these new Delco Radios is their surprising ability to carry **all** the overtones to the radio listener—those vague, fleeting 'will-o-wisp' intonations which make the actual hearing of a beautiful instrument so much more satisfying than reception over the ordinary radio."—Rubinfoff.

**CONSOLE MODEL R6012—
6-Volt Battery**

Storage Battery Furnishes Entire Power Requirements

SEVEN TUBES—3 Bands—American Broadcast, Foreign and Police-Amateur.
CABINET—39½ ins. high, 24 ins. wide, 11¾ ins. deep. Continuous instrument and top panel of matched walnut. Two-toned fluted pilasters.
FEATURES—The new rugged type 15 tube. 8-in. new permanent magnet dynamic speaker. Selectivity control. Automatic bass compensation. Automatic volume control. Continuously variable tone control. Price..... **\$86.50**

**TABLE MODEL R6011—
6-Volt Battery**

Storage Battery Furnishes Entire Power Requirements



SIX TUBES—3 Bands—American Broadcast, Foreign and Police-Amateur.

CABINET—11¾ ins. high, 19½ ins. wide, 8½ ins. deep. Continuous instrument and top panel of matched walnut. Beautiful modern fluted base.

FEATURES—New rugged type 15 tube, Class B audio output. Continuously variable tone control. 6-in. new permanent magnet dynamic speaker. Price..... **\$54.50**

PRICES SHOWN ARE LIST. WRITE FOR QUOTATIONS

CUSTOM BUILT CONTROLS

DELCO

AUTO RADIO ROBOT CONTROLLED

MODEL

635

\$69.95



This is the greatest radio development of 1936—the Delco Duo-Sonic Model 635. Two speakers provide complete range of tone, blending the bass and high notes and producing a tone fidelity heretofore unobtainable in auto radio. The header speaker reproduces the high notes, while the dash speaker reproduces the low notes. Choice of three-header speakers is available with Model 635—a speaker for General Motors cars, one for Ford cars and a universal speaker for many others. New suede finish, 6 tubes.

Price\$69.95

These are just a few of the features of the 1936 Delco Auto Radios—and they are moderately priced—5 models from which to choose.

Talk about your auto radio reception—see and hear the new 1936 Delco Auto Radios. Improved robot-controlled synchro-tuning brings in a greater number of stations more clearly. Newly-designed, custom-built speakers—a new development that gives unusual lifelike tone quality. Metal and glass tubes, new suede finish that matches upholstery, custom-built controls that match the instrument panels of your car. With the new 1936 Delco Auto Radio, no spark plug suppressors are needed.



FORD



GENERAL MOTORS

For Installation in	Use Control No.	With Adapter Package No.
Buick '36	4031	.....
Chevrolet '36	4033	.....
Hudson '36	4033	4044
Terraplane '36	4033	4044
Dodge '36	4062	4046
Plymouth '36	4062	.....
Oldsmobile '36	4032	.....
Pontiac '35-'36	.....	.....
Chevrolet '35	.....	.....
Graham '36	4034	4059
Oldsmobile '35	4034	4058
Ford '35-'36	.....	.....
Lincoln Zephyr '36	4019	4024
Chrysler '34, 6-cyl.	.....	.....
Dodge '34	.....	.....
Graham '35 DeLuxe	.....	.....
Hupmobile '34-'35-'36 (Some Models)	4019	4055
Nash '36 DeLuxe 400	.....	.....
Plymouth '34 DeLuxe '35	.....	.....
Reo '35-'36	.....	.....
Studebaker '36, 8-cyl.	.....	.....
Ford '34 DeLuxe	.....	.....
Hudson '35	.....	.....
Hupmobile '34-'35-'36 (Some Models)	4019	4056
Lafayette '36	.....	.....
Studebaker '36, 6-cyl.	.....	.....
Terraplane '36	.....	.....
Chrysler '35 Allstream	.....	.....
De Soto '35 Allstream	4019	4027
Dodge '35	.....	.....
Nash '36 Standard "400"	.....	.....
All cars and models for under-dash mounting.	4019	.....
All cars and models for steering post mounting.	4019	4020



An outstanding value in a two-unit, 6-tube auto radio. Delco Auto Radio Model 634 is a real de luxe auto radio having greater selectivity and sensitivity and a newly-designed dash speaker with improved tone fidelity. A new suede finish harmonizes with the upholstery of your car—a finish that is easily cleaned.

Model 634. **\$59.95**
List Price

HEADER SPEAKER ADAPTERS

For All Cars.

Specify Year and Model.

Each, \$2.00

NOTE!

All Delco prices shown are List. We urge all car radio dealers interested in the line to write us for quotations.

MODEL 633

\$52.95



A newly-designed, 6-tube auto radio with a modernistic suede finish to harmonize with the interior of modern motor cars. One of three custom-built speakers shown here can be used with this radio—one for General Motors cars, one for Ford cars and universal speaker for many others. **Price \$52.95**



1936 Ford Lincoln-Zephyr



1936 Hudson Terraplane



1936 Dodge



1936 Plymouth

DELCO AUTO RADIO STAR-LINE

6-TUBE STAR-LINE AUTO RADIO



One of the easiest auto radios to install that is built! Fits all cars and mounts with a single bolt. Dimensions: 7½x7x8¼ in., leaving plenty of room for heater, etc. Tailor-made controls fit all cars. Only one antenna connection, only one battery connection. No spark plug suppressors necessary. 10 KC selectivity. Variable tone control. Housed in sturdy, wrinkle-finished metal case. Patented antenna circuit allows sensitivity of ½ microvolt. Fully RCA and Hazeltine licensed. Uses 3-gang, rubber-floated condenser with noise-reducing preselector stage guaranteeing reception unexcelled by much higher priced receivers. Plug-in provision is made so an extra speaker for over head or back of front seat may be added.

Model UGB—List Price, \$49.95.
Dealer Cost



\$24.75

ACCESSORIES

UNIVERSAL KIT TYPE A

For installation where under-dash or steering-column control is necessary. Price

\$0.95

DASH CONTROL KIT TYPE B

For instrument-panel control. Specify make, model, and year of car. Price

\$0.95

TWIN SPEAKER

Mate to the one in the radio and arranged to plug in to receptacle provided. Specify whether for above windshield or against roof or seat. List price, \$6.50. Net Price

\$3.45

Prices Shown Are Net. Deduct 2% for Cash with Order

SETCHEL-CARLSON PORTABLE



Model 44—List Price, \$24.95.

\$19.95

Dealer Cost

OPERATES ON 6 VOLTS D.C. AND 110 VOLTS A.C.

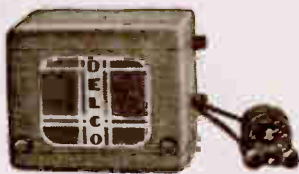
This outstanding, long-awaited, portable radio is truly a remarkable discovery. Its low current consumption and modern, compact design makes it an ideal all-purpose radio. Five tubes are employed in a superheterodyne circuit. Perfect coast-to-coast reception. No fading. Tubes: 1-6A7, 1-78, 1-75, 1-41, 1-37.

OTHER DELCO MODELS AND CONTROLS

Only a demonstration will reveal and prove the marvelous qualities of the 1936 Delco Auto Radios, and also prove to you that they are the leaders for 1936—the most modern of car radios. Any one of these new Delco models will give you real radio enjoyment—see and hear them before you buy.

Note: Delco prices shown are list. We urge our dealers to write us for quotations.

DELCO ONE-PIECE MODELS



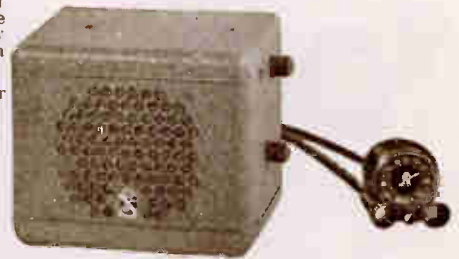
Model 632.

This popular-priced single-unit, 6-tube set has a specially-designed circuit giving outstanding performance. Beautifully designed monogrammed grille, new suede finish, improved robot-controlled synero-tuning are just a few of the many features of this Delco Auto Radio Model 632.

Model 632.

\$49.95

Price



Model 631-A.

Your favorite program at your command—have radio enjoyment wherever you drive with a Delco Auto Radio Model 631-A. Excellent performance and fine reception with either roof or running-board antenna is what you get with this 6-tube superheterodyne single unit Delco Auto Radio. Finished in modernistic lacquer.

Model 631-A.

\$39.95

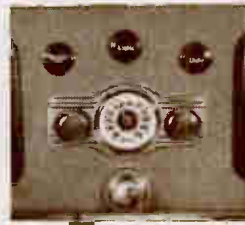
Price



1936 Oldsmobile



1936 Pontiac



1936 Chevrolet



1936 Buick

Delco Prices LIST. Write Us for Quotations

CAR RADIO DIALS — ACCESSORIES

SERIES 600

Special Panel Mounting

INSTRUMENT CONTROL

For all 1935 Oldsmobiles, Pontiacs and Chevrolet Masters, etc.



No. 250—Ratio 6 to 1 in 360 degrees.	Net.....	\$2.55
No. 251—Ratio 8 to 1 in 360 degrees.	Net.....	2.55
No. 252—Ratio 10 to 1 in 360 degrees.	Net.....	2.55
No. 253—Ratio 12 to 1 in 360 degrees.	Net.....	2.55
No. 254—Ratio 16 to 1 in 360 degrees.	Net.....	2.55

PANEL MOUNTING KITS

For Series 250 Head

Automobile	Kit No.	Net Price
Buick 40—1936.....	A-8639	\$0.90
Buick 60—1936.....	A-8639	.90
Buick 80—1936.....	A-8639	.90
Buick 90—1936.....	A-8639	.90
Cadillac V8, 60—1936.....	A-8649	1.20
Cadillac V8, 70—1936.....	A-8649	1.20
Cadillac V8, 75—1936.....	A-8649	1.20
Cadillac V12—1936.....	A-8649	1.20
Cadillac V16—1936.....	A-8649	1.20
Chevrolet Master—1935.....	A-8647	.81
Chevrolet Master—1936.....	A-8629	.81
Chevrolet Standard—1936.....	A-8629	.81
Chrysler Airlow Eight—1936.....	A-8648	1.20
Chrysler Airstream Six—1936.....	A-8892	1.20
Chrysler Airstream Eight—1936.....	A-8893	1.20
Chrysler Imperial—1936.....	A-8646	1.20
Dodge—1936.....	A-8641	.90
LaSalle—1936.....	A-8649	1.20
Oldsmobile Six—1935.....	A-8846	.90
Oldsmobile Eight—1935.....	A-8846	.90
Oldsmobile Six—1936.....	A-8519	.90
Oldsmobile Eight—1936.....	A-8519	.90
Plymouth DeLuxe—1936.....	A-8576	.81
Pontiac—1935.....	A-8894	.81
Pontiac DeLuxe Six—1936.....	A-8894	.81
Pontiac DeLuxe Eight—1936.....	A-8894	.81
Pontiac Master Six—1936.....	A-8894	.81

LATEST CROWE DIALS

UNIVERSAL CONTROL FOR ALL CARS



For instrument panel, under-dash or steering column mounting. Has convex crystal glass. Supplied 0 to 100 or 100 to 0. Comes complete with knobs, pilot lead, socket and bulb.

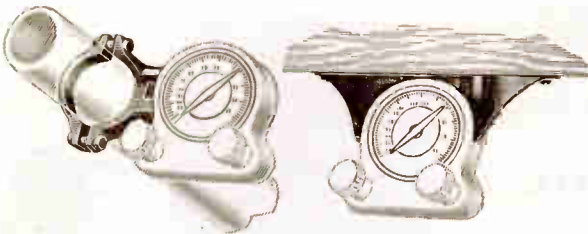
No. 600—Head only.	Ratio 6 to 1.	Net.....	\$2.10
No. 601—Head only.	Ratio 8 to 1.	Net.....	2.10
No. 602—Head only.	Ratio 10 to 1.	Net.....	2.10
No. 603—Head only.	Ratio 12 to 1.	Net.....	2.10
No. 604—Head only.	Ratio 16 to 1.	Net.....	2.10

INSTRUMENT PANEL MOUNTING KITS

For Crowe Universal Heads
Use Controls Nos. 600 to 603.
Knobs to match included.



Automobile	Kit No.	Net Price
Auburn 654—1936.....	A-8630	\$0.60
Auburn 852—1936.....	A-8630	.60
Auburn Super-charged 852—1936.....	A-8630	.60
Chrysler Airstream—1935.....	A-8840	.72
DeSoto Airstream—1935.....	A-8636	.72
DeSoto Custom Airstream—1936.....	A-8460	.81
DeSoto Airlow—1936.....	A-8460	.81
DeSoto DeLuxe Airstream—1936.....	A-8462	.72
Dodge—1935.....	A-8634	.72
Ford DeLuxe—1934.....	A-8638	.72
Ford DeLuxe—1935.....	A-8843	.60
Ford Standard—1935.....	A-8844	.60
Ford DeLuxe—1936.....	A-8626	.60
Ford Standard—1936.....	A-8843	.60
Hudson Six—1936.....	A-8439	.81
Hudson Eight—1936.....	A-8439	.81
Hupmobile Six—1935.....	A-8634	.72
Hupmobile DeLuxe Eight—1935.....	A-8636	.72
Hupmobile Standard Eight—1935.....	A-8630	.60
Hupmobile Six—1936.....	A-8634	.72
Hupmobile Eight—1936.....	A-8636	.72
Lafayette—1936.....	A-8632	.60
Lincoln Zephyr—1936.....	A-8625	.60
Nash 400.....	A-8628	.72
Nash Ambassador Six.....	A-8628	.72
Nash Ambassador Eight—1936.....	A-8628	.72
Plymouth—early 1935 (walnut grain).....	A-8634	.72
Plymouth—late 1935 (taupe finish).....	A-8845	.72
Plymouth Standard—1936.....	A-8636	.60
Studebaker Dictator Six—1936.....	A-8459	.81
Terraplane—1936.....	A-8451	.81



Steering Column Kit

Under-Dash Kit

STEERING COLUMN AND UNDER-DASH KITS

For Series 600 Controls Only

(These two kits include necessary brackets, black Tenite knobs, and all necessary screws and lock washers.)

Steering column mounting kit.....	A-4617	Net price \$0.24
Under-dash mounting kit.....	A-4515	.18



NO. 104 GEAR

6 to 1 ratio, 1/4-inch shaft. No back lash.
Net price.....\$0.36

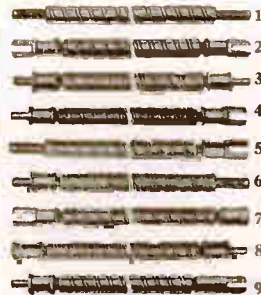
FLEXIBLE CASING BRACKET

Used for Anchoring Remote Cables

No. P3119—Each.....	\$0.21
---------------------	--------



No. P4521—Shaft coupling. Use to adapt No. 7 or 8 shaft to condenser, etc. Each.....\$0.21



FLEXIBLE SHAFTS

Shafts and casings may be had with any of the fittings shown in the illustration at the same price. In ordering give the shaft number and length desired.

18 inches long.	Net, each.....	\$0.48
20 inches long.	Net, each.....	.51
24 inches long.	Net, each.....	.57
30 inches long.	Net, each.....	.66

HOW TO DETERMINE RATIO REQUIRED

First, open the condenser and then count the turns of the flexible shaft required to bring rotor to the fully closed position. Multiply this figure by two to obtain the gear ratio in terms of 360 degrees. Example: If your flexible shaft makes eight complete revolutions to turn the rotor from the open to the closed position the gear ratio is 16 to 1 and you need No. 254 or No. 604 control.

INFORMATION ON DIRECTION OF ROTATION

Tell us whether condenser closes left or right.

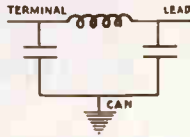
AUTO IGNITION FILTERS

CORNELL DUBILIER **IRC** CONTINENTAL CARBON

CONTINENTAL CARBON FILTERS



DOME LIGHT FILTER



Here is a real dome light filter that will suppress the most obstinate case of radiated ignition noise from this source. May also be used as a primary filter for fans, heaters, etc. Two .5 mfd. condensers and R.F. choke.

No. GB05DH. Each.....\$0.60



DOME LIGHT FILTER

Regular type filter for dome lights, etc. Consists of single .5 mfd. condenser and R. F. choke.

No. GB05H. Each.....\$0.48



OIL-FILLED VIBRATOR CONDENSERS 2,000 Volts D. C.



Type VU—Vibrator Condensers

Cat. No.	Cap. Mfd.	Size L x W x D	List Price
VU-D7	.007	5/8x7/8x9/32	\$0.27
VU-D8	.008	5/8x7/8x9/32	.27
VU-S1	.01	5/8x7/8x9/32	.27
VU-S15	.015	5/8x7/8x9/32	.27
VU-S2	.02	7/8x7/8x9/32	.27
VU-S3	.03	1 1/8x7/8x9/32	.27

Type VC—Tubular Oil Units

VC-S1	.01	1 5/8x5/8	.18
VC-S15	.015	1 5/8x5/8	.21
VC-S2	.02	1 5/8x3/4	.24
VC-S3	.03	2 1/8x11/16	.30
VC-S5	.05	2 3/16x3/4	.33
VC-S75	.075	2 3/16x13/16	.39
VC-P1	.1	2 3/16x15/16	.45

Type VL—Long—Thin

VL-S1 (1500V)	.01	3 3/16x17/32x3/8	.36
VL-P5 (200V)	.5	3 3/16x27/32x3/8	.39



CORNELL-DUBILIER GENERATOR CONDENSERS

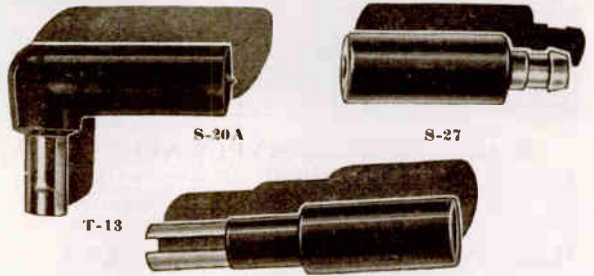
Regular type, heavy metal case and band, long heavy lead. 400 volts D. C.

No. SC4P5—.5 mfd., 2 1/4 x 1 1/4 in.\$0.36

No. SC4W1—1. mfd., 2 1/4 x 1 1/4 in.48

FORD TYPE, WITH BRACKET

No. FC-4P5—.5 mfd., 1 1/2 x 1 in.36



CONTINENTAL CARBON SUPPRESSORS

CONTINENTAL Suppressors have been subjected to years of laboratory development and actual road service. They effectively remove noise interference from spark discharge at the plugs and high-tension distributor—yet do not in any way affect the motor car ignition system.

They have mechanical strength to withstand the most severe service. The resistance value has been scientifically determined and is not changed after years of the most adverse conditions. Sparking across the terminals is eliminated by careful shaping of the electrodes and cases.

Net price, each (any type).....\$0.18

AUTO RADIO SUPPRESSORS

IRC Suppressors.

Built for the Longest Service On the Toughest Jobs



Type MS



Type MD

Type MS—Standard for spark plugs on most cars.



Type MC

Type MD—Distributor suppressor.

Type MC—Cable—where cable may be spliced.



Type MCA

Type MCA—For recessed plugs—Buicks, etc.



Type MCB

Type MCB—Extremely light—for Fords.

All types. Price each.....\$0.18

SECURITY VALUE-PLUS SUPPRESSORS

No. W100—Spark Plug Type. Each.\$0.15

No. W101—Distributor Type. Each. .15
8 for \$1.00



FORD V-8 SUPPRESSOR DISTRIBUTOR BRUSH

Replaces Original Brushes

Two suppressor brushes are needed for each Ford.

No. V-8S—Each.....\$0.20
10 for \$1.80

LYNCH FILTASTATS

Wire wound inductances of low resistance (250 ohms) designed to replace carbon suppressors. Allows better spark and more gas mileage.

No. L100—Spark Plug type. Each.....\$0.33

No. L200—Distributor type. Each.....\$0.33

No. L400—Cable type. Each.....\$0.33



LYNCH SUPER-FILTASTAT

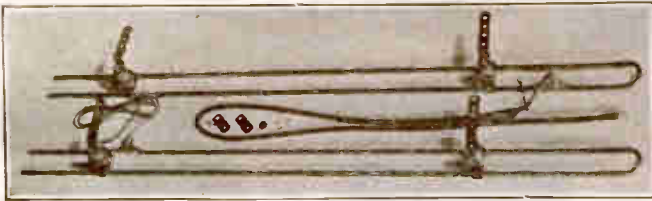
One main distributor suppressor (350 ohms) eliminates the noise in most cars. Very successful.

No. 1800—Distributor type. Each.....\$1.65

No. 1801—Cable type. Each.....\$1.65

DEDUCT 2% FOR CASH WITH ORDER

Auto Radio Antennas



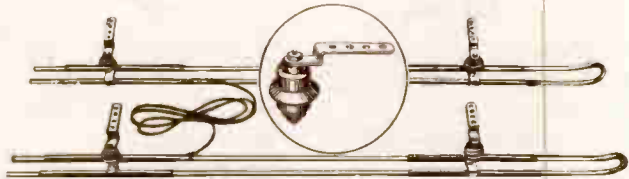
WARD "DUAL MARVELWAVE"

● The Best Buy on the Market! All the benefits of Ward engineers' eight years' experience in building auto aeri-als, at a price that meets all competition. Same no-drilling quick-installation features as all other Ward aeri-als. Rubber insulated—rustproof finish.

Model 2MW—Net price \$1.65

SINGLE MARVELWAVE

Model 1MW—Net, each \$0.90



WARD "LONG RANGE TWINS" Sealed in Rubber

Produce pick-up power equivalent to that of any roof aerial. All leakage from moisture, slush or ice is absolutely eliminated. This aerial has been designed to add grace and beauty to the new streamlined automobile. Weight: 6 lbs., individually packed; 10 to a master carton, 62 lbs.

Model HPR with 66-inch lead wire \$2.40



WARD "RUBBER SEALED" STREAMLINE

The most efficient aerial for one running board. 10-minute installation by means of Ward's "magic brackets."

Model 4RC with lead wire \$1.77

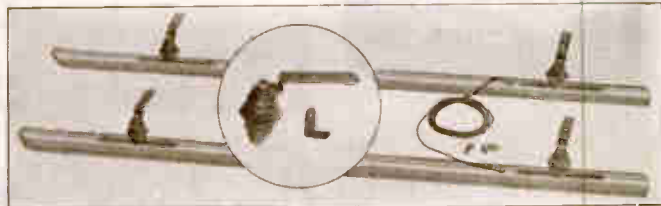
WARD "MAGIC-SKI" AERIAL

- No Drilling.
- Quick Installation.
- Permanent Construction.
- Approved by Leading Engineers.
- Efficient Under All Weather Conditions.
- No Fading—Non-Directional.

The scientific combination of the bracket and antenna reduces capacity to car to new low levels, giving added ground capacity, which is directly responsible for such outstanding high efficiency and performance.

Model 2-Ski, dual \$2.10

Model 1-Ski, single 1.20



WARD LOW LOSS LEAD WIRE

Weather-Proof—Shielded

Model No. AL-66—66 in. long. Net price \$0.45

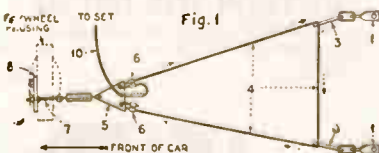
Model No. AL-36—36 in. long. Net price36



RCA Dipole Auto Antenna

Constructed of metal tubing coated with durable insulation. 48 ins. long, 6 ins. wide. The noise-reducing Dipole in operation acts as a counterpoise with the car acting as the aerial. Adjustable. Complete with shielded lead-in, bayonet-type plug and all hardware. No. 9605—Net \$1.55

LYNCH AUTO ANTENNA



LYNCH AUTO KIT A-1

Especially designed for Turret Top cars. Increases volume—reduces interference. Installs easily beneath car. Kit consists of 20 feet Lynch "Hi-Mo" auto antenna wire (42 strands—1/8 in. diameter), rear axle insulator assemblies, flywheel housing insulator assembly with tension adjuster, necessary connectors and 10 feet special lead-in wire. \$2.10

LYNCH KIT A-2

A coupling system with a matched impedance transmission line which will reduce interference on any existing installations. It will raise volume on any present installation 100% to 300%. Kit A-2 consists of one Lynch auto antenna impedance matching transformer, one auto radio receiver impedance matching transformer, and 10 feet Lynch No. Stat shielded transmission line with hardware for connecting. \$3.00

LYNCH DE LUXE KIT A-3
Combines all of the materials in Kits A-1 and A-2. Kit A-3. \$4.80

DOUBLET AUTO AERIAL



A real noise-reducing car antenna. Comes complete with mounting brackets and hardware. No. 4345 \$1.10

RUNNING BOARD AERIAL



Fine copper mesh moulded into rubber. Insures greater volume—easy to install. No. 325—Complete with hardware. . . \$1.65

TRIANGLE LO-LOSS AUTO-RADIO AERIAL



An extremely popular type of undercar aerial—good pick-up. 20 feet of heavy phosphor bronze cable together with durable lead-in and all necessary hardware. No. 4342—Net \$0.95

DEDUCT 2% FOR CASH WITH ORDER

EVEREADY

RADIO BATTERIES

EVEREADY



Each new Eveready "B" and "C" battery is equipped with a 3-hole socket and a removable plug. Wires from the set connect to the plug. Put the plug in the battery socket—as easy as putting in a radio tube—and the correct connections are all made. Fool-proof! No wiring troubles! Can be used on old radios as well as new. The batteries marked * have this wonderful new feature.



"B" BATTERIES

Cat. No.	Voltage and Type	Unit Package Quantity	Weight, Each	Net Price, Each	Unit Package Price, Each
485*	45-volt, medium layerbuilt	6	11 lbs.	\$1.30	\$1.18
486*	45-volt, heavy duty layerbuilt	6	16 lbs.	1.73	1.57
772*	45-volt, medium round cell	6	9 1/2 lbs.	.85	.77
770*	45-volt, heavy duty round cell	6	14 lbs.	1.22	1.11
762	45-volt, portable upright	5	1 lbs.	1.05	.95

"C" BATTERIES

768*	22 1/2-volt, 5 taps	5	1 3/4 lbs.	.66	.60
771*	4 1/2-volt, 3 taps	5	1 lb.	.23 1/2	.21 1/2
767T	4 1/2-volt, 4 taps, general purpose	5	1 lb.	.23 1/2	.21 1/2
763	22 1/2-volt, 2 taps, portable	5	1 1/2 lbs.	.58	.53
781	4 1/2-volt, 2 taps, analyzer	5	3/4 lb.	.31	.28
773	7 1/2-volt, 6 taps	5	3/4 lb.	.49	.44

"A" BATTERIES

16	1 1/2-volt, dry cell	25	2 2/4 lbs.	.20	.18
7111	1 1/2-volt, dry cell	25	2 3/4 lbs.	.31	.28
X124	3-volt, dry pack	1	42 lbs.	5.25	2.27
X125	3-volt, dry pack	1	18 lbs.		

FLASHLIGHT CELLS

935	Small size	36		.06 1/2	
950	Standard size	36		.06 1/2	



EVEREADY AIR CELL "A" BATTERY

No. A600—The famous Eveready "1,000-hour" "A" battery, with improvements, now reduced to your net cost.....\$1.17
No. SA850—A new super heavy duty Air Cell for sets drawing more than 650 milliamperes and less than 750 milliamperes, use SA850. Your net cost \$5.25

BEADED BATTERY HYDROMETER

Length 12 inches. Beaded float does not adhere to side of glass barrel.
No. 270—Net, each.....\$0.35
BEADED FLOAT ONLY
No. 270B—Net, each.....\$0.10



MALLORY BATTERY CHARGERS

	No. 5535 Charger	No. 3 Booster
Size	7 3/4 x 3 1/4 x 3 1/4 in.	5 1/2 x 3 1/4 x 2 3/4 in.
Weight	Approx. 7 lbs.	Approx. 4 1/2 lbs.
A.C. cord	12 ft.	7 ft.
D.C. leads	9 ft.	9 ft.
Rectifier	Mallory 16CD3	Mallory 4A3
Charging rate	6 1/2 amps, tapering to 3 1/2 amps.	4 amps, tapering to 2 amps.
Your net cost	\$6.90	\$4.47

SEE BATTERY CLIPS ON

page 36 — Fuses on page 31 —

Power Plants on page 33

DEDUCT 2% FOR CASH WITH ORDER



GENUINE OXIDITE STORAGE BATTERIES

Heavy duty radio type, 1/8-inch thick plates insure high capacities.

Cat. No.	Volts	Rating at 1/2 Ampere Discharge, Amperes	Weight, Lbs.	Net Price
417	2	190	22	\$3.10
423	2	280	31	4.35
400	6	115	43	5.14
401	6	135	49	6.25
402	6	165	59	7.35
403	6	185	67	8.06
404	6	205	72	10.50

GLASS CELL TYPES

			Set of 3
3538	2	190	148
3738	2	230	154

For the 6-volt "B-less" radios, we recommend the higher capacity batteries for economical operation.



GENUINE SPARTON RADIO TUBES NEW LOW PRICES

There Is a Big Market for Spartron Tubes

Don't overlook this profit-making line. Always use Spartron Tubes in Spartron Radios—for Spartron Tone. Prices Effective Oct. 1st, 1937

Type	Description	Fill. or Heater Volts	Net Price
25-S	Duplex Diode Triode	2.0	\$1.62
70	Duo Control Triode	6.3	1.14
181	Power Amp.	3.0	1.14
401	Amp.-Det.	3.0	1.14
482-A	D. C. Power Amp.	5.0	1.56
484-A	D. C. Amp.-Det.	3.0	1.56
486	D. C. R. F. Amp.	3.0	2.46

These three tubes below are the real fast sellers and should be carried in stock by all good dealers and service men.

Type	Description	Fill. or Heater Volts	Net Price
482-B	Power Amp.	3.0	\$1.13
483	Power Amp.	3.0	1.13
485	Amp.-Det.	3.0	.99

TUNGAR BULBS G. E.

New and Old Style

New Style All Contacts Are in the Base

- No. 277465—2 Amp. New Type.. \$3.00
- No. 189049—5 Amp. Old Type with Top Connector 6.00
- No. 289881—0.6 Amp. for Trickle Charger 3.00
- No. 195528—2 Amp. Old Type.. 3.00



Old Style 2 Amp.

NATIONAL UNION RECTIFIERS

New and Better! Will replace any standard rectifier in all battery charger units. Thoroughly guaranteed. Standard construction.

- 2 Amp. Rectifier Bulb No. Nu-2..... \$2.16
- 6 Amp. Rectifier Bulb No. Nu-6..... 3.78



GENUINE KELLOGG TUBES

- No. 401—Top Heater Connections, 3.0 V. Det. Amp. \$2.40
- No. 403—Top Heater Connections, 3.0 V. Power Amp. 2.70



SALES HELPS

FREE TUBE TEST STICKERS
100 in a roll. Space provided for date sold, date re-tested. (Not imprinted.)

IMPRINTED TUBE TEST STICKERS

Available in rolls of 1,000 at \$1.00 net. On this item and any other form of imprinted advertising, remember that the order has to go to the factory and it takes nearly one month for completion of order.



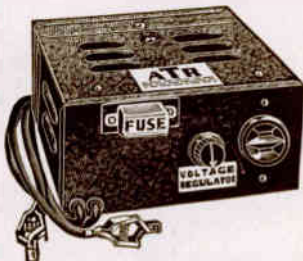
TUBE TECHNICAL DATA CHART

Seventh Edition. Complete technical information on all receiving tubes FREE.



TUBE TALKS

48 pages, full of sales ideas, service tips and a complete list of tube layouts in over 2,000 radio sets. \$0.50 net or free with order for 25 tubes.



ATR D.C. - A.C. INVERTERS

- 6 Volt \$13.50
- 50 Watts ..
- 12 Volt \$13.50
- 50 Watts ..

FOR OPERATING STANDARD 110-VOLT OR 220-VOLT A.C. RADIOS, PUBLIC ADDRESS SYSTEMS, ELECTRICAL TESTING EQUIPMENT

Vacuum Cleaners, Fans, Mixers, Hair Dryers, Curling Irons, Medical Appliances, Etc.

See Complete Listing on Page 135

DEDUCT 2% FOR CASH WITH ORDER

ATR BATTERY CHARGERS

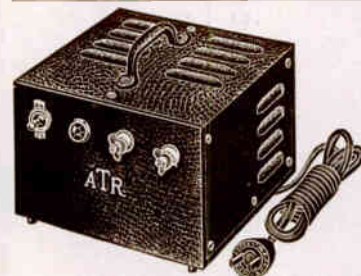
Automatic Tapering

The additional appliances—such as auto radios, spot lights, heaters, fans, cigarette lighters, etc. — operated from the battery of the modern automobile impose a severe drain.

The ATR Automatic CHARGER cannot overcharge battery due to automatic tapering charge feature.



	List Price	Net Price
ATR Standard Charger—Model 450. Maximum charging rate 4 1/2 amperes. Packed one to a carton. Shipping weight, 8 lbs. Complete as illustrated	\$ 9.67	\$5.80
ATR DeLuxe Charger—Model 600. Maximum charging rate 6 amperes. Packed one to a carton. Shipping weight, 9 lbs. Complete as illustrated	11.45	6.87
ATR Master Charger—Model 1000. Maximum charging rate 10 amperes. Packed one to a carton. Shipping weight, 13 lbs. Complete as illustrated	14.25	8.55



ATR A BATTERY ELIMINATOR

for testing and demonstrating

- Net Price \$12.95
- Complete

As a power supply for field coils, exciter lamps, and relays, or in the laboratory, for supplying various low D.C. voltages by simply using rheostat in one side of the A.C. cord. Eliminates storage batteries and battery chargers. Prevents the possibility of spoiling a sale because of a run-down battery. Operates the set at maximum efficiency at all times. Delivers pure direct current at the correct voltage for the proper operation of any auto radio set. Equipped with full-wave dry-disc type rectifier assuring noiseless, interference-free operation and extreme long life and reliability. Fully automatic and fool-proof. Cabinet is of heavy gauge metal having attractive black wrinkled finish. Size 7 1/4 in. x 7 1/4 in. x 5 in. Shipping weight, 20 lbs.



GENUINE



- TREMENDOUS PUBLIC ACCEPTANCE
- UNIFORM PERFORMANCE
- SEALED CARTON PROTECTION
- GUARANTEED ATTRACTIVE PROFITS
- MANY HELPFUL SALES AIDS AND WINDOW DISPLAYS
- A COMPLETE STOCK AT THE LEW BUNN CO.



Prices shown in columns below are based on 40% discount from R.C.A.'s list and you may deduct an additional 10% if you order 25 or more tubes.

Lunningham Radiotron RADIO TUBES

STANDARD GLASS TYPES

Type	List Price	Net Price	Type	List Price	Net Price	Type	List Price	Net Price
00-A	\$1.25	\$0.75	45	\$0.69	\$0.41	1A4	\$1.50	\$0.90
01-A	.59	.35	46	.99	.59	1A6	1.25	.75
1-V	.89	.53	47	.89	.53	1B4	1.75	1.05
10	2.00	1.20	48	2.50	1.50	1B5/25S	1.25	.75
11	1.25	.75	49	.99	.59	1C6	1.50	.90
12	1.25	.75	50	2.50	1.50	1F4	1.50	.90
112-A	.69	.41	53	1.25	.75	1F6	1.50	.90
15	2.00	1.20	55	.99	.59	2A3	1.25	.75
19	.99	.59	56	.69	.41	2A5	.99	.59
20	.99	.59	57	.89	.53	2A6	.99	.59
22	1.25	.75	58	.89	.53	2A7	1.25	.75
24-A	.89	.54	59	1.25	.75	2B7	1.25	.75
26	.59	.35	71-A	.69	.41	5Z3	.89	.53
27	.69	.41	75	.99	.59	6A4	1.25	.75
30	.69	.41	76	.69	.41	6A6	1.25	.75
31	.69	.41	77	.99	.59	6A7	1.25	.75
32	1.25	.75	78	.99	.59	6B7	1.25	.75
33	.99	.59	79	1.25	.75	6C6	.99	.59
34	1.25	.75	80	.59	.35	6D6	.89	.53
35	.89	.53	81	2.00	1.20	6E5	1.50	.90
36	.89	.53	82	.89	.53	6F7	1.50	.90
37	.69	.41	83	.89	.53	6G5	1.50	.90
38	.89	.53	83-V	1.50	.90	12Z3	.99	.59
39-44	.89	.53	84	1.25	.75	25Z5	.99	.59
40	.69	.41	85	.99	.59	874	4.90	2.94
41	.89	.53	89	.99	.59	876	6.70	4.02
42	.99	.59	V99	.99	.59	886	6.75	4.05
43	.99	.59	X99	.99	.59			

ALL-METAL TYPES

6A8	\$1.25	\$0.75	6K7	\$1.25	\$0.75	6X5	\$1.25	\$0.75
6C5	1.00	.60	6L6	2.00	1.20	5W4	1.00	.60
6F5	1.00	.60	6L7	1.50	.90	5Z4	1.25	.75
6F6	1.00	.60	6N7	1.50	.90	25A6	1.50	.90
6H6	1.00	.60	6R7	1.25	.75	25Z6	1.25	.75
6J7	1.25	.75	6Q7	1.25	.75			

G SERIES TYPES

5V4G	\$1.75	\$1.05	6F6G	\$1.25	\$0.75	6Q7G	\$1.25	\$0.75
5X4G	1.25	.75	6H6G	1.00	.60	6R7G	1.25	.75
5Y3G	1.00	.60	6J7G	1.25	.75	6X5G	1.25	.75
6A8G	1.50	.90	6K7G	1.25	.75	25A6G	1.25	.75
6C5G	1.00	.60	6L7G	1.50	.90	25Z6G	1.25	.75
6F5G	1.00	.60	6N7G	1.50	.90			

DEDUCT 2% FOR CASH WITH ORDER

A NEW



“CHECK-UP” CAMPAIGN!!!



CHECK-UP LIKE “SHOT IN ARM”

Say Service Men

WHY?—

RCA—ADVERTISES SERVICE FOR YOU OVER

- 36 broadcast stations
- National magazines
- Newspapers throughout country
- Free mat service (sample on left)
- Eye appeal window displays
- Special check-up reply postcards
- Personalized follow-up sales letters
- See us about “1200 service short cuts”



Telephone Myrtle 5136-W
 BERNARD L. COOK
 PROFESSIONAL RADIO SERVICE
 18 SUNSET AVENUE MEDFORD, MASS.

RING YOUR CASH REGISTER WITH RCA “CHECK-UP” PUTS YOU IN TOUCH WITH YOUR OLD CUSTOMERS

WE RECOMMEND RCA RADIO TUBES

See Us For Details



No. 629



RC12



No. 698



No. 694



No. 318



Shirt

STORE HELPS



No. 622

- No. 629—Illuminated Carton 12 in. high \$1.00
- No. 622—Illuminated Clock 20 in. diameter 5.00
- No. 665—Metal Flange Sign 4 color imprinted both sides 1.00
- RC12 —Tube manual (glass types)25
- Metal Tube Manual Technical Book10
- RCA Reference Book free with RC12 and Metal Tube Manual.
- No. 698—O.K. Tags Free
- No. 694—Decalcomania Free
- No. 318—Bill Head imprinted 500 for 1.00

- No. 474—Letterhead and Envelope imprinted 500 for. \$2.75
- No. 669—Dummy Cartons Free
- No. 684—Price Cards Free
- No. 690—Consumer Price List (folder) Free
- No. 604—Tube Test Stickers imprinted roll of 2000.. 1.00
- No. 495S—Deluxe Radio Station Log imprinted 100 for 3.00
- No. 693—Post Cards imprinted 100 for 1.00
- No. 692—Post Cards imprinted 100 for 1.00
- Shirt (give collar size and arm length) 1.40
- Counter Coat (give breast, arm, and back length) 1.60



Counter Coat

DEDUCT 2% FOR CASH WITH ORDER

It always pays

THE QUALITY LINE

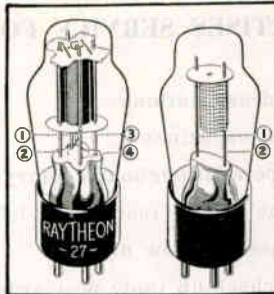
RAYT
• 4 PILLAR

Radio's Highest Quality

Longest Life

Most Sturdily Constructed

RADIO TUBES



Raytheon's 4-Pillar construction is tried and proved. Jars and jolts that ruin all other makes of tubes do not affect Raytheon 4-Pillar radio tubes. Raytheon 4-Pillar tubes are used in a large majority of radio-equipped police cars and also are the favored tubes for use in airplane radios where tubes are subjected to heavy vibrations. Raytheon tubes are supplied as original equipment by more manufacturers of auto radios than any other make—because they have learned that Raytheon 4-Pillar construction means better performance and less trouble. You can prove, to all tube customers, that Raytheons are better than other tubes by demonstrating the added volume and the clarity of reception when installed in their radios. Then clinch the sale by pointing out the advantages of Raytheon's 4-Pillar construction.

A BETTER

Raytheon Radio Tubes are divided into three groups—Group 1, Group 2, Group 3. All Group 1 tubes are fast sellers and are guaranteed for six months. Group 2 tubes are medium fast sellers and are guaranteed for nine months. Group 3 tubes are the slowest sellers and are guaranteed for one year. You will find the group number of each tube listed right with each tube. Raytheon's guarantee includes everything but broken glass and burn-outs and this guarantee is backed 100% by the Lew Bonn Co. The guarantee period is de-

NEW LOW PRICES

Effective June 20th, 1936

Orders for Raytheon Tubes will always be shipped at prevailing net prices

RAYTHEON 4-PILLAR GLASS TUBES

Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price
00-A	\$1.35	\$0.68	6C6	\$1.10	\$0.55	33	\$1.10	\$0.55	75	\$1.10	\$0.55
01-A	.45	.32	6D6	1.00	.50	34	1.35	.68	76	.75	.37
OZ3	.68	.48	6E5	1.60	.80	35/51	1.00	.50	77	1.10	.55
1A4	1.60	.80	6E6	1.70	.85	36	1.00	.50	78	1.10	.55
1A6	1.35	.68	6F7	1.60	.80	37	.75	.37	79	1.35	.68
1B4/951	1.60	.80	6G5	1.60	.80	38	1.00	.50	80	.65	.32
1B5/25S	1.35	.68	6N5	1.85	.93	39/44	1.00	.50	81	2.10	1.05
1C6	1.80	.90	6Z4/84	1.35	.68	40	.75	.37	82	1.00	.50
1F4	2.20	1.11	12A5	2.10	1.05	41	1.00	.50	83	1.00	.50
1F6	1.60	.80	12A7	2.20	1.10	42	1.10	.55	83-V	1.60	.80
1-V	1.00	.50	12Z3	1.10	.55	43	1.10	.55	84	1.35	.68
2A3	1.35	.68	25Z5	1.10	.55	45	.75	.37	85	1.10	.55
2A5	1.10	.55	10	2.10	1.05	46	1.10	.55	89	1.10	.55
2A6	1.10	.55	12-A	.75	.37	47	2.60	1.30	X99	1.10	.55
2A7	1.35	.68	15	2.00	1.00	48	1.10	.55	V99	1.10	.55
2B7	1.35	.68	19	1.10	.55	49	1.10	.55	182B	1.65	.83
2E5	1.60	.80	20	1.10	.55	50	2.60	1.30	183	1.65	.83
5Z3	1.00	.50	22	1.35	.68	51	1.70	.85	485	1.45	.73
6A3	1.60	.80	24-A	1.00	.50	52	1.70	.85	WD-11	2.20	1.10
6A4 (LA)	1.35	.68	25	.65	.32	53	1.70	.85	WX-12	1.35	.68
6A6	1.35	.68	26	.75	.37	54	1.10	.55	BA	7.50	3.77
6A7	1.35	.68	30	.75	.37	56	.75	.37	BH	4.65	2.34
6B5	2.25	1.13	31	.75	.37	57	1.00	.50	BR	2.75	1.38
6B7	1.35	.68	32	1.35	.68	58	1.00	.50	LA (6A4)	1.35	.68
						59	1.35	.68			
						71A	.75	.37			

Note: Raytheon 4-Pillar Glass, deduct 10% additional on all orders for 25 tubes or more.

RAYTHEON (MAJESTIC) SHIELDED TYPE TUBES

Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price
2A7S	\$2.40	\$1.21	6D7	\$1.85	\$0.93	24S	\$1.40	\$0.71	57AS	\$1.85	\$0.93
2S/4S	2.75	1.38	6E7	1.85	.93	27S	.90	.45	58S	1.85	.93
2Z2/G84	1.95	.98	6F7S	2.00	1.01	35S/51S	1.50	.75	58AS	1.85	.93
6A7S	2.40	1.21	6Y5	2.00	1.01	55S	1.80	.90	75S	1.80	.90
6B7S	2.20	1.11	6Z5	2.00	1.01	56S	1.40	.71	85AS	1.80	.90
6C7	2.00	1.01				57S	1.85	.93			

Note: Raytheon (Majestic) Shielded Tubes, deduct 10% additional on all orders for 25 tubes or more.

to sell the best.

RAYTHEON RADIO TUBES

WITH BIG DEALER DISCOUNTS

GUARANTEE

terminated by the coding on the code label that is attached to each Raytheon Tube and is computed by adding six, nine or twelve months to the code date. The code date consists of two or three figures. The first, or first two, indicate the month of shipment and the last, year of shipment. For example, "74" would indicate shipment in July, 1934. The Lew Bonn Co. is the largest distributor of radio tubes in the Northwest so you are assured of a large, fresh stock of tubes at all times.

RAYTHEON METAL ENVELOPE RESISTANCE TUBES

Metal envelope similar in appearance to 5Z4—Capacity 0.3 ampere.

Raytheon Resistance Tubes replace resistance line cords in A.C.-D.C. receivers and provide, in types equipped with a tap, voltage for the operation of one or two dial pilot lamps.

Type	Resistance	Voltage Drop	Dial Lamps*	Net Price
55A1	185 Ohms	54.9		\$0.60
55A2	185 "	54.9	one	.66
55B2	185 "	54.9	two	.66
49A1	162 Ohms	48.6		.60
49A2	162 "	48.6	one	.66
49B2	162 "	48.6	two	.66
42A1	141 Ohms	42.3		.60
42A2	141 "	42.3	one	.66
42B2	141 "	42.3	two	.66

* Dial Lamps—Brown Bead No. 40. 6-8 Volt Mazda Pilot Lamp.

55 Series—For two 25.0 volt and two 6.3 volt tubes.

49 Series—For two 25.0 volt and three 6.3 volt tubes.

42 Series—For two 25.0 volt and four 6.3 volt tubes.

Base—Octal. 8 Prong.

RAYTHEON "G" TYPES

(Glass Tubes with Octal Bases)

Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price
C7-G	\$1.85	\$0.93	6H6-G	\$1.10	\$0.55
D5-G	1.85	.93	6J5-G	1.10	.55
D7-G	1.60	.80	6J7-G	1.35	.68
E5-G	1.60	.80	6K7-G	1.35	.68
E7-G	1.60	.80	6K9-G	1.35	.68
F5-G	2.50	1.25	6K7-G	1.35	.68
H4-G	1.10	.55	6L6-G	2.20	1.11
H6-G	1.60	.80	6L7-G	1.60	.80
J6-G	1.35	.68	6N6-G	2.50	1.25
V4-G	1.85	.93	6N6-MG	2.50	1.25
X4-G	1.35	.68	6N7-G	1.60	.80
Y3-G	1.10	.55	6P7-G	2.20	1.11
Y4-G	1.10	.55	6Q2-G	1.35	.68
A8-G	1.60	.80	6R7-G	1.35	.68
B4-G	1.85	.93	6X5-G	1.35	.68
B6-G	1.50	.75	25A6-G	1.35	.68
C5-G	1.10	.55	25Z6-G	1.35	.68
F5-G	1.10	.55	6D8-G	2.10	1.05
Q6-G	2.10	1.05	1E7-G	1.60	.80
L5-G	2.10	1.05	1S7-G	1.85	.93
S7-G	2.10	1.05			
F6-G	1.35	.68			

Note: Raytheon "G" type tubes, deduct 10% additional on all orders for 25 tubes or more.



MORE PROFITS

A Cleaner Business

LESS TROUBLE

Read This!

The sale of radio tubes should constitute 40 to 50% of your sales volume. Therefore, you should be sure that the radio tube line that you are handling offers you the maximum profit with the least trouble. Raytheon radio tubes are nationally known and have very good consumer acceptance, together with the strongest sales feature possible—4-Pillar construction. Look over the many free sales helps we offer you. Look over the many items of test equipment that you can secure at great savings—see page 8 for full details.

5 IMPORTANT FEATURES!

1. A definite guarantee.
2. Raytheon quality is unexcelled.
3. Nationally advertised real consumer acceptance.
4. Complete selection—a tube for every set.
5. 4-Pillar construction. The only tube having this patented feature.

RAYTHEON GLASS ENVELOPE RESISTANCE TUBES

Type	Resistance	Voltage Drop	Dial Lamps*	Net Price
185R	185 Ohms	54.9		\$0.60
185R4	185 "	54.9	one	.66
185R8	185 "	54.9	two	.66
165R	162 Ohms	48.6		.60
165R4	162 "	48.6	one	.66
165R8	162 "	48.6	two	.66
140R	141 Ohms	42.3		.60
140R4	141 "	42.3	one	.66
140R8	141 "	42.3	two	.66

* Dial Lamps—Brown Bead No. 40. 6-8 Volt Mazda Pilot Lamp.

185 Series—For two 25.0 volt and two 6.3 volt tubes.

165 Series—For two 25.0 volt and three 6.3 volt tubes.

140 Series—For two 25.0 volt and four 6.3 volt tubes.

Base—Regular. 4 Prong.

RAYTHEON ALL-METAL TUBES

Type No.	List Price	Dealers' Net Price	Type No.	List Price	Dealers' Net Price
0Z4	\$1.35	\$0.68	6K7	\$1.35	\$0.68
5W4	1.10	.55	6L6	2.20	1.11
5Z4	1.35	.68	6L7	1.60	.80
6A8	1.35	.68	6N7	1.60	.80
6C5	1.10	.55	6Q7	1.35	.68
6F5	1.10	.55	6R7	1.35	.68
6F6	1.10	.55	6X5	1.35	.68
6H6	1.10	.55	25A6	1.60	.80
6J7	1.35	.68	25Z6	1.35	.68

Note: Raytheon All-Metal Tubes, deduct 10% additional on all orders for 25 tubes or more.

RAYTHEON TUBES FOR IMPROVED PERFORMANCE



FAMOUS ELIM-O-STATS FOR RADIO NOISES EXACT DUPLICATE ELECTROLYTICS

SOLAR *Elim-O-Stat*

RADIO NOISE SUPPRESSORS

FOR USE DIRECTLY AT THE RECEIVER



Type RA—Designed for use with radios which are receiving a small amount of hum through the power lines. Attaches easily on line plug. Can also be used on small appliances. An easily sold item. Max. current, 5 amps. Net price.....\$0.24

Type RB—Designed for same usage as Type RA, but is a heavier duty type. Plugs into power line. Max. current 5 Amps. Net price.....\$0.45



Type RN—Designed to prevent all types of radio noises from passing into the radio from power line. Effective on wave lengths from 15 to 2,000 meters, due to sectional band-suppression construction. Easily connected to radio through line plug and convenience outlet supplied with unit. Max. current 3 Amps. Net price.....\$3.00

FOR USE WITH DISTURBING ELECTRICAL DEVICES

Type AD—Designed for use on small appliances and really reduces radio noises over a wide frequency range. Plugs into power line and requires a short return wire to frame of appliance. Max. current 5 amps. Net price.....\$0.75



Type AF—Designed for heavier duty work. This is a capacitive-inductive type and should not be confused with cheap filters. Max. current 5 amps. Net price.....\$2.40

Type AG—A real heavy duty capacitive-inductive type of noise filter. Effective on all waves from 15 to 2,000 meters due to sectional band-suppression circuit. Same construction as Type AF. Net price.....\$3.00

Type AH—A real heavy duty capacitive-inductive type of filter. When used with a multiple plug, the AH will filter out several appliances at once. Same construction as Type AF. Max. current 6 Amps. Net price.....\$3.90

TYPE AL—Especially designed to be used on all types of oil burners. Constructed in a metal cut-out box with facilities for connecting BX. Guaranteed to clear up noises due to oil burners. Net price.....\$4.50



Type DJ—Dial Telephone Elim-O-Stat. Can be installed in few minutes without disturbing telephone installation. Net price.....\$0.75

It is impossible in this limited space to list all the Elim-O-Stats for suppressing noise so we urge you to write us for the size and type you need. Special filters can be made up for various applications.



0202

A.C.-D.C. (Various sets): DC-0202, 16 plus 8 Mfd., 200 V. — Dual 10 Mfd., 35 V. Silver Cbd. Tube 1 1/2x4 1/2. Net price.....\$1.32



0437

A.C.-D.C. (Various sets): DS-C-83, 8 plus 8 Mfd., 200 V. plus 5 Mfd., 35 V. Silver Cbd. Tube 1 1/2x4 1/2. Net price.....\$0.99

A.C. (Various sets): DS-C-S1, 6 plus 8 Mfd., 450 V. plus 5 Mfd., 35 V. Silver Cbd. Tube 1 1/2x4 1/2. Net price.....\$1.17



0464

A.C.-D.C. (Various sets): DS-C-S5, 8 plus 20 Mfd., 150 V. plus 5 Mfd., 35 V. Silver Cbd. Tube 1 1/2x4 1/2. Net price.....\$1.08

BELMONT: DC-0437, Orig. No. C-525-B, 5 plus 25 plus 5 Mfd., 100 V. Cbd. Box, 2 1/2x1 1/2x1 1/2. Net price.....\$1.05



0466

CROSLBY: DC-0464, Orig. No. W-27676, 4 plus 4 Mfd., 175 V. Cbd. Box, 2-5/16x1x1. Net price.....\$0.51

DC-0466, Orig. No. W-26896-A, 6 Mfd., 25 V. plus 12 Mfd., 300 V. Cbd. Box, 4 1/2x1-5/16x 3/8. Net price.....\$0.99



0467

DC-0467, Orig. No. W-27488, 8 Mfd., 25 V. plus 6 Mfd., 400 V. Cbd. Box, 2 1/2x1 1/2x1 1/2. Net price.....\$0.75

DC-0475, Orig. No. W-29097-A, 8 plus 8 plus 8 Mfd., 250-350-450 V. Inv. Can, 4 1/2x1 1/2. Net price.....\$1.35



0475

DC-0477, Orig. No. W-29150-A, 7 plus 6 plus 8 Mfd., 450-400-25 V. Inv. Can, 4 1/2x1 1/2. Net price.....\$1.17

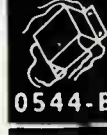
DC-0479, Orig. No. W-29264-A, 16 plus 16 plus 8 Mfd., 125-100-20 V. Rd. Can, 3 1/2x1 1/2. Net price.....\$1.41



0532

GENERAL ELECTRIC: DC-0532, Orig. No. 3538, 4 plus 4 Mfd., 175 V. Cart., 1 1/2x1. Net price.....\$0.51

GRUNOW: DC-0544, Orig. No. 25151, 10 plus 4 plus 25 Mfd., 100 V. plus 4 Mfd., 25 V. Rec. Can, 2-7/16x1 1/2x1 1/2. Net price.....\$1.32



0544-B

DC-0544-A, Orig. No. 27151, 8 plus 4 plus 20 Mfd., 100 V. plus 4 Mfd., 25 V. Cbd. Box, 2 1/2x1 1/2x1-9/16. Net price.....\$1.20

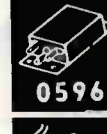
DC-0544-B, Orig. No. 30091-1, 8 plus 8 Mfd., 500 V. plus 8 Mfd., 525 V. plus Dual 12 Mfd., 35 V. Cbd. Box, 2 1/2x2 1/2x1 1/2. Net price \$2.16



0592

RCA: DC-0592, Orig. No. 6487, 4 plus 4 plus 10 plus 4 Mfd., 350-250-150-25 V. Cbd. Box, 3 1/2x1 1/2x1 1/2. Net price.....\$1.20

DC-0594, Orig. No. 6492, 1.0 Mfd., 250 V. plus 3.6 Mfd., 100 V. Cart., 15/16x2 1/2. Net price.....\$0.45



0596

DC-0596, Orig. No. 7589, 4 plus 4 Mfd., 450 V. Cbd. Box, 3 1/2x1 1/2x1. Net price.... \$0.72



0607

SPARTON (SPARKS-WITHINGTON): DC-0607, Orig. No. A-9550, 5 plus 25 plus 5 Mfd., 175 V. Cbd. Box, 1 1/2x1 1/2x2-5/16. Net \$1.17

DC-0609, Orig. No. A-11093, 5 plus 25 plus 5 Mfd., 175 V. Cbd. Box, 2-9/16x2-13/32x15/16. Net price.....\$1.17



0609

The SOLAR line of exact duplicate dry and wet electrolytics is the most complete available. We only list a few popular dry replacements above. If the condenser you want is not listed, write us for it—we have it or will get it. If necessary, SOLAR will make it up for you at no extra cost.

FAMOUS "LITTLE GIANTS"

MOULDED "DOMINO" CONDENSERS

PRECISION CAPACITOR ANALYZER



INTRODUCES
"DOMINO"

THE EYES HAVE IT!

BAKELITE MOULDED PAPER CONDENSERS



These new domino shaped condensers are moulded into treated bakelite, sealed against moisture and having permanent qualities not found in ordinary tubulars.

	Capacity	Working V.	Price
No. MP4135	.01	600	\$0.15
No. MP4137	.02	600	.18
No. MP4139	.05	600	.18
No. MP4141	.01	400	.12
No. MP4143	.02	400	.15
No. MP4145	.05	400	.15
No. MP4147	.1	400	.15
No. MP4151	.01	200	.11
No. MP4153	.02	200	.12
No. MP4155	.05	200	.12
No. MP4157	.1	200	.12
No. MP4162	.25	200	.18

Box of 10, any one size, deduct 15%



Your eyes
and the
MAGIC
TUBE
see all,
know
all.

NEW! SOLAR LITTLE GIANTS with "FLEX-MOUNT"



"FLEX-MOUNT" REVERSES!
Mount Either Flat or On Edge

SINGLE "little giant" Dry Electrolytic Condensers with Leads

Catalog No.	Capacity Working		Dimensions, Inches			Net Price
	Mfd.	Volts D.C.	Length	Width	Thickness	
LG5-4	4	450	2 ⁷ / ₁₆	1	⁹ / ₁₆	\$0.45
LG5-8	8	450	2 ⁷ / ₁₆	1 1/8	¹¹ / ₁₆	.57
LG5-10	10	450	3 ³ / ₁₆	1 1/8	¹¹ / ₁₆	.69
LG5-12	12	450	3 ³ / ₁₆	1 1/8	¹¹ / ₁₆	.78
LG2-4	4	200	2 ⁷ / ₁₆	3/4	1/2	.39
LG2-8	8	200	2 ⁷ / ₁₆	13/16	⁹ / ₁₆	.48
LG2-12	12	200	2 ⁷ / ₁₆	1 1/8	¹¹ / ₁₆	.95
LG2-16	16	200	2 ⁷ / ₁₆	1 1/8	¹¹ / ₁₆	.63

DUAL "little giant" Dry Electrolytic Condensers with 4 Leads

Separate Section Construction. Boxes have flanges, easily detached if not needed.

Catalog No.	Capacity Working		Dimensions, Inches			Mounting Centers	Net Price
	Mfd.	Volts D.C.	Length	Width	Thickness		
LG5-44	4+4	450	2 ⁷ / ₁₆	1 1/8	1	2 1/8	\$0.72
LG5-88	8+8	450	2 ⁷ / ₁₆	1 1/8	1 1/8	2 1/8	.90
LG2-44	4+4	200	2 ⁷ / ₁₆	1 1/8	13/16	2 1/8	.54
LG2-88	8+8	200	2 ⁷ / ₁₆	1 3/8	13/16	2 1/8	.75

DEDUCT 2% FOR CASH WITH ORDER

QUICK AS A WINK!

SOLAR Precision CAPACITOR ANALYZER

HERE IS WHY YOU WILL LIKE IT

- 1 Measures Capacity—of electrolytic, paper, mica, and air condensers. Range .00001 to 70.0 mfd.
- 2 Measures Power Factor—of any electrolytic condensers. directly on a scale, in percentage.
- 3 Measures Resistance—directly in ohms, of resistors of all types. Range 50 to 2,000,000 ohms.
- 4 Measures Insulation Resistance—of condensers and insulation. Tests are made at voltages up to 450 volts D.C., provided by built-in power supply.
- 5 Detects Defective Condensers—directly indicates leaky, shorted, wrong capacity units, and "intermittents."
- 6 Is a Useful Continuity Meter—for any circuits.
- 7 Color-Coded Scales mean fool-proof operation. 45 linear inches of scales mean accuracy.
- 8 Direct Reading of all measurements eliminates extra charts and annoyance.
9. Cathode Ray Tube Balancing—the magic 6E5 tube gives sensitive visual balance—"quick as a wink."
- 10 Self-Contained—Compact—Portable.

TYPE CB160.
110 volts, 60 cycle.
Dealer's net.....

\$19.20

NEW SMALL SIZE REPLACEMENT CONDENSERS

P.R. MALLORY & CO. Inc.
MALLORY

Cellophane Separators, Etched Anodes, Stitched Leads

TYPE RS

ROUND CAN



FILTER UNITS

Separate leads, not grounded to the can in any case.

SINGLE SECTIONS				
Type No.	Cap.	Working Volts	Size Inches	Net Price
RS203	8	250	2 3/4 x 1	\$0.57
RS211	4	450	2 3/4 x 1	.51
RS213	8	450	2 3/4 x 1	.63
RS215	12	450	3 x 1	.81
MULTIPLE SECTIONS				
RM252	8-8	250	3 x 1 3/8	.87
RM255	8-8-8	250	3 1/2 x 1 3/8	1.26
RM257	8-8-16	250	3 1/2 x 1 3/8	1.41
RM261	4-8	450	3 x 1 3/8	.87
RM262	8-8	450	3 x 1 3/8	.96
RM265	8-8-8	450	4 x 1 3/8	1.38

CARD-BOARD CARTON FILTER SECTIONS



Separate Leads in Each Section

SINGLE SECTION TYPE				
Type	Cap.	Working Volts	Size Inches	Net Price
CS121	4	250	3/8-2-7/16	\$0.39
CS123	8	250	3/8-2-7/16	.48
CS124	10	250	5/8-1-2-7/16	.57
CS125	12	250	5/8-1-2-7/16	.60
CS126	16	250	11/16-1 1/4-2-7/16	.66
CS130	2	450	1/2-3/4-2-7/16	.39
CS131	4	450	5/8-7/8-2-7/16	.45
CS133	8	450	5/8-1-2-7/16	.57
CS134	10	450	11/16-1 1/4-2-7/16	.69
CS135	12	450	11/16-1 1/4-2-7/16	.78
MULTIPLE SECTION TYPE				
Type	Cap.	Working Volts	Size Inches	Net Price
CM160	4-4	250	3/4-1 1/4-3	\$0.54
CM161	4-8	250	3/4-1 1/4-3	.68
CM162	8-8	250	3/4-1 1/4-3	.79
CM165	8-8-8	250	1 3/8-1-3	1.17
CM170	4-4	450	3/4-1 1/4-3	.72
CM172	8-8	450	1 3/8-1-3	.90
CM175	8-8-8	450	1 1/2-1 1/4-3	1.32
CM173	4-4-4	450	1 1/4-1 1/4-3	1.08



TUBULAR ELECTROLYTICS

SMALL SIZE, LOW VOLTAGE, HIGH CAPACITY

Type	Cap.	Working Volts	Size Inches	Net Price
TS101	10	25	1 3/4-3/4	\$0.30
TS102	20	25	2 1/4-3/4	.36
TS105	5	50	1 3/4-3/4	.30
TS106	10	50	2 1/4-3/4	.39
TN110	5-5	25	1 3/4-3/4	.45
TN111	10-10	25	2 1/4-3/4	.45
TN113	5-5	50	2 1/4-3/4	.45

METAL CAN BY-PASS UNITS



Type BN 225 Type BN 226

Working Volts, 50.	1" Dia. by 1 1/4" High.	
BN225	10-10	mf. \$0.57
BN226	10-10	mf. .60

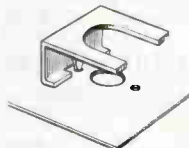


WET ELECTROLYTICS

Regulating Type. Self-Heating. More Capacity at Less Cost. Working Voltage, 475

WE 847	8 mf.	1 x 4 1/2	\$0.57
WE1247	12 mf.	1 3/4 x 4 1/2	.69
WE1647	16 mf.	1 3/4 x 4 1/2	.81
WE3540	35 mf.	1 1/2 x 4 1/2	1.05

(WE3540—400 volts.)



UNIVERSAL CONDENSER MOUNTING

To adapt screw can to double spade mounting.
No. 101—1. Net price \$0.06

NOTE: WE STOCK ALL YANLEY-MALLORY PARTS.



MICA RECEIVING CONDENSERS

Type 3

Size 1" x 5/8" x 1/4"

1,000 Volts D. C. Test
600 Volts D. C. Working



Mfd.	Price	Mfd.	Price
.00004	\$0.09	.001	\$0.15
.00005	.09	.002	.21
.0001	.09	.003	.24
.00015	.12	.004	.27
.00025	.12	.005	.33
.00037	.12	.006	.36
.0005	.12		

CORNELL-DUBILIER ABSOLUTE DUPLICATE PAPER CONDENSERS

ATWATER KENT

AK-201—For Model 37. By-pass No. 9494 3X.25...\$1.00

AK-204—For AK 37-38 condenser bank including filter and speaker chokes...\$2.70

AK-202—For AK-37, speaker filter condenser No. 9575, cap. .25 Mfd.....\$0.40

AK-203—For AK-84Q, capacity .1x.25 Mfd.....\$0.50

MAJESTIC

NOTE!
NEW LOW PRICES.
Don't buy job lot junk when you can get genuine Dubiliers at these low prices.
MC101 (PL1309) — For 7BP6—10. Mfd.....\$2.70

MFD.

MC102—For 7P6..... 9.	2.70
MC103 (PL1765)—For 8P6..... 9.	5.40
MC104 (PL1766)—For 9P6..... 7.	2.70

SPARTON

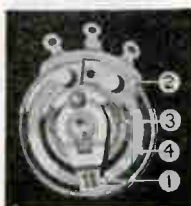
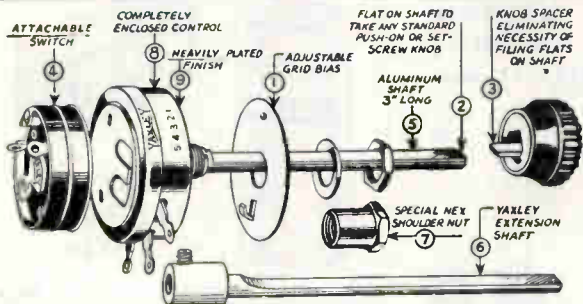
No. A5032—1. Mfd., 200 V...\$0.55
No. A5033—25 Mfd., 500 V... .50

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

YAXLEY

SILENT REPLACEMENT VOLUME CONTROLS



1. "The Roller That Does Not Roll."
2. Pure silver shortcuts!
3. Silver to silver contacts!
4. Perfect smooth taper!



FREE!
NEW EDITION
VOLUME 2
YAXLEY VOLUME CONTROL GUIDE

- ◆ High current-carrying capacity.
- ◆ Low humidity coefficient.
- ◆ Negligible voltage coefficient.
- ◆ Low temperature coefficient.

UNIVERSAL CONTROLS—SINGLE

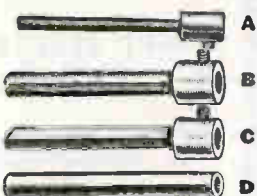
Catalog No.	Type	Ohms	Taper
Q	WW	2	IV
R	WW	6	IV
S	WW	10	IV
T	WW	20	IV
U	WW	30	IV
V	WW	60	IV
W	WW	100	IV
X	WW	200	IV
A	WW	500	I
B	WW	1M	I
C*	WW	2M	II
C12*	WW	2M	I
D*	WW	3M	II
D12*	WW	3M	I
E*	WW	5M	II
E7*	WW	5M	VII
E12	Carbon	5M	I
F*	WW	7,500	II
F7*	WW	7,500	VII
F12	Carbon	7,500	I
G*	WW	10M	II
G7*	WW	10M	VII
G12	Carbon	10M	I
H*	WW	15M	II
H7*	WW	15M	VII
H12	Carbon	15M	I
I	Carbon	20M	I
J	Carbon	25M	II
K	Carbon	50M	II
K12	Carbon	50M	I
Z	Carbon	75M	II
Z12	Carbon	75M	I
L	Carbon	100M	I
M	Carbon	250M	I
N	Carbon	500M	I
O	Carbon	1 Meg	I
P	Carbon	2 Meg	I
UC-500	WW	1M	II
UC-501	Carbon	10M	II
UC-502	Carbon	150M	I
UC-503	Carbon	750M	I
UC-504	Carbon	3 Meg	I
UC-505	Carbon	4 Meg	I
UC-506	Carbon	5 Meg	I
UC-507	Carbon	5 Meg	II
UC-508	Carbon	9 Meg	I
UC-509	Carbon	250 M	II
UC-510	Carbon	100M	II
UC-511†	Carbon	250M	I
UC-512†	Carbon	500M	I

*—Has exclusive Yaxley adjustable bias feature.
†—Has slotted shaft for automobile receivers.
WW—Wire Wound.
Net price. **\$0.60**
Each

ATTACHABLE SWITCHES

No.	Type	Price
6-9	S.P.S.T.	\$0.30
8	S.F.D.T.	.36
7	D.P.S.T.	.36

EXTENSION SHAFTS



Type A—Length 4 in.
RS-242— $\frac{1}{4}$ in. diam., $\frac{1}{32}$ in. flat.
RS-243— $\frac{1}{4}$ in. diam., $\frac{3}{32}$ in. flat.
RS-244— $\frac{3}{16}$ in. diam., $\frac{1}{64}$ in. flat.
Any size. Price, each. **\$0.18**

SPECIAL EXTENSION SHAFTS

Type B—2 in. long, $\frac{1}{4}$ in. diameter with $\frac{3}{32}$ -in. slot. Enclosed in tight-fitting tube (D).
RS-245—Price **\$0.21**
Type C—2 in. long, $\frac{1}{4}$ in. wide, $\frac{3}{32}$ in. thick. Tongue shaped and fitted with tube (D). For use in auto receivers.
RS-246—Price **\$0.21**



VOLUME CONTROL WRENCH

Repairs damaged threads. Tightens nuts in close quarters. Fits control bushings and nuts.
No. 178—Price **\$0.12**
Or sent free with an order for six Yaxley Controls.

UNIVERSAL "DUAL" CONTROLS

Catalog No.	Type	Ohms Front	Resistance Rear
CE	WW	2M	5M
GE (Formerly DRP-192)	WW	10M	5M
GG	WW	10M	10M
GK	Carbon	10M	50M
LL	Carbon	100M	100M
LM	Carbon	100M	250M
MM	Carbon	250M	250M
MN	Carbon	250M	500M
NN	Carbon	500M	500M

Net price. **\$1.50**
Each

UNIVERSAL "LINEAR" CONTROLS

Catalog No.	Type	Ohms	Taper
A400P	WW	400	Linear
A550P	WW	550	Linear
A1MP	WW	1M	Linear
A2MP*	WW	2M	Linear
A3MP*	WW	3M	Linear
A5MP*	WW	5M	Linear
A10MP*	WW	10M	Linear
Y10MP	Carbon	10M	Linear
A20MP*	WW	20M	Linear
Y25MP*	Carbon	25M	Linear
Y50MP*	Carbon	50M	Linear
Y100MP*	Carbon	100M	Linear
Y200MP*	Carbon	200M	Linear
Y250MP*	Carbon	250M	Linear
Y500MP*	Carbon	500M	Linear
Y1,000MP*	Carbon	1 Meg	Linear

*Has exclusive Yaxley adjustable bias feature.
WW—Wire Wound.
Net price. **\$0.60**
Each

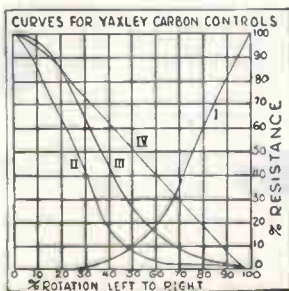
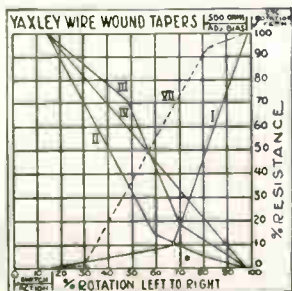
UNIVERSAL "TAPPED" CONTROLS

Catalog No.	Total Resistance	Tapped at Ohms
TRP 600	6M	2,500
TRP 601	30M	6,000
TRP 602	63M	8,000
TRP 603	250M	Center Tapped
TRP 604	350M	25,000
TRP 605	350M	75,000
TRP 606	500M	100,000
TRP 607	500M	Center Tapped
TRP 608	1 Meg	200,000
TRP 609	1 Meg	Center Tapped
TRP 610	1 Meg	20,000
TRP 611	1 Meg	170,000
TRP 612	2 Meg	25,000

Net price. **\$0.90**
Each

Prices do not include switch or accessories

NOTE: WE STOCK ALL YAXLEY-MALLORY PARTS.



New ELECTRAD CARBON VOLUME CONTROL

Carbon resistance element permanently fused to the flat outer rim of a strong Bakelite ring.

Long aluminum shaft easily sawed or filed to desired length. Saves time and labor.

Molded Bakelite case protects mechanism and resistance element from dust and moisture.

Body of control extends only 1 7/16" wide, when mounted. Case only 1 7/16" wide.

Mechanism provides 300-degrees of continuous rotation in a straight path.

Long bronze tension spring. Special-alloy floating contact travels end-wise without chattering.

Standard metal cover held by one screw. Instantly interchangeable with power switch assembly.

New-type power switch assembly (approved by underwriters) interchangeable with standard cover.

SMOOTH • • QUIET • • LONG-LIVED

VOLUME AND TONE CONTROL CIRCUITS



**New 1937
Electrad
100 Page
6 1/4 x 9 1/4
Volume
Control Guide
Free**

Contains a complete list in alphabetical order of receiver standard for which Electrad standard or special Replacement Volume Controls are made. The name of the manufacturer and the model number of the set are given with the proper Electrad Replacement Control. Resistance values and list prices are also stated. Ordering the control specified by this reference guide assures the use of the proper replacement unit in every case. Tear off flap of new Electrad Volume Control carton and mail to Electrad, Inc., 175 Varick St., New York City, and the manual will be sent to you by return mail.

FADER UNITS

Part No.	Circuit	Taper	Resist.
890	39	E	31,000
891	39	E	250,000
892	39	E	500,000
897W	39	E	400,000

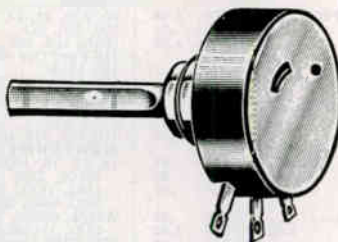
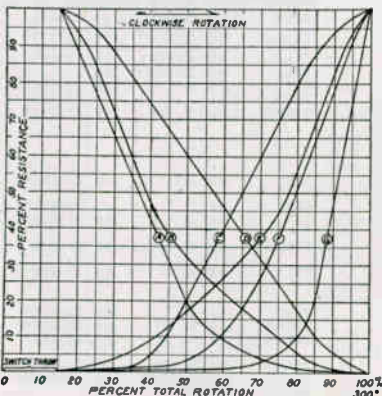
Net price, each, \$0.90

DUAL CONTROLS P. P. Grids

874T	E	200,000
893T	E	500,000
896T	E	250,000
	E	250,000

Net price, each, \$1.50

TAPER CHART



The Electrad BN Attenuators replace the Electrad Attenuator Type TN, LN and U. These new BN Attenuators have advantages of greater attenuation, true logarithmic attenuation and lower noise level. This attenuator involves a new principle in design which makes it possible to obtain a substantially constant impedance unit whose attenuation is linear in db. and continuously variable over the entire range.

NEW! NEW!

ELECTRAD

Carbon Volume Controls

Be Wise—Make It

★ ELECTRAD ★

On Your Next Order

New! Utilizes a perfected graphite resistance element baked at high temperature on a solid bakelite ring. Impervious to humidity. Self-wiping contact shoe. Smooth and quiet always. Molded bakelite case 1-7/16 in. in diameter, 1/4 in. thick with metal end cover and long 1/4 in. diameter shaft. All controls indicated with "W" are wire wound. All standard controls have insulated shafts.

NEW ELECTRAD STANDARD REPLACEMENT CONTROLS

Part No.	Used in Circuit No.	Taper	Total Resistance in Ohms
204W	-14	D	10
208W	-14	D	20
270W	-14	D	30
271W	-14, 23	D	50
272W	-14, 23	D	100
273W	-8, 23	D	200
274W	-8, 23	D	400
991W	-8, 23	D	500
282W	-8, 23	D	600
275W	-8, 23	D	800
276W	-8, 23	D	1,000
992W	-8, 15, 23	D	1,500
233W	-1, 4, 8, 15, 23	D	2,000
233W	-7, 8, 15	D	3,000
277W	-7, 8, 15, 23	D	4,000
234W	-7, 15, 23	D	5,000
278	-4, 7	E	5,000
993W	-4, 7	D	6,000
994W	-4, 7	D	7,500
560	-4, 7	E	7,500
283	-15, 23	D	10,000
995W	-15, 23	D	10,000
240	-7	C	10,000
573	-8	E	12,000
201	-1, 2, 3, 4, 5, 6, 7	C	15,000
279	-1	D	25,000
280	-21	E	25,000
241	-21	F	30,000
997	-8, 9, 21	B	40,000
206	-15	D	50,000
202	-8, 9	A	75,000
242	-12, 13, 18	E	100,000
281	-12, 18	D	200,000
998	-9, 18, 21, 36	A	250,000
208	-11, 12, 13, 18	E	250,000
203	-10, 11, 12, 13	E	500,000
894	-36	E	500,000

206 —12, 18 Tapped at 62,500 E 1,000,000
895 —36 E 1,000,000

999 —18, 21, 28, 32 Tapped at 125,000 E 2,000,000

All Electrad Standard Controls

Net price, \$0.60

SNAP-ON AC SWITCHES

New type of power switch which is attached by a single screw.
Single pole, single throw, No. 101...\$0.30
Single pole, double throw, No. 102... .36
Double pole, single throw, No. 103... .36
SPST (heavy current for auto receivers) No. 104... .36

NEW ATTENUATORS

TYPE BN
all values **\$1.80**

The attenuation is accomplished by means of an infinitely variable ladder net work. Total attenuation—60 db. Rating, 1 1/2 watts.

Type No.	Line Impedance in Ohms	Net Price
BN15	15	\$1.80
BN50	50	1.80
BN100	100	1.80
BN200	200	1.80
BN500	500	1.80
BN3000	3000	1.80
BN4000	4000	1.80
BN7000	7000	1.80
BN10000	10000	1.80

DEDUCT 2% FOR CASH WITH ORDER

BONN REPLACEMENT VOLUME

Main table with columns for Manufacturer and Set Models, Electrad, Yaxley, Centralab, and their respective No. and Net values. Includes various radio models and components.

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

CONTROL GUIDE... Electrad—Yaxley—Centralab

Table with columns: Manufacturer and Set Models, Electrad (No., Net), Yaxley (No., Net), Centralab (No., Net), Manufacturer and Set Models, Electrad (No., Net), Yaxley (No., Net), Centralab (No., Net). Includes sections for MOTOROLA, PHILCO, R. C. A. VICTOR, SEARS ROEBUCK, U. S. RADIO AND TEL., WESTINGHOUSE, ZENITH.

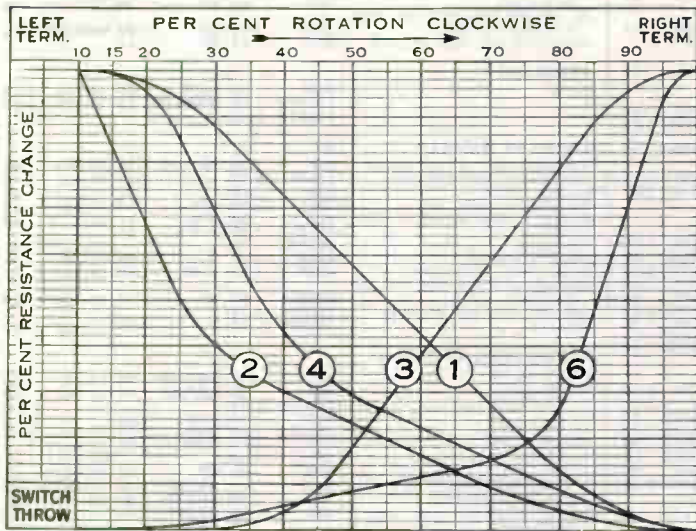
* Standard Control. AS and S indicate the use of a Switch Plate which is included in the price shown. N. B. The use of exact duplicate Volume Controls is recommended for best performance. If an * does not appear after the Part Number it is a special exact duplicate part.

DEDUCT 2% FOR CASH WITH ORDER

Centralab

CENTRAL RADIO LABORATORIES

Replacement Volume Controls



SELECTING THE PROPER VOLUME CONTROL

Curve form or taper of a variable resistance is more important to satisfactory control than its maximum resistance. Every Centralab control is made to a particular curve that is numbered and charted above. This chart indicates the per cent resistance change with rotation.

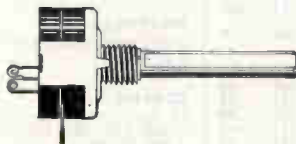
The ten heavy vertical lines represent every 10% the knob is rotated, the LEFT TERM. indicating the minimum volume end of rotation. The horizontal lines proportion the resistance change and divide equally whatever maximum resistance may be established for the curve.

Curves 1, 2 and 4 are illustrated as measured from the right terminal because they commonly carry a substantial amount of current from that end. Curves 3 and 6 are measured from the left terminal because they are principally used in shunt circuits where the taper from the left end is most important.

CENTRALAB MIDGET RADIOHM



\$0.60
Less Switch

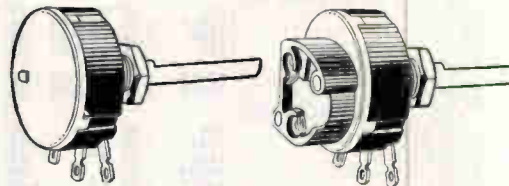


\$0.90
With Switch

Small diameter controls for auto radio or midget set replacements. Case diameter 1-3/64 in. Depth—less switch 25/64, with switch 23/32 in. Soft aluminum shaft 2 1/4 in. long milled 1/32 in. full length. Easily cut to length required. Due to type of construction, separate switches are not available.

Catalogue No.	Less Switch	With Switch	Usual Circuit Location	Resistance Ohms	Curve
N 100	P 100		Antenna, C-bias	10,000	3
N 101	P 101		Antenna, C-bias	25,000	3
N 102	P 102		Audio Grid or Tone	250,000	6
N 103	P 103		Audio Grid or Tone	500,000	6
N 104	P 104		Audio Grid or Tone	1 Meg.	6

STANDARD RADIOHMS



60c

Less Switch

90c

With Switch

Case diameter 1 3/8 in. Depth 9/16 in.

Shaft 2 1/4 in. long, milled flat. May be cut to exact length needed.

Catalog Number	Switch	Without Switch	With Switch	Usual Circuit Location	Resistance Ohms	Curve
72-118	62-118			Voltage Divider	500	1
72-107	62-107			Voltage Divider	1000	1
72-101	62-101			Voltage Divider	2000	1
72-108	62-108			Voltage Divider	3000	1
72-109	62-109			Voltage Divider	4000	1
72-110	62-110			Voltage Divider	4000	1
70-204	52-204			Antenna Shunt	5000	6
72-114	62-114			Antenna, C-bias	5000	6
72-113	62-113			Antenna, C-bias of One	10000	1
70-205	52-205			Antenna C-bias of Two	10000	3
72-100	62-100			Antenna Shunt	10000	4
72-115	62-115			Antenna, C-bias	10000	6
79-006	99-006			Antenna, C-bias	15000	3
72-119	62-119			Antenna, C-bias	15000	4
72-111	62-111			Voltage Divider	20000	3
70-206	52-206			C-bias	25000	1
72-102	62-102			Antenna Shunt	25000	3
72-103	62-103			Voltage Divider	50000	1
72-117	62-117			Tone Control	50000	6
72-123	62-123			Tone Control	75000	6
70-202	52-202			C-bias	75000	4
72-104	62-104			Voltage Divider	100000	1
72-122	62-122			Audio Grid or Tone	100000	6
72-120	62-120			Audio Grid or Tone	200000	1
72-131	62-131			C-bias	200000	4
72-121	62-121			Audio Grid or Tone	250000	6
72-105	62-105			Audio Grid or Tone	500000	6
72-106	62-106			Voltage Divider	500000	1
70-203	52-203			Series in R. F. Plate	500000	2
72-134	62-134			Tapped Audio Grid	500000	6
72-116	62-116			Audio Grid or Tone	1 Meg	6
72-135	62-135			Tapped Audio Grid	1 Meg	6
72-132	62-132			Audio Grid or Tone	3 Megs	6

SEPARATE RADIOHM SWITCH COVERS

Any plain Radiohm may be converted to the switch type by replacing the plain cover with this switch cover.



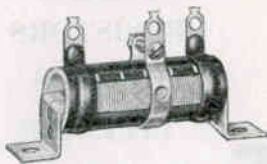
No. 10	Switch Cover, Single-pole—Single-throw	\$.30
No. 11	Switch Cover, Single-pole—Double-throw	.36
No. 12	Switch Cover, Double-pole—Single-throw	.36
No. 13	Switch Cover, Heavy Duty—Single-pole—Single-throw	.36

Ask for the
1937 VOLUME CONTROL GUIDE
FREE

DEDUCT 2% FOR CASH WITH ORDER

ELECTRAD

VARIOHM



VITREOUS ENAMELED ADJUSTABLE LUG RESISTORS

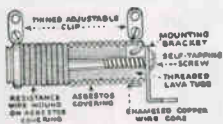
Monel metal end lugs are used to insure against weak connections with the resistance wire. The adjustable lug has been designed to provide long life without undue wear of the resistance wire. The ratings of Electrad Vitreous Resistors are based on a load in watts that will produce not more than 250° C. (450° F.) rise at the hottest point on a two-terminal resistor suspended in one foot free air. All tolerances ± 5%. ALSO AVAILABLE IN 200 WATTS.

5/8"x2 1/2" TUBE 25 Watts		5/8"x4 1/2" TUBE 50 Watts		5/8"x6 1/2" TUBE 80 Watts		1"x7" TUBE 100 Watts		1 1/4"x10 1/2" TUBE 200 Watts	
Ohms	Max. Cur.	Ohms	Max. Cur.	Ohms	Max. Cur.	Ohms	Max. Cur.	Ohms	Max. Cur.
5	2450	100	740	100	865	100	1000	500	632
10	1730	500	330	250	545	500	445	1000	447
25	1090	1000	234	500	387	1000	315	1500	365
100	545	1500	190	1000	270	3000	180	2500	316
500	245	2000	165	2000	223	5000	140	2500	283
1000	173	3000	141	3000	190	10000	100	3000	258
1500	141	5000	104	2500	173	15000	81	5000	200
2000	122	10000	74	5000	122	20000	70	10000	141
2500	109	15000	60	10000	86	25000	63	20000	100
5000	77	20000	50	15000	70	30000	57	25000	90
10000	54	25000	45	20000	61	40000	50	35000	75
15000	44	30000	43	30000	50	50000	44	50000	63
20000	38	40000	37	40000	43	60000	40	75000	51
25000	34	50000	34	50000	39	75000	36	100000	44
				100000	27	100000	17.3	150000	20

Net Prices		Net Prices		Net Prices		Net Prices	
5 to 5,000 ohms	\$0.51	100 to 5,000 ohms	\$0.81	100 to 5,000 ohms	\$1.05	100 to 10,000 ohms	\$1.80
6,000 to 15,000 ohms	.57	6,000 to 25,000 ohms	.90	6,000 to 25,000 ohms	1.20	10,000 to 100,000 ohms	2.10
17,500 to 25,000 ohms	.61	30,000 to 50,000 ohms	1.02	30,000 to 50,000 ohms	1.35	150,000 ohms	2.25
				60,000 to 100,000 ohms	1.50		

Type No. 3 EXTRA ADJUSTABLE LUGS—For 25, 50, 80-Watt Variohms Net price, each, \$0.06
 Type No. 4 EXTRA ADJUSTABLE LUGS—For 100-Watt Variohms Net price, each, .09
 Type No. 5 EXTRA ADJUSTABLE LUGS—For 200-Watt Variohms Net price, each, .09

TRUVOLT ADJUSTABLE RESISTORS



Truvolt patented construction offers greater radiating surface—cooler operation, a heat conducting copper core which insures more uniform heat distribution. Tolerance plus or minus 5%.

Net, all values.....\$0.30
 Extra sliders. Each......06

TYPE A

10 WATTS, 3/8"x1 3/4"

Type	Ohms	MA.	Volts
A-.02	.2	2200	4.5
A-.1	10	1000	10
A-.15	15	815	12
A-.25	25	630	16
A-.5	50	450	22
A-.75	75	360	27
A-1	100	315	31
A-3	300	180	55
A-5	500	141	70
A-10	1000	100	100
A-15	1500	81	122
A-20	2000	70	141
A-25	2500	63	158
A-30	3000	56	173
A-50	5000	45	222
A-100	10000	31	316
A-150	15000	26	388
A-250	25000	16	400

ELECTRAD PRECISION RESISTORS

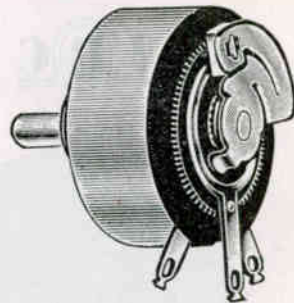
Page 84

NEW! TYPE BN ATTENUATOR

See page 27

ELECTRAD POWER RHEOSTATS

Vitreous enameled rheostats applicable as speed controls for small motors, temperature controls and general voltage and current regulators. Ruggedly designed and constructed for long life at rated current loads. The contact shoe, of special metal graphite composition, contacts the wire-wound element on the outside surface. This insures smooth, noiseless action and long life.

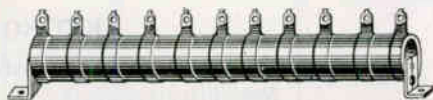


25-WATT RATING				50-WATT RATING				100-WATT RATING			
Ohm.	Amp.	Ohm.	Amp.	Ohm.	Amp.	Ohm.	Amp.	Ohm.	Amp.	Ohm.	Amp.
1	5.0	60	.64	5	10.0	40	1.1	1	10.0	60	1.29
1.5	4.0	80	.56	1.5	5.8	50	1.0	2	7.1	100	1.00
2	3.5	100	.50	2	5.0	75	.81	3	5.8	150	.81
3	2.9	150	.40	2.5	4.5	100	.70	4	4.1	200	.71
4	2.5	200	.35	3	4.1	150	.58	5	3.5	300	.58
5	2.0	300	.29	4	3.5	200	.50	6	3.2	400	.41
6	1.8	400	.25	5	3.1	300	.41	8	2.6	500	.36
10	1.2	600	.20	6	2.9	400	.31	10	2.2	750	.32
15	1.3	750	.18	8	2.5	500	.22	15	1.8	1000	.26
20	1.1	1000	.16	10	2.2	800	.25	20	1.5	1500	.26
30	.9	1500	.13	15	1.8	1000	.22	30	1.1		
40	.8	2000	.11	20	1.6						
				25	1.4						
				30	1.3						

Net Prices		Net Prices	
Up to 1 ohm	\$2.70	Up to 2 ohms	\$3.00
Above 1-750 ohms	2.40	Above 2-500 ohms	2.70
Above 750-2,000 ohms	2.70	Above 500-1,000 ohms	2.85

Net Prices	
Up to 3 ohms	\$4.50
Above 3-750 ohms	4.20
Above 750-1,500 ohms	4.50
Also available in 150-watt rating up to 2,000 ohms.	

UNIVERSAL 200-WATT 10-Section Vitreous Resistors



DEDUCT 2% FOR CASH WITH ORDER

1 1/4"x10 1/2"-IN. CERAMIC TUBE

Sizes 500, 1,000, 5,000 ohms.
 Net price, each.....\$2.10
 Sizes 10,000, 20,000, 30,000, 40,000 and 50,000 ohms.
 Net price, each.....\$2.40

NEW LOW PRICES! on

INSULATED

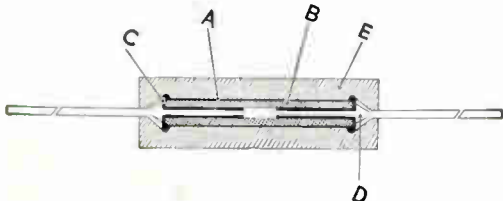
IRC Metallized

TYPE "BT" RESISTORS

The Outstanding Resistance Development in Years

NOW
2 WATT
RESISTORS
OF THIS
TYPE ARE
AVAILABLE

QUIET
DURABLE
MOISTURE-
PROOF
RELIABLE



- A. Conductive coating of measured resistance value.
- B. Glass tube.
- C. Positive contact permanently bonded to leads.
- D. Special alloy wire terminal.
- E. Molded insulating sheath.



- BT-1/2** Made in all popular sizes between 50 ohms and 10 megohms; 5/8 x 3/16 in. See listing for sizes carried in stock. **\$0.10**
- BT-1** All sizes between 50 ohms and 10 megohms as listed carried in stock 1 1/4 x 1/4 in. **.12**
- BT-2** All sizes from 450 ohms to 10 megohms carried in stock; 1 3/4 x 5/16 in. **.18**

THE **IRC** RESISTO-CHEST



Complete
\$6.72
Chest Only
\$0.90

Contains 56 BT 1 resistors in 8 drawers, 2 each of the most popular size, 1 watt resistors. Attractive and handy.

Just the Thing for Your Service Bench—Holds Several Hundred Resistors—Has Dozens of Other Uses.

STANDARD STOCK RANGES

Subject to the minimum and maximum values shown for each of the various types of Type "BT" Resistors.

50 ohms	1,625 ohms	12,000 ohms	90,000 ohms
100 ohms	1,750 ohms	12,500 ohms	0.1 meg.
150 ohms	1,875 ohms	15,000 ohms	0.125 meg.
200 ohms	2,000 ohms	17,500 ohms	0.15 meg.
250 ohms	2,250 ohms	20,000 ohms	0.2 meg.
300 ohms	2,500 ohms	22,500 ohms	0.25 meg.
350 ohms	2,750 ohms	25,000 ohms	0.3 meg.
400 ohms	3,000 ohms	27,500 ohms	0.4 meg.
450 ohms	3,250 ohms	30,000 ohms	0.5 meg.
500 ohms	3,500 ohms	32,500 ohms	0.6 meg.
600 ohms	4,000 ohms	35,000 ohms	0.75 meg.
700 ohms	4,500 ohms	40,000 ohms	1.0 meg.
750 ohms	5,000 ohms	45,000 ohms	1.5 meg.
800 ohms	6,000 ohms	50,000 ohms	2.0 meg.
900 ohms	7,000 ohms	55,000 ohms	3.0 meg.
1,000 ohms	7,500 ohms	60,000 ohms	4.0 meg.
1,125 ohms	8,000 ohms	65,000 ohms	5.0 meg.
1,250 ohms	9,000 ohms	70,000 ohms	6.0 meg.
1,375 ohms	10,000 ohms	75,000 ohms	7.0 meg.
1,500 ohms	11,000 ohms	80,000 ohms	10.0 meg.

IRC DUAL RESISTOR INDICATOR

Fuse Protected

\$2.70



Range from 100 to 100,000 ohms. Metal case, ball-bearing slide; tapered, insulated clips. Range may be extended by using series resistors. The handiest tool of all.

IRC BT1 ASSORTMENT

10—1 watt resistors of popular size. Net price. **\$1.20**
Assortment No. BT 1/2. 10 popular sizes of 1/2 watt resistors **\$1.00**



KIT NO. BT1—20

20—1 watt type BT resistors, of most popular sizes. Net price **\$2.35**

DEDUCT 2% FOR CASH WITH ORDER

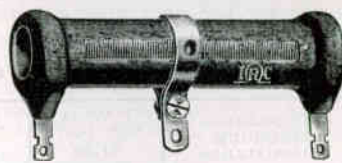
LOWER SURFACE TEMPERATURE • MOISTURE-PROOF • NON-POROUS CERAMIC CORE

IRC POWER WIRE WOUND RESISTORS

GREATER LOAD CAPACITY • LONGER LIFE • GREATER MECHANICAL STRENGTH



Built to stand overloads, intense heat, dampness—we'll guarantee these new IRC CEMENT COATED resistors as the finest Power Units you have ever tried. You will find them by far the coolest, longest-lived power wire wound resistors for every service replacement, amateur transmitting, experimental, broadcasting and industrial use.



**IRC
ADJUSTABLE
POWER
WIRE WOUND
RESISTORS**

TYPE PB
10 Watts—Fixed
Size 1 1/2" x 5/16"

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
1	3,160	1,125	100
2	2,210	1,250	95
3	1,830	1,375	87
5	1,420	1,500	83
7.5	1,160	1,750	75
10	1,000	2,000	71
15	820	2,250	67
20	720	2,500	63
25	640	2,750	60
30	580	3,000	57
40	500	3,500	53
50	440	4,000	50
60	400	4,500	47
75	360	5,000	45
80	340	6,000	41
90	325	7,000	37
100	315	7,500	36
150	260	8,000	35
200	220	8,500	34
250	200	9,000	33
300	175	10,000	31
350	169	11,000	30
400	157	12,000	28
450	148	12,500	28
500	140	15,000	25
600	125	17,500	23
750	115	20,000	22
800	112	22,500	21
900	108	25,000	20

List Price—All Sizes Each \$0.24

TYPE PC
20 Watts—Fixed
Size 2" x 9/16"

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
1	4,400	2,250	94
5	2,000	2,400	91
10	1,415	2,500	89
25	895	2,750	85
50	633	3,000	81
75	517	3,500	75
100	447	4,000	70
150	365	4,500	66
200	316	5,000	63
250	282	6,000	57
300	258	7,000	53
350	238	7,500	51
400	224	8,000	50
500	200	9,000	46
750	163	10,000	43
800	158	11,000	41
950	153	12,000	40
1,000	141	12,500	39
1,200	129	15,000	35
1,250	126	20,000	30
1,500	115	25,000	28
1,750	107	30,000	25
1,850	104	35,000	23
2,000	100	40,000	22
		50,000	20

List Price
1 to 1,500 ohms.....\$0.39
17,500 to 50,000 ohms..... .45

TYPE PXA
25 Watts—Adjustable
2 1/2" long by 9/16" diameter

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
1	5,000	500	224
5	2,200	750	182
10	1,580	1,000	158
25	1,000	1,250	141
50	719	1,500	129
75	575	2,000	112
100	500	2,500	100
150	409	3,000	90
250	320	4,000	79
400	250	5,000	71

Extra bands. List\$0.12
List\$0.50
List\$0.57
List\$0.65

TYPE PEA
50 Watts—Adjustable
4 1/2" x 3/4"

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
10	2,230	1,000	215
50	1,000	1,500	175
750	700	2,500	135
500	440	4,000	105
750	250	5,000	95

Extra bands. List.....\$0.06
List\$0.80
List\$0.90
List\$1.00
List\$1.20

TYPE PG
100 Watts—Fixed
6 1/2" long by 1 1/2" diameter
Mounting Brackets included

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
100	1,000	1,500	250
250	632	2,000	220
500	447	2,500	200
750	385	3,000	180
1,000	315	5,000	140
1,250	280		

List\$0.90
List\$1.05
List\$1.20
List\$1.33
List\$1.50

TYPE PJ
200 Watts—Fixed
10 1/2" long by 1 1/2" diameter
Mounting Brackets included

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
100	1,414	2,000	316
250	894	2,500	283
500	632	3,000	258
750	515	5,000	200
1,000	447	7,500	163
1,500	365	10,000	141

List\$1.50
List\$1.80

TYPE PGA
100 Watts—Adjustable
6 1/2" x 1 1/2"

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
500	447	2,500	200
1,000	315	3,000	180
1,500	250	4,000	155
2,000	220	5,000	140

Extra bands. List.....\$0.09
List\$1.20
List\$1.35
List\$1.80
List\$1.65

TYPE PJA
200 Watts—Adjustable
10 1/2" x 1 1/2"

Range Ohm	Max. Current m. a.	Range Ohm	Max. Current m. a.
500	632	2,500	283
1,000	447	3,000	258
1,500	365	5,000	200
2,000	316	10,000	141

Extra bands. List.....\$0.09
List\$1.80
List\$2.10



WW-2 (2-15/16 x 1/2 in.)
Carried only in ranges over 1/2 meg.

Meg.	Net Price
0.6	\$2.55
0.75	2.70
0.9	2.85
1.0	3.15
1.5	4.50
2.0	6.00
2.5	7.50



PRECISION WIRE WOUND RESISTORS



WW-4 (1x9/16 in.)

Resistance Value Ohms	Net Price	Resistance Value Ohms	Net Price
0.1*	\$.61	12,500	.66
0.5*	.51	15,000	.66
10	.51	20,000	.81
25	.51	22,500	.81
50	.51	25,000	.81
100	.51	30,000	.81
200	.51	40,000	.81
250	.51	50,000	.81
300	.51	60,000	.96
500	.51	75,000	.96
1,000	.54	0.1	1.11
1,500	.54	0.125	1.20
2,000	.54	0.15	1.41
2,500	.54	0.175*	1.41
4,500	.60	0.2*	1.41
5,000	.60	0.225*	1.56
7,500	.60	0.25*	1.56
10,000	.60	0.3*	1.71

WW-4 (1x9/16 in.)
Resistance Value Ohms Net Price
0.4* 1.80
0.5* 2.04

For list prices of odd ranges not shown, use same price as given for next higher size.

NORMAL TOLERANCE OF IRC PRECISION WIRE WOUND RESISTORS IS 1%. CLOSER TOLERANCES MAY BE OBTAINED AT SLIGHT INCREASE IN REGULAR PRICES AS FOLLOWS: for 1/2% tolerance add 10%; for 1/4% add 15%; for 1/10% add 25%.

DEDUCT 2% FOR CASH WITH ORDER

Centralab Controls for Sound Projection

CONSTANT RESISTANCE ATTENUATORS

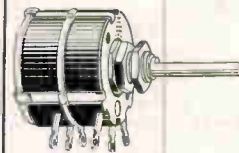
"T" Pad, Fader and 10 watt "L" Pad in dust tight bakelite case illustrated at right. Size 3 1/2 x 1 1/4 inches deep. Single or three-hole mounting. 1 watt "L" Pad in bakelite case illustrated below. Size 1 1/4 x 7/8 inches. 25 watt "L" Pad all wire wound with open assembly for heat dissipation. Use Dial Plate No. K110 for 1 watt "L" Pads. Use Dial Plate No. K112 for all others.



"T" Pad

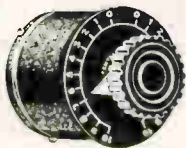
Order by Line Impedance

Impedance Matching Resistance	1 Watt "L" Pad \$1.50 Part No.	4 Watt "L" Pad \$2.40 Part No.	10 Watt "L" Pad \$3.00 Part No.	25 Watt "L" Pad \$3.00 Part No.	"T" Pad \$4.20 Part No.	C. I. Fader \$4.80 Part No.
10,000 Ohms	74-544	96-003	.....	.....	.....	.....
5,000 Ohms	74-543	96-002	94-006	.....	93-008	83-006
1,500 Ohms	.....	.....	.....	.....	93-001	83-002
500 Ohms	.....	96-007	94-005	.....	93-002	83-003
200 Ohms	.....	96-006	94-004	.....	93-003	83-004
100 Ohms	.....	.....	94-003	.....	93-004	.....
50 Ohms	.....	96-005	94-002	47-209	93-005	83-005
15 Ohms	.....	96-001	94-001	47-208	93-006	.....



1 Watt "L" Pad

Series II Sound Controls



New controls of the finest type for input circuits in broadcast stations, public address systems, and recording apparatus of new or old design. Will prove faultless in the most critical service.

Centralab Series II Controls have all resistors of the non-inductive carbon type specially tapered for constant impedance. Attenuation is continuously variable and practically straight line for 46 decibels at all frequencies up to 16,000 cycles. Long life is insured by the patented Centralab non-rubbing contact. This contact NEVER REQUIRES CLEANING. Centralab controls remain noiseless and accurate through years of service.

Electrostatic and electromagnetic shielding provided by a black finished steel case. Bakelite screw type terminal strip on back of case. All resistance elements insulated from shaft and bushing. Single hole mounting. Mounting bushing 3/8 inch long with two locknuts and lockwashers. Case diameter 2 1/4 inches. Depth back of panel "T" Pad, 2 3/8 inches; Gain Control, 1 1/2 inches. Maximum load dissipation, 1 watt. For detailed information, write for technical booklet.

3-inch black dial calibrated in silver and large pointer knob furnished with control.

Dial Plates and Knobs



Series II

Attenuator Part No.	Use with Fader	Price
K109—Dial.	All Series I controls except 1	.....
K110—Dial.	1 watt "L" pad	\$.30
K111—Knob.	All Series I controls	.15
K112—Dial.	Series II "T" and "L" pad attenuators, gain control	.56
K113—Dial.	Series II "T" pad fader, straight fader	.56
K114—Knob.	All Series II controls	.56

These dials are attractive in appearance and calibrated to match C.R.L. controls in rotation.

	Line Impedance	Resistance	Resistance Each Side of Center	Part Number	Price
"T" PAD ATTENUATOR	500 Ohms	Constant Impedance to Both Input and Output		7-010-852	\$ 7.50
	200 Ohms			7-010-851	7.50
	50 Ohms			7-010-850	7.50
"T" PAD FADER	500 Ohms	Two Constant Impedance Legs on Both Sides		7-210-852	\$11.25
	200 Ohms			7-210-851	11.25
	50 Ohms			7-210-850	11.25
"L" PAD ATTENUATOR	500 Ohms	Constant Impedance to One Side Only		4-010-852	\$ 3.75
	200 Ohms			4-010-851	3.75
	50 Ohms			4-010-850	3.75
GAIN CONTROL	Attenuation 50 Decibels for Each Control	250M Ohms	-----	1-010-852	\$ 3.00
		500M Ohms	-----	1-010-851	3.00
		1 Megohm	-----	1-010-850	3.00
STRAIGHT FADER	For Crystal or High Impedance Pickups	500,000	-----	1-210-852	\$ 3.75
		100,000	-----	1-210-851	3.75
		50,000	-----	1-210-850	3.75



Head Phone Modu Plug

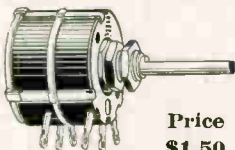
Price \$1.50

An attractive small bakelite case and knob housing a variable resistance and clips for attaching head phones. Potentiometer connection to control volume while maintaining constant resistance in the line. Especially adapted to deaf installations in schools, churches, etc., or in hospitals where multiple head sets are used.

Cord type is similar, but a 30-inch long phone cord replaces the stem.

Cord type 302-029	5,000 ohms
Cord type 302-028	10,000 ohms
Cord type 302-030	20,000 ohms

Twin Replacement Controls



74-601—Back base	.....	25,000 ohms
Shaft base	.....	10,000 ohms
74-602—Back base	.....	50,000 ohms
Shaft base	.....	10,000 ohms

DUAL GRID VOLUME CONTROL

Price	4010805—Both bases	....	100,000 ohms
	4010807—Both bases	....	250,000 ohms
\$1.50	4010804—Both bases	....	500,000 ohms

FREE—Centralab Manual—FREE Series II Sound Projection Controls

If interested in these controls, ask for this 15-page booklet with your next order to Lew Bonn Co. It gives complete information on the New Series II Sound Projection Controls, showing construction, application and many hints of value to you. Complete details.



CARBON RESISTORS



We guarantee these resistors to be the finest made, in every respect. They are much more accurate and will carry two to three times heavier load than ordinary carbon resistors. Every resistor has its resistance value plainly marked on it in addition to carrying the regular R. M. A. Color Code.

CRL—1½ Watt Resistor, ¼x1¼ In. Each.....\$0.12
 We carry every size you may want from 50 ohms to 50 megs (we stock 112 different values). Order by writing Centralab and then the resistance value you desire—per example CRL 50,000 will mean one of these resistors in 50,000 ohms.

Service Resistor Assortments—10 Assorted Resistors—1 each: 500,000, 200,000, 100,000, 50,000, 25,000, 10,000, 5,000, 2,000, 1,000, 500.....\$1.20

20 Assorted Resistors—Has above values and 1 each 2 meg, 1 meg, 750,000, 150,000, 40,000, 25,000, 20,000, 15,000, 8,000 and 300.....\$2.40



REPLACEMENT LINE BALLASTS

Replace Duresite Tubes, Amperites and other types of line ballasts—last much longer.

Each **\$1.15**

(Except No. 2000 and 2200)

Manufacturer	Ballast Type No.
Belmont	2518
Bremer-Tully	
S-81, S-82	6412
S-83, S-84	2169
25 cycles	2518
Brunswick S-14; S-21; S-31	6412
25 cycles	2518
Clarion—51; 53; 55	2408
Erla	5400
Grebe	
SK-4 105 Volts	6310
SK-4 133 Volts	6420
SK-4 115 Volts	6412
HS-5 125 Volts	0600
M-3-4 115 Volts	0500
HS-12 115 Volts	0500
HS-6 115 Volts	0500
HS-4 125 Volts	0710
M 1-2 115 Volts	0608
HS 8 Single Pent	0608
Hammariund Roberts	
HIQ 30	2179
HIQ 31	2408
Kennedy	
426, 526, 626, 726, 826, 632, 1030..	6412



Manufacturer	Ballast Type No.
Klyectron	
K-71, K-72	6310
Majestic, 60 cycles	
70-71 Power Pack 7P6, 1928	1516
Power Pack 7BP6, 1929	1508
180-181 Power Pack 8P6	1012
90-91-92-100	1210
Majestic, 25 cycles	
181-8-P3	1000
70-7-B-P-3	1422
90-9-P-3	1024
Peerless 71, 72	6310
Roger Majestic	
400, 50 cycles	2832
400, 25 cycles	2734
480, 490	2734
Scott A. C. 10	2179
Silver-Marshall	
30B, 30, 60B, 60, 75B, 75, 95 Highboy	2179
Sonora	
A30, A32, A40	2179
A36, A44, A46	4210
Stewart Warner	
900	5001
950	5002
R-100	5003
United Reproducer	
21, 22, 23, 24, 25	6310
UV876 Tube	2200†
UV886 Tube	2000†
NOTE †: Mogul Base, Double Length Case—Net price...	\$2.50

CENTER-TAPPED RESISTORS ELECTRAD

Flat Type—Illustrated.
 Size ½"x½"x1¼" Type EF
 Round Type

Size 1½"x½"—2" leads. Type ER fully protected with a moisture-proof enamel. Values imprinted and color coded stock resistance values—10, 15, 20, 30, 50, 75, 100, 200 ohms.

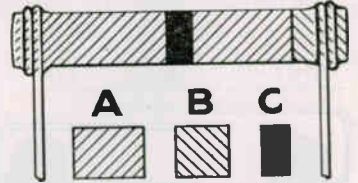


Both types. Each\$0.15

R. M. A. STANDARD RESISTOR COLOR CODE

The body color (A) represents the first figure of the resistance value. One end (B) is colored to represent the second figure value. A band, or dot, (C) of color, represents the number of ciphers (0) following the first two figures.

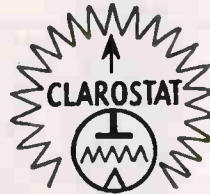
Fig. Color	Fig. Color
0 Black	5 Green
1 Brown	6 Blue
2 Red	7 Violet
3 Orange	8 Grey
4 Yellow	9 White



EXAMPLES OF COLOR CODE

	A	B	C		A	B	C
250 ohms.....	Red	Green	Brown	12,000 ohms....	Brown	Red	Orange
1,000 ohms....	Brown	Black	Red	25,000 ohms....	Red	Green	Orange
3,500 ohms....	Orange	Green	Red	250,000 ohms....	Red	Green	Yellow
10,000 ohms....	Brown	Black	Orange	1.5 Megohms....	Brown	Green	Green

CLAROSTAT



The leading line of power control devices. Line voltage controls, line ballasts, heavy duty variable resistors.

AUTOMATIC LINE VOLTAGE REGULATORS

All types..... **\$0.57**



Type No.	Rating Watts	For Use with Sets Consuming
O	50	Up to 60 Watts
A	100	60 to 100 Watts
B	150	100 to 150 Watts
C	200	150 to 200 Watts
D	250	200 to 250 Watts
E*	100	60 to 100 Watts

NOTE*: For use with 220-volt receivers.

CLAROSTATS

To Reduce 220 Volts to 110 Volts

Milliampere Drain of Set	Line Voltage	Voltage Drop	Resistor Type No.
300 - 340	220	110	7724
350 - 390	220	110	7720
400 - 440	220	110	7626
450 - 500	220	110	7622

All types, \$1.25

WIRT VOLTAGE REGULATOR

No. 211—Variable voltage control for 6 tube sets or less.....\$0.95
 No. 211B—Variable voltage control. 150 watt. For all 7 tube and larger sets.....\$1.80

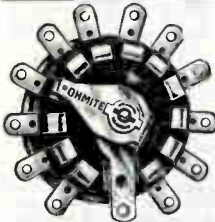


DEDUCT 2% FOR CASH WITH ORDER

Brown Devil Resistors Rheostats

O H M I T E

Tap Switches Short Wave Chokes



ALL-PORCELAIN HEAVY DUTY TAP SWITCHES

Has many uses including switching taped transformer circuits, as a control of high voltage therapeutic equipment, to control radio transmitters, to change a transmitter over quickly from phone to key, etc. Vitreous enamel coated, contact shoe is special low resistance silver. Diameter of units up to eight are 2 3/4 in. Nine to twelve point units are 3 1/2 in.

NON-SHORTING TYPE		
No. Contacts	No. List	Price
T504-4	\$2.85
T506-6	3.15
T508-8	3.45
T10010-10	4.95
T10012-12	5.25

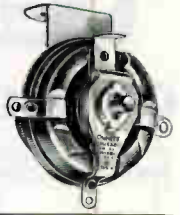
SHORTING TYPE		
No. Contacts	No. List	Price
T504S-4	\$2.85
T506S-6	2.85
T508S-8	3.15
T10010S-10	4.65
T10012S-12	4.95

HANDBOOK Pages 458-459 CATALOG SECTION Send for the enlarged OHMITE AMATEUR HANDBOOK. Useful, interesting, clear. Helpful charts and tables. 10 cents.



TRANSMITTING BAND-SWITCHES

The modern way. Can be used in all stages, making possible complete front-of-panel control. May be used in amplifier and output circuits up to 1 K. W. rating. Made of porcelain, vitreous enamel and metal. Brackets and knob furnished. Two or more switches may be ganged. Has 1/4-in. shaft. No. T-503.....\$1.80



O H M I T E "WIREWATT" 1 Watt Wire Wound (Resistors)

Noiseless in operation. No voltage characteristic. Negligible inductive effects. Net Price \$0.15



STOCK VALUES

Ohms	Max. Current Mills.	Max. Volts Across Unit	Ohms	Max. Current Mills.	Max. Volts Across Unit
100	100	10	2,250	21	46
125	89	11	2,500	19	50
150	81	12	3,000	18	54
200	70	14	3,500	16	56
250	63	15	4,000	15	60
300	57	17	4,500	14	63
350	53	18	5,000	14	70
400	50	20	6,000	12	72
500	44	22	7,000	11	77
600	40	24	7,500	11	82
700	37	26	8,000	11	88
750	36	27	9,000	10	90
800	35	28	10,000	10	100
900	33	29	12,500	9	110
1,000	31	31	15,000	8	120
1,100	30	33	16,000	7	112
1,200	28	33	17,500	7	122
1,250	28	35	18,000	7	126
1,500	25	37	20,000	7	140
1,750	23	40	22,500	6	135
2,000	22	44	25,000	6	150



"BROWN DEVIL" VITREOUS RESISTORS

Brown Devil resistors are made in both 10-watt and 20-watt sizes. They have a real vitreous enamel coating instead of the high temperature cement used on the Red Devils. Brown Devil resistors should be used where there is excessive moisture; they should not be used at more than their rated wattages.

STOCK VALUES 10 Watt Size			
Ohms	Max. Cur. Milli-amps.	Ohms	Max. Cur. Milli-amps.
1	3,150	1,000	100
2	2,230	1,100	95
3	1,825	1,200	91
4	1,580	1,250	89
5	1,415	1,500	79
7.5	1,155	1,750	74
10	1,000	2,000	69
12	910	2,250	64
15	815	2,500	61
20	707	3,000	56
25	630	3,500	51
30	575	4,000	47
35	535	4,500	44
40	500	5,000	40
50	447	6,000	36
75	365	7,000	33
100	315	7,500	32
125	283	8,000	31
150	258	10,000	24
200	223	12,000	20
250	200	12,500	20
300	182	14,300	18
350	169	15,000	18
400	158	16,000	17
500	141	17,500	17
600	129	18,000	16
700	119	20,000	15
750	115	22,500	15
800	111	25,000	14
900	105		

Size 1 1/4 x 1/2 in.
10-watt. \$0.24
All sizes

STOCK VALUES 20 Watt Size			
Ohms	Max. Cur. Milli-amps.	Ohms	Max. Cur. Milli-amps.
5	2,000	3,000	81
10	1,415	3,500	75
25	895	4,000	70
50	633	4,500	66
75	517	5,000	63
100	448	6,000	57
150	365	7,000	53
200	316	7,500	51
250	283	8,000	50
300	258	10,000	43
350	239	12,500	39
400	223	15,000	34
500	200	20,000	27
650	175	25,000	25
700	169	30,000	21
750	163	35,000	18
800	158	40,000	17
850	153	45,000	13
1,000	141	50,000	11
1,200	129	55,000	11
1,250	126	60,000	10
1,500	115	65,000	10
1,750	107	70,000	9
1,850	101	75,000	9
2,000	100	80,000	8
2,250	94	85,000	7
2,400	91	90,000	6.5
2,500	89	95,000	6
2,750	85	100,000	6

Size 2 x 1/2 in.
20-watt.
5 M. to 15 M. ohms...\$0.39
20 M. to 50 M. ohms... .45
55 M. to 100 M. ohms... .60

CENTER-TAPPED FILAMENT RESISTORS

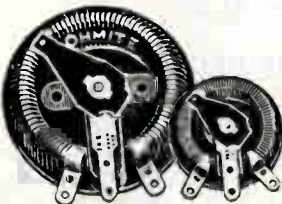
Filament Voltage	Total Resistance	Type Resistor	Net Price
2.5	20 ohms	WIREWATT	\$.21
*2.5	20 ohms	BROWN DEVIL	.30
5.0	25 ohms	WIREWATT	.21
6.3	50 ohms	WIREWATT	.21
7.5	50 ohms	BROWN DEVIL	.30
10.0	100 ohms	BROWN DEVIL	.30

HIGH FREQUENCY CHOKES



In construction of these units copper wire is wound over a porcelain core and the ends fastened to terminal lugs and tinned wire leads. The winding is protected against contact with other live parts and against corrosion. No. OC-1—5/16x1 1/4-inch choke, resistance .85 ohms, 5.4 microhenries, 1,000 M.A. For use on 5 and 10 meter bands. Price\$0.15 No. OC-2—9/16x2-inch choke, .35 microhenries, 1,000 M.A., resistance 2 ohms. For use on 10 and 20 meter bands. Price\$0.45 No. OC-3—9/16x4-inch choke, .95 microhenries, 1,000 M.A., resistance 5 ohms. For use on 20 and 40 meter bands. Price\$0.65 No. OC-4—1/2 x 5-inch choke, .220 microhenries, 1,000 M.A., resistance 9 ohms. For use on 20, 40, 80 or 160 meter bands. Price\$0.90

O H M I T E ALL-PORCELAIN RHEOSTAT-POTENTIOMETERS



FILAMENT TRANSFORMER PRIMARY RHEOSTATS

Secondary Volt-Amperes	Rheostat Resistance	Ohmite Cat. No.	Watts	Max. Current Milliamps.	Net Price
5 to 7	500 ohms	0156	25	222	\$2.40
7 to 10	350 ohms	0155	25	267	2.40
10 to 14	250 ohms	0154	25	315	2.40
14 to 19	175 ohms	0153	25	375	2.40
19 to 24	125 ohms	0152	25	445	2.40
24 to 32	100 ohms	0151	25	500	2.40
32 to 48	75 ohms	0150	25	575	2.40
48 to 68	50 ohms	0149	25	709	2.40
68 to 107	35 ohms	0317	50	1,150	2.70
107 to 147	22 ohms	0316	50	1,500	2.70
147 to 200	16 ohms	0447	100	2,500	4.20
200 to 250	10 ohms	0446	100	3,150	4.20

For information on other sizes write for new Ohmite Catalog.

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

DIALS CROWE NAME PLATES

RADIO COMPONENTS

CROWE MICROMASTER DIAL



Finest receiver dial made. Has adjustable planetary drive which may be loosened or tightened to provide exactly the proper condenser drag. Auxiliary pointer and positive gear drive affords exact repeat indication of wave length. Stations closely crowded may be accurately logged. Two-speed drive, slow speed 45 to 1, fast speed 9 to 1 in 360 degrees. Bronze escutcheon with "Croglass" non-inflammable convex crystal eliminates breakage. I. D. of escutcheon 3 3/4 in. Translucent pyralin scale with universal 4 channels graduated in kilocycles and megacycles. Pointers and knobs move in same direction. For 3/4 inch condenser shaft. Furnished complete with double knob and dual pilot lightbracket.

No. 301L—Condenser closes left.
No. 301R—Condenser closes right. Each **\$3.10**

CROWE AIRPLANE DIAL

I. D. of escutcheon 3 3/4 inches. Wedge drive with geared connection to the pointer. Ratio 7 to 1 in 180°. Pointer travels 268°. Bronze escutcheon. Ivory translucent dial, one pilot bracket included. An all-wave dial—4 channels. No. 159L—Condenser closes left. No. 159R—Cond. closes right. **\$1.90**



CROWE AIRPLANE DIAL

2 1/2 inches across face inside escutcheon. Friction disc drive. Ratio 7 1/2 to 1 in 180°. Includes pilot lite sockets. Bronze escutcheon. Black translucent dial. Convex glass. Two channels. An attractive dial. No. 166L—Condenser closes left. No. 166R—Condenser closes right. Each **\$1.50**



CROWE AIRPLANE DIAL

Friction disc drive. Ratio 9 to 1 in 180°. I. D. of escutcheon 2 1/2 in. Bronze escutcheon. Ivory translucent dial with four channel markings. Convex "Croglass" dial. Includes pilot lite sockets. No. 183L—Condenser closes left. No. 183R—Condenser closes right. Each **\$1.20**



AIRPLANE DIAL

2 1/2-inch black with white graduations Pyralin dial. Bronze escutcheon. Convex glass. Ratio 1% to 1, 180°. Friction drive. No. 125—Right or left close. **\$1.20**



MICROMASTER DIAL

Similar in construction to No. 301 dial, described above. Bronze escutcheon; 3 3/4 in. inside diameter, pilot lite brackets included. No. 316R—Condenser closes right. No. 316L—Condenser closes left. Each **\$3.25**

LINE CORD RESISTORS

FOR AC—DC RADIO SETS.

OHMITE

Replacement for Voltage Resistor Cords in AC-DC sets. Cord has built-in resistor as third wire for reducing line voltage to the correct value for the tube filaments.



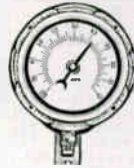
STOCK VALUES

Stock No.	Total Voltage Drop in Filaments	Resistance of Cordohm
LC-1	18.0 to 24.0	330 ohms
LC-2	25.0 to 31.5	290 ohms
LC-3	45.0 to 55.5	220 ohms
LC-4	56.5 to 63.9	160 ohms
LC-5	69.0 to 75.2	135 ohms
LC-6	53.0 to 61.0	180 ohms

Net price, all types, each \$0.33

AIRPLANE DIAL

I.D. of Escutcheon, 2 3/4 in.



Ratio 7 to 1. Pyralin scale with peach with brown graduations. Bronze escutcheon. No. 123L—Condenser closes left. No. 123R—Condenser closes right. Each **\$1.80**

AIRPLANE DIAL

I.D. of Escutcheon, 2 1/2 in.



Ratio 4 to 1. Pyralin scale with black and white graduations. Oxidized silver escutcheon. No. 124L—Condenser closes left. No. 124R—Condenser closes right. Each **\$1.45**

REPLACEMENT FAN DIAL

O.D. of Dial, 3 3/4 in.



Ratio 6 to 1. Fan pyralin scale. No escutcheon. Wedge drive. No. 46L—100-0. No. 46R—0-100. Each **\$0.72**

O.D. of dial 3 in. Ratio 4 to 1. Shadow scale. Wedge drive. No escutcheon. Similar in appearance to No. 46. No. 83L—Condenser closes left. No. 83R—Condenser closes right. Each **\$0.63**

DIAL PLATES AND NAME PLATES BLACK WITH SILVER MARKINGS

Rectangular plates Calibrated 0 to 10 in 300°



No. C565—Record	.....	\$0.12
No. C566—Microphone	.....	.12
No. C570—"Master Gain"	.....	.12
No. C571—Plain	.....	.12
No. C276—"Gain"	.....	.12
No. C277—"Tone"	.....	.12

ROUND PLATES 1 1/8-IN. DIAMETER

No. 262—180°. Plain; etched brass	.....	\$0.21
No. C263—270°. Plain; etched brass	.....	.21
No. C264—270°. Gain; etched brass	.....	.24
No. C27—180°. Oscillator; cond-aluminum	.....	.07
No. C28—180°. Detector; cond-aluminum	.....	.07
No. C569—180°. Plain aluminum	.....	.07
No. C25—Arrow. Volume. Aluminum	.....	.07
No. C28—Off-On. Beat Osc. Aluminum	.....	.07
No. C26—Tone. Aluminum	.....	.07
No. C560—Off-On. AVC. Aluminum	.....	.07
No. C563—3-2-1. Band Swith. Aluminum	.....	.07
No. C562—Send-Rec. Stand-by. Aluminum	.....	.07
No. C572—Pitch control. Aluminum	.....	.07



OFF-ON PLATES

Aluminum and black.



C278. C273. Each **\$0.06**

CROWE CHANGE-O-NAME PLATES

No. C542-A—Anodized dial calibrated 0 to 100 in 180°—2 1/2 in. diameter. Can be made to read: Amplifier, antenna, buffer, detector, doubler grid, neutralize, oscillator, plate and one space to "write your own." Each **\$0.36**

No. C542-B—Same as above but reads: Buffer grid, buffer plate, crystal osc, crystal osc. plate, doubler grid, power amp. plate, power amp. grid, tripler grid, Tritet osc and one "write your own" space. Each **\$0.36**

No. C541-A—Calibrated 0 to 100 in 270°, 1 1/2 in. diameter. Reads: Fader, gain, selectivity, tone, volume and "write your own" space. Each **\$0.21**

No. C541A—Same except reads: Master volume, micro, 1, micro, 2, radio volume, record volume and "write your own." Each **\$0.21**

No. C540-A—Calibrated 0 to 100 in 180°; 1 1/2 in. diameter. Reads: Amplifier, antenna, crystal, detector, oscillator, "write your own." Each **\$0.21**

No. 543-A—Calibrated 0 to 100 in 270°; 2 1/2 in. diameter. Reads: Fader, gain, master volume, micro, 1, micro, 2, radio volume, record volume, tone, volume, "write your own." Each **\$0.36**



DEDUCT 2% FOR CASH WITH ORDER

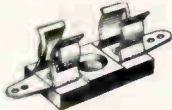
FUSES



3AG Type—Size 1 1/4 x 1/4 in. 1, 2, 3, 5, 10, 20 amperes. Each.....\$0.05
Box of 5......15
1AG Type—Size 5/8 x 1/4 in. 1, 2, 3 amperes. Each.....\$0.05
Box of 5......15
1AG Type—1/4 ampere. Each......10
Box of 5......25

FUSE MOUNTINGS

Single and Double



No. 103—Single, for 3AG. Each.....\$0.09
No. 127—Double, for 3AG. Each......15



Auto Radio Fuse Retainer

No. 1070—Takes 3AG fuse. Used in "A" and "B." Each.....\$0.08



Auto Radio Antenna Coupler

No. 1071—Also a handy item for radio repair shops. Each.....\$0.06



No. E-272 — Set screw type. Height 37/64-inch. Depth of hole, 7/16-inch. Black or walnut. List price, each 12c Net price, each 8c
No. E-271 — Set screw type. Height, 33/64-inch. Depth of hole, 13/32-inch. Black or walnut. List price, each 10c Net price, each 6c

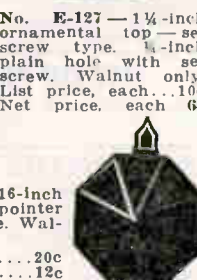
No. E-148 — Set screw type with projecting pointer. List price, ea. 10c Net price, each 6c

No. E-148M — Set screw type without pointer. Height, 25/64-inch. Depth of hole, 19/64-inch. Black or walnut. List price, ea. 10c Net price, each 6c

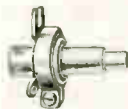


No. E-127 — 1 1/4-inch ornamental top—set screw type. 1/4-inch plain hole with set screw. Walnut only. List price, each...10c Net price, each 6c

No. E-146 — 1-1/16-inch octagon pyramid pointer top—set screw type. Walnut only. List price, each.....20c Net price, each.....12c



NO. 599—TWO-SPEED CROWE PLANETARY UNIT



Used as auxiliary speed reducer on many types of controls. Mounts on condenser, on back of panel with shaft projecting through panel, on face of panel, or on the knob shaft of many dials. Slow ratio about 7 to 1 and fast ratio 1 to 1. Can be used as single speed unit with one knob or as two-speed unit with pair of knobs. No. 599—Planetary unit only. Net price, each.....\$0.90 One-third actual size.

DUPLICATION DRIVE BELTS AND CABLES

AK36—Set of 3.....	\$0.24
AK42—Set of 3.....	.24
AK44—Set of 3.....	.24
AK60-61—Set of 3.....	.24
AK35-37—Set of 2.....	.15
AK40—Set of 2.....	.15
AK46—Set of 2.....	.15
AK52-53—Set of 2.....	.15
AK56—Set of 2.....	.15
Bosch—28, 29, voltage control.....	.15
Bosch—28, 29, tuning.....	.25
Bremer-Tully—14, 21, 31.....	.15
Brunswick—S14, 21, 31.....	.15
Brunswick—15, 22, front.....	.24
Brunswick—15, 22, rear.....	.24
Crosley—40S, 804.....	.18
Crosley—601, 602.....	.21
Crosley—120.....	.18
General Motors—"A".....	.24
Majestic—70, 71, 72.....	.12
Nine for \$1.00	
Majestic—15B.....	.24
Philco—65. Set of 2.....	.36
Philco—71.....	.15
Philco—91, 14.....	.15
Philco—111, 112, 112A.....	.15
Philco—76, 86, 87, 95. Set of 2.....	.36
Philco—96.....	.15
RCA—16, 17, 18.....	.18
RCA—80, 82, 86.....	.21
RCA—42, 48.....	.21
Silver Marshall—726.....	.18
SM726SW—Belts. Set of 2.....	.24
SM30. 32. 30A. 36A.....	.33

AMPERITE

Replacement Regulators for 2-Volt Battery Sets

Set Name	Set Model	Amperite Part No.
Silvertone 326, 242, 65		30 (1A2)*
1576, 1712, 1713, 1714		31 (1B2)*
223X, 224X, 266, 267		31 (1B2)*
1710, 1711		52 (1C2)*
331		1B1
334, 324		1F1
359		1F1
345		1G1
Air Line 91		10AB
77, 95		6AA
Bosch 042		5E1 (1A1)*
Erla 660		5F1 (1A1)*
7700		6-1 (1J1)*
Philco 34-A		7H1 (1C1)*
Sentinel 7700		6-1 (1J1)*
Sparks 81, 82		5E1 (1A1)*
With'grton		2H1 (1D1)*

*New RMA numbers.
Price each.....\$0.95

FUSE CLIPS

For Littelfuses and 3AG type. Best grade phosphor bronze. Spring will not lose tension. No. 54—3 for.....\$0.05

NEW STYLE BAR KNOBS

Made of black bakelite. Fits any 1/4-inch shaft. Nos. 587 and 588 are very attractive modern design.
No. 587 — 2 1/4-inch black bakelite bar knob. Net price, each 12c
No. 588 — 1 1/4-inch black bakelite bar knob. Net price, each 9c
No. 286 — 1 1/4-inch black bakelite bar knob. Net price, each 8c
No. 285 — 2 1/4-inch black bakelite bar knob. Net price, each 9c
No. E-17—1-inch dia., with set screw filled arrow. Black only. List price, each.....12c Net price, each.....8c
No. E-18—1/4-inch dia., with set screw filled arrow. Black only. List price, each.....15c Net price, each.....9c



INSULATED GROMMETS

1/4-inch hole, 7/16-inch diameter. Made in rd. green, blue, and yellow. No. 162—Net price, each 6c



DRUM DIAL CABLE, BANDS AND BELTS



No. 1 Cable—Best grade made. 42-strand phosphor bronze. Price per foot.....\$0.05
Price per 25 feet......75
Price per 100 feet.....2.50

LINEN CORD DRIVE CABLE

Very high grade. Breaking strength, 200 pounds per foot. Per foot.....\$0.06
Per 25 feet......95
Per 100-foot spool.....3.00

PHOSPHOR BRONZE BELTING

3/16 in. wide by .005 in. thick. Per foot.....\$0.08
Per 25 feet.....1.50

PILOT LITES
Genuine Mazda

3.2-volt. Box of 10.....\$0.75
6.3-volt. Box of 10......75
2.5-volt. Box of 10......60
Less than box, each......10
2.0-volt. Box of 10.....1.20
Less than box, each......15
Pilot Lites. Single lots, each......10
110-volt Pilot Lites for Victor. Each......30



No. E-259—Set screw type. Height, 7/16-inch. Depth of hole, 5/16-inch. Black or walnut. List price, each...10c Net price, each 6c
No. E-260—Set screw type with projecting pointer. Height, 7/16-inch; depth of hole, 5/16-inch. Black or walnut. List price, each...12c Net price, each 8c



No. E-110 — 1 1/4-inch 2-tone knob—no skirt—set screw type. List price, ea. 14c Net price, each 9c
No. E-123—1-inch, 2-tone knob—no skirt—set screw type. 1/4-inch plain hole with set screw. Two-tone walnut only. List price, ea. 12c Net price, each 8c



No. E-132—1-1/16-inch octagon pyramid top—set screw type. 1/4-inch plain hole with set screw. Walnut only. List price, each.....14c Net price, each.....9c



No. E-282—Set screw type. Height, 3/4-inch; diameter, 29/32-inch. Black or walnut. List price, each...10c Net price, each 6c

CONDENSER CUSHION

Used to eliminate acoustic feedback.

No. 501—Four for.....10c



SOLDER



KESTER SOLDER ROSIN CORE

1-lb. spool \$0.60
5-lb. spool 2.75

KESTER ROSIN CORE



4-oz. handy spool. \$0.15

KESTER ACID CORE

1-lb. spool \$0.56
5-lb. spool 2.75

KESTER ALUMINUM SOLDER

Flux-filled. Instructions with each spool.
Handy size spool. \$0.17
1-lb. spool 1.80



KESTER SOLDERING PASTE

2-oz. can \$0.12

KESTER TRICHLORON SOLDERING SALTS

1-lb. can \$0.50
5-lb. pail 1.75

FRICTION TAPE

Highest Quality. Fresh Stock
4-oz. roll; 3/8 in. width \$0.10
8-oz. roll; 3/8 in. width 0.17

RUBBER SPLICING TAPE

8-oz. roll; 3/8 in. width \$0.30

MENCHEN'S AUTO RADIO LOCK

Entirely new kind of lock. Impossible to smash or break it. Can be installed in a minute—only a wrench needed. The lock slips over the base of one of the bolts holding the radio to the car. A good sales item for all car radio sales agencies. Absolutely guaranteed.
No. MRL \$0.95



SCOTCH TAPE

A new kind of tape having high insulating properties and will not corrode. Formerly available only to manufacturers, this new tape now comes in a 1/2-in. by 10-yard roll at a price which enables every radio man to try it. Include a roll with your order. Net cost, only \$0.30



CLIPS



No. 45—Pee Wee Clip; length 1 1/2 in., jaw spread 1/2 in.; Cadmium plated. Each \$0.05
Box of 10 30
No. 48B—10 amp. clip; length 2 in.; jaw spread 9/16 in.; Cadmium plated. Each \$0.05
Box of 10 35
No. 24A—25 amp.; length 2 1/2 in.; jaw spread 1 in.; lead coated. Each \$0.09
Box of 10 65
No. 21A—50 amp.; length 3 1/4 in.; jaw spread 1 1/4 in.; lead coated. Each \$0.14
Box of 10 1.20

RUBBER INSULATORS

For use with above clips



Protects against electrical shocks. Furnished red and black.

No.	Clip No.	Each	Lot of 10
47	45 Pee Wee	\$0.07	\$0.50
49	48B	.09	.60
26	24A	.15	1.40
23	21A	.21	2.10
87	85	.05	.35

SPECIAL SOLID COPPER RADIO FREQ. CLIPS



No. 46-0S—10 amp. clip; phosphor bronze spring; brass screw; length 1 1/2 in.; jaw spread 3/8 in. Each \$0.09
No. 27C—10 amp.; spring and screw same; length 2 1/4 in.; jaw spread 1/2 in. Each \$0.14



ALLIGATOR TEST CLIPS

No. 45AT—New type test clip, ideal for getting into tight places. Each \$0.04 Ten for \$0.32
No. 85—Mueller Alligator Clip—double spring action. Each—List \$0.06
See insulated alligator clips, etc., in hardware section.

MIDGET KNIFE SWITCHES

Bakelite



No. 2223—S. P. S. T., 1 1/4 x 1/4 ins... \$0.12
No. 2224—S. P. D. T., 1 1/4 x 1/2 ins... .18
No. 2225—D. P. D. T., 1 1/4 x 1 ins... .30

PORCELAIN KNIFE SWITCHES Small Size



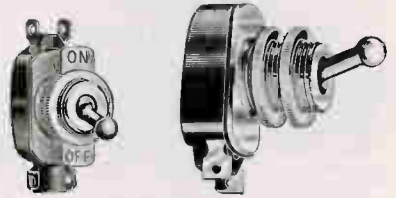
No. 235—S. P. S. T. \$0.18
No. 236—S. P. D. T.21
No. 237—D. P. S. T.24
No. 238—D. P. D. T.36
No. 239—Triple P. D. T.54

SEE SOLDERING IRONS ON PAGE 87

SEE TERMINAL STRIPS AND TIE POINTS ON PAGES 40-85

SEE HARDWARE ON PAGES 90-91

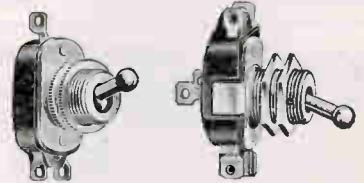
SWITCHES



CARLING TOGGLES

Very Good Quality. All Rated at 6 Amps., 125 Volts

No. SS100—Single pole, single throw. Long or short shank. Each \$0.17
No. SD200—Single pole, double throw. Long shank only. Ea. \$0.25
No. DS300—Double pole, single throw. Long shank only. Ea. \$0.28
No. DD400—Double pole, double throw. Long shank only. Ea. \$0.40



Long shank 3/4 in. Short shank 1/2 in.

HART HEGEMAN TOGGLES

Best quality obtainable. All rated at 6 amps., 125 volts.

No. HH1—S. P. S. T. Long or short shank. Each \$0.25
No. HH2—S. P. D. T. Long shank only. Each \$0.30
No. HH3—D. P. S. T. Long shank only. Each \$0.35
No. HH4—D. P. D. T. Long shank only. Each \$0.45



ROTARY SWITCH

3 amps. Rating
1-in. shaft.

No. 499—Single pole, single throw. \$0.24
No. 1071—Single pole, double throw .30

ROTARY CANOPY SWITCH

Used in Bridge Lamps, Floor Lamps; 3 amp. 125 volts.

No. C102—3/16 in. stem to .015 \$0.09
No. C102B—5/16 in. stem to .125 \$0.09



G. E. ROTARY AC SWITCH

Regular rotary "ON" and "OFF" switch, 3 amp. 125 V. Underwriter approved; 8-in. insulated leads; shaft 1/2 in. long.
No. SGE-99—Each, with knob \$0.09
Ten for \$0.85

SNAP-ON KNOB

Special knob for above switch. Polished black bakelite, push-on type; 1 1/2 in. diameter. Each \$0.04
Ten for \$0.35

DEDUCT 2% FOR CASH WITH ORDER

Sockets - Shields - Binding Posts

AMPHENOL SOCKETS



The most perfect contacts and sturdiest constructed. Made of molded bakelite. Held to chassis with locking ring of spring steel. Mount in 1-5/32 in. hole—large size 7 prong and 7 comb. in 1-5/16 in. hole. Locking ring included.

Type S—In 4, 5, 6, 7 small and 7 large prongs. Each\$0.66
Ten for55
Type S—In 7 small and 7 large combination and 8 octal. Each.....\$0.98

AMPHENOL ADAPTER PLATE



The type S sockets can be had as illustrated at right with steel plate. Slotted mounting hole centers from 1 1/2 to 2 in.
Type RS—In 4, 5, 6, 7 small and 7 large. Each\$0.07
Ten for65
Type RS—In 7 small and 7 large combination and 8 octal. Each.....\$0.09

TUBE SHIELD BASE



Made 1-19/32 in. for standard tube shields. Fits under amphenol sockets and chassis plugs. Each\$0.02

"Above chassis" type socket. Mount with one screw if desired.



No. ACS—In 4-prong to 7-prong. Each....\$0.07
8-prong octal. Ea. .09



Bakelite prong plug—fits chassis or any Amphenol accessory. May be had in 4 to 7 prongs, inclusive. Price each.....\$0.06 1/2

TUBE SHIELDS



No. 392—For new Dome type tubes, 3-piece ventilated aluminum, 1-27/32 in. mounting centers. Each\$0.09
10 for \$0.85
No. 392A—Same in 1 1/4 in. mounting centers. Each\$0.10
No. 292—For old type, large round top tubes, 1-27/32 in. only. Each\$0.10



GLOVE-TITE TUBE SHIELDS

No. ST-12 fits 57, 58, 2A7 and similar tubes. Each \$0.07
No. ST-14 fits 24A, 35, etc. Each \$0.07
These shields come in two pieces, complete with all hardware.

COIL SHIELDS

ALUMINUM



With detachable base which makes it possible to lift the shield off the base.
No. 1539—2 1/2 x 3 in. high \$0.15
No. 1540—2 1/2 x 3 1/2 in. high .18

AMPHENOL STEATITE SOCKETS



One of the strongest sockets made. Low-loss socket diameter 1 1/4 inches; mounting centers slotted 1 1/2 in. to 2 in.

Type RSS—In 4, 5, 6 and 7s. Each..\$0.24
Type RSS—In 7L and 8 octal. Each .30

INSULEX WAFER SOCKET

A low-loss socket, especially desirable for use in transmitters. Sturdily built, real contacts.



No. 2600—4-prong\$0.24
No. 2601—5-prong24
No. 2602—6-prong27
No. 2603—7-prong, large30
No. 2604—7-prong, small30
No. 2605—8-prong, octal33

INSULEX BASE BOARD SOCKET



A real socket for H. F. work and Transmitters. Insulex is a white colored ceramic material, glazed finish.

No. 290—4-prong\$0.30
No. 291—5-prong30
No. 292—6-prong33
No. 294—7S and 7L combination.... .33
No. 300—8 octal36

WAFER TYPE SUB-PANEL SOCKETS



Tight grip, long-lasting contacts. Standard Size

1-27/32 in. Mounting Holes
Type L—In 4, 5, 6, 7 small and 7 large prongs. Each\$0.07
Ten for60

Midget Size
1 1/2 in. Mounting Holes
Type M—In 4, 5 and 6 prongs....\$0.06
Ten for55
In 7 small and 8 octal..... .09

EBY SOCKETS

TYPE 12

Molded Bakelite Sockets



Connections from below or above sub-panel. 1-11/16 in. mounting centers

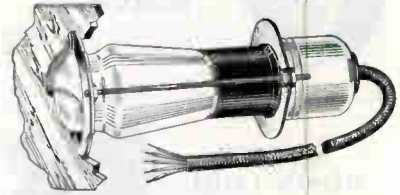
Each 5 for
No. E124—4 prongs\$0.18 \$0.80
No. E125—5 prongs18 .80
No. E126—6 prongs22 1.00
No. E127SL—Comb. large and small 7 prongs..... .22 1.00
No. E127C5-6—Comb. 5 and 6 prongs22 1.00
No. E128—8 octal27 ...

TYPE 8

Molded Bakelite Socket. Sub-panel Connections. 1-11/16 in. Mounting Centers.

Each 5 for
No. E84—4 prongs\$0.12 \$0.55
No. E85—5 prongs15 .70
No. E86—6 prongs15 .70
No. E87S—7 prongs, small.... .15 .70
No. E87L—7 prongs, large.... .15 .70
No. E88—8 prongs18 ...

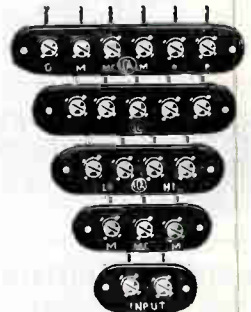
MAGIC EYE SOCKET ASSEMBLY



All instructions and necessary mounting hardware furnished. Connect to sets now having automatic volume control. Another chance to sell something extra. Uses 6ES or 2E5.
No. MEA-6. Your cost.....\$0.75

ICA TERMINAL STRIPS

ICA Terminal Strips are specially adapted for amplifiers, mixing panels, radio sets, short-wave radio sets and other uses. Made of black heavy bakelite with specially designed nickel plated phosphor bronze screw terminals with non-removable collars.



No.	Description	Net
2420—	2 Terminal Strip. No Mark- ing	\$0.09
2414—	3 Terminal Strip	.12
2413—	4 Terminal Strip	.18
2405—	5 Terminal Strip	.21
2404—	6 Terminal Strip	.24
2412—	7 Terminal Strip	.30
2410—	8 Terminal Strip	.36
2424—	9 Terminal Strip	.42
2422—	10 Terminal Strip	.48

Centers Between Terminals 5/8 In. Apart

TWIN AND TRIPLE POSTS



No. 21S—Ant. Gnd. \$0.21
No. 21T—L. Ant. S.
Ant. Gnd.27

MOULDED TWIN JACK



Plain—No Marking.
No. 17—Net each. \$0.15

LAMINATED JACKS

Plain—No Marking.
No. 18—Twin Jack. Each\$0.06
No. 18T—Triple Jack. Each.... .09



BINDING POSTS



Famous Eby "Junior" bakelite binding post. Each \$0.10
Eby "Sergeant" brass binding post. Each\$0.15



DEDUCT 2% FOR CASH WITH ORDER

MICROPHONE FITTINGS - ADAPTERS

CABLE AND MIKE CONNECTORS

Bronze contacts moulded in bakelite. Standard threads, 1/8"-27, can be fitted into microphone housings or stands.

MC3F
MC4F



Net, Each
No. MC3M—3-prong (male)....\$0.60
No. MC4M—4-prong (male).... .66
No. MC3F—3-contact (female).. .60
No. MC4F—4-contact (female).. .66



CHASSIS CONNECTOR

SC3F
SC4F



Net, Each
(Requires 13/16-inch hole)
No. PC3F—3-contact (female)....\$0.30
No. PC4F—4-contact (female).. .33
No. PC4M—4-contact (male).... .33

MC3M
MC4M



MIKE STAND CONNECTOR

(Use CSR Cable Strain Relief)
No. SC3E—3-contact (female) Net, each....\$0.60
No. SC4E—4-contact (female) Net, each.... .60

MICROPHONE SHOCK ABSORBER

Made of polished chrome plated brass with para gum rubber cushion. Will improve performance of any microphone.
No. MSA3—7/16-inch hole for wire. Net, each \$0.60



SIDE CABLE OUTLET

For use where it is undesirable to run cord down through stand. Will hold cable firmly so that it cannot be pulled loose from microphone elements.

No. SCO3—Outlet. Net, each.....\$0.45

CABLE STRAIN RELIEF



A dependable gadget to prevent sudden jerking from pulling mike cable loose from its connections.

No. CSR3—Strain relief. Net, each.....\$0.15



OCTAL CONNECTORS

(Cord Type)

Of same general construction as above connectors but permitting use of up to 8-wire cable.

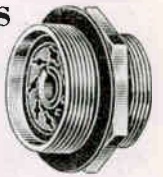
Net, Each
No. 08M—Male connector.....\$0.75
No. 08F—Female connector.... .75



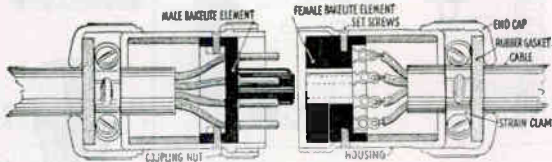
OCTAL CHASSIS CONNECTORS

(Require 1-7/36-inch hole)

Net, Each
No. PO8M—Male connector. Net, each.....\$0.36
No. PO8F—Female connector. Net, each.....\$0.36



Cut Away View OCTAL CORD CONNECTOR



AMPHENOL CABLE CONNECTORS



Strong amphenol plugs and sockets housed in steel caps.

Unbreakable.

No.	Male. Net	Prongs	No.	Female. Net
PM4	\$0.15	4	PF4	\$0.15
PM5	.15	5	PF5	.15
PM6	.15	6	PF6	.15
PM7S	.15	7S	PF7S	.15

MICROPHONE PLUGS AND JACKS



Net, Each

No. 1057—3-way plug, bakelite....\$0.45
No. 284—3-way plug, shielded.... .63
No. 230—2-way plug, bakelite..... .24
No. 283—2-way plug, shielded.... .45
No. 1058—3-way jack, panel mount. .30
No. 1059—3-way connector, bakelite .39
No. 283—3 way connector, shielded .57

NOTE: 3-way connectors can be used with 2-way plugs.

MICROPHONE STAND ADAPTERS



These adapters will fit any stand having a 1/4-in. thread so that any type of microphone can be used.

No. B756—1/4 pipe to 5/8-27. Net \$0.15
No. B756—1/4 pipe to 1/2 pipe. Net .15
No. B757—1/4 pipe to 3/8 pipe. Net .15
No. B758—1/4 pipe to 1/2 pipe. Net .15

MODEL FJ600 SWIVEL JOINT

For universal tilting of crystal mike stands. Net price, each.....\$0.24

Speaker Plugs



HEAVY DUTY RUBBER PLUGS

Handle is durable rubber 1 1/4 in. long. Plugs are of Bakelite.

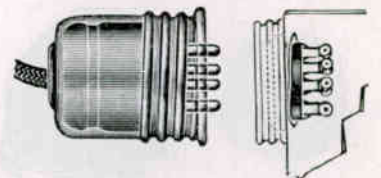
No.	Male. Net	Prongs	No.	Female. Net
104RS	\$0.12	4	99A4	\$0.12
106RS	.12	5	99A5	.12
106RS	.12	6	99A6	.15
107RSA	.12	7S	99A7S	.15
107RS	.12	7L	99A7L	.15

EASY-GRIP BAKELITE SPEAKER PLUGS



No.	Male. Net	Prongs	No.	Female. Net
984	\$0.18	4	984F	\$0.24
985	.18	5	985F	.24
986	.18	6	986F	.24
987S	.18	7S	987SF	.24
987L	.18	7L	987LF	.24
988	.30	8	988F	.36

CABLE CONNECTOR COVERS



A threaded steel shell consisting of a male and female section. These shells are slipped over the regular cable connectors and serve to lock the two sections together.

No. C-CAB—2 pieces. Per pair....\$0.15

CHASSIS TYPE COVERS

Consist of CAB shell and threaded chassis ring. Excellent to lock cable plug to amplifier chassis.

No. C-CHA—Shell and ring. Each \$0.15

DEDUCT 2% FOR CASH WITH ORDER

Snapit "Underwriters Approved" Electrical Items



BAKELITE TWIN SOCKETS
Angle type.
No. 1500.....\$0.08



Offset type.
No. 1502.....\$0.08

BAKELITE 3-WAY TAPS

Straight current tap without control.

No. 1501—Net price.....\$0.08



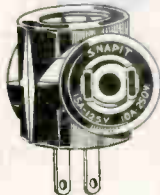
PULL CHAIN TAP

With control of bottom outlet.

No. 1505—Net price....\$0.18



BAKELITE 3-WAY CUBE TAP



No. 60—Net, each.....\$0.06

BAKELITE 3-WAY SERVICE TAP

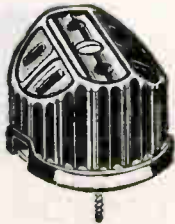


No. 67—Net, each.....\$0.06

BAKELITE CONVENIENCE OUTLETS



Single.
No. 50.....\$0.09



Double.
No. 250.....\$0.12

FUSED CUBE TAP

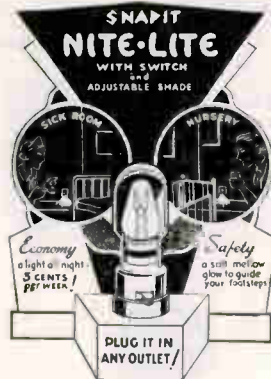
Overloads or shorts will blow fuses in the tap and protect the house line. Equipped with two standard fuses.

No. 788.....\$0.22
Fused Handle Cap.
No. 789.....\$0.22



SNAPIT "NITE-LITES"

With switch and adjustable shade.

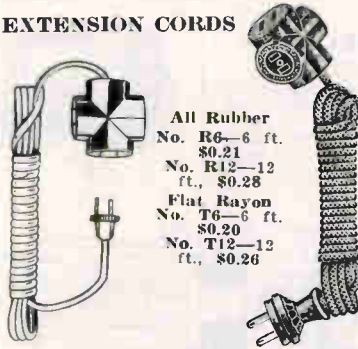


Retails at \$0.25

No. 2100—With lamp...\$0.18
No. 2255—Ten Nite-Lites and counter display.....\$1.70



EXTENSION CORDS



All Rubber
No. R6—6 ft. \$0.21
No. R12—12 ft., \$0.28
Flat Rayon
No. T6—6 ft. \$0.20
No. T12—12 ft., \$0.26

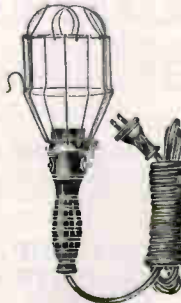
20-FOOT HEAVY DUTY ALL-RUBBER CORD SET



No. WR20 \$0.54 each

RUBBER TROUBLE LAMP

With Switch
No. 504—15 ft.....\$0.65
No. 506—20 ft......75
No. 508—25 ft......85
Without Switch
No. 504N—15 ft.....\$0.55
No. 506N—20 ft......65
No. 508N—25 ft......75
Heavy duty.



ATTACHMENT CAPS



No. 350—Bakelite.
\$0.03



No. 370—Rubber.
\$0.04

BAKELITE CAP AND BASE



No. 475—Cap.....\$0.02
No. 460—Base......03

BRASS SHELL SOCKETS



No. 2201—Key socket.....\$0.10



No. 2207—Chain socket.....\$0.13

BAKELITE APPLIANCE PLUGS



1,000 watts
No. 323P—No switch.
\$0.07



No. 13P—With switch.
\$0.17

APPLIANCE CORDS



6-foot rayon cord, 1,000 watts capacity.
No. 423P—No switch.....\$0.23
No. 23P—With switch......31

EAGLE ELECTRIC DESK LAMP

Flexible arm, 12-in. goose-neck, heavy cast-iron base, large size reflector with turn-knob socket.
No. 395—Net.....\$0.98



"O. K." FUSES

As illustrated, you can see at a glance when a fuse is "shot." Sizes 10, 15, 20, 30 amps.
Box of five.....\$0.18



DEDUCT 2% FOR CASH WITH ORDER

Electrical Specialties and Equipment

SWITCHES—RECEPTACLES

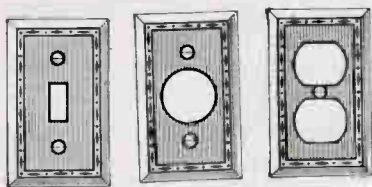


TOGGLE SWITCH
No. 211—
Ea. ...\$0.10

SINGLE RECEPTACLE
No. 204—
Ea. ...\$0.06

DUPLEX RECEPTACLE
No. 203—
Ea. ...\$0.07

BAKELITE COVER PLATES



TOGGLE PLATE
No. 101—
Ea. ...\$0.05

SINGLE PLATE
No. 104—
Ea. ...\$0.06

DUPLEX PLATE
No. 103—
Ea. ...\$0.05

RADIO WALL OUTLETS



One Outlet Polarized

No. 4504B—Brown bak. duplex radio outlet complete with wall plate, box divider and radio cap\$0.79

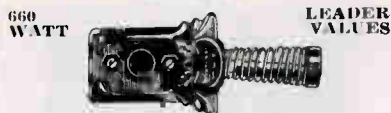
No. 4504I—Same in Ivory89

No. 4505B—Brown bak. triplex radio outlet complete with wall plate, box divider, radio cap and two attachment plug caps\$1.05

No. 4505I—Same in Ivory 1.35

APPLIANCE PLUGS

(Unapproved)



660 WATT LEADER VALUES

No. 313—Without switch\$0.05

No. 713—With switch10

VALUE PLUS

(Unapproved)



No. 433—660 watt, 6-ft. cord. Each. net\$0.12

SOCKET AND PLUG

The handiest and neatest way to connect A.C. to a receiver or transmitter!



The socket countersinks into appliance with a nicked mounting ring flush. The plug is connected to A.C. cord and plugs right into the socket.

No. HHS-100—Socket\$0.30

No. RHP-101—Plug15

WEST BEND

Aluminum Electric GLOW LAMPS



Satin finish—9 inches high—shade tilts to any angle. Very attractive—nice for that desk in the "Ham Shack."

No. 472—Blue enamel trim. Net\$1.05

No. 4470—Copper finish. Net\$1.05

SURFACE AND FEED-THRU SWITCHES

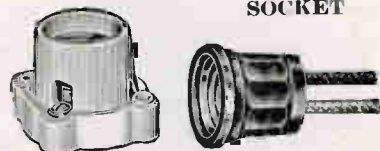


SURFACE TOGGLE
No. 200—Ea. \$0.10

FEED-THRU SWITCH
No. 30—Ea. ...\$0.12

CLEAR RECEPTACLE

WEATHER-PROOF SOCKET



BAKELITE
No. 2150—
Each\$0.06

BAKELITE
No. 76—
Each\$0.07

CEILING RECEPTACLES



PORCELAIN

Without pull-chain switch.
No. 2133—
Each\$0.10

With pull-chain switch.
No. 2110A—
Each\$0.16

HEATING ELEMENTS



No. 2418—Iron element.
Each\$0.20

No. 2417—Heater element.
Each\$0.17

SNAPIT COMBINATION OUTLETS, SWITCHES AND PILOT LITES



The Perfect Answer to a Properly Wired Test Bench

Double Outlet and Cover Plate.
No. 105—Net, each\$0.16

Switch-Receptacle and Cover Plate.
No. 106—Net, each\$0.31

Switch-Pilot Lite and Cover Plate.
No. 107—Net, each\$0.54

Receptacle-Pilot Light and Plate.
No. 108—Net, each\$0.50

DEDUCT 2% FOR CASH WITH ORDER

BELDEN-Aerial-Hook-up-Electrical-WIRES

PLAIN AND ENAMELED ANTENNA WIRE



Guaranteed Full Lengths Full Sizes

PLAIN

100 ft. 7 strand No. 14 (22)	\$0.30
75 ft. 7 strand No. 14 (22)	.23
100 ft. 7 strand No. 16 (24)	.24
75 ft. 7 strand No. 16 (24)	.17

ENAMELED

100 ft. 7 strand No. 14 (22)	\$0.42
75 ft. 7 strand No. 14 (22)	.34
100 ft. 7 strand No. 16 (24)	.35
75 ft. 7 strand No. 16 (24)	.27

SOLID ENAMELED

100 ft. No. 12	\$0.50
150 ft. No. 12	.75
200 ft. No. 12	1.00
300 ft. No. 12	1.50
100 ft. No. 14	.34
150 ft. No. 14	.51
200 ft. No. 14	.68
300 ft. No. 14	1.02

No. 10 gauge, solid enameled wire, 100 feet—only size carried.....\$0.90
No. 8 gauge, solid enameled wire, cut lengths. Per ft.....\$0.02½

COPPERWELD ENAMEL

Has steel core with copper welded on outside. Is the perfect wire for transmitting antenna as it will not stretch even 1%. No regular copper wire compares with copperweld.

No. 12 gauge, enameled copperweld wire.

100 feet	\$0.90
150 feet	1.35
200 feet	1.80
300 feet	2.70

SPECIAL

75 ft. special, 7-strand 12 gauge (20) enameled wire specified by Phlico for all wave aeriels	\$0.75
100 ft. special, as above	.96

The market on copper is up. We expect to be able to supply our Fall trade at the above prices, but the supply is limited.

★ OUR BEST SELLER ★

Here is the handiest all-purpose wire on the market. Use it for car radio aeriels, inside or outside lead-ins, hook-up wire, etc.

No. 18—16 strand, tinned, shiny black rubber covered with cotton serving inside, 1/64-in. insulation. Include a coil or spool on your next order.

1,000-ft. spool No. 18—16	\$3.40
500-ft. spool No. 18—16	1.80
250-ft. coil No. 18—16	.95

The same wire as above in No. 16 gauge, 24 strand, with 1/32-in. insulation.

500-ft. spool No. 16—24	\$2.70
250-ft. spool No. 16—24	1.45
100-ft. coil No. 16—25	.60
50-ft. coil No. 16—24	.30

HOOK-UP WIRE



No. 18O22—50 ft. 22 gauge solid tinned copper. Double braided, easy push-back, lacquer finish, a real quality wire. Colors: Red, Black, Green, Yellow and Blue. Each.....\$0.20
Five coils for......90

No. 18T22—25 ft. 22 gauge stranded tinned copper. Double braided, push-back, lacquer finish. 5 colors. Each.....\$0.12
Five coils for......50

No. 9830—No. 18 stranded tinned copper, 1/32" R. C. with a real heavy braid over-all thickly lacquered. This is a fine wire for high voltage work in Xmtrs. 40-ft. spool. Five colors. Ea. \$0.39

No. 9827—No. 14 stranded copper wire. 3/64" R. C. with braid over-all, this is an ideal heavy duty filament wire. 35-ft. spool. Black. Each.....\$0.39



BELDEN MAGNET WIRE

	Bare Enam.	Double Cot. Cov.	Double Silk Cov.
14	\$0.17	.....	.....
16	.17	.....	.....
18	.17	\$0.20	\$0.26
20	.17	.22	.27
22	.18	.24	.29
24	.18	.26	.34
26	.20	.31	.40
28	.21	.36	.47
30	.23	.42	.54
32	.26	.51	.72
36	.38	.81	1.32

¼-lb. spools.


Table Showing Feet Per Pound

Gauge	Double Cotton Covered	Plain Enameled	Double Silk Covered
14	.....	80	.....
16	.....	125	.....
18	192	202	199
20	298	319	314
22	464	506	494
24	711	804	778
26	1,080	1,280	1,220
28	1,630	2,030	1,910
30	2,420	3,220	2,960
32	3,600	5,100	4,570
36	6,660	12,800	10,500
.....	.....	20,300	15,500
.....	.....	.....	32,100

SOLID LEAD-IN WIRE VALUE-PLUS

50-ft. coils No. 16 gauge cotton serve. Heavy braid overall. Paraffined dipped.
Per coil.....\$0.12
Ten coils.....1.10
Twenty-five coils.....2.50
Fifty coils.....4.50

SHIELDED LEAD-IN WIRE

Stranded tinned copper wire, 1/32" rubber insulation with tinned copper shield over-all. 
No. SL-18—18 gauge. Per ft.....\$0.01½
100-ft. spool.....1.00
No. SL-16—16 gauge. Per ft......92
100-ft. spool......92

CENTER-RIP A. C. CORD

Rubber covered with each conductor separately insulated; splits down center when pulled apart. Conductors are 18 gauge with cotton serve. Black or brown. No. 8860—10 ft. for.....\$0.17
100-ft. spool.....1.44

RUBBER COVERED A. C. CORD

A heavy duty utility wire, No. 18 gauge, each wire separately insulated with cotton serve and rubber. Heavy rubber insulation over-all. Black.
No. 8972. Per ft.....\$0.02½
10 ft. for......18
250-ft. spool.....4.00

COTTON LAMP CORD TWISTED PAIR

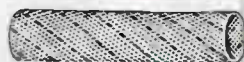


Each conductor No. 18 stranded copper, cotton served, rubber covered with a heavy cotton braid over-all. Black with tracer. 1/32" R/C.
No. TPAC. Per ft.....\$0.02
10 ft. for......15
250-ft. spool.....3.60

PARALLEL SILK CORD

Each conductor No. 18 stranded copper, cotton served, 1/32" rubber insulation with heavy silk braid over-all. Brown only.
No. PSAC. Per ft.....\$0.02
10 ft. for......18
250-ft. spool.....4.00

COPPER SHIELDING BRAIDS



Heavy Duty—Tinned.

	10 ft.	50 ft.	250 ft.
No. 8935—13/64 in.	\$0.18	\$0.70	\$ 2.94
No. 8937—½ in.	.30	1.30	5.04
No. 8936—25/32 in.	.80	3.50	15.24

SHIELDED WEATHERPROOF LOOM



Heavy impregnated loom tubing covered with tinned copper shielding braid.
¼" I. D.—5/16" O. D. Per foot.....\$0.05
½" I. D.—9/16" O. D. Per foot......07

LOW CAPACITY SHIELDED CABLE

For auto aerial lead-in. No. 18 stranded copper. Rubber insulated, jute filler with tinned copper sleeving over-all. Permits shield grounding without signal loss.

No. 8876—½-in. O. D. Per ft.....\$0.06
No. 8888—¼-in. O. D. Per ft......04
*No. L1199—¾-in. O. D. Per ft......08
*This is same as regular Aerial Cordage except it has a heavy Rubber-Cover Over-all Weatherproof.

BIRNBACH MAGNET WIRE

\$0.25 Per Spool

Plain enameled, double cotton covered and double silk covered magnet wire put up in proportionate lengths in even sizes from No. 14 to No. 40.

BELDEN WIRE ACCESSORIES



TWISTED PAIR A. W. LEAD-IN WIRE



Belden wire, specially designed for all-wave reception. Two conductors No. 20 tinned stranded copper, paper wrap, 1/32 in. rubber wall, over-all braid of black cotton, waxed, color-coded.

- No. 8834—80-ft. coll.\$0.99
- Per ft., cut lengths—\$0.01 1/4.
- No. 8844—500-ft. spool. 5.76
- No. 8841—For transmitters and link circuits, surge impedance, 93 ohms. No over-all braid. Size 19 conductors, enameled with pushback insulation. Waxed. 100-ft. spools.\$1.29
- Cut lengths, 10 ft. for..... .14

INDOOR AERIAL WIRE

Used on A.C.-D.C. sets. No. 20 wire, 60 strands with cotton wrap and brown braid.

- No. 8842—60-ft. spool.44
- Cut lengths, 10 ft. for..... .08



Twisted pair, No. 18 stranded copper wire, 1/32 in. rubber insulation; a good weatherproof wire.

- No. AW1135—Cut lengths. 10 ft. for \$0.11
- 50-ft. coll...\$0.50 80-ft. coll... .75
- 110-ft. coll... .95 500-ft. spool... 4.50

ANALYZER CABLE

8 and 9 conductor. Has two heavy leads for filament circuits. Heavy black glazed braid with red tracers over-all.

- No. 8958—3-conductor. Per ft.....\$0.08
- No. 8959—9-conductor. Per ft..... .09

RADIO BATTERY CABLE

Has two heavy leads for filaments. Wires color-coded. Durable brown braid over-all.

- No. 8953—3 wires. Per ft.....\$0.03
- No. 8984—4 wires. Per ft..... .045
- No. 8985—5 wires. Per ft..... .055
- No. 8956—6 wires. Per ft..... .065
- No. 8857—7 wires. Per ft..... .07

MULTI CONDUCTOR SHIELDED CABLE



No. 20 tinned stranded copper paper wrap, 1/64 in. rubber, color-coded, lacquered cotton braid with tinned copper shield overall.

- No. 8962—2-wire. Per ft.....\$0.03
- 100-ft. spool..... 2.87
- No. 8963—3-wire. Per ft..... .04
- 100-ft. spool..... 3.54
- No. 8964—4-wire. Per ft..... .05
- 100-ft. spool..... 4.32
- No. 13208—5-wire. Per ft..... .06
- 100-ft. spool..... 4.50

MULTI CONDUCTOR COTTON BRAID OVERALL SHIELDED

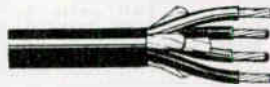


No. 20 tinned stranded copper; 1/16 in. rubber wall; lacquered cotton braid; tinned copper shield with durable brown cotton braid overall.

- No. 8962—2-wire; can be used as double button mike cable using shield as ground. Per ft.....\$0.03
- 100-ft. spool..... 2.40
- No. 8963—3-wire. Per ft..... .04
- 100-ft. spool..... 3.80
- No. 8964—4-wire. Per ft..... .05
- 100-foot spool 4.40

MULTI CONDUCTOR RUBBER COVERED

No Shield.



- No. 18 stranded copper, cotton serve 1/64 in. rubber, color-coded, with filler cotton braid, heavy rubber coat overall.
- No. 8972—2-wire. Per ft.....\$0.025
- No. 8973—3-wire. Per ft..... .035
- No. 8974—4-wire. Per ft..... .045
- 250-ft. coll..... 9.63
- This 4-wire cable is ideal for speaker work on P. A. jobs.
- No. 8975—5-wire. Per ft.....\$0.06

MULTI CONDUCTOR SHIELDED AND RUBBER COVERED



For all microphone use and for particular installations of speakers, remote lines and photo cell work. This is the finest grade of wire, 13x36 tinned copper, two serves of celanese, two braids of cotton, waxed; tinned copper shield; heavy rubber cover overall.

- No. 8924—1-wire, for crystal, single button and ribbon mikes. Per ft.....\$0.04
- 100-ft. spool..... 3.24
- No. 8948—2-wire, for P.P. crystal, double button carbon, photo-elec. cells and circuits using two ribbon mikes with shield acting as one conductor. Per ft.....\$0.08
- 100-ft. spool..... 6.33
- No. 8877—2-wire, each conductor 26x34 tinned copper; rubber wall color-coded; cabled and cotton wrapped; tinned copper shield; cotton wrap over shield and rubber sheath overall. For 2-button mikes, transmission lines and remote control work. Per ft.....\$0.05
- 100-ft. spool..... 4.02
- No. 8874—3-wire, same construction as No. 8877—for carbon mikes which do not employ a grounded center tap or which couple to a mixer panel. Per ft....\$0.05
- 100-ft. spool..... 4.32
- No. 8846—4-wire, same as No. 8877—for dynamic mikes and speakers with independent field circuits. Per ft.....\$0.065
- 100-ft. spool..... 5.46
- No. 8928—5-wire, same as No. 8877—for condenser mikes with pre-amp in head. Per ft.....\$0.08
- 100-ft. spool..... 6.60
- No. 8847—6-wire, same as No. 8877. Per ft.....\$0.09
- 100-ft. spool..... 7.77
- No. 8927—7-wire, same as No. 8877—good analyzer replacement cable. Per ft....\$0.10
- 100-ft. spool..... 8.49

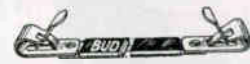
LIGHTNING ARRESTERS



Belden bakelite, \$100.00 insurance, convenient small size. A real, high quality arrester.

- No. 8950—Doublet Arrester.....\$0.21
- No. 8896—Single Arrester (Insured). .15
- No. 8891—Heavy Duty Regular Arrester30

WINDOW LEAD-IN STRIPS



- 12-in. soldered lacquered, weatherproof.
- No. C760—Each\$0.45
- 12 for50

DOUBLET LEAD-IN STRIPS



- No. C788—Each\$0.09

NOC-OUT GROUND CLAMPS



- No. KO-10—Each....\$0.05
- 10 for45

CLAMPIPE GROUND CLAMP



- No. M58—Each....\$0.05
- 10 for45

9-IN. COPPER STRAP GROUND CLAMPS

- No. C708—Each.....\$0.03
- 10 for25



- No. C-1—3/4-in. Glass Insulator—special tempered—finest quality. Each....\$0.04
- 10 for32
- 50 for 1.45
- No. 8118—2 1/4-in. Brown Glazed Porcelain Insulator—the heavy duty type. Each.....\$0.03
- 10 for23
- 50 for 1.00

WET PROCESS QUALITY STRAIN INSULATOR



- A new and handy item.
- No. PP2588. Each.....\$0.04

SCREW-EYE INSULATORS



- Center of porcelain-mounted in salvanized screw-eye.
- No. P1924—3-in.\$0.03
- 10 for25
- No. P1925—7 1/4-in.04
- 10 for35
- No. P1924—13-in.09
- 10 for75

NAIL-IT KNOBS



- Glazed Porcelain
- No. P-01—Ea. \$0.02
- 10 for..... .18
- 100 for..... 1.70

PORCELAIN WALL TUBES



- No. P-02—6 in. long, 5/16-in. hole.
- Each\$0.03

DEDUCT 2% FOR CASH WITH ORDER

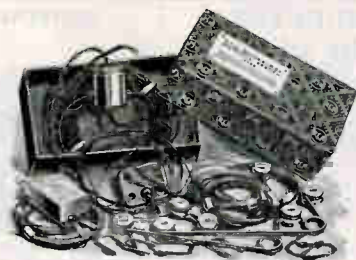
SHORT WAVE — ALL WAVE AERIAL SYSTEMS

"NO RADIO IS BETTER THAN ITS AERIAL"

**RCA
SPIDER-WEB
ANTENNA**

\$5.37

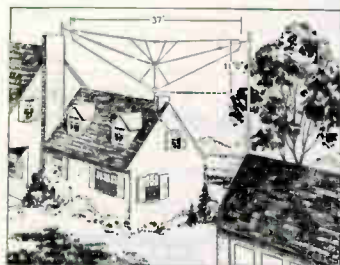
Stock No. 9685



**RCA
RK-40 DOUBLET
ANTENNA**

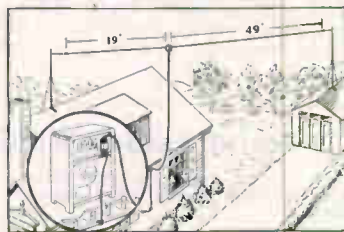
\$3.30

Stock No. 9631



The RCA Spider-Web Antenna System gives excellent signal pickup over the frequency range from 140 to 23,000 kc. By adding the Stock No. 9689 High Frequency Kit, Net Price \$0.90, the range is increased to 70,000 kc. with full noise reduction. All parts as shown in the illustration are contained in the kit which is assembled completely and can be installed in a very few minutes after supports are up.

The new RCA RK-40 Antenna is a simplified antenna system designed to reduce the time and labor required for antenna installation in the most difficult of locations. Merely attach each end to supports and make connections to the receiver. The time and money saved means more business and more profits for you. All parts as illustrated are included in the kit which is factory assembled and ready to install. All joints soldered.



FAMOUS "NOISE-MASTER" DE LUXE



This kit is recommended where "man-made" noises interfere with both the shortwave and broadcast bands. Licensed under Amy, Aceves & King patent No. 19,854 (re-issue). A highly engineered product which makes one aerial act electrically as two perfect antennas, by automatically selecting the varying frequencies of shortwave and broadcast signals. Two or more sets can be operated at the same time by using a transformer unit on each set. This kit assures the highest efficiency in eliminating "man-made" static over the entire radio receiving band.

Parts List

- 2-30 ft. coils 7/24 stranded copper antenna wire
 - 1 upper transformer assembly
 - 2 glass insulators
 - 75 ft. twisted pair down lead
 - 3-6 in. screw eye insulators
 - 1 No. 755 dual lead-in strip
 - 1 lower transformer unit
 - 1-4 in. porcelain tube
 - 1 instruction sheet
- All parts assembled and ready to install.
Model 14
Net price **\$4.05**

POPULAR MODEL 18 "NOISE-MASTER"

For the first time at this popular price—a licensed Amy, Aceves & King antenna! Recommended for locations where "man-made" static interferes with short wave but not with ordinary broadcast reception. Due to the SELF-SELECTING characteristics of the transformer used in this installation, "NOISE-MASTER" is fully AUTOMATIC electrically... giving perfect reception on any wave length without adjustment or manual operation.

Contents

- 2-30 ft. coils 7/24 "TRI-COR" aerial wire
- 2 No. 2 glass insulators
- 1 triangular porcelain center insulator
- 50 ft. stranded down lead
- 10 ft. coil twisted lead-in for inside use
- 3-6 in. screw eye insulators
- 1 No. 755 dual lead-in strip
- 1-4 in. porcelain tube
- 1 No. 129 Self-Selecting transformer
- 1 instruction sheet

Model 18
Net price **\$2.04**



GENUINE "NOISE-MASTER"

Model 19

This antenna is a de luxe doublet, employing a No. 129 Amy, Aceves & King licensed SELF-SELECTING matching transformer and a junction-box in the antenna line. Easy to set up, and is fabricated at our factory, obviating the soldering of joints at time of installation. When properly erected, it assures excellent all-wave reception.

It is fully AUTOMATIC electrically, requiring no adjustment or manual operation after it has been correctly set up.

Contents

- 2-30 ft. coils 7/24 aerial wire
- 2 No. 2 glass insulators
- 1 junction-box assembly
- 75 ft. No. 123 twisted pair down lead
- 3 6 in. screw eye insulators
- 1 No. 755 dual lead-in strip
- 1-4 in. porcelain tube
- 1 No. 129 Self-Selecting transformer
- 1 instruction sheet

Model 19
Net price **\$2.58**

ALL WAVE AERIAL SYSTEMS

"No Radio is Better than its Aerial"

LYNCH ANTENNA SYSTEMS

The Arthur Lynch Co. has been a real leader in the presentation of short-wave and all-wave aerial systems. You will find listed below all of the latest Lynch antennas. (All Arthur Lynch antenna devices are licensed under A. K. K. patents.)



LYNCH Assembled HI-FI ALL-WAVE ANTENNA SYSTEMS

Noise reducing on all waves; efficient on all waves. Completely factory wired—just string up between masts. These are the new 1936 models and results will amaze you.

"JUNIOR" SYSTEM

- Consists of:
- 1 Hi-Fi Coupling System with 50-ft. Twisted Pair Transmission-Line.
 - 41-ft. Doublet 7/22 Copper Wire.
 - 2 Commercial Type Insulators.
 - 1-3-inch Emily Screw Eye.
 - 2 Nallit Knobs.
 - 1-4-inch Porcelain lead-in tube.
- No. 1150—With 50-foot twisted pair lead-in.....\$4.05
 No. 1151—With 100-foot twisted pair lead-in..... 4.95

"STANDARD" SYSTEM

- Consists of:
- 1 Hi-Fi Coupling System with 50-ft. Giant Killer Cable.
 - 41-ft. Doublet, made of Heavy Hi-Mho Wire.
 - 2 Navy Type Insulators.
 - 1-3-in. Emily Screw Eye.
 - 2 Nallit Knobs.
 - 1-4-inch Porcelain lead-in tube.
- No. 1003—With 50-foot Giant Killer Cable.....\$5.10
 No. 1004—With 100-foot Giant Killer Cable..... 6.90

MASTS ANCHORS

PREMAX Telescoping Tubular STEEL MASTS

All-wave sets demand antennas. These masts meet every demand for a strong, inexpensive, weatherproof and good-appearing aerial support. Premax masts are made up of tubular steel sections — telescoping within each other. Can be firmly locked at any adjustment. Sections are uniform and interchangeable permitting any mast to be made into a longer length by the addition of another base section. For lengths above 13 feet one or more tubular steel extensions (X-3) may be added to the base of the M-156 mast. Come complete with necessary fittings.

No. M-42—Single sec. mast. Length 3 1/2 ft. Weight, 2 lbs.....\$0.60
 No. M-84—Two sec. mast—7 ft.—5 lbs..... 1.05
 No. M-120—Three sec. mast—10 ft.—7 lbs..... 1.65
 No. M-156—Four sec. mast—13 ft.—10 lbs..... 2.25
 No. X-3—Sectional extension—3 ft.—2 1/2 lbs..... .60
 Extra base flanges with bolt—per pair..... .09
 Individual sections—B-C-D. Each..... .60



PREMAX



PREMAX MASTS

Illustrated on right. Made of solid 3/4 in. rod—rust-proof finish. Adjustable base. Large double-grooved insulator. 3 1/2 ft. high.
 No. R118—Less brackets \$0.33

INSULATOR BRACKET

Formed steel arm—8 ins. long—with white porcelain insulator that can be used in 3 positions.
 No. IB-8.....\$0.18

GALVANIZED GUY WIRE

50 ft. steel wire—non-stretching.
 No. G-50—Per coil.....\$0.15

ANTENNA TENSION INSULATOR

An insulator and a heavy spring. Attaches to any style mast.
 No. TI-1—Each \$0.60

AERIAL SPRING ADJUSTER



Eliminates sag in antennas. As shown.
 No. BAS-60.....\$0.30

LYNCH "GIANT KILLER" KIT



A very popular kit—low priced. Includes all of the basic material for the latest type antenna system and the additional units may be added at any time. Standard kit includes: 35 ft. Giant Killer cable, 50 ft. Hi-Mho (heavy grade) ant. wire, 3 Lynch commercial type insulators, 1 stand-off, 2 Nallits, 1 porcelain tube and complete instructions.

- No. 1010—As listed.....\$2.10
 No. 1011—Same but 50-foot Giant Killer Cable..... 2.65

LYNCH BOOSTER COUPLER

As the name implies the Lynch Booster Coupler will increase the signal when used with any doublet system in which an antenna transformer is not used. Especially recommended for use with the Giant Killer All-Wave antenna system.



- No. 1706.....\$0.90

LYNCH GIANT KILLER CABLE

New improved transmission cable with two conductors covered with latex rubber. Will stand 20,000 volts. Excellent for transmitters up to 600 watts.

- No. 1060—50-foot coil.....\$3.00
 No. 1061—100-foot coil..... 6.00

ALL WAVE RECEIVER COUPLER

(Variable)

Makes it possible to match the doublet antenna to all broadcast and short wave receivers. A switch converts doublet to a conventional "T" antenna on broadcast frequencies.

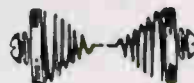


- No. 8919—Net. each.....\$1.29

WHEEL STATIC ELIMINATORS

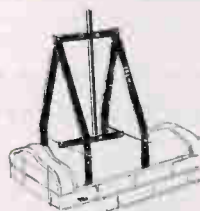
Take out noise from brakes, etc.

- Net price (pair).....\$0.18



GUY WIRE TENSION SPRINGS

PREMAX PARAPET MAST SUPPORT



Just the thing for those tough apartment house installations. No holes to drill—no nails to drive. Fits any parapet or fire wall up to 20 ins. Holds round masts from 1/2 ins. to 2 ins. or square up to 2x2 ins. Weight, 8 lbs.
 No. P8-18. \$1.50

PREMAX TRUSS BRACE

An arrangement that permits locating masts at extreme end of roof. Fits round masts from 1/2 to 2 ins.—square up to 2x2 ins. Length 24 ins. Weight, 2 lbs.
 No. TB-24—Each \$0.45



USE THE BEST

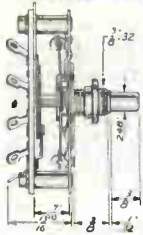
Always to be found in
LEW BONN CO. STOCK

DEDUCT 2% FOR CASH WITH ORDER

New Type Switches



Jacks - Jack Switches Tip Jacks - Rectifiers



YAXLEY CIRCUIT SELECTOR, TAP AND SHORT-WAVE SWITCHES

No. 1200 and 1300 Series Single and Multiple Gangs, providing single and various circuit combinations on each section.

SINGLE GANG SWITCHES

Shorting Type	Non Shorting Type	Description	Net Price
Y1216	Y1316	Single Circuit 1 to 6 points each circuit	\$.60
Y1211	Y1311	Single Circuit 1 to 11 points each circuit	.70
Y1215	Y1315	Two Circuit 1 to 6 points each circuit	.75
Y1213	Y1313	Three Circuit 1 to 3 points each circuit	.80
Y1212	Y1312	Four Circuit 1 to 2 points each circuit	.85

TWO GANG SWITCHES

Y1226	Y1326	Two Circuit 1 to 6 points each circuit	\$.95
Y1221	Y1321	Two Circuit 1 to 11 points each circuit	1.05
Y1225	Y1325	Four Circuit 1 to 5 points each circuit	1.20
Y1223	Y1323	Six Circuit 1 to 3 points each circuit	1.25
Y1222	Y1322	Eight Circuit 1 to 2 points each circuit	1.35

THREE GANG SWITCHES

Y1236	Y1336	Three Circuit 1 to 6 points each circuit	\$.130
Y1231	Y1331	Three Circuit 1 to 11 points each circuit	1.40
Y1235	Y1335	Six Circuit 1 to 5 points each circuit	1.50

FOUR GANG SWITCHES

Y1246	Y1346	Four Circuit 1 to 6 points each circuit	\$.165
Y1241	Y1341	Four Circuit 1 to 11 points each circuit	1.80
Y1245	Y1345	Eight Circuit 1 to 5 points each circuit	2.10

Instructions in each box.

YAXLEY SINGLE SECTION SWITCHES

Giving combinations from single pole, single throw to six pole, double throw.

No. Y2742—Single Section Switch, 1½-inch diameter, gives the following combinations:

Single pole, single throw.	Three pole, single throw.
Single pole, double throw.	Three pole, double throw.
Two pole, single throw.	Four pole, single throw.
Two pole, double throw.	Four pole, double throw.

Net price, each \$0.45

No. Y2762—Single Section Switch, 2-inch diameter, provides all of the combinations available in the 2740 type Switch and also provides for:

Five pole, single throw.	Six pole, single throw.
Five pole, double throw.	Six pole, double throw.

Net price, each \$0.60

Instructions in each box.

YAXLEY CIRCUIT OPENING SWITCH

This new switch will "open" any one of the twelve "lines" for the insertion of a current reading meter such as a milliammeter and maintain a "through" circuit on the other eleven lines. Used in tube checkers, analyzers, etc. 1½ ins. long x 2½ ins. wide; ¾-in. bushing and ¼ x ¾-in. shaft. No. Y1400—Complete with knob and dial and instructions. \$2.70

SPECIAL 15-POINT TAP SWITCH

Shorting type—single gang only, includes dial plate. No. Y150 \$0.90

JACKS

Small Size Single Circuit Jacks—No. B232 \$0.15
Small Size Open Circuit Jacks—No. B23317
Size ¾ inch deep.



RECTIFIERS

Type 4A1B—Replacing XB4. Set of 3 \$2.40
Type 12C1—Replacing U12-X12. Each 2.40
Type 12A1B—Replacing UP8-XP12. Each 2.40
Type 16C3—Replacing X16. Each 3.30
Type 16C3B—Replacing XB16. Each 4.20
Write for special Mallory Rectifier Catalog giving complete information if interested.

PUSH BUTTON SWITCHES

Widely used in tube checkers, analyzers.



No. Y2001—S. P. make contact	\$.54
No. Y2002—S. P. Break contact	.54
No. Y2003—S. P. double throw	.60
No. Y2004—2 Pole—Make 2 contacts	.72
No. Y2005—2 Pole—Break 2 contacts	.72
No. Y2006—2 Pole—Double throw	.90
No. Y2007—Make 2, break 1	.78
No. Y2008—Double Pole—Make before break	.99

These switches can be furnished locking or non-locking. Specify "L" for locking and "NL" for non-locking.

JUNIOR JACK SWITCHES

We stock all types but will show only the good selling types.



No. Y760—Double Pole, Double Throw	\$.75
No. Y733—Three Pole, Single Throw	.75
No. Y740—Double Pole, Single Throw	.57

With center "off" position

No. Y732—Single Pole, Double Throw	.50
No. Y762—Double Pole, Double Throw	.72
No. Y763—Three Pole, Double Throw	.93
No. Y764—Four Pole, Double Throw	1.17

JUNIOR JACKS

Mount in 7/16 in. panel hole and extend 1¼ in. back of panel.



No. Y701—Open Circuit	\$.24
No. Y702—Circuit Closing	.33
No. Y702A—Two Circuit	.33
No. Y702B—Three Circuit Microphone	.33
No. Y703—Single Circuit Filament Control	.40
No. Y703A—Circuit Reversing	.40
No. Y703C—Double Circuit	.40
No. Y704—Interstage	.45
No. Y704A—Two Circuit Filament Control	.45
No. Y705—Two Circuit Filament Lighting	.50
No. Y706—Interstage Filament Control	.55



YAXLEY INSULATED TIP JACKS Red, Black, Yellow, Green, Blue

No. Y422—Pair—red and black	\$.15
Each	.09
No. Y15—Tip Plugs for above jacks—Long	.09

NO. 407 INSULATED TIP JACKS

Round Bakelite Head



No. Y407—One pair—red and black	No. 15-415. \$0.21
No. Y407—Each—green, red and black	.12
No. Y415—Tip Plug for Y407 type jacks. Each	.05

METAL TIP JACKS

Round and Hex. Heads

No. Y416—Round 5/16-inch hole—use washers	
No. 204-214 on metal panel	\$.06
No. Y417—Hexagon, ¼-inch hole—use washers	
No. 205-213 on metal panels	.06

INSULATING WASHERS

No. Y203—Extruded, ¾-in. O. D. x ¾-in. I. D.; 10 for	\$.15
No. Y204—Extruded, ½-in. O. D. x 5/16-in. I. D.; 10 for	.15
No. Y205—Extruded, ½-in. O. D. x ¼-in. I. D.; 10 for	.15
No. Y212—Flat, ¾-in. O. D. x ¾-in. I. D.; 10 for	.09
No. Y213—Flat, ½-in. O. D. x ¼-in. I. D.; 10 for	.09

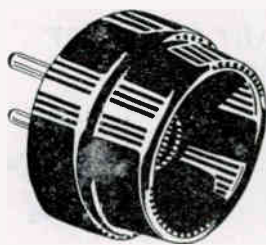
ETCHED DIAL PLATES

Match Yaxley Gang Switches, Y370 Series



Any markings desired from "1 to 2" up to "1 to 12." Each \$0.09
Can also be furnished marked "off 1 to 3" up to "off 1 to 10." Ea. \$0.09

PHOTOELECTRIC PARTS — EQUIPMENT

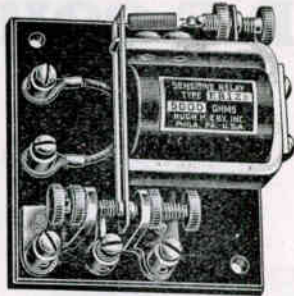


PE Cell
\$3.25
each

This radically new and different photo-electric cell has a ruggedness and response heretofore unattainable in a cell of twice the price. It is an electronic device consisting of two metal electrodes between which the light sensitive material is exposed to incident light rays. It is not affected by continued exposure and may be operated on voltages as high as 250. Responds to frequencies as high as 9000 C.P.S. and is sensitive through the entire visible spectrum. The relay is a sensitive high speed type, suitable for use in vacuum tube plate circuits and operates on 11.25 milliwatts. Standard coil resistance 5000 ohms. Contacts handle 2.5 amps. at 115 volts—SPDT armature permits use in either closed or open circuits.

EBY ELECTRIC EYE

Relay
\$4.25
each



EBY EXPERIMENTAL KIT

Consists of photo cell, relay, sockets, potentiometer resistor, condenser, terminal strip, and the electric eye handbook described below. Many interesting and practical experiments possible. Your net cost. \$10.00

TYPE G POWER RELAY



For operation with either A.C. or D.C. on the coil and for use in conjunction with the Type E Relay described below or may be used with the Eby Relay described above where it may be desired to control circuits of greater load. Coil consumption less than two watts. Contacts SPDT. 10 amperes at 115 volts A.C. or 3 amperes at 115 volts D.C. May be used to control motors, lights, signals, etc. Net price, each. \$3.25

load. Coil consumption less than two watts. Contacts SPDT. 10 amperes at 115 volts A.C. or 3 amperes at 115 volts D.C. May be used to control motors, lights, signals, etc. Net price, each. \$3.25



TYPE E ELECTRO-MAGNETIC RELAY

For operation on D.C. and full or half-wave rectified current.

These relays are an improved form of sensitive electromagnetic relay which are especially suitable for use in D. C. control circuits involving either "on-off" or marginal operation. They are particularly useful in electronic devices in conjunction with thermionic or gas filled discharge tubes. High speed of operation, ruggedness of construction, accuracy of alignment, large current capacity of the contacts and ease of adjustment are but a few of their features.

Operating characteristics of Standard D. C. Relays on Continuous Current:

Cat No.	Res. of Coil-Ohms	Volts Pick-Up	Amps. Pick-Up	Net Price
E63CAB	6,300	32	.005	\$3.30
E10CAB	1,000	12.5	.0125	2.65
E10XAB	100	4	.040	2.40



ELECTRIC EYE BOOKLET

This 32-page booklet, "The Electric Eye in Theory and Practice," written by Eby engineers, contains complete details on all electric eye types and much helpful information on this important industrial development. Fully illustrated with 30 diagrams. List price, 50c; net. \$0.35



LIGHT SOURCES

No. 1227A—Light source for photo-electric applications requiring a light beam projected up to 25 feet. A 6 volt lamp is mounted in a steel case 4 inches high. Net price. \$6.75

No. 1227R—Light source. Similar to 1227A but for applications requiring image focus as close as 3 inches to lens. Net, each. \$10.00



CELL HOUSINGS

No. 1226 — Has a 1 1/2-inch diameter aperture tube 3 inches long. Has socket for Visitron Type A Cell. Net price. \$5.50

REFLECTING MIRROR

No. 2510—Mirror. Designed for use in changing direction of beam or deflecting it around corners. Useful in hiding light source from view. Each. \$7.50



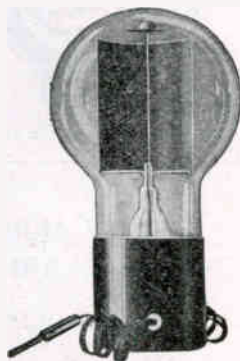
PHOTOELECTRIC CELLS

Visitron Type A Cells are gas filled. They carry a full guarantee of one year and under normal operation their life greatly exceeds the guarantee period. Visitron quality can be evaluated in terms of high sensitivity, long life, high glow voltage, stability and high frequency response. The inserted metal plate construction is a decided improvement over older types of cells in which the sensitive surface was deposited on the inner wall of the glass envelope.



No. 71A.

Visitron Cell Type 71A. Net. \$6.00
Visitron Cell Type 79A. Net. 6.00

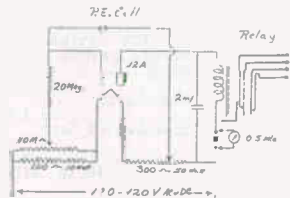


No. 79A.

ELECTRONIC RELAY CONTROL UNIT

GAIN PHOTO-ELECTRIC EXPERIENCE

This relay control unit makes use of the Visitron 71A cell and the E63 CAB relay in an A.C.-D.C. circuit as shown below. The relay has two separate sets of switch contacts so that the unit can be made to either start or stop the device to be controlled. We do not furnish it wired or assembled but will supply any or all parts as per the prices listed. Every business concern is a prospect for one of these units and live wire servicemen are going to cash in on this business while it is new.



- 1 Visitron cell. \$ 6.00
- 1 GM relay. 3.30
- 1 12A tube. .38
- 2 Four-prong wafer sockets. .14
- 1 Triplet Model 221 0-5 mla. 3.00
- 1 2 mf. cased condenser .93
- 1 50-watt 300-ohm variohm. .61
- 1 10-watt 100-ohm resistor. .24
- 1 20 meg. carbon resistor. .12
- 1 metal chassis. \$ 1.25
- 1 10,000-ohm potentiometer. .60
- 6 feet A.C. cord and plug. .21
- 1 short toggle switch. .25
- 4 binding posts. .36
- 1 No. 145 knob. .12
- Miscellaneous nuts, bolts and wire. .50

RADIO MEN EVERYWHERE

Are commencing to learn the fundamental principles of photo-electric applications to industry. The prospects of business in this field are staggering and we are sure have gone unnoticed by the radio service profession. We hope that, by taking the lead in this branch of radio, we are going to point the way toward future profits for you. The uses of photo-electric equipment are too numerous to mention more than a few: counting, sorting, lighting control, alarm service, safety devices, door openers, announcers, etc. More specific applications might be: determining foul line in bowling alleys, sorting colors, lighting signs when headlights approach, signaling the entrance of a customer to office or store, or turn on street lights when sun sets, and many others.

ASK FOR ONE

when you order:

G.M. Lab's Catalog
Eby Radio Catalog

WRITE US FOR SUGGESTIONS AND FURTHER INFORMATION AT ANY TIME.

DEDUCT 2% FOR CASH WITH ORDER

R F COILS—TRIMMERS—CHOKES



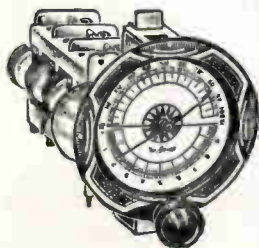
ALL WAVE COIL ASSEMBLY



Consists of antenna, R.F., and oscillator coils for all bands, 15 to 550 meters, when used in conjunction with the DeJong 3-gang 370 mmf. condenser shown below. Includes wave change switch and all padding and trimming condensers.

No. 5780—Net price, each...\$8.10

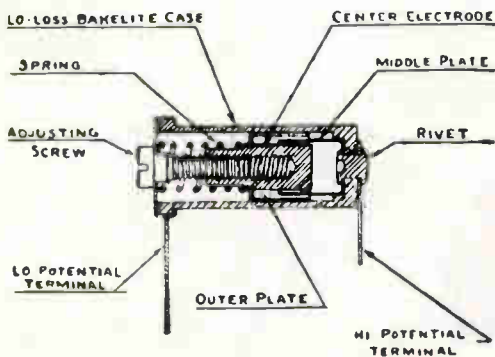
DEJONG BAND-SPREAD CONDENSERS WITH AIRPLANE DIAL



A new band-spread tuning unit providing electrical bandspread by a single dial and knob. Main tuning condenser drives one pointer; auxiliary bandspreading condenser drives other pointer. 4-inch Airplane Dial has dual scale, 0-100 and 0-10. Ingenious single knob drives both tuning and band-spread condensers.

Cat. No.	Bands	Mmf.	Price
No. DJ2140	2	370	\$6.30
No. DJ2370	2	140	6.30
No. DJ3140	3	370	6.90
No. DJ3370	3	140	6.90

NEW ALIGN-AIRE TRIMMERS AIR-DIELECTRIC



Here at last is a reasonably priced small space aligning condenser which is free from microphonic noises and drifting. Available in 4 sizes.

No. 15230—1- 12 Mmf.	9/16x1¼ in.	Each	\$0.30
No. 15232—3- 25 Mmf.	9/16x1¼ in.	Each	.36
No. 15240—25- 50 Mmf.	1x1½ in.	Each	.45
No. 15200—55-110 Mmf.	1x1½ in.	Each	.75

MEISSNER-FERROCART IRON CORE R.F. CHOKES

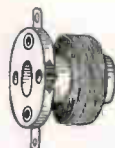
Increase gain and selectivity because of their higher "Q" and lower distributed capacity.

No. 6834—2.5 M.H.	\$0.36
No. 6836—3.5 M.H.	.36
No. 6838—5.5 M.H.	.39
No. 6840—10 M.H.	.45
No. 6842—30 M.H.	.51
No. 6844—60 M.H.	.60



STANDARD R. F. CHOKES

Lattice wound of green silk and enamel covered wire on genuine Isotex forms. These chokes have very low D. C. resistance and low distributed capacity.



No. B1212—2.5 M.H.	\$0.24	No. B1217—16 M.H.	\$0.33
No. B1213—3.4 M.H.	.24	No. B1218—30 M.H.	.33
No. B1214—5.5 M.H.	.24	No. B1219—60 M.H.	.36
No. B1215—8 M.H.	.27	No. B1220—80 M.H.	.39
No. B1216—10 M.H.	.27		

LINE FILTER CHOKES

Eliminates high frequency pick-up from power lines. Very fine for amateur transmitters—reduces BCL complaints.

FINE FOR TRANSMITTERS

No. M7825—Up to 2 amps.	\$0.60
No. M7826—Up to 5 amps.	1.50
No. M7827—Up to 10 amps.	1.93
No. M7828—Up to 20 amps.	2.40



RECTIFIER PLATE CHOKO

R. F. filter choke for use in rectifier plate circuit. Consists of 2 R. F. chokes mounted in aluminum shield can 1½ inches diameter by 2 inches high. Necessary for use with mercury vapor rectifier tubes. Max. current—100 M. A.

No. M80-F.....\$0.45

SEE NATIONAL CHOKES ON PAGE 95

SEE HAMMARLUND CHOKES ON PAGE 101

MILLER PRESELECTOR COIL KIT

Covers 12 to 200 Meters

A high gain, 2 stage TRF amplifier for use ahead of any S.W. receiver. Self contained power supply. High gain coils. Absolute image suppression. Operates on either single wire or doublet antenna. Band-change switch. Tubes used: two 58 (or 6D6) and one 80. Full instructions and diagrams furnished.

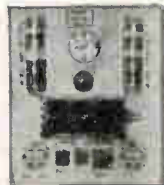
No. M302—Kit of coils, chokes, trimmers and band-change switch.	\$4.80
No. M302DC—Drilled chassis for M302	1.35
No. M302C—Metal cabinet for M302.	3.90
No. M150—Airplane dial for M302 (2-gang .00035 Mfd. condenser used.)	1.95



MILLER SHORT WAVE CONVERTER COIL KIT

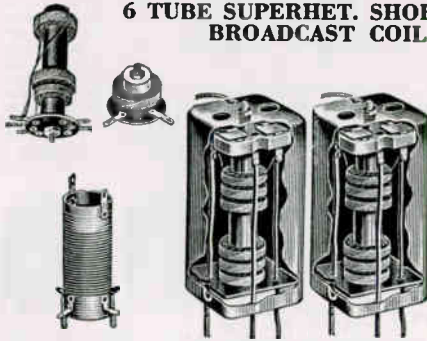
A truly efficient short wave unit—built-in power supply. Can be used with supers or TRF sets. Tubes used: one 2A7, one 58 and one 80. Three bands covering 12 to 200 meters. Full instructions and diagrams furnished with each kit. Kit contains all necessary coils, band-change switch, trimmers, padders and chokes.

No. M301	\$6.00
No. M301DC—Drilled chassis for M301	1.35
No. M302C—Metal cabinet drilled for M301	3.90
No. M150—Airplane dial for M301 (M301 uses regular 2-gang .00035 Mfd. condenser.)	1.95



GUTHMAN RECEIVER COIL KITS

6 TUBE SUPERHET. SHORT-WAVE AND BROADCAST COIL KIT



530-1500 Kc:
18-2.5 Mc 200-
550 and 17-120
Meters—3 Gang
Condenser

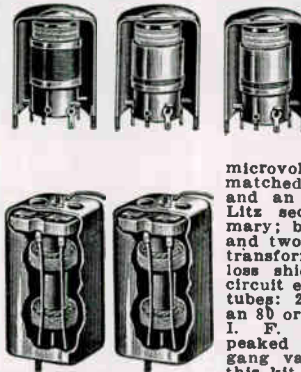
A new superhet. coil kit for the set-builder who is interested in foreign short-waves as well as domestic broadcast. Easily built, this set is the equal in performance of any commercial set of its type. Advanced circuit

employs latest tubes: 6A7, 6D6, 76, 6C6, 42, and 80 or equivalent ALL-METAL tubes. Kit of six coils (all illustrated) includes an Antenna, R. F., two Oscillator coils, and two double-tuned I. F. transformers. Litz-wound, accurately peaked at 456 Kc., and mounted in square shield cans 1 1/2 ins. square by 3 ins. high. All leads color-coded. Circuit diagram included with each kit.

Complete Kit of 5 Matched Coils, including circuit diagram, less variable condenser. Shipping weight, 3 lbs.

Kit 401.....\$4.95

7 TUBE SUPERHET. BROADCAST COIL KIT



175 to 550 Meters
Police Calls, Etc.

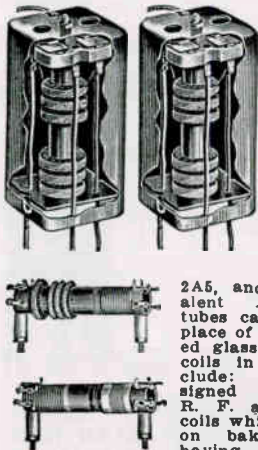
Anyone with a fair knowledge of radio circuits can assemble this receiver with the aid of the circuit diagram included with each kit. Actual laboratory tests on receivers built from these units have proven them to have 10 Kc. selectivity over the entire tuning range, with a sensitivity of better than 1

microvolt. The kit of five perfectly matched coils includes an Antenna coil and an R. F. coil, both bank-wound Litz secondary, high impedance primary; bank-wound Litz oscillator coil, and two double-tuned Litz-wound I. F. transformers. All coils mounted in low-loss shield cans, as illustrated. This circuit employs seven of the latest type tubes: 2-58's, a 2A7, 55, 2-2A5's, and an 80 or equivalent ALL-METAL tubes. I. F. transformers are accurately peaked at 175 Kc. A .000365 mfd. 8-gang variable condenser is used with this kit.

Complete Kit of 5 Matched Coils, including circuit diagram, less variable condenser. Shipping weight, 2 lbs.

Kit 310.....\$3.95

5 TUBE SUPER COIL KIT 15-50 and 200-550 Meters



A. C. or A. C.-D. C. Amazing results can be obtained by using this coil kit as a foundation for a very sensitive Broadcast and Short-wave Receiver. Tubes used are as follows: for A. C.-D. C. 6A7, 78, 77, 43 and 12Z3; while for A. C. only 2A7, 58, 2B7, 2A5, and 80. Equivalent ALL-METAL tubes can be used in place of aforementioned glass tubes. Four coils in this kit include: specially designed center-tapped R. F. and Oscillator coils which are wound on bakelite tubing, having space-wound secondaries on short-wave sections and lateral Litz winding on broadcast secondaries; two Litz-wound double-tuned shielded I. F. transformers, peaked at 456 Kc.; all as illustrated. Complete with circuit diagram.

Kit 305.....\$3.75

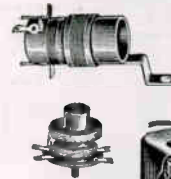
5 TUBE AUTO KIT

Superhet.
200-550
Meters

Using this kit as a foundation it is a simple matter to build a remarkably sensitive, highly selective 5-tube superhet auto radio. This advanced circuit employs 2 6D6's, a 6A7, a 75, and a 41 or equivalent ALL-METAL tubes. Five coils comprise the kit, as illustrated: Antenna, R. F. Oscillator, and two I. F. transformers. The first three coils mentioned are lateral space-wound for high efficiency, with Litz wire secondaries. The I. F. transformers are double-tuned and peaked at 175 Kc. All coils mounted in shield cans, as illustrated. A circuit diagram is furnished with each kit. Shipping weight, 4 lbs.

Kit 400.....\$3.25

5 TUBE SUPER HET. COIL KIT 200 to 550 Meters



2 Gang Condenser
A. C. Only

An accurately designed kit of four coils for constructing the most modern type of 5-tube A. C. Broadcast receiver. This circuit employs a 2A7 as R. F. Oscillator and Mixer, a 58 as I. F. amplifier, a 2B7 as diode detector and first A. F., a 2A5-output tube, and an 80 rectifier. Equivalent ALL-METAL tubes may be used. Kit includes four coils: Antenna, Oscillator, and two I. F. transformers. Last named are Litz-wound, shielded, double-tuned and peaked at 456 Kc. Square I. F. shield cans measure 1 1/2 ins. by 3 ins. high. All leads color-coded for easy identification. Shipping weight, 4 lbs.

Kit 308.....\$2.95

VARIABLE CONDENSERS

With Trimmers



For tuned radio frequency, 1/4 in. shaft, either right or left hand. Two-gang, .000365 mf. Price.....\$1.00 Three-gang, .000365 mf. Price.....\$1.50

FOR SUPERHETERODYNES

1/4 in. shaft, right or left hand, oscillator section either end. Two-gang, 456 kilocycles, tracking section. Price.....\$1.00 Three-gang, 456 or 175 kilocycles, tracking section. Price.....\$1.50 Four-gang, 175 kilocycles, tracking section. Price.....\$2.00

For all-wave sets. 1/4 in. shaft, clockwise only.

Two-gang, 410 mmf. each section. Price.....\$1.05 Three-gang, 410 mmf. each section. Price.....\$1.50

HAMMARLUND PADDING AND TRIMMING CONDENSERS



Equalizing condenser for neutralizing, balancing and trimming, 1 1/4 by 1/4 in. EC-35—(\$ to 35 mmf.).....\$0.15 EC-30—(25 to 80 mmf.).....\$0.15

Isolanite Base

MICS70 — (10-70 mmf.).....\$0.30 MICS140—(70-140 mmf.).....\$0.36 MICS220—(140-220 mmf.).....\$0.42 MICS1000—(600-1000 mmf.).....\$0.60



Isolanite Base



MICD70—(10-70 mmf.) \$0.48 MICD140—(70-140 mmf.) \$0.54 MICD220—(140-220 mmf.) \$0.60

DEDUCT 2% FOR CASH WITH ORDER

GUTHMAN R. F. AND I. F. TRANSFORMERS

R.F. AND ANTENNA COILS

175 to 550 Meters
Matched real hi-gain coils for T.R.F. receivers. Litz bank-wound secondaries with either high or low impedance primaries, as desired. Supplied complete with mounting bracket, dowel and brass mounting screws. Coil diameter 7/8x2 1/4 in. long. For use with standard .00036 mfd. variable condenser. Coil connection diagram with each. Excellent for replacement for constructors.



Part No.	Type	Prim. Imp.	Your Cost
A1008	Ant. Coil	Low	\$0.29
B1008	R.F. Ant.	Low	.29
A1001	Ant.	High	.34
B1001	R.F.	High	.34

SHIELDED LITZ R.F. & ANT. COILS

175 to 550 Meters



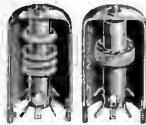
For T.R.F. or Superheterodyne receivers, when used with proper oscillator coil. Precisely matched. Completely shielded.

Shielded in can whose dimensions are 1 1/4 in. diameter, 2 1/4 in. high with two 6/32 in. spade lugs. Available with high or low impedance primaries. When used with screen grid tubes high impedance primaries are desirable in order to secure proper gain. Windings are of solenoid type—which results in a coil of maximum inductance (for given amount of wire) and least R.F. resistance. Designed for use with .00036 mfd. variable condenser. Covers complete B.C. band—175 to 550 K.C. Each coil supplied complete with instructions and diagram.

Part No.	Type	Prim. Imp.	Your Cost
A1007	Ant. Coil	Low	\$0.34
A1018	Ant.	High	.40
B1007	R.F.	Low	.34
B1018	R.F.	High	.40

MIDGET ANTENNA R.F. AND OSCILLATOR COILS

1 1/4 x 1 1/4 in. high.
A2098—Ant. Coil.
B2098—R.F. Coil.
O3098—Oscillator Coil.
Price\$0.45



Small size high gain shielded coils. Designed for Superheterodyne and T.R.F. receivers requiring compact efficient coils. Newest type Litz wire sectional winding with low R.F. resistance and distributed capacity. For use with .000365 (.00035) mfd. variable condensers. All coils may be used in any combination desired. Supplied complete with wiring diagram.

ANT. R.F. & OSC. COILS

15-55 and 200-550 Meters

Very popular style of coil. Covers two most desired ranges, domestic broadcast and foreign short-waves. Short-wave section is space-wound on threaded bakelite. Mounting bolts on dowel stick facilitate proper installation. For use with .000365

variable condenser (standard type). Supplied with diagram. List
A2050—Antenna Coil.....\$0.70
O3090—Oscillator Coil (456 K.C.).... .60
B2050—R.F. Coil..... .70

SHORT-WAVE SHUNTS



No. 2048—Price, each \$0.17
Enables receivers designed only for the regular 200 to 550 meter band to include 75 to 200 meter short-wave bands. Small size, 7/8 x 3/4 in. high. Diagram showing how to connect in the circuit included. One short-wave shunt is required for each antenna and each R.F. coil in set. Get police calls on car sets—used with a switch.

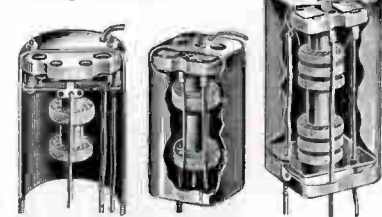
ANTENNA AND OSCILLATOR COILS FOR SUPERHETS



Lateral-wound oscillator and antenna coils for superhets. Coils can be used separately if desired, or can be used in pairs. These coils make ideal replacements for standard sets. Broadcast coils wound on a dowel, 1/2 x 1 in. long. Broadcast-short-wave coils wound on a dowel, 5/16 x 1 1/2 in. long. Instructions and diagram with each coil. Broadcast coils cover 1,500 to 550 K.C. and combination short-wave and broadcast cover 1,500-550 K.C. and 4,000-1,500 K.C.
No. A2037—Antenna Coil. List.....\$0.42
No. A3015—Short-Wave and Broadcast Coil. List..... .57

Broadcast Oscillator Coils	
No. O3014—175 K.C.	.50
No. O3019—465 K.C.	.50
No. O3080—465 K.C.	.50
Short-Wave and Broadcast Oscillator Coils	
No. O3042—175 K.C.	\$.06.65
No. O3015—465 K.C.	.65

I.F. TRANSFORMERS in Metal Shield with Tuning Condensers



For use as replacements or in new set design. Can be used in any combination required for I.F. stages. Tuning condensers are of the mica compression type, on Isolantite bases and are adjustable from the top of the shield can. Leads are color coded. Diagram furnished with each unit. The inductances are the lattice wound type mounted on wood forms specially impregnated and impervious to moisture. Coils in round and square shields have same electrical characteristics and are interchangeable.

I.F. COILS IN ROUND SHIELD			
Shield Size 2-1/16 in. Diameter x 3 in. High. Spade Bolt Mounting Centers 1-15/16 in.			
Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Price
No. 3018	465	442-470	
No. 3052	380	365-395	
No. 3012	175	168-180	\$.80

I.F. COILS IN SQUARE SHIELD			
Shield Size 1 3/4 in. Square x 3 in. High. Spade Bolt Mounting Centers 1 3/4 in.			
Double Tuned	Peak Frequency in Kilocycles	Frequency Range	Price
No. 3103	465	442-470	
No. 3050	380	365-395	
No. 3032	175	168-180	\$.82

DELUXE I.F. TRANSFORMER HIGH "Q" WINDINGS

Coils are new triple section series wound type. R.F. resistance and distributed capacity are reduced to a minimum giving a maximum "Q". Highest practical sensitivity and selectivity. Trimm. condenser adjustable from top of shield can. Double tuned 4-lead transformers. Diagram showing coding of leads included. Size: 1 1/4 in. square, 5 in. high. Spade bolt mounting, centers 1 1/2 in.
Double Tuned Peak Frequency in Kilocycles Frequency Range
No. 3107 465 442-470
No. 3120 380 365-395
Price\$1.10

CENTER TAPPED SECONDARIES	
Type "C" Large	Type "B" Medium
No. 3070—465 K.C.	No. 3074—465 K.C.
Price .....\$0.95	Price .....\$0.85

UNSHIELDED R.F. COILS

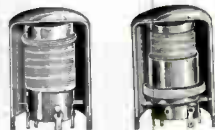
80 to 550 Meters



Compact and efficient short-wave and broadcast coils. Short-wave range 80 to 200 meters. Broadcast range 200 to 550 meters. Lateral wound primaries and secondaries. For .000365 condenser. Diagram with each.
No. A2021—Antenna Coil. Price.....\$0.55
No. B2021—R.F. Coil. Price..... .55

SW & BCL HI-GAIN LITZ COILS

120 to 200 Meters
200 to 545 Meters
Completely shielded 2-band coils. Comprises hi-impedance primary with Litz wound secondary tapped for low wavelengths. For use with .00035 mfd. variable condenser. Can 1 1/2 in. diameter and 2 1/4 in. high, with spade bolts for mounting. Also diagram.
No. A1023—Antenna Coil. Price.....\$0.47
No. B1023—R.F. Coil. Price..... .47



UNSHIELDED ANT. & R.F. COILS

75 to 550 Meters



High impedance primary of plain enamel wire. Has shunt winding adjacent to secondary to cover the short-wave band recommended for maximum efficiency in comparison to the tapped coils. Tunes with usual .00365 mfd. variable condenser. Covers 75 to 200 and 200 to 550 meters. Wiring diagram furnished showing coil connections. Coil size is 7/8 x 2 1/2 in. long. Mounting bracket and dowel, brass mounting screw and bolt furnished.

No. A130—Antenna Coil.	Price.....\$0.33
No. B120—R.F. Coil.	Price..... .33

COMPOSITE UNITS

High-gain composite coil used as combination I.F. and oscillator. Designed for the special tracking section on the variable condenser. Top tuning. This unit is furnished in 175 K.C. and 465 K.C. frequencies, mounted in a shield 1 1/2 in. in diameter by 3 1/4 in. in height. Equipped with two spade-mounting bolts.



No. 3094—175 K.C.	Price.....\$1.30
No. 3183—465 K.C.	Price..... 1.30

HIGH-GAIN COMPACT BROADCAST AND POLICE BAND COIL

High impedance primary, triple section Litz wire secondary, for use with .000365 condenser. Covers a range of 75 to 200, and 200 to 540 meters. Band switching may be accomplished with a double pole single throw switch. Coils are 7/8 in. diameter x 1 1/2 in. long, impregnated form, with a single hole mounting bracket.



No. A1066—Antenna Coil.	Price.....\$0.30
No. B1066—Interstage R.F. Coil.	Price..... .30

PRIMARY REPLACEMENT WINDING

High impedance silk enamel windings for replacing burned out antenna primaries. Sliding collar permits variation of coupling in relation to secondary.



No. 6000—For 1 1/4 in. outside diameter of secondary coil.	Price.....\$0.15
No. 6001—For 1 in. outside diameter of secondary coil.	Price..... .15
No. 6002—For 7/8 in. outside diameter of secondary coil.	Price..... .15
No. 6003—For 3/4 in. outside diameter of secondary coil.	Price..... .15

R. F. And I. F. Transformers

For Better Radio Hammarlund PRECISION PRODUCTS



I. F. TRANSFORMERS Air-Tuned

Reduces "drift." Increased selectivity and sensitivity. Size, 5x2-3/32 inches.

- ATT176—(175 K.C.) \$2.70
- ATT465—(465 K.C.) 2.70
- ATT525—(525 K.C.) 2.70
- ATO465—(465 K.C. beat oscillator)... 2.70

The three I. F.'s listed can be had center-tapped. Just add "C.T." to catalogue number.

BEAT FREQUENCY OSCILLATOR

Adjustable. 3x1 1/2 inches.
No. MC465.....\$1.05



TYPE "T" I. F. TRANSFORMERS



All transformers are tuned grid, tuned plate type with lattice wound coils impregnated to prevent moisture effects. Litz windings are used in 465 K.C. short wave transformers. Tuning condensers are mica type mounted on Isolantite and adjustable from top of the shield can. Leads R.M.A. color coded and tagged. Secondaries are either plain for standard screen grid tubes or center-tapped for tubes requiring split input circuits such as Wunderlich tubes, 55's, 75's, 83's, 2A6's, etc.

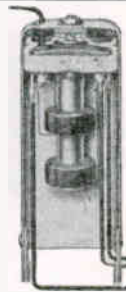
Aluminum shield cans measure 2 1/2 in. O. D. by 3 1/2 in. high. Mounting is on 2-inch centers.

- T465—(465 K.C.).....\$0.99
- T175—(175 K.C.)..... .99
- TBO—Beat oscillator (465 K.C.).... .99
- T465—CT.99
- T175—CT.99

MIDGET I. F. TRANSFORMERS

Square aluminum shield can. 3 1/2 in. high by 1-7/16 in. square. Same specifications as round can type T listed below.

- ST—465-465 K.C. ... \$0.99
- ST—465 C. T.-465 K.C. center-tapped .99
- ST—175-175 K.C.99
- ST—175 C. T.-175 K.C. center-tapped .99



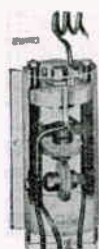
NATIONAL "I. F." TRANSFORMERS

Air dielectric condenser tuned, steatite insulation, Litz wound coils, aluminum plates. Furnished in 465 K.C.

- No. NIF\$3.00
- Beat Oscillator Unit. Same features as National "I. F." transformers and knob tuning.
- No. NBO\$3.00



Polyiron R. F. and I. F. TRANSFORMERS



IRON CORE I.F. COILS WITH ADJUSTABLE COUPLING

Similar to paragraph 1, column 2 1135 Data Sheet enclosed.

Stock No.	Frequency	Use	Between
A101	465 K.C.	Converter	6A7-6D6
A101M	465 K.C.	Converter	6A8-6K7
A100	465 K.C.	Interstage	6D6-6D6
A201	465 K.C.	Diode	6D6-75
A200M	465 K.C.	Diode	6K7-6H6
A175	175 K.C.	Converter	6A7-6D6
A275	175 K.C.	Diode	6D6-75

Also available in input and output types for 115, 260, and 370 K.C. Specify frequency and use.

Net price any type.....\$1.80

MIDGET "METAL TUBE" I.F. TRANSFORMERS

Small, Litz-wound Polyiron core inductively coupled coils designed for use in metal tube circuits. In copper cans with black enamel finish. 2 1/2 in. high by 1 1/2 in. square. Ideal for auto sets and portables. Top tuning. Color coded leads.



Stock No.	Frequency	Use	Between
C101M	465 K.C.	Converter	6A8-6K7
C100M	465 K.C.	Interstage	6K7-6K7
C200M	465 K.C.	Diode	6K7-6H6
C350	465 K.C.	BFO	6J7 or 6C6
		6K7-6H6 Beat Freq. Osc.	6C6

Net price any type.....\$1.50



AIR-TUNED I.F. TRANSFORMERS

The adjustable coupling feature of the popular type "A" ALADDIN Polyiron core I.F. transformer is now available as type GA with dual air trimmer. This design is particularly suitable to the needs of the advanced amateur and designers of special equipment wherein the utmost freedom from frequency drift must be maintained over long periods of time.

Shield size 1-7/16 in. x 1 1/2 in. x 4 in.

Type	Use	Between	Net Price
GA101	Converter	6A7-6D6	\$3.90
GA101M	Converter	6A8-6K7	3.90
GA101A	Interstage	6D6-6D6 or 6K7-6K7	3.90
GA201	Diode	6D6-75	3.90
GA201M	Diode	6K7-6H6	3.90



FIXED COUPLING, AIR-TUNED I.F.'s

Similar to the above but with fixed coupling.

Type	Frequency	Use	Between
G101	465 K.C.	Converter	6A7-6D6
G201	465 K.C.	Diode	6D6-75
G101A	465 K.C.	Interstage	6D6-6D6
G101M	465 K.C.	Converter	6A8-6K7
G201M	465 K.C.	Diode	6K7-6H6

Net price any type.....\$3.30

INDUCTANCE TUNED I.F. TRANSFORMERS

In Type P, inductance adjustment replaces the usual condenser trimmers to produce an advanced design I.F. transformer. Fixed sealed condensers provide permanency of alignment. Both primary and secondary coils are tuned by adjustment of their Polyiron cores. Correct coupling is secured by mounting the Litz-wound coils on separate axes. Type P transformers may be used with either glass or metal tubes.



Shield size 1 7/16 in. x 1 1/2 in. x 4 in. high aluminum.

Available in the following types at \$2.10 each, net.

Type	Frequency	Use
P101	465 K.C.	Converter
P100	465 K.C.	Interstage
P200	465 K.C.	Diode

ANTENNA & R.F. COUPLERS

High gain coils using Polyiron cores. Higher gain and sharper resonant curve than is possible with air core coils. Inductive and capacitive coupling. All are Litz-wire wound. Fig. 1 illustrates unit in round



Fig. 1 copper shield 1 1/2 in. D x 2 1/2 in. high. Fig. 2 shows ALADDIN shield 2 in. x 2 in. x 3 in.

Stock No.	Range	Type	Illustrations
1501	530-1500	Antenna	Fig. 1
3001	530-1500	R.F.	Fig. 1
503	530-1500	Antenna	Fig. 2
1001	530-1500	R.F.	Fig. 2
507	550-1725	Antenna	Fig. 2
1007	550-1725	R.F.	Fig. 2

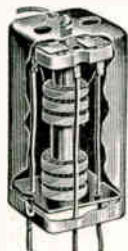
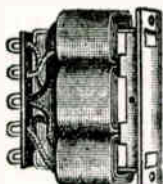
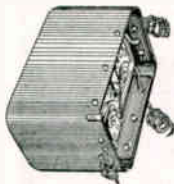
Net price, each.....\$1.30

DEDUCT 2% FOR CASH WITH ORDER

CARRON EXACT DUPLICATE REPLACEMENT COILS

These coils are exact duplicates of the original in physical and electrical characteristics. All coils are thoroughly impregnated with a special varnish, withstand vibration and all atmospheric conditions.

IMPORTANT! If the coil you want is not listed, send us the old coil and its mate. If any, model number and all pertinent information regarding same, and we will duplicate same.



Our Part No.	Model	Net Price	Our Part No.	Model	Net Price			
PEN (GLOBITONE)								
D4135	-Model 7A-99, 1st I.F. Coil only	\$.51	D4198	-Model 440, 1st I.F.T. complete	\$1.20			
D4151	-Model 7A-99, 1st I.F. and Osc. complete	1.50	D4211	-Model 460-520, Osc. Coll.	.36			
D4125	-Model 7A-99, Presselector	.90	D4212	-Model 460, 490, 800, R.F. Coil	.48			
D4161	-Model 24 Chassis 400 Autodyne, 1st I.F. and Osc.	1.80	D4213	-Model 460-570, Ant. Coll.	.48			
D4088	-Model 28, R.F. Coil	.66	D4111	-Model 460, 1st I.F. Coil complete	.90			
D4190	-Model 32, R.F. Coll, less can.	.66	D4112	-Model 460-800, 2nd I.F. Coil only	.51			
D4136	-Model 47, Aut. Coll, less can.	.60	D4038	-Model 460-570, R.F. Coll only	.48			
D4137	-Model 47, R.F. Coll, less can.	.60	D4041	-Model 460-520, Ant. Coll.	.48			
D4189	-Model 49, R.F. Coll, less can.	.60	D4118	-Model Ford Police, 1st I.F. complete	1.20			
D4202	-Model 31, 2nd R.F., less can.	.60	D4119	-Model Ford Police, 2nd I.F. complete	1.20			
D4203	-Model 31, 3rd R.F., less can.	.60	PHILCO					
D4379	-Model 511, 515, 1st I.F. and Osc.	1.50	D4227	-Model 14, 18, R.F.	.42			
ATWATER-KENT								
D4095	-Model 55, Ant., less shield.	.75	D4228	-Model 14, 28, 29, 45, I.F.	.39			
D4182	-Model 40, 42, 44, 45, 46, 52, R.F. Coupling Trans., Part No. 13663	.24	D4229	-Model 14, 28, 29, 45, I.F.	.39			
BRUNSWICK								
D4167	-Model S14, Ant. Coll, less shield	.60	D4230	-Model 14, Osc.	.45			
D4378	-Brunswick, S14, 21, 31, 81, 82, R.F.	.60	D4182	-Model 14, Osc.	.33			
CLARION								
D4123	-Model 100, 2nd I.F. Coll only	.60	D4232	-Model 14, Osc.	.50			
D4124	-Model 140, 2nd I.F. Coll only	.60	D4233	-Model 14, 70, 71, 90, 91, I.F.	.54			
D4168	-Model 220, 1st I.F.	.60	D4234	-Model 14, 91, R.F.	.45			
D4125	-Model 220, 1st I.F. and Osc. complete	1.50	D4235	-Model 14, 91, R.F.	.30			
D4074	-Model 220, Output I.F. Coll only	.60	D4236	-Model 15, R.F.	.24			
D4126	-Model 260, 2nd I.F. Coll only	.66	D4237	-Model 15, R.F.	.60			
D4170	-Model 260, 1st I.F. Coll only	.60	D4238	-Model 15, R.F.	.33			
D4127	-Model 300, 2nd I.F. Coll only	.60	D4239	-Model 15, Osc.	.30			
D4171	-Model 320, 1st I.F. Winding only	.60	D4240	-Model 15, 90, 490, I.F.	.54			
D4128	-Model 320, 1st I.F. and Osc. complete	1.50	D4241	-Model 15, I.F.	.35			
D4129	-Model 320, 2nd I.F. Coll complete	.90	D4265	-Model 20, 21, R.F.	.63			
D4130	-Model 320, Presselector Coll.	.75	D4270	-Model 20, 21, R.F.	.54			
D4131	-Model 340, 1st I.F. Coll only	.60	D4271	-Model 20, R.F.	.72			
D4132	-Model 360, 1st I.F.	.60	D4272	-Model 32, I.F.	.36			
D4191	-Model 360, 2nd I.F.	.60	D4273	-Model 32, R.F.	.42			
D4192	-Model 400, Ant. Coll.	.60	D4274	-Model 32, R.F.	.30			
D4166	-Model 500, Osc. Coll.	.54	D4275	-Model 35, R.F.	.54			
CROSLEY								
D4075	-Model 20, R.F. Coll only	.48	D4276	-Model 35, Osc.	.36			
D4076	-Model 20, Ant. Coll only	.60	D4297	-Model 47, R.F.	.27			
D4077	-Model 26, R.F. Coll only	.60	D4298	-Model 47, I.F.	.36			
D4078	-Model 26, Ant. Coll only	.60	D4299	-Model 48, 51, 52, I.F.	.72			
D4138	-Model 27, R.F. Coll only	.60	D4300	-Model 48, 51, 52, I.F.	.90			
D4140	-Model 27, Ant. Coll only	.60	D4301	-Model 48, Osc.	.51			
D4079	-Model 30S, Ant. Coll only	.75	D4302	-Model 48, R.F.	.39			
D4165	-Model 30S, R.F. Coll only	.75	D4303	-Model 48, R.F.	.33			
D4080	-Model 40S, R.F. Coll only	.60	D4308	-Model 50, R.F.	.60			
D4083	-Model 58, R.F. Coll only	.78	D4309	-Model 51, 52, R.F.	.54			
D4081	-Model 53, 54, 57, R.F. Coll only	.60	D4326	-Model 70, 35, 470, R.F.	.45			
D4082	-Model 53, 54, 57, Ant. Coll only	.60	D4327	-Model 70, 35, 470, R.F.	.39			
D4084	-Model 58, Ant. Coll only	.60	D4328	-Model 70, 470, Osc.	.36			
D4085	-Model Buddy and Chum, R.F. Coll only	.60	D4329	-Model 70, 470, I.F.	.54			
D4086	-Model Buddy and Chum, Ant. Coll only	.60	D4330	-Model 70, 71, R.F.	.36			
D4087	-Model 124, 1st I.F.T. complete	1.05	D4331	-Model 70, 71, I.F.	.30			
D4143	-Model 124, 2nd I.F.	.45	D4332	-Model 71, 47, R.F.	.54			
D4169	-Model 125, Output I.F.T. less shield	.60	D4333	-Model 84, R.F.	.36			
D4171	-Model Showboy, R.F. Coll. less shield	.60	D4334	-Model 84, R.F.	.24			
D4142	-Model Showboy, Ant. Coll.	.60	D4335	-Model 84, Osc.	.24			
D4200	-Model 130, Ant. Presselector Coll.	.60	D4336	-Model 84, I.F.	.63			
GENERAL MOTORS								
D4146	-Model 9A, Osc. Coll, less can.	.60	D4337	-Model 86, 87, 511, R.F.	.72			
D4162	-Gulbransen M-23 Osc. Coll.	.90	D4338	-Model 80, R.F.	.30			
D4226	-Model 211A, S10A, S10B, 220, Output I.F. Coll	.45	D4339	-Model 80, Osc.	.48			
MAJESTIC								
D4035	-Model 15-15B, 1st I.F.T. and Osc.	1.50	D4370	-Model 200, I.F.T.	.75			
D4089	-Model 15-15B, 2nd I.F.T. complete	.90	D4376	-Model 490, R.F.	.30			
D4090	-Model 15-15B, 1st R.F. less can.	.60	D4377	-Model 490, Osc.	.36			
D4091	-Model 15-15B, 2nd R.F., less can.	.45	R. C. A.					
D4121	-Model 20, 1st I.F. Coll complete	1.50	D4054	-Model 80, 82, 86, RAE 68, 1st I.F. Coll only	.60			
D4122	-Model 20, 2nd I.F. Coll complete	1.80	D4055	-Model 80, 82, 86, RAE 68, 2nd I.F. Coll only	.60			
D4092	-Model 25, 1st I.F. Coll complete	1.05	D4056	-Model 80, 82, 86, RAE 68, 3rd I.F. Coll only	.60			
D4093	-Model 25, 2nd I.F. Coll complete	1.05	D4057	-Model M34, M105, 1st I.F.	.48			
D4177	-Model 25-210, R.F. Chokes, Coll only	.30	D4058	-Model M34, M105, 1st I.F.	.48			
D4199	-Model 25, R.F. Coll Plate Choke	.36	D4153	-Model R7, R7A, R9, 10DC, RAE 16, 2nd I.F.	.60			
D4150	-Model 35, 1st I.F. Coll complete	1.50	D4067	-Model 60, I.F. Section, Coll only	.60			
D4148	-Model 35, 2nd I.F. Coll complete	.90	SPARTON					
D4172	-Model 55, 1st I.F. and Osc.	1.65	D4183	-Model 10, 1st and 2nd I.F. Transformer, Coll only	.60			
D4214	-Model 55, 1st R.F. Coll only	.60	D4184	-Model 12, 1st and 2nd I.F. Transformer, Coll only	.60			
D4215	-Model 55, 2nd R.F. Coll only	.45	D4185	-Model 14, 1st I.F. Transformer, Coll only	.60			
D4094	-Model 60-160, 1st I.F. Coll complete	1.80	D4186	-Model 14, 2nd I.F. Transformer with Center Tapped Secondary	.75			
D4095	-Model 60-160, 2nd I.F. Coll complete	1.80	D4187	-Model 15, 1st and 2nd I.F. Transformer, Coll only	.60			
D4221	-Model 60-160, I.F. Coll only	.45	D4188	-Model 16, 1st and 2nd I.F. Transformer, Coll only	.60			
D4196	-Model 70-70B, R.F. Coll, less can.	.60	STEWART-WARNER					
D4197	-Model 70-70B, Ant. Coll.	.30	D4068	-Model R116, Ant. Coll complete	.60			
D4120	-Model 90, Ant. Coll.	.60	D4069	-Model 118, Osc. complete	.60			
D4220	-Model 110, Broadcast Band Transformer	1.05	D4070	-Model 118, R.F. complete	.60			
D4098	-Model 120, 1st I.F. Coll complete	1.35	D4155	-Model 102A, Ant. Coll only	.60			
D4908	-Model 120, 2nd I.F. Coll complete	1.35	D4154	-Model 1231, R123A, 2nd I.F. Coll only	.45			
D4040	-Model 120B, R.F. Coll.	.60	D4201	-Model R125, Ant. Coll.	.60			
D4049	-Model 120B, 1st I.F. Coll complete	1.50	UNITED MOTORS-CHEVROLET					
D4036	-Model 220, 1st I.F. Coll complete	1.50	D4178	-Model 36441, 1st I.F. and Osc.	1.20			
D4180	-Model 220, 2nd I.F. Coll only	.42	D4179	-Model 36441, Ant.	.60			
D4100	-Model 220, 3rd I.F. Coll complete	.90	ZENITH					
D4103	-Model 310A, 310B, 330, 340, 360, 390, 800, 1st I.F. Coll complete	1.50	D4072	-Model 462, Hudson 1935 R.F. Coll complete	.60			
D4104	-Model 310A, 310B, 330, 390, 2nd I.F. Coll only	.48	D4073	-Model 462, Ford R.F. Coll complete	.60			
D4105	-Model 320, 1st I.F. Coll complete	1.20	D4156	-Model 608, Ant. Coll.	.60			
D4106	-Model 320, 2nd I.F. Coll complete	1.50	D4157	-Model 210, 1st I.F. complete	.75			
D4108	-Model 360, 2nd I.F. Coll only	.36	D4158	-Model 210, 2nd I.F. complete	.75			
D4208	-Model 370-400, 2nd I.F. Coll.	.48	D4159	-Model 91, R.F. Coll.	.60			
D4209	-Model 370, 1st I.F. and Osc. complete	.90	D4160	-Model 91, 1st I.F. Coll complete	.90			
D4110	-Model 390, 1st I.F. Coll complete	1.00	MAJESTIC REACTANCE DIMMER ASSEMBLY					
D4109	-Model 390, 2nd I.F. Coll only	.48	S561	-Pt. 7785, used in Majestic Models 300, 300A, 320, 360 and other models using pilot light dimmer circuit. Complete ready to install. Uses heavier built primary than original. Will outlast original.	\$.90			
D4210	-Model 440, Osc. Coll.	.36	Each					
D4047	-Model 440, Ant. Coll.	.45						
D4181	-Model 440, 1st I.F. Coll.	.45						
D4051	-Model 440, 2nd I.F. Coll only	.45						

CARRON AUTOMOBILE SPEAKER REPLACEMENT CONES

Our No.	O. D.	Net	Our No.	O. D.	Net
ARVIN			1201	Model 44 (Utah 5D)	\$0.90
1172	Model 10 (Operadio)	5	1185	Model 44 (Magnavox 165)	.90
1204	Model 20 (Operadio)	6 1/2	1271	Model Super 6 (Utah 6L)	1.20
ATWATER-KENT			1198	Model 34 (Quam)	.90
1271	Model 666 (Utah)	6 1/2	1199	Model Dual 6 (Jensen)	1.05
		1.05	1200	Model Twin 8 (Magnavox)	1.50
BELMONT			*NASH		
1201	Model 660 (Utah)	5	1203	*Model J (Philco Pt. 02861)	.60
1282	Model 670 (Rola D84)	5	1245	*Model C, D, D-122 (Philco Pt. 36-3159)	.60
		.90	1269	*Model Q (Philco Pt. 36-3157)	.60
CHEVROLET			OLDSMOBILE		
1254	Models 600,565, 600,249 (Grunow)	8	1342	405045	6 1/2 1.05
1200	Models 601, 038	8			
		1.50	*PHILCO		
*CHRYSLER			1079	*Pt. 02996, Model 3	.75
1203	*Model R (Philco Pt. 02861)	5 3/4	1203	*Pt. 02861, Models 5, 11, J, R	.60
1245	*Models D, E, G (Philco Pt. 36-3159)	7 3/4	1245	*Pt. 36-3159, Models 6, 7, 8, 9, 10, 10-122,	
1269	*Model G-122 (Philco Pt. 36-3157)	7 3/4		12, 800, 800-122, PAD, PBD, C, C-122,	
		.60		D, D-122, E, G, H, H-122	7 3/4 .60
CORONADO			1269	*Pt. 36-3157, Models 700, G-122, Q	.60
1282	Model 670-A (Rola DP4)	5			
		.90	*PLYMOUTH		
CROSLEY			1203	*Model R (Philco Pt. 02861)	.60
1212	Models 103, 167	6	1245	*Models E, G (Philco Pt. 36-3159)	.60
		1.20	1269	*Model Q (Philco Pt. 36-3157)	.60
*DE SOTO			*RCA-VICTOR		
1245	*Model E, G (Philco Pt. 36-3159)	5 3/4	1203	*Model M34, 105	.60
1269	*Model G-122 (Philco Pt. 36-3157)	7 3/4			
		.60	SENTINEL		
*DODGE			1204	Model 600 (Operadio)	6 1/2 1.05
1203	*Model R (Philco Pt. 02861)	5 3/4	1267	Model 510 (Quam)	6 1.05
1245	*Models E, G (Philco Pt. 36-3159)	7 3/4			
1269	*Model G-122 (Philco Pt. 36-3157)	7 3/4	STEWART-WARNER		
		.60	1294	Model R-231	5 .90
FORD			*STUDEBAKER		
1156	Model 118 (Majestic)	6	1203	*Model J (Philco Pt. 02861)	.60
1205	Model Zenith	6 1/2	1245	*Models C, C-122, D (Philco 36-3159)	.60
		1.20	1269	*Model Q (Philco Pt. 36-3157)	.60
*GENERAL ELECTRIC			UNITED MOTORS		
1091	*Model B40 (RCA M34)	5	1118	Model 2035 (Utah Large Cub No. 3)	7 3/4 1.35
		.60	1227	Model 4037 (Rola F5B)	.90
HUPMOBILE			1342	Model B0P (Operadio)	6 1/2 1.05
1245	Models E, G (Philco Pt. 36-3159)	5 3/4	WELLS-GARDNER		
1269	Model G-122 (Philco Pt. 36-3157)	7 3/4	1172	Model 052 (Operadio)	5 .90
		.60	ZENITH		
MAJESTIC			1205	Models 462, 650, 808 (Utah, 62E)	6 1/2 1.20
1156	Model 66, 118 (G24)	6	1251	Models Jr. No. 7 (Jensen T5)	5 .90
		.90			
MOTOROLA					
1277	Models 5T71, 6T12, 7T38, 7T47A (Jensen)	8 1/2			
1291	Models 5T71, 6T12, 7T58, 88, 61 (Jensen)	8			
1137	Model 6T12 (Jensen D14)	8 1/2			
1042	Model 6T12 (Jensen J1)	6 1/2			
1128	Models 88, 61 (Wright DeCoster 345)	8			
1125	Model 61 (Wright DeCoster 155)	6			
1054	Models 55, 77 (Magnavox 150)	6			
1233	Model 77A, 77B	7 3/4			
		1.35			

CARRON REPLACEMENT FIELD COILS

APEX GLORITONE				*JENSEN—Continued			
Part No.	Model Speaker	I. D. In.	O. D. In.	Part No.	Model Speaker	I. D. In.	O. D. In.
3000	20 2714	1	2 1/4	3066	*Models D12-D14	2 3/4	2 3/4
3001	26 2286	1 1/4	2 1/4	3067	*Model D16	1,000	1,500
3002	26A 2467	1	2 1/4	3068	*Model K1	2,500	1,500
3003	26P 2758	1	2 1/4	3069	*Model K2	4,200	1,32
3004	26P 2925	3/4	2 1/4	3070	*Model K2	2,500	1,50
3005	26P 3261	3/4	2 1/4	3071	*Model K3	3,200	1,50
3006	27 1936	1 1/4	2 1/4				
3007	32 2505	1	2 1/4	MAGNAVOX			
3008	8A 2801	3/4	2 1/4	3075	9 in. (Medium) D7, D8	2,500	3.90
3009	10B 2802	1 1/4	2 1/4	3076	9 in. (Medium) D7, D8	2,500	4.50
3010	99A 3261	1 3/16	2 1/2	3077	Early Model	7,500	3.91
3012	46	1 3/16	3	3078	Model 126	4,000	2.40
				3079	Model 130	3,000	2.40
ATWATER KENT				3080	Model 138	2,500	2.07
3017	Models 46, 53, 47 (Speaker F2) Early,			3081	Model 150	4,000	2.40
	Late 55K		1,700	3082	Model 154	2,500	2.40
3018	(Speaker F4) Early and Late, 55, 60..		1,100	3083	Model 12 in.	2,500	3.90
3019	(Speaker F6) Early and Late, 61, 66..		700				
			3.60	PHILCO			
BRUNSWICK				3129	*Model 20	3,100	1.20
3024	Models D11, 12, 16, 18, 33		2,400	3130	*Models 86, 87, 65, 95, 76, 96, 77	3,200	2.70
3030	Models 15, 22, 32, 42		2,500	3195	*Model 70	3,600	1.20
			2.52	RCA-VICTOR			
CROSLEY				3131	Model 46	2,500	2.40
3040	Model M45		350	3132	Model 66	7,000	2.85
3041	Model M45		1,500	3133	Model 106	550	2.52
3042	Model M45		2,500	3134	Model .06	6,000	3.00
3043	Model 269		10,000	3135	Model 41	500	2.40
3044	Model 120		2,300	3136	Model RC3	3,000	2.40
3045	Model 132		5,000				
3046	Model 158		8,500	ROLA			
3047	Model 167		900	3137	Model F4	3,000	1.65
3048	Model 249		2,500	3138	Model F5	1,800	1.71
3049	Model 125		1,300	3139	Model F6	2,500	2.10
			2.10	3140	Model K	4,700	2.40
ERLA				3141	Model K7	2,500	2.25
3065	Model 271 (Jensen D11)		720	STEWART-WARNER			
			1.50	3149	Model 950	10,000	4.80
*JENSEN				3150	Model R202	10,000	2.40
3057	Models D4-D5		2,250	3191	Model 102A	1,500T	3.60
3058	Models D7-D8		1,500	3192	Model 205A	1,000T	3.60
3059	Models D7-D8		2,500				
3060	Models D9-D15		550	UTAH			
3061	Models D9-D15		1,000	3164	Model 9 in., A-100	2,500	3.60
3062	Models D9-D15		1,650	3165	Model Little Giant (Isodyne)	2,500	2.04
3063	Models D9-D15		1,800	3166	Model Stadium 66A	2,500	4.20
3064	Models D9-D15		2,500				
3065	Models D10-D11		720	VICTOR			
			1.50	3167	Models R32, 45, 75	2,950	3.48

DEDUCT 2% FOR CASH WITH ORDER

55

CARRON REPLACEMENT SPEAKER CONES

Part No.	Manufacturer	O.D.	Net	Part No.	Manufacturer	O.D.	Net	Part No.	Manufacturer	O.D.	Net	
AIR LINE (Mont. Ward & Co.)				FADA				LYRIC (All-American Mohawk)				
1122	Models 28-22, 28-95; 10,000			1029	Models KO-C, 10 Series,			1047	Model D No. 9.....	1 1/2	\$1.50	
	6200; 14,000 (Utah A100)	9	\$1.65		Shallow.....	8 1/2	\$1.65	1039	Model S6, S7 (Jensen	8 1/2	1.35	
1109	Models 1800; 14, 11.....	8 1/2	1.20	1030	Models 20, 32, 15, 25, 15B,				D15).....			
1117	Models 1238, 1838, 13, 15,				16C, 16 Series Deep.....	8 1/2	1.65	1137	Model "J" Jr. (Jensen	8 1/2	1.44	
	16, 18 (Utah Large Cub			1133	Models KU45, 65, 41, 41A,				D12).....	8 1/2	1.35	
	No. 2).....	7%	1.35		42, 422, 44, 46, 47, 12A-			1143	Model S80.....	8	1.35	
1123	Models 2955, 3065 (Utah				12B.....	10 1/2	1.74	1144	Model S8.....	10	1.50	
	Stad.).....	12	1.74	*GENERAL ELECTRIC				1138	Model C-4 (Jensen T1).....	5	.84	
1118	Models 52, 45, 47, 70, 72,			1088	*Models T41, H31, H51,			1081	Model S-50 (Rola F5).....	8 1/2	1.05	
	84, 94, 79, 49, 76 (Utah				H34, H72, S22, S132, K62,			MAGNAVOX				
	Large Cub No. 3).....	7%	1.35		S42B, (RCA 106).....	10%	1.20	1048	Models D7, D8, D6, 80,			
1049	Models 360 (Magnavox			1089	*Models J80, J85, J75				90, 100, used in Sparton			
	130).....	8 1/2	1.50		(RCA 48).....	10	.90		737, 931, Newcomb-Haw-			
1039	Models 24 (Jensen D15).....	8 1/2	1.35	1163	*Model J125 (RCA R78).....	10	.99		ley NH9, Ever Ready, 30			
1114	Models 1420 (Utah Cub			1164	*Model J32 (RCA R71).....	7 1/2	.75		40, Bosch 29A, Kellogg			
	2 pt.).....	6	.90	1165	*Models J100, J105, J107,				523.....	9	1.65	
1115	Models 45, 47, 70, 72, 81				J109 (RCA R74).....	10	.99	1049	Models 130, 136, used in			
	(Utah Cub, 3 pt.).....	6	.90	1091	*Models B40, 65.....	5	.60		Air Line 360, Crosley 269,			
1037	Models 89, 24 (Jensen			1134	*Models RL-66-1.....	5	.60		Zenith A, B, C, D.....	8 1/2	1.50	
	D9).....	11 1/2	1.65	1225	*Models K60, K65, K63,			1050	Models 130, 138, 401, used			
1172	Models 96, 98, 104 (Op-				K64, B81, B86, K58.....	6 1/2	.60		in Crosley 249, Columbia			
	eradio).....	5	.90	GENERAL MOTORS					110, Audiola 31, Sparton			
1119	Models 33-25; 62,000, 11-			1084	Model 120 (Rola "J").....	9 1/2	1.65		600, Jackson-Bell 68, 88,			
	000, 33-35 (Utah Little			1085	Model "Little General"				89A, 89, 99.....	8 1/2	1.50	
	Giant No. 1).....	8	1.20		(Rola "K").....	7%	1.50	1051	Models 140, 142.....	9 1/2	1.50	
1035	Models 2955 (Jensen D8).....	11%	1.74	1080	Model 1907 (Rola F5).....	6	1.05	1052	Models 140, 143.....	11 1/2	1.65	
1076	Models AE10 (Oxford) 3			*GRAYBAR ELECTRIC				1053	Models 140, 144, used in			
	pt.).....	10	1.50	1088	*Models GB678, GB700,				Crosley 124.....	7 1/2	1.35	
1038	Models 83 (Jensen D11).....	8 1/2	1.44		GB770, GB900, GB100			1054	Models 150, 2 pt., used in			
1074	Models 11,000, 33-35 (Ox-				(RCA 106).....	10%	1.20		Sparton 333.....	8	1.05	
	ford).....	8%	1.44	1089	*Models GB8, GB989,			1057	Model 150D, Inside Spider			
1137	Models 11,000, 33-35 (Jen-				GB9, GB7, GC14, GC13,				der, used in Columbia			
	sen D12, D14).....	8 1/2	1.44		GT8 (RCA 48).....	10	.90		C-80-A.....	8	1.05	
ATWATER KENT				1163	*Models GT8-56 (RCA			1055	Model 154, Inside Spider.....	8	1.35	
1000	Pt. No. 15142, for Models				R71).....	7 1/2	.99	1200	Models 154D, 158, 2 pt.,			
	43, 46, 55, 60, 66, 67, 64,			1164	*Models GT10-69, GT10-				used in Motorola Twin			
	F4.....	10%	1.20		88, GC10-99 (RCA R74).....	10	.75		8, Crosley 325-4.....	8	1.50	
1001	Pt. No. 14374, for Models			JENSEN				1056	Models 101, 105, 107, 109,			
	43, 46, 55, 60, 66, 67, 64,			1136	D1—Used in Silver Mar-				201, 401, 403, 405 (shal-			
	F2.....	10%	1.20		shall, Model JT.....	6 1/2	1.35	1145	Models 410, 412, 414, 416,			
1002	Pt. No. 19465, for Models			1034	D4, D6.....	9 1/2	1.74		418, 116, 118, 210 (deep).....	1 1/2	1.95	
	80, 92, 84, 55, 62, 87,			1035	D7, D8, Used in Dayton			1259	Model 111.....	11 1/2	1.74	
	90, 92, 87, Early Models				Navigators, Sparton 737,			1221	Models 152X, 160, used in			
	83, 85.....	8%	1.05		921, Silver Marshall C,				Crosley 170.....	10	1.65	
1003	Pt. No. 18081, for Models				etc., Air Line 2955, How-			1185	Models M44, 158, 165,			
	H2, L, F, P, H.....	10%	1.20		ard "Green Diamond,"				used in Motorola 44.....	8	.90	
					Gulbransen 727, Grebe			1242	Model 195.....	6	.84	
BEST					AH1, SK4, Edison R7,			MAJESTIC				
1006	.....	6%	1.05		Kennedy 22, etc.).....	11 1/2	1.74	1058	G1 for Models 71, 72.....	9	1.17
1159	D5.....	5	.90	1036	D9 (Outside Spider).....	11 1/2	1.74	1059	G2 for Models 71, 72, 91,			
1160	D65.....	6	1.05		D9 (Inside Spider) used				92, 18.....	9	1.17	
BOSCH					in Zenith 92, Crosley 124,			1060	G3 for Models 90, 91, 93,			
1007	Models 48, 58.....	9%	1.65		127, Kennedy 50, etc.,				101, 102, 103.....	10	1.20	
BRUNSWICK					Silver Marshall ABC,			1061	G4 for Model 130.....	10	1.20	
1017	Model 10 (Clarion 60).....	8%	1.50		etc., Air Line 89, 24.....	11 1/2	1.65	1062	G5 for Models 131, 132,			
1012	Model D, 11, 12.....	9	1.50	1038	D10, D11, used in Air				233, 61, 62, 163.....	12	1.74	
1013	Models 16, 18, 33, 17, 24,				Line 83, Kennedy 42.....	8	1.44	1063	G6 for Models 51, 52, 53, 10			
	25.....	12	1.74	1137	D12, D14, used in Silver				for Model 21.....	10	1.50	
CLARION					Marshall 782, Lyric "J"			1065	G8 for Model 22.....	12	1.74	
1017	Models 60, 80, 81, 85, 90,				Jr., Air Line 11,000, 33-			1066	G9 for Model 23.....	12	1.74	
	91, 100, 120, 25-60.....	8%	1.50		35.....	8 1/2	1.44	1067	G10B, G10C, G10D, G10E			
1018	Models 51, 53, 55, 25-51,								for Models 151, 153, 154,	7 1/2	1.20	
	25-53, 25-55.....	12	1.65	1039	D15, used in Sparton 600				155, 156.....			
1019	Models 85, 120, 94, 25-94,				Series, Air Line 24, Ken-			1068	G11B, G11C for Models			
	160, 25-160.....	10	1.50		neddy 52, 56, Lyric S6, 57,	8%	1.35		251, 253, 254, 201, 203,			
COLONIAL					1040	D16, used in Majestic 311,				204, 211, 214.....	10	1.44
1085	Model 36 (Symington).....	9%	1.50		Kennedy 52A, etc.).....	8	1.35	1069	G13B, G13C for Models			
1089	Models 33, 38.....	12 1/2	1.74	1217	D17.....	7%	1.35		353, 215.....	12	1.35	
1208	Models 37, 44, 52, 85, 62			1044	D19 (Short 3 pt. Spider).....	10	1.65	1070	G14, G14B, G14C, G14D,			
	97, 51, 53.....	9%	1.50		1300 D19 (Long 3 pt. Spider).....	10	1.65		G14E, G14F for Models			
CROSLEY					1301 D19 (Inside Spider).....	10	1.50		351, 353, 223, 221, 407.....	12	1.20	
1027	M45, Models 262, 425, 625,			1041	DA5, DA6, Auditorium.....	13	3.00	1040	G1J16B for Model 311			
	40S, 30S, Dynacoll.....	9	1.50		1302 DA7 Auditorium.....	13	3.00		(Jensen D11).....	8	1.35	
1117	Model 124 (Utah Large			1042	J1, J2, used in Stewart-			1071	G19A, G19B, G19C, G19F,			
	Cub No. 2).....	7%	1.35		Warner 206A.....	6 1/2	1.05		G19G for Models 251, 251,			
1037	Models 124, 127 (Jensen				1139 K1, K2.....	6 1/2	1.05		293, 294, 303, 304, 324,			
	D9-I, S.....	11 1/2	1.65		1218 K3, K4.....	6 1/2	1.05		314.....	10	1.20	
1053	Model 124 (Magnavox				1307 K54 used in Motorola			1072	G22A, G22B, G22C, G22D,			
	144).....	7 1/2	1.35		Dual 6.....	6 1/2	1.05		G22E, G22K for Models			
1118	Model 125 (Utah Large				1140 P. M. 1.....	8 1/2	1.35		336, 344, 363, 393.....	12	1.20	
	Cub No. 3).....	7%	1.35		1184 P. M. 2.....	8 1/2	1.35	1151	G5, Improved Type, Mod-			
1055	Model 135 (Magnavox				1285 Series "R".....	6	1.05		els 131, 132, 233, 61, 63,			
	154).....	8	1.35		1286 Series "R".....	5	.90		163.....	12	1.74	
1115	Model 148 (Utah Cub 3				1138 T1, T2.....	5	.84	1152	G6, Improved Type, Mod-			
	pt.).....	6 1/2	.90		1043 T3, used in Crosley 343,				els 51, 52, 53.....	10	1.50	
1211	Model 159.....	6 1/2	.90		175 Roamio.....	5	.84	1153	G7, Improved Type, Mod-			
1283	Model 166.....	5	.90	KENNEDY					el 21.....	10	1.50	
1212	Models 187, 103.....	6 1/2	.90	1017	Model 20 (Clarion 60).....	8%	1.50	1154	G8, Improved Type, Mod-			
1167	Model 167 (Rola F4).....	5	.84	1037	Model 220 (Jensen D9).....	11 1/2	1.65		el 22.....	12	1.74	
1221	Model 170 (Magnavox			1035	Models 22, 26, 30, 36, 38,			1155	G9, Improved Type, Mod-			
	152X).....	10	1.65		40 (Jensen D7).....	11 1/2	1.74	1156	G24 for Model 116—Ford			
1218	Model 173 (Jensen K3).....	6	.90		1038	Model 42 (Jensen D11).....	8 1/2	1.44		Auto.....	6	.90
1043	Model 175 (Jensen T3).....	5	.84	1119	Models 50, 63, 63A (Utah			1157	G25 for Model 381—Pirate			
1237	Models 214, 346-2.....	5	.84		Little Giant No. 1).....	8	1.20		Chest.....	5	.84	
1049	Model 269 (Buddy Boy).....	8 1/2	1.50	1037	Models 50, 56, 62, 64, 220			1158	G26A, G26C for Models			
1050	Model 249 (Magnavox				(Jensen D9).....	11 1/2	1.65		371, 373, 411, 413, 411A,			
	138).....	8 1/2	1.50	1039	Models 52, 56 (Jensen				413A.....	5	.87	
1200	Model 325-4 (Magnavox				D15).....	8%	1.35	1159	"Best D5" for Models 371,			
	154, 2 pt.) 146, 168.....	8	1.50	1040	Models 62A, 62D, 66B				373.....	5	.90	
EVER READY					(Jensen D16).....	8 1/2	1.35	1160	"Best D65" for Model			
1048	Models 30, 40 (Magnavox			KOLSTER					331.....	6	1.05	
	D7).....	9	1.65	1141								

CARRON REPLACEMENT SPEAKER CONES

Part No.	Manufacturer	O. D.	Net	Part No.	Manufacturer	O. D.	Net	Part No.	Manufacturer	O. D.	Net
OPERADIO											
1172	Used in Sentinel 560, Truetone, Airline 96 95, 104, Arvin 10, Wells Gardner 05Z	5	\$0.84	1165	280, 321, 327, 330, 331, 340, 340E, 341, 380 (RCA R74)	10	\$0.99	1114	Cub 6C, 2 pt. Spider, used in Airline 1420, Zenith 705	6	\$0.90
1261	Inside Spider	6	1.05	1164	*Pt. 8984, Model R-3B (RCA R71)	7 1/2	.75	1115	Cub, 3 pt. Spider, used in Airline 45, 47, 70, 72, 81, Crosley 148	6	.90
1268		8	1.20	1165	*Pt. 9432, Models R-510, R53B, 135B, 235B, 236B (RCA R74)	10	.99	1116	Large Cub, No. 1 Speaker 8L, Inside Spider	7 1/2	1.20
1204	Used in Sentinel 600, Arvin 20A	6 1/2	1.05	1164	*Pt. 9471, Models 91B, 102 (MAG 5 in.)	5	.60	1117	Large Cub, No. 2, 2 pt. Spider, used in Crosley 124, Airline 1238, 1838, 1840	7 1/2	1.35
OXFORD											
1162	Joy Kelsey Type Model 23	10	1.50	1225	*Pt. 9539, Models 135B, 235B (RCA R71)	7 1/2	.75	1118	Large Cub, No. 3, 3 pt. Spider, used in Crosley 125, Airline 52, 45, 47, 70, 72, 84, 94, 79, 49, 76	7 1/2	1.35
1186	Joy Kelsey Type	8	1.35	1084	D90, D110 Old Model "J." used on Silver Marshall 850, Day Fan, General Motors 120	7 1/2	1.20	1119	Little Giant No. 1, inside Spider, used in Isodyne, 700, 749, Zenette, Airline 33-25, 62,000, 11,000, Kennedy 50, 63, 64	7	1.20
1074	Models 23, 31, 59, 24, used in Airline 11,000, 93-35	8 1/2	1.35	1085	Series "K." used on Spartan 410, General Motors "Little General"	7	1.50	1120	Little Giant No. 2, 2 pt. Spider	7 1/2	1.35
1075	2 pt. Spider (Oval)	10	1.50	1086	K9, inside Spider	11	1.65	1121	Little Giant No. 3, 3 pt. Spider	7 1/2	1.35
1076	Models 23, 31, 59, 24, used in Wells Gardner No. 9, Gulbranson 62, Airline AE10	10	1.50	1122	K9, 3 pt. Spider	11	1.74	1122	A100, D200, used in Airline 28-22, 28-95, 10,000, 6200, 14,000, Balkett	8 1/2	1.65
1077	Models 70, 72, 67, used in Zenith 52	12	1.74	1188	K7	9	1.65	1123	Stadium, 66A, 66B, used in Airline 2955, 3065	11 1/2	1.74
*PHILCO											
1078	*Pt. 36-3170, Models 40, 41, 42, 65, 76, 77, 87, 90, 95, 96, 111, 112	10 3/4	.84	1226	F5B, used in United Motors 4037, Chevrolet 4037	6 1/2	.90	1170	P10, used in Radiochron	8 1/2	1.20
1079	*Pt. 02996, Models 3, 20, 21, 46, 70, 90, 470, 490	8	.75	1282	"C"	10 1/2	1.74	1230	Model 12B, 3 pt. Spider, 16 ohm VC	12	1.74
1203	*Pt. 02861, Models 5, 48, 50, 80, 81, 52	5 3/4	.60	1311	F6B	8	1.20	1304	Model 12B, 3 pt. Spider, 11 ohm VC	12	1.74
1243	*Pt. 36-3000, Model 53	5 1/2	.60	SILVER-MARSHALL							
1244	*Pt. 36-3029, Models 54, 57	5 1/2	.60	1036	Models A, B, C, D, E, EP, G, J, Q, Z, 726-SW, 773 (Jensen D9)	11 1/2	1.74	1205	Model 62E, used in Zenith 462, 650, 808	6 1/2	1.05
1245	*Pt. 36-3159, Models 6, 7, 8, 9, 10, 12, 14, 15, 19, 43, 47, 71, 89, 91	7 1/2	.60	1035	Models C, 33A, 34A, 35A, 36A, 40, 41, 30, 1021 (Jensen D8)	11 1/2	1.74	1271	Model 6L, used in AK666, Motorola Super 6	6 1/2	1.05
1246	*Pt. 36-3014, Models 38, 60	7 1/2	.60	1044	Models JT, O, DeLuxe, RT, Y (Jensen D19)	10	1.65	1111	Model 10A, used in Apex Model 10B	10	1.50
1247	*Pt. 2898A, Model 86	9	.90	1136	Or (Jensen D1)	6 1/2	1.35	1295	Model 10C, 2 nt. Spider	10	1.50
1248	*Pt. 02625, Models 14, 15, 44, 91	10 1/2	.84	1138	Or (Jensen D1)	6 1/2	1.35	U.S. APEX GLORITONE			
1249	*Pt. 36-3061, Models 16, 17	10 1/2	.84	1139	Or (Jensen D1)	6 1/2	1.35	1103	Model 20, Speaker 2714	6	.90
1269	*Pt. 02887, Models 35, 37, 50, 51	8 1/2	.75	1141	Model 30 (Rola J.)	9 1/2	1.65	1104	Model 26, Speaker 2286	8 1/2	1.30
*RCA-VICTOR											
1087	*Nos. 104, 105	8	1.20	1084	Model 30 (Rola J.)	9 1/2	1.65	1105	Model 26A, Speaker 2167	8	1.20
1088	*Pt. 8558, Speaker 106, Models RE20, R34, R35, R39, R50, R55, RE57, RAE59, RAE79, R80, R82, R86	10 1/2	1.20	1093	Or (Symington)	10	1.50	1106	Model 26P, Speaker 2753	8	1.20
1089	*Pt. 8601, Models 48, R6, R7, R-7A, R-7LW, R8, R9, R-9DC, R-10, R-10DC, R-11, R12, R14, R15, RE16, RE-16A, RE17, RE18, RE-18A, RE19, R21, RO-23, RAE-26, CE-29, R34, R42, R-43DC, RE73	10	.90	1137	Model 782 (Jensen D12)	8 1/2	1.41	1107	Model 26P, Speaker 2753	8	1.35
1090	*Photophone	14 1/4	1.74	SILVERTONE (Sears-Roebuck & Co.)							
1091	*Pt. 9023, M34, M105	5	.60	1098	Models 111, 1322 (Symington)	10	1.50	1108	Model 26P, Speaker 3261	8	1.35
1236	*Pt. 8987, Models R28, R25P, K22, R-28EW, RE-40, RE40P, 100, 101, 110, 111, 114, 115, M116, 300, 301	5	.60	1099	Models 111, 1124, 109 (Symington)	12 1/2	1.74	1109	Model 27, Speaker 1936	8 1/2	1.20
1225	*Pt. 9428, Models R37, R37P, R38, R38P, 112, 120, 121, 122, 124, 126B, 142B, 241B, 310, 320	6 1/2	.60	1208	Models 376, 1404, 1580, 1582, 1586, 1588, 1589, 1650, 1670, 1590, 1592 (Colonial 37)	10	1.50	1110	Model 8A, Speaker 2801	8	1.35
1163	*Pt. 8916, Models R78, CRD-9AC, CRD-9DC, RAE-84	10	.99	1253	Models 1640, 1652, 1722, 1732, 1722X, 1732X, 1721, 1726, 1726X, 1822, 1831 (Colonial 71)	11 1/2	1.65	*VICTOR			
1164	*Pt. 8921, Models R71, R71B, SWA-3, R24	7 1/2	.75	SONORA							
1165	*Pt. 8935, Models R74, R70, R73, R75, R76, R77, RE81, 123, 128E, 210, 211, 212, 223, 224, 224E, 322, 322E	10	.99	1098	Model 30	10	1.50	1124	*R 32, 45, 75, 52	9	1.05
1166	*Photophone	7 1/2	.90	1099	Model 30	12 1/4	1.74	1088	*RE 57, 34, 35 (RCA 106)	10 1/2	1.20
1124	*Pt. 10801, Models R32, R35, E35, RE45, R52, R75, E-135, E152, RE164, RE156	9	1.05	SPARTAN							
1164	*Pt. 7236, Models R5, RK5, R-5DC (RCA R71)	7 1/2	.75	1048	Models 737, 89A, 99, 101, 109, 110, 11, 301, 589, 591, 593, 740, 750, 930, 931 (Magnavox D7)	9	1.65	WELLS-GARDNER			
1164	*Pt. 7594, Models R17-M, R27 (Magnetic) (MAG5)	5	.75	1035	600 Series (Jensen D15)	8 1/2	1.35	1076	No. 9 (Oxford 3 pt.)	10	1.50
1134	*Pt. 7598, Models R-18W, R27 (Dynamic) (GE RL56)	6 1/2	.60	1039	600 Series, 610 (Magnavox 138)	8 1/2	1.35	1167	Model 621 (Rola F4)	5	.81
	*Pt. 8359, Model R22 (RCA 100)	10	.90	1085	Model 10, 14, 15, 56, 72 (Rola F6)	7 1/2	1.20	WRIGHT DECOSTER			
1164	*Pt. 8829, Models M30, P31 (RCA R71)	7 1/2	.75	1083	Model 333 (Magnavox 150)	6	1.05	1125	Model 155, used in Motorola 6, 61, 88	6 1/2	1.20
1164	*Pt. 9869, Models RE80, AVRI, AVR-SA, F72, R73A, R75A, R90, R90P, 140, 141, 141E, 220, 222, 240, 242, 260, 261, 262, 262	7 1/2	.75	STEINITE							
				1093	(All Models)	10	1.74	1126	Model 107	12	1.74
				STEWART WARNER							
				1094	Models 200A, 445A, 565A, 440, 950, 201A (2 pt. Spider)	9	1.63	1127	Model 207	12	1.74
				1095	Models 445A, 200A, 565A, 440, 950, 201A (2 pt. Spider)	9	1.63	1128	Model 345, used in Motorola 88, 61	8	1.50
				1096	Model 104A, R206, R204A	8	1.50	1129	Model 107	10	1.65
				1097	Model R202A	8 1/2	1.50	1232	Model 275	5	1.05
				1042	Model 410 (Jensen J1)	6 1/2	1.05	1292	Model 225	12	1.74
				1283	Model R-123-A, R224-A	6	1.05	1305	Models 265, 790	10	1.50
				1190	Model R203A	6	1.20	GENUINE WRIGHT DECOSTER			
				SYMINGTON							
				1098	LL18, used in Colonial 36, Sonora 30	9 1/2	1.50	WD200CA	Model 390	5	1.00
				1099	LL18, used in Zenith 52, 30, Silvertone, Sonora 30	12 1/4	1.74	WD250CB	Model 530	6 1/2	1.15
				TEMPLE							
				1100	9-inch Speaker	9	1.50	WD250CC	Model 630	8 1/2	1.25
				1101	11-inch Speaker	11	1.65	WD275CD	Model 790	10 1/2	1.40
				1102	Auditorium Speaker	14	2.40	WD400CF	Model 1980	12 1/2	2.00
								WD400CF	Model 2940	12 1/2	2.00
								WD500CG	Model 4500	12 1/2	2.50
								WD500CH	Model 5800	12 1/2	2.50
								WD500CJ	Model 107	10 1/2	2.50
								WD500CK	Model 107	12 1/2	2.50
								WD500CN	Model 207	12 1/2	2.50
								WD500CH	Model 305	12 1/2	2.50
								WD500CL	Model 309	12 1/2	2.50
								WD500CG	Model 315	12 1/2	2.50
								WD500CM	Model 319	12 1/2	2.50
								WD400CF	Model 325	12 1/2	2.00
								WD400CE	Model 425	12 1/2	2.00
				ZENITH							
				1077	Models 52, 72 (Oxford)	12	1.74				
				1077	Models 52, 72 (LL18)	12 1/4	1.74				
				1099	Models 52, 72 (Magnavox 10 1/2), 712, etc.	11 1/2	1.71				
				1016	Model 92 (Jensen D9)	11 1/2	1.74				
				1130	Model 103 (Peter-Smith)	12	1.74				
				1049	Models A, B, C, D (Magnavox 136)	8 1/2	1.50				
				1119	Models "Zenette" (Utah Little Giant No. 1)	7	1.20				
				1114	Model 705 (Utah Cub)	6	.90				
				1291	Model 753 (Jensen D16-3 pt. Spider)	8	1.35				
				1205	Models 650, 462, 808 (Utah 62E)	6 1/2	1.05				
				1199	Model 825 (Jensen)	6 1/2	1.05				
				1295	Models 770B, 775B, MH, 2022, Utah	1.50					

DEDUCT 2% FOR CASH WITH ORDER

Speaker Accessories



CARRON SPEAKER CENTERING SHIMS

For adjusting cone in pole piece. 16 shims assorted in 4 sizes—.005, .0075, .010 and .0125 in. In handy leather case. **\$0.35 Per Set.**

EVEREADY SERVICE CEMENT and SOLVENT

Cement—specially prepared for cementing new cones, for repairing rattling cones, loose tube bases, etc. Is quick-drying, waterproof. Large 2-oz. bottle.....**\$0.30**
Solvent—for loosening old cement on radio parts and is a good cleaner. Can be used to thin the cement. 2 oz. bottle.....**\$0.15**



DIAL LITE COLORING

Modern radio receivers use colored dial lites, making it necessary for servicemen to have this kit. Five colors as shown in illustration. Instant drying. No. ED1—Per kit.....**\$0.30**

COLOR CODING ENAMEL

Handy item for coding coil forms, jacks, terminal strips, etc. Four bottles of enamel—green, blue, red and yellow—and one bottle of thinner, together with four brushes. No. A190.....**\$0.30**



PERMEABILITY COIL DOPE

To increase inductance of low coils or match up odd ones. Just smear it on and let it dry. May also be applied inside of form. 2 oz. tube.....**\$0.25**



EVEREADY LIQUIDOPE

An ideal coil dope, specially prepared for holding windings to coil forms. Tightens the windings and gives an all-weather coat to windings as well as protection against scratches, etc. 2 oz. bottle. No. ED2.....**\$0.30**

UTAH ORTHOVOX COILS

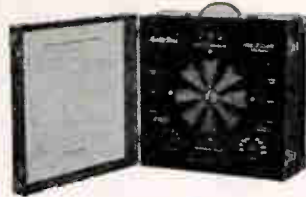
High Impedance, 7000 ohms
Med. Impedance, 4000 ohms
Low Impedance, 2000 ohms

Each **\$0.45**



BEST KINEMATIC COILS

Price Each
High Impedance tubes.....**\$0.45**
Med. Impedance tubes.....**0.45**
Low Impedance tubes.....**0.45**
RCA 100-100A, etc. Pair.....**0.45**



WRIGHT-DECOSTER MULTI-TEST SPEAKER

\$30.00 List

- * Universal output transformer
- * Universal voice coil transformer.
- * Universal field coil transformer.
- * Matches all tubes.

- * Matches all output transformers.
- * Matches all set field combinations.

HOW TO GET ONE

Upon deposit of \$15.00 with us, we will ship you a Wright-DeCoster Multi-Test Speaker. We will accept 75 of these Wright-DeCoster coupons any time on or before the expiration date of this offer as a merchandise credit of \$7.50 against your deposit of \$15.00. Thus making this Wright-DeCoster Multi-Test Speaker

Cost You Only \$7.50

These valuable coupons are packed with all Wright-DeCoster products:

- 1 coupon with each Model 5 and 6-inch speaker.
- 2 coupons with each Model 8-inch speaker.
- 3 coupons with each Model 10-inch speaker.
- 5 coupons with each Model 12-inch speaker.
- 10 coupons with each stadium model speaker or horn.

This offer expires January 1, 1937.

CAMPBELL'S BLACK WRINKLENE LACQUER

This lacquer will give any metal part that professional appearance. You can easily crackle your own panels, chassis, etc. Complete directions furnished.

No. CL2—½ pint.....**\$0.69**
No. CL1—Pint can.....**1.25**

HIGH VOLTAGE INSULATING CAMBRIC

Breakdown Voltage, 10,000 Volts

Used in building transformers, repairing field coils, etc. This is a dry yellow cambric that is dependable and safe. Handy for servicemen as well as amateurs. Over 210 square inches in the roll.

No. RS—Per roll.....**\$0.30**



A.C. - D.C. FIELD COILS

No. U300—1000 ohms.
No. U301—1500 ohms.
No. U302—2000 ohms.
No. U303—2500 ohms.
No. U304—3000 ohms.

Furnished with extra gaskets and additional cores.

Your price

90c



LOUD SPEAKER GRILL CLOTH

Beautiful designs to harmonize with finish of cabinets. Furnished in squares 12 in. x 12 in.

No. G100 Walnut.....**21c** | No. G101 Mahogany.....**30c**

CARRON COMMUNICATOR

This system consists of a compact amplifier of special design, housed in an attractive crystalline finished metal case, and two identical station units with the necessary cables for quick installation. Each station unit consists of a high grade P. M. speaker, encased in a fine hand rubbed walnut finish cabinet. The "Talk-Listen" switch is of the quick acting push button type, employing special alloy contacts in the springs.

EXCLUSIVE CARRON FEATURES

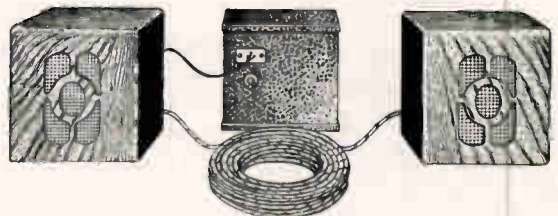
- 1—Only one electric outlet needed for the entire system.
- 2—Can be installed by anyone in five minutes. No splicing or screws to loosen.
- 3—Voice is reproduced as clear and distinct as a radio. No blasting—speak at arm's length.
- 4—As many as four station units may be used with one amplifier in much the same way as a four party telephone line.
- 5—More economical in first cost, as well as upkeep, than any other system on the market.

EITHER A.C. OR D.C.

Will Handle
Up to Four
Stations

\$19.50

Extra Station Units \$7.20





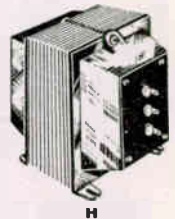
FRANKLIN TRANSFORMERS FOR TRANSMITTERS PLATE SUPPLY PLATE and FILAMENT FILAMENT DRIVER and MODULATION TRANSFORMERS



Type K

PLATE TRANSFORMERS

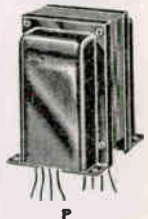
Type	Volts AC RMS	Mills	Mounting	Mounting Area	Tubes	Price
FTP-1	1500 1000	175	K	5 1/2 x 6 1/4 x 6 1/4	03A-211-T55-50T-35T-830B-800-RK20	\$11.25
FTP-2	2000 1500	250	K	5 1/2 x 7 1/2 x 6 1/4	HD203A-852-150T-822-814-T155-T200-RK36	15.95
FTP-4	1500 1000	300	K	5 1/2 x 6 x 6 1/4	Pair 800's-T55's-03A's-211's-825's-35T's-845's-841A's	8.90
FTP-5	2500 1500	250	K	5 1/2 x 8 1/2 x 6 1/4	HD03A-814-822-204A-303C-150T-T155-RK36-852	17.75
FTP-7	500	150	D	3 1/2 x 5 1/2 x 4 3/4	Pair 10's-801's-802's-RK23-25-841's-RK10's	4.50
FTP-8	750	200	P	3 1/2 x 5 1/2 x 4 3/4	Pair 10's-T55's-825's-756's-35T-RK10's-RK35	5.50
FTP-51	500	300	P	3 1/2 x 5 1/2 x 4 3/4	6L6's-10's-801's-35T-841's-RK10's-RK35's-T55's	6.00
FTP-52	1500 1000	600	K	5 1/2 x 9 1/2 x 6 1/4	Both Class C and Mod. Pair 03A's-T55's-50T's-RK20's, etc.	18.00
FTP-53	3000 2000	200	K	5 1/2 x 9 x 6 1/4	150T-852-RK36-T155-814-822-04A	21.00
FTP-54	3000 2000	350	K	5 1/2 x 10 x 6 1/4	Pair 150T's-852's-RK36's-T155-814-822	25.00
FTP-55	1200 1100 1000	300	K	5 1/2 x 6 x 6 1/4	Bridge—Not C. T.	7.50
FTP-56	1200 1100 1000	600	K	5 1/2 x 7 1/2 x 6 1/4	Bridge—Not C. T.	9.50



H

PLATE AND FILAMENT TRANSFORMERS

Type	Volts AC RMS	Mills	Mounting	Mounting Area	Tubes	Price
FT-3	750, 7.5V-3A, 7.5V-3A, 5V-3A	300	K	5 1/2 x 6 x 6 1/4	10's-825's-T55-RK10's-756's-801's-800's	\$ 7.30
FT-6	400, 7.5V-3A, 7.5V-3A	100	P	3 1/2 x 5 1/2 x 4 3/4	50-81-10-841-801-RK10	4.00
FT-11	600, 2.5V-4 1/2 A, 5V-3A	150	K	3 1/2 x 5 1/2 x 4 3/4	46's-RK23-45's-RK34, etc.	6.50
FT-182	350, 2.5V-3A, 2.5V-3A, 5V-3A	200	D	3 1/2 x 3 x 4 1/2	Pair 46's-45's-2A3's-53's-RK34-59's-47's-2A5's, etc.	4.75
FT-282	450, 2.5V-3A, 2.5V-9A, 5V-3A	200	D	3 1/2 x 5 1/2 x 4 3/4	Mod. and Low Power Stages 2A3's, 45's-59's-47's, etc.	5.00
FT-283	600, 7.5V-3A, 5V-3A	150	P	3 1/2 x 5 1/2 x 4 3/4	801-10-RK-10-825-756-841-50's-T55	5.40
FT-284	600, 2.5V-3A, 5V-3A	150	P	3 1/2 x 5 1/2 x 4 3/4	46's-RK23-45's-RK34	5.40



P

FILAMENT TRANSFORMERS

Type No.	Windings	Style	Insulation	Tubes	Net Price
FTF-10	7.5V-7.5V-3.5ACT-3.5ACT	P	7500	801-10-RK10-825-756-T55-800-841A, etc.	\$ 4.00
FTF-20	10V-10ACT	P	7500	03A-11-814-822-T155-845-HD-03A-852	4.75
FTF-25	11V-10ACT Use Pri. Rheostat	P	7500	T200-204A	5.25
FTF-30	12V-8ACT Use Pri. Rheostat	P	7500	T200-204A-849	4.75
FTF-40	2.5V-10ACT	P	7500	46's-45's-RK23-47-53's-82	3.20
FTF-41	2.5V-5V-12ACT-3ACT	O*	1000	46's-45's-RK23-2A5-53-47-80-83-83V-5Z3, etc.	1.45
FTF-42	2.5V-2.5V-2.5V-12ACT-3ACT-3ACT	O*	1000	46's-45's-RK23-2A5-53-47-80-83-83V-5Z3, etc.	1.65
FTF-43	7.5V-5V-3ACT-3ACT	O*	1000	RK 10-801-825-T55-50-81-523-83-83V-80	1.45
FTF-45	7.5-4ACT	O*	1000	10-801-825-T55-50-81-523	1.25
FTF-46	5V-5V-5V-6ACT-3ACT, 3ACT 3ACT	D	1500	Bridge Rect. for 80-83-5Z3, etc.	2.60
FTF-47	2.5V-10ACT	O*	3000	46's-45's-2A3's-2A5-47, etc.	1.50
FTF-48	2.5V-2.5V-2.5V-10ACT-10ACT-10ACT	D	6000	Bridge Rect. 82	4.40
FTF-49	7.5V-8.5ACT	O*	1000	RK10-801-825-T55-50-81, etc.	1.65
FTF-50	5V-20ACT	P	7500	872's	4.75
FTF-72	10V-10ACT	P	2500	03A-110-800	3.40
FTF-76	6.3V-5V-6ACT-3ACT	O*	1000	6L6's	1.65

* With Lugs instead of Wire Leads.



O

DRIVER AND MODULATION TRANSFORMERS

Type	Purpose	Pri.	Sec.	Class C Load	Mtg. Flg.	Watts Output	Price
F-559	Output	2-46's	5000	500V-100MA	P	20	5 3.30
F-560	Driver	1-46	2-46's	180V-45MA	P		2.25
F-565	Output	79, 2A6, etc.	4000	180V-45MA	P	5.5	2.25
F-564	Driver	89, 2A5, etc.	2A6, 53, etc.		P		2.25
F-581	Output	10's, 841's, etc.	5000	750V-150MA	P	50	5.70
F-580	Driver	45's, 2A3's	10's, 841's, etc.		K		2.25
F-288	Output	800's	5000, 20000	1000V-200MA 2000V-100MA	P	100	8.75
F-287	Output	203A's	2500, 10000	1000V-400MA 2000V-200MA	K	200	12.50
F-286	Driver	2-2A3's	800's-03A's		P		3.75
*FT-601	Driver	2-4C5's	2-6L6's	Max DC in Sec.	P		1.80
*F-602	Output	2-6L6's	7500 5000 2500	150MA 200MA 250MA	P	30 Cl. A. 60 Cl. B.	4.80

*See June Issue "QST"



D

DEDUCT 2% FOR CASH WITH ORDER



FRANKLIN UNIVERSAL REPLACEMENT TRANSFORMERS

NEW PLATE AND FILAMENT TRANSFORMERS FOR EXISTING RECEIVERS, AMPLIFIERS, PUBLIC ADDRESS and POWER SUPPLIES

WITH 6.3 VOLT FILAMENTS

		Mounting		O	P	B	R	D
For 4 Tubes	Plate	600 Volts C. T.	40 M. A.	Type	F-136	F-133	F-134	F-135
	Fila.	5 Volts	2 Amps.	Net	\$1.17	\$1.80	\$1.17	\$1.50
	Fila.	6.3 Volts C. T.	1.6 Amps.	Mtg. A.	3 3/4 x 2 3/4	2 3/4 x 3 3/4	2 1/2 x 3	2 1/2 x 3
				Ship. Wt.	2 3/4 lbs.	2 3/4 lbs.	2 3/4 lbs.	2 3/4 lbs.

For 4 or 5 Tubes	Plate	650 Volts C. T.	40 M. A.	Type	F-140	F-141	F-138	F-139
	Fila.	5 Volts C. T.	2 Amps.	Net	\$1.35	\$2.16	\$1.35	\$1.65
	Fila.	6.3 Volts	2 Amps.	Mtg. A.	3 3/4 x 2 3/4	3 1/4 x 3 3/4	3 3/4 x 2 3/4	3 3/4 x 2 3/4
				Ship. Wt.	3 3/4 lbs.	4 lbs.	3 3/4 lbs.	3 3/4 lbs.

For 4 or 5 Tubes	Plate	650 Volts C. T.	50 M. A.	Type	F-144	F-142	F-143	
	Fila.	5 Volts	2 Amps.	Net	\$1.50	\$1.50	\$1.80	
	Fila.	6.3 Volts C. T.	2 Amps.	Mtg. A.	3 3/4 x 2 3/4	3 3/4 x 2 3/4	3 3/4 x 2 3/4	
				Ship. Wt.	3 3/4 lbs.	3 3/4 lbs.	3 3/4 lbs.	

For 5 or 6 Tubes	Plate	675 Volts C. T.	60 M. A.	Type	F-148	F-145	F-146	F-147	F-149
	Fila.	5 Volts	2 Amps.	Net	\$1.95	\$2.64	\$1.95	\$2.25	\$2.10
	Fila.	6.3 Volts	2 1/2 Amps.	Mtg. A.	3 3/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4	3 1/4 x 3 1/4
				Ship. Wt.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.

For 6 or 7 Tubes	Plate	700 Volts C. T.	70 M. A.	Type	F-153	F-150	F-151	F-152	F-154
	Fila.	5 Volts C. T.	3 Amps.	Net	\$2.20	\$2.94	\$2.20	\$2.60	\$2.34
	Fila.	6.3 Volts C. T.	3 Amps.	Mtg. A.	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4
				Ship. Wt.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.

For 8 to 12 Tubes	Plate	700 Volts C. T.	110 M. A.	Type	F-158	F-155	F-156	F-157	F-159
	Fila.	5 Volts C. T.	3 Amps.	Net	\$2.70	\$3.00	\$2.70	\$3.12	\$3.45
	Fila.	6.3 Volts C. T.	4 Amps.	Mtg. A.	4 3/4 x 3 3/4	4 x 3 3/4	4 3/4 x 3 3/4	4 3/4 x 3 3/4	4 x 3 3/4
				Ship. Wt.	6 lbs.	6 lbs.	6 lbs.	6 lbs.	6 lbs.

For 8 to 12 Tubes	Plate	800 Volts C. T.	150 M. A.	Type	F-163	F-160	F-161	F-162	F-164
	Fila.	5 Volts C. T.	3 Amps.	Net	\$3.90	\$4.80	\$3.90	\$4.35	\$4.05
	Fila.	6.3 Volts C. T.	4 1/2 Amps.	Mtg. A.	4 3/4 x 4 3/4	4 x 3 3/4	4 3/4 x 3 3/4	4 3/4 x 3 3/4	4 x 4 1/4
				Ship. Wt.	7 lbs.	7 lbs.	7 lbs.	7 lbs.	7 lbs.

WITH 2.5 VOLT FILAMENTS

		Mounting		O	P	B	R	D
For 4 Tubes	Plate	600 Volts C. T.	40 M. A.	Type	F-104	F-101	F-102	F-103
	Fila.	5 Volts	2 Amps.	Net	\$1.17	\$1.80	\$1.17	\$1.50
	Fila.	2.5 Volts C. T.	3 3/4 Amps.	Mtg. A.	3 x 2 3/4	2 3/4 x 2 3/4	2 3/4 x 3	2 3/4 x 3
				Ship. Wt.	2 3/4 lbs.	2 3/4 lbs.	2 3/4 lbs.	2 3/4 lbs.

For 4 or 5 Tubes	Plate	650 Volts C. T.	40 M. A.	Type	F-108	F-109	F-106	F-107
	Fila.	5 Volts	2 Amps.	Net	\$1.35	\$2.10	\$1.35	\$1.65
	Fila.	2.5 Volts C. T.	4 1/2 Amps.	Mtg. A.	2 3/4 x 3 3/4	3 1/4 x 3 3/4	3 3/4 x 2 3/4	3 3/4 x 2 3/4
				Ship. Wt.	3 3/4 lbs.	3 3/4 lbs.	3 3/4 lbs.	3 3/4 lbs.

For 4 or 5 Tubes	Plate	650 Volts C. T.	40 M. A.	Type	F-112	F-110	F-111	
	Fila.	5 Volts	2 Amps.	Net	\$1.47	\$1.47	\$1.77	
	Fila.	2.5 Volts C. T.	1 3/4 Amps.	Mtg. A.	2 3/4 x 3 3/4	3 3/4 x 2 3/4	3 3/4 x 2 3/4	
				Ship. Wt.	3 3/4 lbs.	3 3/4 lbs.	3 3/4 lbs.	

For 5 or 6 Tubes	Plate	700 Volts C. T.	50 M. A.	Type	F-116	F-113	F-114	F-115	F-117
	Fila.	5 Volts	2 Amps.	Net	\$1.86	\$2.52	\$1.86	\$2.16	\$2.04
	Fila.	2.5 Volts C. T.	1 3/4 Amps.	Mtg. A.	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4
				Ship. Wt.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.	4 3/4 lbs.

For 6 or 7 Tubes	Plate	700 Volts C. T.	70 M. A.	Type	F-121	F-118	F-119	F-120	F-122
	Fila.	5 Volts C. T.	3 Amps.	Net	\$2.07	\$2.76	\$2.07	\$2.40	\$2.28
	Fila.	2.5 Volts C. T.	3 3/4 Amps.	Mtg. A.	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4	3 3/4 x 3 3/4
				Ship. Wt.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.	5 1/2 lbs.

For 8 or 9 Tubes	Plate	700 Volts C. T.	90 M. A.	Type	F-126	F-123	F-124	F-125	F-127
	Fila.	5 Volts C. T.	3 Amps.	Net	\$2.40	\$3.06	\$2.40	\$2.76	\$2.55
	Fila.	2.5 Volts C. T.	3 3/4 Amps.	Mtg. A.	4 3/4 x 3 3/4	4 x 3 3/4	4 3/4 x 3 3/4	4 3/4 x 3 3/4	4 x 3 3/4
				Ship. Wt.	6 lbs.	6 lbs.	6 lbs.	6 lbs.	6 lbs.

For 10 to 12 Tubes	Plate	700 Volts C. T.	110 M. A.	Type	F-131	F-128	F-129	F-130	F-132
	Fila.	5 Volts C. T.	3 Amps.	Net	\$3.30	\$4.05	\$3.30	\$3.72	\$3.45
	Fila.	2.5 Volts C. T.	3 3/4 Amps.	Mtg. A.	4 3/4 x 3 3/4	4 x 3 3/4	4 3/4 x 3 3/4	4 3/4 x 3 3/4	4 x 3 3/4
				Ship. Wt.	7 lbs.	7 lbs.	7 lbs.	7 lbs.	7 lbs.



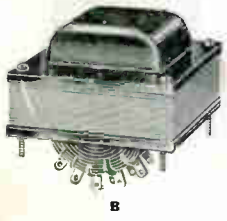
O



P



D



B



R

FRANKLIN

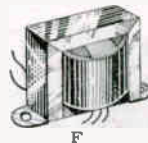
AUDIO TRANSFORMERS FILTER CHOKES TRANSMITTING CHOKES



AUDIO INPUT TRANSFORMERS ILLUSTRATION F & P

Type	Ratio	From	To	Core	Net Type "F"
F-201	3 to 1	Plate	Grid	3/4 x 3/4"	\$0.96
F-202	3 to 1	Plate	PP Grids	3/4 x 3/4"	1.05
F-231	3 to 1	Plate	Grid	3/4 x 3/4"	1.05
F-232	2 to 1	Plate	Grid	3/4 x 3/4"	1.05
F-233	4 to 1	Plate	Grid	3/4 x 3/4"	1.11
F-234	3 to 1	Plate	PP Grids	3/4 x 3/4"	1.11
F-235	2 to 1	Plate	PP Grids	3/4 x 3/4"	1.11
F-236	4 to 1	Plate	PP Grids	3/4 x 3/4"	1.11
F-252	3 to 1	Plate	PP Grids	1"x1"	1.50
F-253	2 to 1	Plate	PP Grids	1"x1"	1.50
F-254	3 to 1	PP Plates	PP Grids	1"x1"	1.50
F-255	2 to 1	PP Plates	PP Grids	1"x1"	1.50

*Available in Type "F" only.
†Available in Type "P", add 15c to net price.
1" core sizes, add 20c to net price for Type "P."



F

AUDIO INPUT CLASS B OR AB ILLUSTRATION F & P

Type	Driver	PP Output	Ratio Pri. 1/2 Sec.	Core	Net Type "F"
F-243	30	19	2.66	3/4 x 3/4"	\$1.11
F-245	2A5, 56	45, 2A5, 2A3	1.70	3/4 x 3/4"	1.11
F-246	6A6	6A6	5.00	3/4 x 3/4"	1.11
F-256	6F6	6L6	1.00	1"x1"	1.50
F-257	PP 6F6	6L6	1.00	1"x1"	1.65
F-258	59	59	3.00	1"x1"	1.50
F-259	56	2A3	1.72	1"x1"	1.50

*Available in Type "F" only.
†Available in Type "P", add 15c to net price.
1" core sizes, add 20c to net price for Type "P."

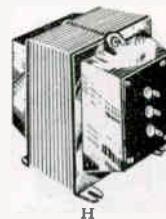


P

OUTPUT TRANSFORMERS TO 6 OR 15 OHM VOICE COIL ILLUSTRATION F & P

Type	Tubes	Plate to Plate Load	Core	Net Type "F"
F-204	PP 19, 43, 31, etc.		3/4 x 3/4"	\$0.72
F-205	Single 12A5, 48, 43, etc.		3/4 x 3/4"	.66
F-206	Single 2A5, 42, 41, etc.		3/4 x 3/4"	.66
F-207	Single 38		3/4 x 3/4"	.66
F-237	PP 53, 19, 43, etc.	8M to 10M Ohms	3/4 x 3/4"	1.05
F-238	PP 2A5, 42, 33, etc.	10M to 14M Ohms	3/4 x 3/4"	1.05
F-239	PP 89, etc.	5M to 7M Ohms	3/4 x 3/4"	1.05
F-240	Single 43, 48, etc.	1.5M to 4M Ohms	3/4 x 3/4"	.99
F-241	Single 2A5, 33, etc.	4M to 7M Ohms	3/4 x 3/4"	.99
F-260	PP 2A3, 45(AB)	3M to 5M Ohms	1"x1"	1.65
F-261	PP 46, 59	5M to 6M Ohms	1"x1"	1.65
F-262	PP 6A6, 6F6	8M to 10M Ohms	1"x1"	1.65

*Available in Type "F" only.
†Available in Type "P", add 15c to net price.
1" core sizes, add 20c to net price for Type "P."



H

REPLACEMENT FILTER CHOKES ILLUSTRATION F & P

Type	Henries	M. A.	D. C. Resistance	Core	Net Type "F"
F-208	15	40	200 Ohms	3/4 x 3/4"	\$0.54
F-209	15	40	300 Ohms	3/4 x 3/4"	.54
F-210	15	40	400 Ohms	3/4 x 3/4"	.60
F-211	15	40	500 Ohms	3/4 x 3/4"	.60
F-212	15	40	550 Ohms	3/4 x 3/4"	.60
F-249	30	50	250 Ohms	3/4 x 3/4"	.99
F-250	30	50	400 Ohms	3/4 x 3/4"	.99
F-251	30	50	600 Ohms	3/4 x 3/4"	.99
F-263	30	80	250 Ohms	3/4 x 3/4"	1.20
F-264	30	70	350 Ohms	3/4 x 3/4"	1.20
F-265	10	100	100 Ohms	1"x1"	1.65
F-266	20	200	50 Ohms	1"x1"	1.65
F-267	30	150	150 Ohms	1"x1"	1.95

*Available in Type "F" only.
†Available in Type "P", add 15c to net price.
1" core sizes, add 20c for Type "P."



O

TRANSMITTING FILTER CHOKES ILLUSTRATION F & P

Type	Mtg.	L.	W.	H.	Henries	M. A.	Ohms	Ins.	Price
FTC-1	K	3 3/4	5 3/4	4 3/4	30	300	150	7500	\$ 8.85
FTC-2	H	3 3/4	3 3/4	4 3/4	30	150	200	5000	4.50
FTC-3	K	3 3/4	5 3/4	4 3/4	10	500	70	5000	8.00
FTC-4	K	3 3/4	5 3/4	4 3/4	10	500	100	7500	10.60
FTC-5	P	2 3/4	2 3/4	3 3/4	25-5	150	135	1000	2.00
FTC-7	P	2 3/4	2 3/4	3 3/4	10	150	100	1000	2.00
FTC-8	P	3 3/4	3 3/4	4	10	150	100	5000	3.60
FTC-9	P	3 3/4	3 3/4	4	25-5	150	100	5000	3.60
FTC-10	K	3 3/4	3 3/4	4	25-5	500	70	5000	8.00
FTC-11	H	3 3/4	3 3/4	4 3/4	25-5	500	100	5000	5.00
FTC-12	H	3 3/4	3 3/4	4 3/4	10	350	100	5000	5.00



D

DEDUCT 2% FOR CASH WITH ORDER

GENERAL REPLACEMENT TRANSFORMERS

RECEIVERS AMPLIFIERS



HALF SHELL MOUNTING—TYPE 2H



2L

4 TUBES—2.5 VOLTS

For 2-57, 58; 1-2A5; 1-80.
Secondary—560 V.C.T. at 30 m.a. 2.5 V. at 3.5 amps. C.T. 5V. at 2 amps.
Primary—V.A. 30. Dimensions—3x2½x2½ ins. high.
Mounting holes—2-3/16 in. Weight—3 pounds.
T-6049—Price\$1.20

5 TUBES—6.3 VOLTS

For 2-76; 2-42; 1-80.
Secondary—610 V.C.T. at 125 m.a. 6.3 V. at 2 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 75. Dimensions—3¾x3¼x3¾ ins. high.
Mounting holes—3¼x2½ in. Weight—6 pounds.
T-7547—Price\$2.25

4 or 5 TUBES—6.3 VOLTS

For 2 or 3-77, 78, 6K7, 6F5; 1-42, 6F6; 1-80, 5Z4.
Secondary—600 V.C.T. at 50 m.a. 6.3 V. at 2 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 45. Dimensions—3¾x2½x3 ins. high.
Mounting Holes—2¾ in. Weight—4 pounds.
T-7020—Price\$1.65



2J

5 TO 9 TUBES—2.5 VOLTS

For 4-24, 27, or 7-56, 57; 1-47, 2A5; 1-80.
Secondary—700 V.C.T. at 70 m.a. 2.5 V. at 8.5 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 65. Dimensions—3¾x3¼x3¾ ins. high.
Mounting holes—3¼x2½ in. Weight—5 pounds.
T-4900—Price\$1.85



2G

10 TUBES—1.5 VOLTS

For 5-26; 2-27; 2-71A; 1-80.
Secondary—650 volts C.T. at 70 m.a. 1.5 volts at 1 amp. 1.5 volts at 4 amps. 2.5 volts at 3 amps. C.T. 5 volts at 5 amps. C.T. 5 volts at 2 amps.
Primary—V.A. 60. Dimensions—3¾x3¼x4¼ in. high.
Mounting holes—2¾x3 in. Weight—7 pounds.
T-5601—Price\$2.70

11 TO 13 TUBES—6.3 VOLTS

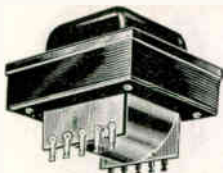
For 8 to 10-76, 6C6, 6D6, 6C5, 6K7, 6F7; 2-42, 6F6; 1-80, 5Z3, 5Z4.
Secondary—745 volts C.T. at 145 m.a. 6.3 volts at 4.5 amps. C.T. 5 volts at 3 amps.
Primary—V.A. 110. Dimensions—3¾x3¼x5 ins. high.
Mounting holes—3¼x3¼ in. Weight—8 pounds.
T-7062—Price\$3.30



2B

10 TUBES—6.3 VOLTS

For 6-76, 6C6, 6J7, 6C5, etc., 2-42, 6F6, etc.; 1-82; 1-83, 5Z3, 5Z4.
Secondary—880 volts C.T. at 125 m.a. (Bias tap for 38 volts). 6.3 volts at 3.3 amps. C.T. 2.5 volts at 3 amps. 5 volts at 3 amps.
Primary—V.A. 105. Dimensions—3¾x3¼x5 ins. high.
Mounting holes—3x3¼ in. Weight—8 pounds.
T-7428—Price\$3.90



2H-2U

9 to 14 TUBES—2.5 VOLTS

For 5 to 9-56, 57; 2 to 4-2A3; 1-83, 5Z3; 1-82.
Secondary—700 volts C.T. at 200 m.a. 2.5 volts at 15 amps. C.T. 5 volts at 2 amps. 5 volts at 3 amps.
Primary—V.A. 135. Dimensions—3¾x4¼x5 ins. high.
Mounting holes—3¾x3¼ in. Weight—10 pounds.
T-6793—Price\$4.80

6 TO 9 TUBES—2.5 VOLTS

For 6-27, 24 or 9-56, 57; 1-47, 2A5; 1-80.
Secondary—700 V.C.T. at 70 m.a. 2.5 V. at 7 amps. C.T. 2.5 V. at 1.5 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 65. Dimensions—3¾x3¼x3¾ ins. high.
Mounting holes—3¾x2½ in. Weight—5 pounds.
T-6362—Price\$2.10

6 TO 8 TUBES—6.3 VOLTS AND 2.5 VOLTS

For 5 or 6-76, 77, 78, 6C5, 6K7, 6F6; 2-47, 2A5, 45; 1-80.
Secondary—700 V.C.T. at 70 m.a. 6.3 V. at 3 amps. C.T. 2.5 V. at 4 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 70. Dimensions—3¾x3¼x3¾ ins. high.
Mounting holes—3¾x2½ in. Weight—5 pounds.
T-7021—Price\$2.10

7 TO 12 TUBES—2.5 VOLTS

For 5-24, 27, or 9-56, 58; 2-47, 2A5, 45; 1-80.
Secondary—700 V.C.T. at 80 m.a. 2.5 V. at 9 amps. C.T. 2.5 V. at 3 amps. C.T. 5 V. at 2 amps.
Primary—V.A. 75. Dimensions—3¾x3¼x3¾ ins. high.
Mounting holes—3¾x2½ in. Weight—6 pounds.
T-6363—Price\$2.40

UNIVERSAL MOUNTING—TYPE 2U

9 TO 13 TUBES—2.5 VOLTS

For 6-24, 27 or 10-56, 57; 2-47, 2A5; 1-80, 5Z3.
Secondary—700 volts C.T. at 110 m.a. 2.5 volts at 10.5 amps. C.T. 2.5 volts at 3.5 amps. C.T. 5 volts at 3 amps.
Primary—V.A. 100. Dimensions—3¾x3¼x4¼ ins. high.
Mounting holes—2¾x3¼ in. Weight—7 pounds.
T-7544—Price\$2.70

UPRIGHT SHIELDED MOUNTING—TYPE 2G

8 TUBES—6.3 VOLTS

For 5-76, 6C6, 6D6, 6K7; 2-42, 6F6; 1-83, 5Z3, 5Z4.
Secondary—775 volts C.T. at 200 m.a. 6.3 volts at 3 amps. C.T. 5 volts at 3 amps.
Primary—V.A. 135. Dimensions—3¾x4¼x5 ins. high.
Mounting holes—3x3¼ in. Weight—10 pounds.
T-6935—Price\$4.20

11 TUBES—6.3 VOLTS AND 2.5 VOLTS

For 5-76, 6D6; 4-2A3; 1-82; 1-83.
Secondary—870 volts C.T. at 250 m.a. (Bias tap at 80 volts). 6.3 volts at 1.5 amps. C.T. 2.5 volts at 10 amps. C.T. 2.5 volts at 3 amps. 5 volts at 3 amps.
Primary—V.A. 160. Dimensions—3¾x4¼x5 ins. high.
Mounting holes—3¾x3¼ in. Weight—10½ pounds.
T-7550—Price\$4.80

8 TUBES—7.5 VOLTS AND 2.5 VOLTS

For 2-50; 5-56; 1-83.
Secondary—1100 volts C.T. at 150 m.a. 7.5 volts at 2.5 amps. C.T. 2.5 volts at 5 amps. C.T. 5 volts at 3 amps.
Primary—V.A. 160. Dimensions—3¾x4¼x5 ins. high.
Mounting holes—3¾x3¼ in. Weight—10½ pounds.
T-6826—Price\$5.90

SPEAKER FIELD SUPPLY

Secondary will furnish: 115 volts D.C. at from 50 to 250 m.a. for 1 to 6 fields. 5 volts at 3 amps. for 83.
Primary—V.A. 55. Dimensions—3¾x3¼x3¼ ins. high.
Mounting holes—3¾x1 in. Weight—5½ pounds.
T-6797—Price\$2.55

DEDUCT 2% FOR CASH WITH ORDER

AUDIO TRANSFORMERS

INPUT - INTERSTAGE DRIVER - OUTPUT



PLATE TO GRID INTERSTAGE TRANSFORMERS

Type No.	Application	Ratio	Imped. in Ohms Pri.	Imped. in Ohms Sec.	Pri. M.A.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
							H.	W.	D.			
T-5738	10,000 ohm plate to grid	3:1	10,000	90,000	8	2F	3	2 1/2	2 1/2	2 1/2	2	\$1.95
T-5737						2B	3	2 1/2	2	2 1/2	1 1/2	1.80
R-300						2A	3	2 1/2	2 1/2	2x2 1/2	2	2.10
T-5736		3.2:1	10,000	100,000	8	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.20
T-2999						2B	2 3/8	2	2	2 1/2	1 1/2	1.05
R-100	10,000 ohm plate to grid	3:1	10,000	90,000	8	2C	2 3/8	2	1 1/2	Univ.1		1.05

PUSH-PULL INPUT TRANSFORMERS

Type No.	Application	Ratio	Imped. in Ohms Pri.	Imped. in Ohms Sec.	Pri. M.A.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
							H.	W.	D.			
T-5741	10,000 ohm plate to P. P. grids	3:1	10,000	90,000	8	2F	3	2 1/2	2 1/2	2 1/2	2	\$2.10
T-5739		3.2:1	10,000	100,000	8	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.35
T-3391						2B	2 3/8	2	2	2 1/2	1 1/2	1.20
R-101						2C	2 1/2	2 1/2	1 1/2	Univ.1 1/2		1.35
T-7431	10,000 ohm plate to P. P. grids	1:1	10,000	10,000	8	2F	3	2 1/2	2 1/2	2 1/2	2	2.10
T-5742*	10,000 ohm plate to P. P. grids	3:1	10,000	90,000	8	2B	3	2 1/2	2	2 1/2	1 1/2	1.95
T-5743*						2F	3	2 1/2	2 1/2	2 1/2	2	2.10
T-7197	8,000 ohm plate to P. P. grids (Single 45 to P. P. 845's)	2.7:1	8,000	44,000	40	2D	3 1/2	2 1/2	3	3 3/8	3 1/2	3.00

PUSH-PULL INTERSTAGE TRANSFORMERS

Type No.	Application	Ratio	Imped. in Ohms Pri.	Imped. in Ohms Sec.	Pri. M.A.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
							H.	W.	D.			
T-6434	P. P. 10,000 ohm plates to P. P. power tube grids Cl. A.	1.3:1	20,000	33,800	8	2B	3	2 1/2	2	2 1/2	1 1/2	\$2.10
T-5870	P. P. 10,000 ohm plates to P. P. P. P. par. Cl. A or Cl. AB tubes	or 1.5:1	20,000	45,000	10**	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-7557	P. P. 45's to 845's P. P. Cl. A	2.35	16,000	117,000	40**	2D	3 1/2	2 1/2	3	3 3/8	3 1/2	3.00

10,000 ohm plate includes type 56, 76, 37, 27, 01A, 30, 55, 85 or 57, 77 and 6C6 tubes as triodes. To grids of any tubes operating in Class A and delivering under 15 watts, or 2B6 and 6B5 tubes. *High peak for power detector. **Per side.

AUDIO REACTORS

Type No.	Application	Type Tubes	Henries	At. M.A.	Max. D.C. M.A.	Ohms	Mtg. Fig.	Dimensions			Wt. Lbs.	Net Price
							H.	W.	D.			
T-5298	Plate Impedance for Detector tubes or grid impedance	24-57-56-76-6C5, 6F5-6J7	1080	.5	8	6150	2F	2 3/8	2	1 1/2	1	\$1.05
T-2927							2B	2	2 3/8	1 1/2	1	.90

LOW IMPEDENCE SOURCE (MICROPHONE, LINE, MIXER) TO GRID TRANSFORMERS

Type No.	Application	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Overall Ratio	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
						H.	W.	D.			
T-3020	DB mike to grid	200 CT	100,000	1:22.2	2A	3	2 1/2	2 1/2	2x2 1/2	2	\$2.10
T-5837	DB mike to grid	200 CT	100,000	1:22.2	2F	2 3/8	2	2	2 1/2	1 1/2	1.35
T-8602	Single button mike to grid	100	400,000	1:84	2B	2 3/8	2	1 1/2	2 1/2	1 1/2	1.05
T-5516	Dyn. mike, line or mixer to single or P. P. grids	200/50	100,000	1:22.3	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.65
T-6194	Line to single or P. P. grids, Class A	500/125	100,000	1:14.1	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-8321	Line to P. P. grids of 46, 210, Class B, etc.	500	5,100 CT 12,500	1:3.2 1:5	2F	3	2 1/2	2 1/2	2 1/2	2	2.25

MICROPHONE OR PICKUP TO LINE OR MIXER TRANSFORMERS

Type No.	Application	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
					H.	W.	D.			
T-6196	Pickup or line to line or mixer	500/125	200/50	2F	3	2 1/2	2 1/2	2 1/2	2	\$2.40
T-6374	Pickup to line or mixer	5000/2000	200/50	2F	2 3/8	2	2 1/2	2	1 1/2	1.80

TUBE TO LINE OR MIXER TRANSFORMERS (LOW LEVEL)

Type No.	Application	Impedance in Ohms Pri.*	Impedance in Ohms Sec.	Pri. M.A.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
						H.	W.	D.			
T-5515	Plate to line or mixer	15,000/10,000	200/50	8	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	\$1.65
T-6226	Plate to line or mixer	15,000/10,000	500/125	8	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.65
T-7211	P. P. plates to line	20,000	500/125	8**	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.80
T-7573	P. P. plates to line or mixer	20,000	200/50	8**	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.80

*15,000 ohms for 864 and 30 tubes; 10,000 ohms for 56, 76, 37, 27, 01A, 55, 85 or 57, 77 and 6C6 tubes as triodes. **Per side.

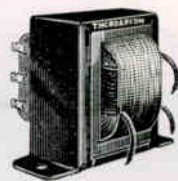
DRIVER TRANSFORMERS

Type No.	Driver Tubes	Output Tubes	Ratio Class	Pri. to Sec.	Ohms Pri.	Imped. 1/2 Sec.	Pri. M.A.	Mtg. Fig.	Dimensions			Mtg. Holes	Wt. Lbs.	Net Price
									H.	W.	D.			
T-7846	1-30	1-19 2-30	B	2.4:1	20,000	3,500	7	2B	2	1 1/2	1 1/2	2 1/2	3/4	\$0.99
T-6747	1-53 Cl. A	1-53	B	5.25:1	27,000	1,000	10	2F	2 3/8	2	2 1/2	2 1/2	1 1/2	1.65
T-6790	2-53 Cl. A	2-53	B	5.22:1	13,500	500	10	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-6778	1-46 or 59	2-46 2-59	B	2.2:1	13,000	2,700	32	2F	3	2 1/2	2 1/2	2 1/2	2	2.10
T-7432	Push-pull 76	2-42 2-2A5 2-6F6 56	AB	3:1	70,000	7,700	10	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-7201	P. P. 56	2-46	AB	2.7:1	70,000	9,500	10	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-8142	1-6F6	2-6F6	AB	1.7:1	3,300	11,000	31	2F	3	2 1/2	2 1/2	2 1/2	2	2.25
T-5100	P. P. 45	210-801-35T-50T, etc.	B	2:1	25,000	6,250	40	2A	3 1/2	2 3/8	3	3 3/8	3 1/2	2.70
T-8054	P. P. 42, 2A5 triodes	S38, 830B, 800	B	4:1	8,000	500	40	2G	4 5/8	3 3/8	3 3/8	2 1/2	5	3.30
T-6140	P. P. 2A3 P. P. 6L6	2-203A 2-150T 2-211 2-50T 2-261A 2-801, etc.	B	1.67:1	5,000	1,785	130	2D	4	3 3/8	3 3/8	2 1/2	5	3.30
T-8459	P. P. 6C5	2-6L6	AB	5:1	70,000	2,800	10	2F	3	2 1/2	2 1/2	2 1/2	2	2.25

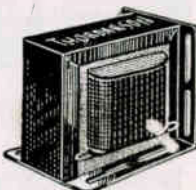
DEDUCT 2% FOR CASH WITH ORDER



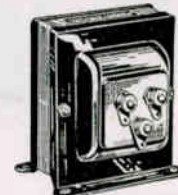
2A



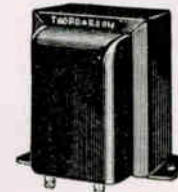
2B-2E



2C



2D



2F





PLATE TRANSFORMERS FILAMENT TRANSFORMERS SMOOTHING CHOKES

PLATE SUPPLY TRANSFORMERS



TYPE 2M



TYPE 2P



TYPE 2K



TYPE 2N



TYPE 2Q

Type No.	Sec. A. C. Load Volts	D. C. Volts	D. C. M. A. †	Mtg. Fig.	H.	Dimensions W.	D.	Wt. Lbs.	List Price
T-6280	725-0-725	525	150	2L	6 1/4	4 1/2	4 1/2	10 3/4	5.40
T-7041	725-0-725	525	250	2L	6 1/4	4 1/2	5	15	6.00
T-6257	750-0-750	625	200	2E	6 1/4	4 1/2	3 3/8	12 1/2	6.00
T-5448	800-0-800	680	150	2E	8 1/4	4 1/2	3 1/2	10 1/2	4.80
T-6412	980-0-980	750	350	2M	6	6 3/4	6 3/8	29 1/4	10.80
T-6411*	1600-0-1600	1250	280	2M	8	6 3/4	7 1/2	36 1/4	13.80
T-7033*	1290-0-1290	1000							
	1620-0-1620	1250	500	2S	11	6 3/4	6 1/2	41 1/2	24.00
	1330-0-1330	1000							
T-5489	1270-0-1270	1000	400	2M	8	6 3/4	6 1/2	32 3/4	13.20
T-6282	1335-0-1335	1000	500	2S	11	6 3/4	6 1/4	41 1/2	21.00
T-7351*	2275-0-2275	1750	500	2S	11	6 3/4	7 1/2	53	28.80
	1950-0-1950	1500							
T-6283	2350-0-2350	2000	250	2S	11	6 3/4	6 1/2	41	21.60
T-6284	2420-0-2420	2000	500	2S	11	6 3/4	8 3/4	71	33.60
T-6285	3630-0-3630	3000	380	2S	11	6 3/4	10	83	39.00

*Variation in secondary voltages obtained by changing primary taps.
†D. C. volts measured out of filter with choke input. If transformer is used with bridge rectifier (choke input) current should be reduced to 50% of this rating.

FILAMENT TRANSFORMERS

Type No.	Insulation	Volts	Amp.	Mtg. Fig.	H.	Dimensions W.	D.	Wt. Lbs.	Price
T-5061	1,600	2.5	3.5	2B	1 1/2	2	2 3/8	1	\$0.90
T-6433	7,500	2.5	10	2D	3 3/8	3 3/4	4	5	3.30
T-7423	1,600	5.25	12	2D	3 3/8	3 3/8	4	5	3.00
T-7424	1,600	5.25	20	2D	3 3/8	3 7/8	4 5/8	6	4.20
T-7360	1,600	6.3	5	2D	2 7/8	3	3 3/4	3 1/2	2.25
T-6413	1,600	7.5	2.5	2D	2 7/8	3	3 3/4	2 1/2	1.95
T-6414	1,600	10	6.5	2D	3 3/8	4	3 3/4	5	3.30
T-6185	1,600	6.3	2.5	2E	2	2 5/8	2 1/4	1 1/4	1.30
	(Tapped at 5V and 2 1/2 V)								
T-5466	1,600	7.5	2.5	2E	2 3/4	3	3 3/4	3 1/4	1.95
		7.5	2.5						
T-7984	1,600	6.3	3	2G	3 1/4	3 3/8	4 5/8	4 1/2	2.85
		2.5	3.5						
		5	3						
T-6094	1,600	5	6	2G	3 3/8	3 1/2	4 5/8	5	2.85
		2.5	14						
		2.5	3.5						
T-7585	3,000	5	3	2D	2 7/8	3	3 1/4	4	3.30
T-6421	3,000	5	3	2N	3 3/8	3 3/4	4	5	3.60
T-7046	5,000	5	6	2N	3 3/8	4	4	6	4.65
		5	3						
T-8514	10,000	2.5	10	2Q	5 1/2	7 5/8	5 1/2	15	10.50
		2.5	5						
		2.5	5						

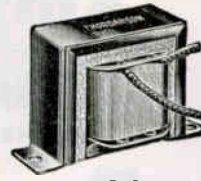
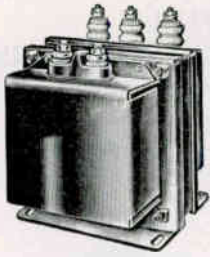
INPUT CHOKES

Type No.	Insulation	Mills	Henrys	Ohms	Mtg. Fig.	H.	Dimensions W.	D.	Wt. Lbs.	Price
T-4991	1,600	120	4.2	160	2F	2	2	2 1/2	1	\$0.81
T-5753	1,600	110	9.5	200	2B	2	2 1/2	3	1 3/4	1.20
T-6749	1,600	200	5	80	2F	2 1/2	3	3 1/2	3	1.95
T-2353A	1,600	200	5	80	2D	2 1/2	3	3 1/2	3	2.10
T-7429	2,000	150	10	200	2G	3 1/2	3 3/8	4 5/8	5	2.75
T-6405	2,000	150	10	200	2D	3 1/2	3 3/8	4 5/8	5	3.00
T-7551	1,600	250	12.9	121	2G	3 3/4	3 7/8	5	7 3/4	3.60
T-6315	5,000	280	12.3	156	2J	4	4 1/4	6 1/4	11	5.10
T-6406	5,000	380	10.4	93	2J	4 3/4	5	6 1/2	18	7.20
T-6316	5,000	500	8.2	70	2J	5	5 1/2	6 3/8	23	8.40

SMOOTHING CHOKES

Type No.	Insulation	Mills	Henrys	Ohms	Mtg. Fig.	H.	Dimensions W.	D.	Wt. Lbs.	Price
T-7430	1,600	15	42	2100	2B	1 1/2	2 3/8	2	8 1/4	\$ 0.90
T-1892	1,600	35	22	405	3B	2	2 5/8	2 1/4	1 1/4	1.05
R-105	1,600	75	10	226	2C	1 1/2	2 1/8	2 1/2	1 1/4	1.05
T-4707	1,600	75	12	290	2C	2	2 5/8	2 1/4	1 1/4	1.05
T-6807	1,600	85	15	375	2B	2	2 1/2	3	1 3/4	1.20
R-196	1,600	85	15	375	2A	2	2 1/2	3	1 3/4	1.50
T-7549	1,600	120	7.2	290	2B	2	2 3/8	2	1	.81
T-1700B	1,600	130	12	231	2F	2 1/2	3	3 1/2	3 1/4	1.95
T-1700	1,600	130	12	231	2D	2 1/2	3	3 1/2	3 1/4	2.10
T-6409	2,000	150	19.7	275	2D	3 3/8	4	4 1/2	6 3/4	3.30
T-5450	1,600	250	12.9	121	2B	3	3 3/4	4 5/8	7 1/2	3.00
T-6408	5,000	280	23.6	190	2J	4 1/2	4 1/2	6 3/4	13	6.00
T-6407	5,000	380	20	160	2K	6	6 3/4	7 3/8	25	9.60
T-6410	5,000	500	16.5	110	2K	6 1/2	6 3/4	7 3/8	27	10.20

DEDUCT 2% FOR CASH WITH ORDER



2F

3B

AUDIOS TRU-FIDELITY MODULATION MODULATION TRANSFORMERS

Type No.	Tube Type	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D.C. Sec.	Max. Audio M.A. Pr.	Max. Audio Pr. Watts	Mtg. Fig.	H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-6759	1-19	B	10,000	2,700	50	10	20	2F	2 3/4	2	2	1	\$ 1.65
T-6759	1-53	B	10,000	3,000	100	10	20	2F	3	2 1/2	2 1/2	2	2.10
T-8470	1-6A6 1-RK34 2-6L6 2-35T	B B AB B	3,800	2,500 5,000 7,500 3,000	250	75	21D		6 3/4	4 3/4	5 3/4	13	6.00
T-7202	2-2A3 2-45	AB AB	5,000	5,000	100	50	21D		5	4 3/4	4 3/4	5	3.90
T-6426	2-46 or 59	B	5,800	5,000	100	40	21D		4	3 3/4	3 3/4	5	3.60
T-6699	2-250 4-46 or 59	AB B	2,900	10,000 500 3,500 6,250	215	150	2Q		6 3/4	5 3/4	8	20	9.00
T-6425	4-250 2-210	AB B	8,000	5,000 10,000	200	40	21D		4 3/4	3 3/4	4 3/4	8	5.40
T-6424	2-208A 2-211 2-242A 2-330-B 2-204A	B B B B B	8,000	2,500 10,000	400 200	300	2Q		7 3/4	5 3/4	8 3/4	28	13.20
T-6430	2-501	B	8,800	5,000	500	700	21P		12 3/4	9 1/4	7 3/4	85	75.00
T-7084	2-210 2-35T 2-805 2-HD203A	B B B B	10,000	4,500 6,250 12,500	200	150	2Q		6 3/4	5 3/4	8	20	9.00
T-8225	2-801 2-210 2-35T 2-805 2-HD203A	B B B B B	8,000	4,000 6,000 8,000	500	650	2K		8	6 3/4	8	40	24.00
T-7511	2-822 2-838	B B	10,000	2,500 10,000	400 200	300	2Q		7 3/4	5 3/4	8 3/4	28	13.20
T-8208	2-50T	B	6,000	5,000 20,000	200	150	2Q		0 3/4	5 3/4	8	20	9.00
T-8209	2-50T	B	20,000	2,500 10,000	400 200	300	2Q		7 3/4	5 3/4	9 1/4	22	14.40
T-8210	2-150T	B	11,000	4,000 9,000	500 330	650	2Q		9 3/4	7 3/4	7 3/4	38	24.00

GRID MODULATION TRANSFORMERS

Type No.	Modulator Tubes	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D.C. Pri.	Max. Audio M.A. Pr.	Max. Audio Pr. Watts	Mtg. Fig.	H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-6773	1-46 or 59	A	6,300	5,400	32	10	21D		3	2 1/4	2 1/4	2	\$ 2.40
T-6774	P. P. 45-2A3	AB	5,000	5,000	60	20	21D		3 1/2	2 3/4	3	3 1/2	3.00

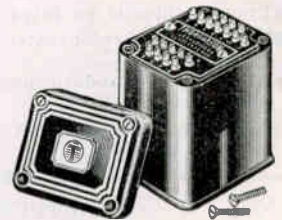
DOUBLE SECONDARY TRANSFORMERS FOR PLATE AND SCREEN MODULATION OF PENTODES

Type No.	Modulator Tubes	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D.C. Sec.	Max. Audio M.A. Pr.	Max. Audio Pr. Watts	Mtg. Fig.	H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-7994	42's or 2A5's Class AB	To Plate & Screen of	8,000	5,000 plate 800 screen	50	40	2G		4 1/4	3 3/4	3 1/4	5	\$3.30

JUST OUT!

Tru-Fidelity

BY THORDARSON



These new High-Fidelity Transformers are designed for highest efficiency, ease of installation, and permanent performance. The single hole mounting feature allows the transformer to be rotated to any angle to balance hum and allows mounting so terminal board is on top or bottom. Threaded to fit standard microphone input plugs, etc. Response obtained from 20 to 20,000 C. P. S. and flat from 30 to 10,000 C. P. S.

Line, mixer, or microphone to single grid.

Primary—500*/333/250/200*/125/50 ohms.
Max. operating level plus 10 D. B.
Secondary—75,000/18,750 ohms.
T-9000—Net price\$10.50

Push-pull tubes to line or mixer.

Primary—20,000/5000 ohms for 56, 76, 864, 6C6, or 6J7 triodes.
Max. operating level plus 20 D. B.
Secondary—500*/333/250/200*/125/50 ohms.
T-9001—Net price\$10.50

Single tube to line or mixer.

Primary—20,000/5000 ohms for 56, 76, 864, 6C6, or 6J7 triodes.
Max. operating level plus 15 D. B.
Secondary—500*/333/250/200*/125/50 ohms.
T-9002—Net price\$10.50

Single Plate to single grid.

(No D. C. in primary)
Primary—10,000/2500 ohms for 56, 76, 864, 6C6 or 6J7 triodes.
Max. operating level plus 15 D. B.
Secondary—40,000/10,000 ohms.
T-9003—Net price\$6.00

Single Plate to push-pull grids.

(No D. C. in primary)
Primary—10,000/2500 ohms for 56, 76, 864, 6C6 or 6J7 triodes.
Max. operating level plus 15 D. B.
Secondary—160,000/40,000 ohms.
T-9004—Net price\$6.90

Push-pull plates to push-pull grids.

Primary—20,000/5000 ohms for 56, 76, 864, 6C6 or 6J7 triodes.
Max. operating level plus 20 D. B.
Secondary—45,000/11,250 ohms.
T-9005—Net price\$7.50

*Indicates inductive and capacitive balance to center tap for use on balanced transmission lines.

Crystal microphone or Photo Cell to Line.

Primary—for P. E. Cell or Crystal Mike.
Secondary—500*/333/250/200*/125/50 ohms.
T-9006—Net price\$9.30

Push-pull power tubes to line.

Primary—5000/3000/1250/750 ohms (p. p. 2A3, etc.).
Max. operating level plus 32 D. B.
Secondary—500*/333/250/200*/125/50 ohms.
T-9007—Net price\$10.50

Push-pull power tubes to voice coil.

Same as T-9007 except secondary impedances 1.25/3.75/5/7.5/10 or 15 ohms.
T-9008—Net price\$10.50

Audio Reactor.

For parallel feed audio circuits, etc.
300 henries at 8 m. a. D. C. or 75 henries at 16 m. a. D. C.
T-9009—Net price\$6.00

Line or microphone to line or mixer.

Primary—500*/333/250/200*/125/50 ohms.
Max. operating level plus 10 D. B.
Secondary—500*/333/250/200*/125/50 ohms.
T-9010—Net price\$7.50

Line or microphone to push-pull grids.

Primary—500*/200*/125/50 ohms.
Max. operating level plus 20 D. B.
Secondary—150,000/37,500 ohms.
T-9011—Net price\$11.10

Line to voice coil.

Primary—500*/333/250/200*/125/50 ohms.
Max. operating level plus 30 D. B.
Secondary—1.25/3.75/5/7.5/10/15 ohms.
T-9012—Net price\$10.50

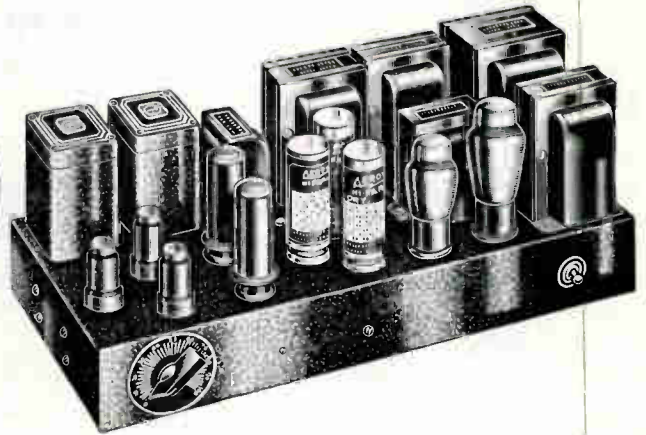
DEDUCT 2% FOR CASH WITH ORDER

PUBLIC ADDRESS

Amplifier Kits

OUTPUT TRANSFORMERS

THORDARSON AMPLIFIER FOUNDATION UNITS



NOW YOU CAN BUILD THE FINEST 6-18-30 OR 60-WATT AMPLIFIER!

Note These Outstanding Features:

- Crystal, Ribbon, Dynamic, or Carbon Microphone may be used without changing the circuit!
- New input circuit—over-all gain compensated for any type input circuit.
- Low and high impedance input terminals for radio, phono-pickup, or line input!
- Ample microphone current for double-button carbon unit.
- Pre-amplifier is an integral part of the circuit.
- Entire amplifier operates from 110-120 volts, 60-cycle A.C.
- All parts of standard manufacture and readily obtainable.

Complete building instructions including diagrams, layout and photos.....15c

6 Watt Foundation Kit
Consists of drilled chassis, sub assembly, input and output terminal strips and complete instructions.
No. T-7506—Net**\$2.70**

18 Watt Foundation Kit
Consists of power supply base with sockets, amplifier base with sockets, sub assembly, input and output terminal strips, complete instructions, diagram, and assembly.
No. T-7518—Net**\$3.00**

30 Watt Foundation Kit
Power supply base with 4 sockets, amplifier base with 12 sockets, sub assembly base, input and output terminal strips and complete instructions, assembly plans and diagram.
No. T-7530—Net**\$4.80**

60 Watt Beam Power Amplifier Kit
Circuit diagram and complete parts list available on request.

OUTPUT TRANSFORMERS TO LINE OR SPEAKER (HIGH LEVEL)
Class A, AB and B

Type No.	Tube Type	Class	Ohms Pri.	Impedance Sec.	Pri. M.A.	Max. Audio Power Watts	Mtg. Fig.	Dimensions H. W. D.	Mtg. Holes	Wt. Lbs.	Net Price
T-6754	2A3 PP	AB	5,000	4-8-15-500	60	30	2F	3½ 2½ 3	3¾ 3¼	3¼	\$2.40
	45 PP	AB									
	19 PP	B									
T-6792	2A3 PP Par.	AB	1,500	4-8-15-500	80	40	2F	3½ 2½ 3	3¾ 3¼	3¼	2.40
	45 PP Par.	AB									
	2A5 PP	AB									
T-6594	42 PP	AB	8,000	4-8-15-500	55	40	2F	3½ 2½ 3	3¾ 3¼	3¼	2.40
	50 PP	A									
	79 PP	A									
T-7575	2B6 PP	A	10,000	4-8-15-500	45	40	2F	3½ 2½ 3	3¾ 3¼	3¼	2.40
	6A8, 6N7	B									
	6B5 PP	A									
T-8458	6F6, PP	AB	3,800	4-8-15-500	160	60	2G	4½ 3¾ 3¾	2¼x3	6	3.60
	2A5 PP	AB									
	47 PP	A									
T-6751	79 PP	A	14,000	4-8-15-500	40	20	2F	3 2½ 2½	2¾	2	2.10
	45 PP	A									
	71 PP	A									
T-6748	43 PP	A	8,000	4-8-15-500	36	25	2F	3 2½ 2½	2¾	2	2.10
	53	B									
	46 PP	B									
T-6752	59 PP	B	5,800	4-8-15-500	60	30	2F	3½ 2½ 3	3¾ 3¼	3¼	2.40
	6F6 PP	AB									
	53 PP Par.	B									
T-5701 R-107	Univ. Single or PP Tubes	A	4,000/7,000 8,000/10,000 14,000 CT	Adjustable .1 to 29	36	8	2E 2C	2½ 2½ 1½ 2½ 2½ 1½	2¾ Univ.1½	1½ 1½	1.20 1.35

STANDARD TRANSFORMER CORPORATION

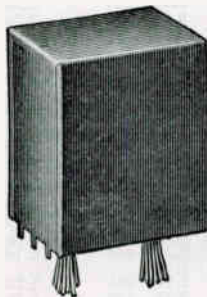


**Exact Replacements
for
RCA-VICTOR, MAJESTIC, PHILCO, APEX,
BOSCH, SPARTON, A. K. AND OTHERS**

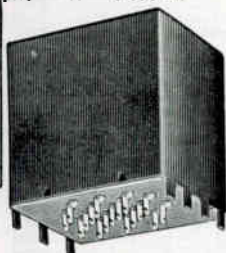


Made by Standard Transformer Co.

Make	Model No.	Price	Make	Model No.	Price	Make	Model No.	Price
All Am. Lyric	90 P1038	\$3.60	Majestic—Unmounted	15B P 906	\$2.18	RCA	17, 18, 33, 50, 51	P 791 \$3.24
Apex	26 P1405	2.34	Majestic	21, 22, 23 P 954	2.88	RCA	42-48	P 827 3.96
Apex	26P P1358	2.34	Majestic	130, 131, 132, 233 P1102	4.35	RCA	44, 46, 47	P 714 3.57
Apex	8A, 8B P1479	3.24	Majestic	25 and 25B P1168	3.36	RCA	60-2	P 715 3.27
Apex	10, 10C P1016	3.63	Majestic	50 P 905	3.27	RCA	64-67	P 827 10.80
Apex	36, 37 P 540	5.04	Majestic	70-7P6 P 790	2.94	RCA	66	P 883 3.90
Apex	32 P1291	3.03	Majestic	70-7P6 P 798	2.79	RCA	80, 82, 86	P 713 3.54
AK	37-38 P 716	3.20	Majestic	(Plate) 90B-100B P 939	2.79	RCA	Superette R4-R6	P1487 2.88
AK—Late	55-55C P 913	3.84	Majestic	(Phil.) 180-3P6 P 805	3.12	RCA	R7-R9	P1481 2.91
AK—Early	55-55C P 918	3.78	Majestic	(Plate) 180-3P6 P 789	4.47	RCA	R11-R21	P1483 3.00
AK	60-b0C P1066	3.63	Philco	20-220 16-763	2.54	RCA	R11-R21-RE18	P1474 3.36
AK—(Plate)	66 P1213	3.75	Philco	55 16-711	2.44	RCA R32, RE45, R52, RE75, RE154, RE156	P 717	4.08
AK	H 1, 2; L 1, 2 P1068	3.48	Philco	76-77 16-785	2.79	RCA Victor	R35-R39-RE57	P 718 3.81
AK	80-83 P1088	3.48	Philco	86 16-786	2.61	Sentinel	104	P1253 4.08
AK	82-85 P1084	3.48	Philco	87 16-763	2.43	Sentinel	108	P 420 2.73
AK—Early and Late	84 P1086	3.48	Philco 17 (Code 122)	16-1571	3.20	Sparton	89A	P 921 3.24
AK	87, 89, 89P P1089	3.78	Philco 14	16-1572	2.71	Sparton	301	P1372 4.89
Bosch	29-825 P 859	4.32	Philco 91 (Code 221-3)	16-1572	2.71	Sparton	410-420	P1196 3.84
Brunswick 14, 21, 81, 82, 514, 521, 581, 582	P1112	4.11	Philco 16 (Code 121)	16-1573	2.71	Sparton	589	P 909 3.93
Clarion	40 P1499	2.67	Philco 17 (Code 121)	16-1573	2.71	Sparton	101-110-111	P1412 4.53
Clarion	60 P1438	3.72	Philco 71 (Twin Speakers)	16-1574	2.51	Sparton	109-99 DeLuxe	P1411 4.36
Clarion	80 P1928	2.55	Philco	21	2.89	Stewart-Warner	550	P1470 2.94
Clarion	90, 91 P1166	3.87	Philco	95, 96, 296 16-787	2.91	Temple	8-60-8-80	P 219 3.15
Eveready	30 P1030	3.51	Philco	111-211 16-788	3.20	Westinghouse	WR4	P 927 3.96
Eveready	40 P 956	2.94	Philco	112-212 (245's) 16-758	3.20	Westinghouse	WR 5-6-7	P 713 3.54
Eveready	50 P 901	2.94	Philco	112-212 (247's) 16-382	3.14	Zenith	10-11-12	P 851 4.14
Gloritone	8 P1479	3.24	Philco	511 16-784	2.19	Zenith 50 to 55 inc.	57, 60, 61, 64, 67, 522, 602, 613, 622, 642, 672, 70 to 73, 77, 712, 732, 777, 80	P 712 4.59
Gloritone	10 P1016	3.63	Philco	70, 270, 370, 470, 570 16-1119	2.51			
Gloritone	26 P1405	2.34	Philco	50, 51, 52, 551 16-1460	2.07			
G. M.	26P P1358	2.34	Philco	90-490 (1-247) 16-1468	2.81			
G. M.—Little General	S-9A P1271	2.58	Philco	90 (2-245's) 16-1469	2.63			
Grebe	H10 P1485	2.28	Philco 90, 490 (2-47's)	16-1497	4.05			
Kolster	RS4 P4476	3.03						
	K43 P1192	3.99						



We Maintain a Very Complete Stock of Exact Duplicate Transformers.



We Can Furnish Duplicates of Many Sets Not Listed or Rewind the Old One

*While our small present stock lasts a few orders will be filled with Freed transformers. We list only the most popular receivers but can supply exact duplicates for nearly any receiver manufactured. Old transformers can be rebuilt. Don't try to make a "mis-fit," write us for quotation or send us the old unit. The cost is reasonable.

BARGAIN

AUDIOS CHOKES

POWER TRANSFORMERS

Made for us by STANCOR



POWER TRANSFORMERS

These extreme values in replacement power transformers are fully guaranteed and conservatively rated.

FOR 2.5 VOLT TUBES

FOR 4-TUBE SETS
Size 2 1/4 x 3 inches
650 volts C.T. at 50 M.L.A.
5 V.C.T. at 2 A.
2 1/2 V. at 3 1/2 A.
No. 16-2750. **\$0.98**
Net price.....

FOR 5 OR 6-TUBE SETS
Size 2 1/4 x 3 inches
700 volts C.T. at 50 M.L.A.
5 V. at 2 A.
2 1/2 V. at 5 1/2 A.
2 1/2 V.C.T. at 1 1/2 A.
No. 16-2869. **\$1.42**
Net price.....

FOR 6 OR 7-TUBE SETS
Size 3 1/4 x 3 inches
700 volts C.T. at 70 M.L.A.
5 V. at 3 A.
2 1/2 V. at 7 1/2 A.
2 1/2 V.C.T. at 3 1/4 A.
No. 16-2859. **\$1.69**
Net price.....

FOR 6-VOLT TUBES

FOR 4-TUBE SETS
Size 2 1/4 x 3 inches
650 V.C.T. at 40 M.L.A.
5 V. at 2 A.
2 1/2 V.C.T. at 1.6 A.
No. 16-2751. **\$0.98**
Net price.....

FOR 7 TO 10-TUBE SETS
Size 3 1/4 x 4 1/2 inches
700 V.C.T. at 120 M.L.A.
5 V. at 3 A.
6.3 V. at 3 A.
No. 16-949. **\$1.73**
Net price.....

A.C.-D.C. CHOKES

No.	Res.	M.L.A.	Price
No. 3-1080	200	60	\$0.39
No. 3-1279	400	50	.39

See illustration at right above.



MIDGET AUDIOS

1 1/2-in. x 2 1/2-in. x 1 1/2-in.

MIDGET PUSH-PULL INPUT

No. A4119—3 to 1 ratio. Net price... **\$0.56**

30 TO 19 DRIVER
No. 1-4292—Cl. B input. Net price... **\$0.56**
MIDGET OUTPUT TRANSFORMERS
Secondary impedance, 3 to 5 ohms.
No. 1-3494—Primary 4000-43's, etc. Net price... **\$0.48**

No. 1-3495—Primary 7000—2A5, 42, etc. **\$0.48**
Net price.....
No. 1-3496—Primary 14000—Push-Pull, 47, 2A5, etc. Net price..... **\$0.48**

REGULAR SIZE AUDIOS

INTERSTAGE AUDIO
No. 8001—3 to 1 ratio. Net price... **\$0.69**
PUSH-PULL INPUT
No. 8002—3 to 1 ratio. Net price... **\$0.72**
UNIVERSAL OUTPUT
No. 6038-H—Push-pull primary to universal secondary. Net price... **\$0.69**



DEDUCT 2% FOR CASH WITH ORDER

AUTO RADIO REPLACEMENT VIBRATORS



Radiart

P.R. MALLORY & CO. Inc.

MALLORY

REPLACEMENTS FOR ALL MODELS

Exact Electrically—Exact Mechanically



Make and Auto Radio Model	Radiart		Mallory		Net Price
	Stock No.	Price	Stock No.	Price	
Acra-ton-U6	3300	\$2.70	294	2.70	
49, 51, 92, 92A, 94A, 460, 40	2867	2.70	292	2.70	
3888	2.70	294	2.70		
Admiral-U6	5300	2.70	294	2.70	
Airtone —(see Montgomery Ward).					
All-American Mohawk-A-60	2867	2.70	292	2.70	
Arcadia —See Wells Gardner.					
Arvin —(Noblitt-Sparks) 7, 17, 17A, 27, 37	4260	2.70	294	2.70	
17B, 17C	4260	2.70	294	2.70	
10A, 20A, 30A, 30B, 16, 20B	2867	2.70	292	2.70	
15, 25, 35, 45 (1st series)	3261	2.70	296	2.70	
15, 25, 35, 45 (2nd series)	2867	2.70	292	2.70	
18, 28, 33	4260	2.70	294	2.70	
280M, 28EM, 18FW, 33DM	5300	2.70			
Atwater-Kent —424, 534	3308	3.30	222	3.15	
666, 776	3263	2.70	296	2.70	
816	3848	3.15	226	3.15	
126, 136, 416, 446, 556	5300	2.70	294	2.70	
Auburn —980525-526	4611	3.15	273D	3.30	
Audiola —see Fairbanks-Morse.					
Automatic —1933 models	2867	2.70	292	2.70	
1934 models, Jr., Sr.	3398	2.85	292	2.70	
1935 models	2867	2.70	292	2.70	
Junior twin six	3327	3.00	293	2.70	
A500, A5000	3867	2.70	292	2.70	
A5, J70, J50, J60	3227	3.00	292	2.70	
A1, J80	3227	3.00	508	2.85	
Balkitt —(Chassis 54, 64, U6	5300	2.70	294	2.70	
Belmont —560 (head)	3442	2.85	292	2.70	
660 (pack)	3314	4.80			
1932 models	3444	3.00	3118	2.85	
670	3263	2.70	296	2.70	
580, 670A	4260	2.70	296	2.70	
566	5300	2.70	294	2.70	
690, 880A, 880B, 880C	3263	2.70	296	2.70	
680, 680A, 680B, 680C	3263	2.70	296	2.70	
666	5300	2.70	294	2.70	
Bosch —524A, 634, 634A	4260	2.70	253Y	2.70	
(2nd and 3rd series) 140	4502	3.30	271	3.30	
150 (1st series)	3318	3.45	219	3.45	
150 (2nd series)	4502	3.30	271	3.30	
160-45 (sync.)	4502	3.30	271	3.30	
45 (non-sync.)	4263	2.70			
45A, 45C	4502	3.30	271	3.30	
189HB, 189HR (police)	5406	3.30	249	3.30	
78	3263	2.70			
79 (1st series)	3263	2.70	253	2.70	
79 (2nd series)	4260	2.70			
536, 636, 637, 736, 737, 738	5321	2.70	294	2.70	
B. O. P. Buick, Olds, Pontiac —see United Motor Service.					
Cavalcade —Chassis 54, 64	5300	2.70	294	2.70	
Cadillac					
06W Standard	3318	3.45	210	3.45	
06W Master	3318	3.45	237	3.45	
2721 (062)	3443	3.45	206	3.00	
2722 (072A)	3318	3.45	211	3.00	
6U2 Standard	3417	2.70	253	2.70	
56V1	3313	2.85	221	2.85	
62 (62-118), (62-199)	3883	3.00	287M	3.30	
Chevrolet —see United Motor Service.					
Clarion —100	2867	2.70			
100AR	4260	2.70	294	2.70	
TC50 (4-prong)	4260	2.70	294	2.70	
TC50 (6-prong)	3263	2.70	296	2.70	
Clinton —1935, 1936 models	3262	2.70	294	2.70	
803	5300	2.70	294	2.70	
Colonial —106 ("B" power sup.)	3313	2.85	221	2.85	
150 (sync.)	4502	3.30	271	3.30	
164	3263	2.70	296	3.00	
164B	3263	2.70	296	2.70	
Consolidated —51	3317	3.15	223	3.45	
Continental —U6	5300	2.70	294	2.70	
Corona —105, 122	5300	2.70			
Coronado —see Gamble.					
Crosley —98, 99, 102, 103, 5A1	3317	3.45	223	3.45	
4A1, 5A3, 6B1	3789	3.00	247	3.30	
A156, A266	5300	2.70	501P	2.40	
A166, A366	3461	3.15	273C	3.30	
DeLoe —see United Motor Service.					
Detroit —6A, 1100, 1100A	3442	2.85	220B	3.00	
1934-1935 models (3 leads)	2867	2.70	292	2.70	
6M (1935 plug-in), 6R	4260	2.70	294	2.70	
Electric Autolite —062, 062A	3443	3.00	206	3.00	
Electronic "H" Eliminator	2867	2.70	292	2.70	
Emerson —667, 965	3263	2.70	296	2.70	
SA De Luxe	3360	3.30	277S	3.30	
6A	5300	2.70	253Y	3.70	
(678-1), (678-2)	3308	3.30	225	3.45	
Eria —See Sentinel.					
Fada —101, 102, 104, 104B	3313	2.85	221	2.85	
166 (6-volt)	4260	2.70	253Y	2.70	
186 (12-volt)	3774	3.00			
266SG, 266SD, 266SF	5300	2.70			
266	5300	2.70	294	\$2.70	
Fairbanks-Morse —Audiola 23S7, 33S6 (2-prong)	3444	3.00			
33S7, 33S6 (1st series)	3444	3.00	312T	3.00	
23S7, 33S6 (2nd series) (5 leads)	4500	3.30	225	3.45	
33A6	3308	3.30	225	3.45	
S6, S7 (3 leads)	2867	2.70			
345	3356	2.70			
346, 347 (6-prong)	3356	2.70	297	2.70	
346, 347 (4-prong)	4260	2.70			
C6, 64, 74	3782	2.70	294	2.70	
B6	3356	2.70	297	2.70	
Firestone —R-1322 (R-132)	4414	3.30	289Y	3.30	
R-1332 (R-133), 1314, Travler	4260	2.70	294	2.70	
R-1431	5331	2.70	294SW	2.70	
Ford (Majestic)—Plug-in pack	3312	6.00			
Standard pack	3310	4.80			
Head only	3442	2.85	220B	3.00	
Plug-in vibrator	3263	2.70			
40-18805	3442	2.85	220B	3.00	
Glove Box (police)	3442	2.85	220B	3.00	
Ford (Philco)—All models	3320	2.70	500P	2.40	
Ford (Lincoln)	3263	2.70	296	2.70	
Ford (Zenith)	3263	2.70	296	2.70	
Galvin Mfg. Corp. —see Motorola.					
Gamble (Coronado)—26S1	4260	2.70	253	2.70	
670	3263	2.70	296	2.70	
General Electric —B40, C41, B52	3319	3.30	273	3.30	
C01	4415	3.00	224	3.00	
C60	3417	2.70	253	2.70	
D50, D51, D52	3883	3.00	287M	3.30	
D72	3805	2.70	294	2.70	
N60	5300	2.70	294	2.70	
123 De Luxe	4415	3.00	224	3.90	
N51	5420	3.00	249	3.30	
Goodyear —Wings (5-tube)	4260	2.70			
Wings 880	4260	2.70			
Wings (6-prong)	3263	2.70			
Gold Medal-Goldentone —U6	5300	2.70	294	2.70	
Graybar —150	4502	3.30	271	3.30	
Grebe —61R	2867	2.70	292	2.70	
Gulbransen —see Wells-Gardner.					
Halson —199 Roadmaster	3442	2.85	220B	3.00	
56U	5300	2.70			
Harley-Davidson —All	4502	3.30	271HD	3.30	
Police	4505	3.30			
Howard Highwayman —HA4	3263	2.70	296	2.70	
HA6	5406	3.00	249	3.30	
Hudson-Terraplane —Majestic head	3442	2.85	220B	3.00	
650HD, 651HE, 660TD, 661TE	2867	2.70	292	2.70	
Zenith 1933-34 models, 650, 660	2867	2.70			
666, 668, 680, H6	5300	2.70	294	2.70	
International —K-60, K6	5300	2.70	296	2.70	
Kadet —1934 models	3263	2.70			
Karadio —57, 150, 160, 180, 35	3261	2.70	296	2.70	
65, 66, 88, Sheriff	5306	2.70	296	2.70	
Knight —F9541, F9551	2867	2.70	292	2.70	
U6	3741	2.70	294	2.70	
F9737, G9881, 69882, F9737	2867	2.70	292	2.70	
F9551	3444	3.00	312T	3.00	
H9766, 9897	3741	2.70	294	3.30	
Lafayette —S17762	3443	3.00	210	3.45	
B6?	3883	3.00	286S	3.30	
062, 062A	3443	3.00	206	3.00	
L23	3417	2.70	253	2.70	
L23	3417	2.70	296	2.70	
C60	3417	2.70	296	2.70	
6U, 6S	3417	2.70	253	2.70	
AM20	3263	2.70	296	2.70	
LW10 (6-prong)	3263	2.70	296	2.70	
LW10 (4-prong)	4260	2.70	294	2.70	
Larkin Co. —91	2867	2.70	292	2.70	
16	2867	2.70			
Lewal —9101, 9102	2867	2.70	292	2.70	
Majestic —66, 116, 116A	3442	2.85	220B	3.00	
66 complete (pack), standard	3310	4.80			
66 complete (pack), 84 tube	3311	5.40			
Ford Majestic head	3442	2.85	220B	3.00	
Hudson-Terraplane	3442	2.85	220B	3.00	
Mallory Eliminator					
Types 1 to 6, inc.	3443	3.00	201-6, inc.	3.00	
Types 10 to 14, inc.	3318	3.45	210-14, inc.	3.45	
Melburn —50	5300	2.70			
Misslon Bell , 10A, 11, 12, 14, 25, 16	2867	2.70	292	2.70	
MONARCH —54, 64, U6	5300	2.70	294	2.70	
Montgomery Ward —(Airline) 87	2867	2.70	292	2.70	
(62-166), (62-118), (6U)	3417	2.70	253	2.70	
Auto radio	3443	3.00	206	3.00	
62-199 (5Y)	3883	3.00	2		

AUTO RADIO REPLACEMENT VIBRATORS



NOTE: If Set Model is Not Listed Write or Send Model or Part Number, and We Will Obtain an Exact Duplicate Vibrator for you

Make and Auto Radio Model	Radiart		Mallory	
	Stock No.	Net Price	Stock No.	Net Price
50, 60	5300	\$2.70	294	\$2.70
80, 90 (Golden Voice)	5310	2.70	294	2.70
88	3444	3.00	302S	3.00
61	3444	3.00	303S	3.00
77	3445	3.45	230	3.45
44A, 66, 77A	4502	3.30	270B	3.30
55	4607	3.45	231	3.45
55A	4607	3.45	234	3.45
44	3290	3.45	235	3.45
57, 62, 75, 79, 100, 110	3815	2.70	253T	2.70
Dual six and Twin eight	3417	2.70	253	2.70
GM62, GM79, GM110	3815	2.70	253T	2.70
Music Master—ten-ten	2867	2.70	292	2.70
Nobilt Sparks—see Arvin				
Oldsmobile—see B. O. P. United Motors Service				
Pacific—101, 102	2867	2.70	292	2.70
101B, 101C, 102B	5300	2.70	294	2.70
Pierce-Airo—see DeWald				
Packard—1933-34-35 models	3320	2.70	500P	2.40
Pbllico—Police (810PB, 811P)	5322	3.30	282P	3.30
Prior to 1936, 816	3320	2.40	500P	2.40
1936 and 817, 818, 819	5320	2.40	501P	2.40
Pontiac—see B. O. P. United Motors Service				
Radiart—3310, Majestic "B" Elim.	2867	2.70	292	2.70
Radiette—54, 64			294	2.70
RCA-Victor—5M, 6M, 6M2	5406	3.00	249	3.30
M34, M105, M116	3319	3.30	273	3.30
M107	3417	2.70	253	2.70
M107 (12-volt)			G253	3.30
H6 (Hudson), RS-631	4260	2.70	292	2.70
AR4229			273	3.30
M123	4415	3.00	224	3.90
M101, M104, M108	3883	3.00	287M	3.30
M101, M104, M108 (12-volt)			G287M	3.90
De Luxe	3319	3.30		
M109	3808	2.70	294	2.70
166	3883	3.00		
Reliance—U6	5300	2.70	294	2.70
Remington—U6	4260	2.70	294	2.70
Remler—27 (Scotty), 35	5300	2.70	292	2.90
35 (plug-in)	4260	2.70		
Setchell-Carlson—44, 45, 60, 60S, 66, 66S	5304	2.70	245	3.30
68, 68S, 70, 70S, 71, 80	5304	2.70	245	3.30
45, 41, 60, 70, 71, 71S	5304	2.70	245	3.30
Sears-Roebuck—3400 (Silver-tone)—4400, 4400A	5300	2.70	504	2.70
7128 (4-prong)	5406	3.00	249	3.30
7128 (6-prong)	4260	2.70	294	2.70
7117, 1859, 1859A	3261	2.70	296	2.70
7157, 1767, 1869	4502	3.30	271	3.30
1933 models (lead type)	5300	2.70	294	2.70
Synchronous	2867	2.70		
1949A	5406	3.00	249	3.30
Sentinel—5500	5300	2.70	294	2.70
600, 602	4260	2.70	292	2.92
603	3375	2.70	292	2.70
7M, 10M, 11M, 10MF	3888	2.70		
12-volt	3774	3.00		
Sheridan—5-tube	2867	2.70	292	2.70
Simplex—PB	2819	3.00	292	2.70
DE, PB			246C	3.30
1935 auto—6-volt house set	3679	3.00		
1935 non-sync. auto.	4260	2.70		
TA	5410	3.00		
Q	5300	2.70		
Spartan—33, 33A	3313	2.85	292	2.70
333	3263	2.70	292	2.70
36	3315	3.15	222	3.15
296	3263	2.70		
D686, H686, S676	5305	2.70		
Star—062, 062A	3443	3.00	206	3.00
6U	3417	2.70	253	2.70
Stewart Radio—50, 60	2867	2.85	292	2.70
Stewart-Warner—1112	4260	2.70		
1171, 1172, 1311, 1312, 1314, 1315	4260	2.70	294	2.70
1316, 1317, 1318, 1319	4414	3.30	259Y	3.30
R133 (7-prong)	4260	2.70	294	2.70
131, 133	2867	2.70	292	2.70
1121, 1122, 1123	4260	2.70	294	2.70
1131, 1132, 1133	4260	2.70	294	2.70
R117, R118	4260	2.70	294	2.70
R112, 1123	2867	2.70	292	2.70
R131, R133, R1332	4260	2.70	294	2.70
R132, R1322	4414	3.30	259Y	3.30
1601, 143	5331	2.70	294SW	2.70
1601 to 1609—1936 auto	5331	2.70		
143, 1431, R160	5331	2.70		
Stromberg-Carlson—33, 33A	3318	3.45	236	3.45
Studebaker—AC206	5320	2.70	500P	2.40
Supertone—U6	5300	2.70	294	2.70
Tiffany Tone—535, 536	3263	2.70	296	2.70
Travler—54, 64	5300	2.70	294	2.70

Make and Auto Radio Model	Radiart		Mallory	
	Stock No.	Net Price	Stock No.	Net Price
1934-35, all models	4260	\$2.70		
542, 642	5300	2.70		
Tropic-Airo—06W, 06X	3318	3.45	210	\$3.45
Troy—TR86	2867	2.70	296	2.70
86	2867	2.70	292	2.70
68	5300	2.70		
Truetone—see Western Auto				
Truvalco—6U	3417	2.70	253	2.70
United American Bosch—see Bosch				
United Motor Service—Buick, Olds, Pontiac, B. O. P.—393884, 393885	3461	3.15	273C	3.30
405045, 405046, 405057	3461	3.15	273C	3.30
405063	3461	3.15	273C	3.30
544245, 544246	4613	3.15	273C	3.30
544267, 544268	4613	3.15	273C	3.30
544289, 544290	3461	3.15	273C	3.30
544291	3461	3.15	273C	3.30
544297, 544298	4613	3.15	273C	3.30
1291344, 1291345	4613	3.15	273C	3.30
983506, 983507	3313	2.85	221	3.30
980441	3461	3.15	222	3.15
980455, 980459	3315	3.15	222	3.15
980504	3315	3.15		
980507, 980508	4611	3.15	273D	3.30
980509, 980525	4611	3.15	273D	3.30
980526, 982006	4613	3.15	273C	3.30
982007, 982008, 983507	4613	3.15	273C	3.30
983506	4613	3.15		
Chevrolet—364441	3313	2.85	221	3.30
600153, 600249	3315	3.15	222	2.85
600565, 600566	3315	3.15	222	3.15
601038, 601176, 601177	3461	3.15	273C	3.30
601525, 601574, 601586	3461	3.15	273C	3.30
601662, 601814	3461	3.15	273C	3.30
985100, 985200	5321	2.70	294	2.70
985300	4611	3.15	273D	3.30
985400	4613	3.15	273C	3.30
Delco—2035, 4036	3313	2.85	221	2.85
4037, 4038	3315	3.15	222	3.15
500, 630, 631, 633	5321	2.70	294	2.70
626, 627, 628, 629	3461	3.15	273C	3.30
634, 635	4613	3.15	273C	3.30
632	5321	2.70	500F	2.80
Utah—"B" Elim. (non-sync.)	3318	2.85	221	2.85
Warwick—511, 618	4318	2.70	504	2.70
655, 650, 550, 550	5300	2.70		
Wells-Gardner—6P, 6L (Where DeVry carbon point vibrator is the original equipment, replace transformer. Specify Radiart transformer, net price \$1.50)	5300	2.70	294	2.70
V6Z2, Z6Z1	2819	3.00	292	2.70
Z6W1	2819	3.00		
25Y1	3883	3.00	286S	3.30
25Y1 (12-volt)			G286S	3.90
062, 062A	3443	3.00	206	3.00
072, 072A	3318	3.45	211	3.45
06W (1st series)	3318	3.45	210	3.45
06W (2nd series)	3318	3.45	237	3.45
26U1 (6U), 26S1 (6S)	3417	2.70	253	2.70
06X	3318	3.45	210	3.45
6K	5420	3.00	249	3.30
6R	5300	2.70	253	2.70
61	5300	2.70		
6N	5300	2.70	294	2.70
5Y	3883	3.00	286S	3.30
26R1	4313	2.70		
Western Auto (Truetone)—S737	3417	2.70	253	2.70
380, 1938 model (Note: Transformer information same as on Wells-Gardner)	4260	2.70	294	2.70
S782 (Z6Z1), S783 (V6Z2)	2867	2.70	292	2.70
86	2867	2.70	292	2.70
S690 (062), S691 (062A)	3443	3.00	206	3.00
S740 (6U), 670 (6S)	3417	2.70	253	2.70
S735 (25Y1)	3883	3.00	286S	3.30
062 (3rd series)	2819	3.00		
S737C	4260	2.70	294	2.70
S745	5420	3.00	249	3.30
Westinghouse—WR25, WR26 (4-prong)	4260	2.70	294	2.70
WR25, WR26 (6-prong)	3263	2.70	296	2.70
WR502, WR503	5300	2.70		
WR500, WR501	4260	2.70	253Y	2.70
Wilco-Gay—4B6 Roadmate	3263	2.70	296	2.70
5F8-90	3263	2.70	296	2.70
Wurlitzer—460, A60	2867	2.70	292	2.70
Zenith—7	2867	2.70	296	2.70
460, 462 (2057), 650HD, 660TD	2867	2.70	292	2.70
650HE	2867	2.70		
651HE, 661TE	2867	2.70	292	2.70
Junior 7, 664	3263	2.70	294	2.70
Ford	3263	2.70	296	2.70
668, 666	5300	2.70	294	2.70
6M90, 680	5300	2.70	294	2.70
7M91S, 7M91D, 661E	5300	2.70		
5M90, 6M92O, 6M91, 7M91	5300	2.70		

DEDUCT 2% FOR CASH WITH ORDER

FARM RADIO REPLACEMENT VIBRATORS



Radiart

P. P. MALLORY & CO. Inc
MALLORY

YOU WILL FIND OUR STOCK COMPLETE

A TYPE FOR EVERY RECEIVER



6-VOLT HOUSEHOLD RECEIVERS

6-Volt Household Radio Sets

Make and Model	Radiart		Mallory	
	Stock Number	Net Price	Stock Number	Net Price
Addison —N655	5411	\$3.00	285XS	\$3.60
Admiral —L7, X6, Z4, Z5	5410	3.00	245C	3.30
Acratone —L7, X6, Z4, Z5 167B, 167D, 168B, 168D	5410	3.00	245C	3.30
Aircastle —L7, X6, Z4, Z5, BA41	5410	3.00	245C	3.30
Airmaster —31B, 34B, 49B, 50B 63BT, 63BC, 68BT, 68BCE	4403 5413	3.00 3.00		
Arvin (Noblitt-Sparks)—6V models 517, 517B, 617, 617B	5409	3.00	245	3.30
Atwater-Kent —237Q, 467Q (non-syn.)	5300	2.70	294	2.70
Balkitt —L7, X6, Z4, Z5, GT156BA	5410	3.00	245C	3.30
Continental —L7, Z4, Z5 1935-36 models	5410 5410	3.00 3.00	245C	3.30
Z544, AZ593, M551, M587	5410	3.00		
Cavalcade —3511	5410	3.00	245C	3.30
Coronado —34B, 31B, 1935 and 1936 models	4403	3.00		
Crosley —6615, 435 546, 636	4612 4612	3.00 3.00	246 246	3.30 3.30
Delco-U. M. S. —6010	4403	3.00	281	3.30
Erla —31B, 49B, 50B 63BT, 63BC, 68BT, 68BC, 68BTE, 68BCE, 66BTE, 66BCE	4403 5413	3.00 3.00		
Fairbanks-Morse —43-C-1B, 73-T-3-B, 73-C-2-B	5411	3.00	246	3.30
Grunow —1936 models 410, 411, 711	4611	3.15	245	3.30
Gold Medal-Goldentone —L7, X6, Z4, Z5	5410	3.00	245C	3.30
Halson —1936 models	5409	3.00		
Jacobs	4612	3.00	246	3.30
Knight —Chassis 6820 F9515, F9741 G9900 (6-volt amp.) G9571, H9850 G9875, G9876, H9817 L7, X6, Z4, Z5	4608 2867 2867 5410 4608 5410	3.30 2.70 2.70 3.00 3.30 3.00	285XS 292 292 245C 285XS 245C	3.60 2.71 2.71 3.30 3.60 3.30
Lewol —9682	4608	3.30	285XS	3.60
Lafayette —J60	4608	3.30	285XS	3.60
Monarch —L7, X6, Z4, Z5	5410	3.00	245C	3.30
Musicalre —34B, 31B, 49B, 50B 63BT, 63BC, 68BT, 68BC, 66BTE, 66BCE	4403 5413	3.00 3.00		
Pacific —1936 models 682	5411 4608	3.00 3.30	285XS	3.60
Pilot —253, 255	5411	3.00	246	3.30
RCA-Victor —6BK, 6BT6, 8BK8, 8BT8, 4-volt 1935-36 models 6BT6, 8BT6, 6BK6, 8BK6 8BK8, 8BT8	4417	3.00	W285 249	3.30 3.30
Reliance —L7, X6, Z4, Z5	5410	3.00	245C	3.30
Sentinel —34B, 31B, 49B, 50B 63BT, 63BC, 68BC, 68BT, 68BTE, 68BCE, 66BTE, 66BCE	4403 5413	3.00 3.00		
Setchell-Carlson —61, 62, 630, 40, 50, 41, 51, 410, 510	5304	2.70	245	3.30
Supertone —L7, X6, Z4, Z5	5410	3.00	245C	3.30
Simplex —5DB, 1935 6-volt house set PB, DB-GB	3679 5410	3.00 3.00	245C	3.30
Stromberg-Carlson —115	5409	3.00		
L'Atro —6A, K665, J665, H465, I465 R5236, Q5636, P4626, Q4626, M4616 (all 1st series) R5235, Q5635, P4625, Q4625, M4615 (all 2nd series)	3283 4608 4608	3.00 3.30 3.30	275 275XS 285XS	3.30 3.60 3.60
Warwick —1935-36 models	5409	3.00		
Western Auto (Truetone) —L7, X6, Z4, Z5	5410	3.00	245C	3.30
United Motors —6010	4403	3.00	281	3.30
Wilcox-Gay —SF8, SF890NS	3263	2.70		
Zenith —4V31, 4V59, 6V27, 6V62 4B106, 4B131, 4B132, 6B107, 6B129, 6B164, 6V69	5411 5411	3.00 3.00	246	3.30

32-VOLT HOUSEHOLD RECEIVERS

32-Volt Farm Household Sets

Make and Model	Radiart		Mallory	
	Stock Number	Net Price	Stock Number	Net Price
Acratone —167B	3679	\$3.00		
Airline —see Montgomery Ward.				
Audiola —see Fairbanks-Morse.				
Atwater-Kent —215Z, 305Z, 565Z, 135Z, 265Z	4314 3481	3.00 3.00	F297 F297	\$3.30 3.30
Colonial —1934 models	3503	3.45		
Crosley —119, 159	3607	3.60	F223	4.05
Delco —3203, 3204	4404	3.30	F247	3.90
U. M. S. —4050, 4051, 4049	3607 3607	3.60 3.60	F223 F247	4.05 3.90
Erla —5000 32-volt 6101	3395	3.00	F253 F292	3.15 3.30
Fairbanks-Morse —33S8 (1st series), (Audiola)—33S8 (2nd series)	3608	3.15	F221	3.45
Knigh —F9777, G9615			F292	3.30
Lafayette —164	3395	3.00	F253	3.15
Majestic —Complete pack Head for (Std. pack) Vibrator for (3316 pack) 490, 491, 493 (trans. type) 490, 491, 493 (plug-in type)	3316 3460 3481	6.00 3.15 3.00		
Montgomery Ward —(Airline) 62-136, 62-138 32-volt (sync.) 32-volt (non-sync.)	3651 3651 3395	3.30 3.30 3.00	F253	3.15
Phileo —32	4819	3.15	F502P	3.60
Silvertone —(4-prong) Vibrator (Sears-Roebuck)—6-prong	3395 3503	3.00 3.45		
Sentinel —5600 6101 32-volt			F253 F292	3.15 3.30
Simplex —P 1933-34 models 1935 (sync.)	3325 3679	3.30 3.00	F292	3.30
L'Atro —Admiral F923, Captain F913, Commander E83 Governor N54, Lt.-Governor L54 Governor N74, Lt.-Governor L74 Pilot J5, G63 President 094, Recorder P54, Recorder P64, X6236, W6236, V5226, U5226, T5216 President 084 F725, D625, C625	3452 3463 3395 3462	3.30 3.75 3.30 3.30	F204 F211 F251 F204	3.00 3.75 3.15 3.00
United Motors Service —see Delco.				
Wells-Gardner —26B1, 26B5 36D510, 36D560	3651 3395	3.30 3.00	F253	3.15

If the vibrator you want is not listed send model No. or part No. or send old vibrator and we will attempt to have factory duplicate it for you.

Note—We stock all Vaxley Mallory parts.

See Mallory condensers on page..... 25

See Vaxley Volume Controls page..... 26

See Vaxley Tap Switches and Jacks page..... 48

Servicemen! Enroll in Radiart Correspondence Course.

Write us for application blank or ask to have one included with your next order.

Be sure to attend Northwest Radio Servicemen's Convention at Hotel Lowry in St. Paul. Watch for announcement of date.

Clough-Brengle SUPER-SERVICE INSTRUMENTS

Model CRA



\$84.50

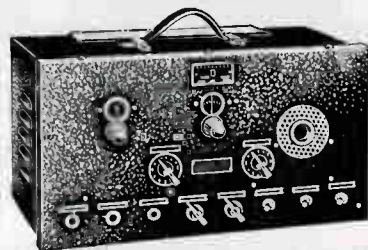
Housed in heavy metal case, finished in black crystalac. Etched silver finish.

"INDUCTOR SWEEP" SERVICE INSTRUMENTS The CRA Oscilloscope

- Input sensitivity, .38 R.M.S. volts per inch.
- All controls on front panel.
- Wide range sweep circuit (up to 20,000 c.p.s.).
- Automatic synchronization.
- Oversize dual power transformer.
- Separate horizontal and vertical amplifiers.
- Shipping weight, 42 lbs. Complete with tubes.

Buy it on easy payments. **\$9.50** cash and **\$8.36** a month for 10 months. Used with Model OM-A illustrated and described on right, you can now own the most modern, accurate equipment money can buy at prices and terms within your means.

Model OM-A



The OM-A Oscillator **\$57.75**

- Exclusive C.B. "inductor sweep."
 - Built-in frequency modulator.
 - Sine wave modulation.
 - Constant sweep width.
 - Frequency range, 100 kc. to 30 mc.
 - Guaranteed accuracy, 1/2 of 1%.
- Own it on easy payments, **\$6.50** down and 10 monthly payments of **\$5.85**.

C.B. MODEL 99 SIGNAL GENERATOR

- R.F. output calibrated in microvolts.
- Adjustable modulation percentage.
- Hand calibrated direct reading dial.
- Guaranteed accuracy, 1/2 of 1%.

\$43.90

Easy payment price, **\$5.00** down and 10 monthly payments of **\$4.44** each.

- Range, 100 kc. to 60 mc. on fundamentals.
- New all metal tubes.
- Tuning dial 25 inches long per band.
- Six range roto-inductor assembly.
- Adaptable to cathode ray use without alterations.



MODEL 79A BEAT FREQUENCY OSCILLATOR



- 150 milliwatt output (14 db.).
- Linearity plus or minus 1% from 1,000 cycle level.
- New metal tubes. No matching required.
- May be used to modulate R.F. Osc.
- Guaranteed less than 5% wave from distortion.

\$53.75

On time payments for **\$6.00** down and 10 monthly installments of **\$5.45** each.

- Frequency range, 50 to 10,000 cycles.
- Cathode ray zero beat indicator.
- Accurately calibrated.
- Thorough filtering of R.F. from output.
- 8-inch dial scale for easy setting.

IMPROVED MODEL OC-A OSCILLATOR

- Frequency range, 100 kc. to 30 mc. on fundamentals.
- Calibrated for use of 60 mc. harmonic range.
- 25-inch dial length per band.
- Guaranteed 1/2 of 1% hand calibration.
- Checked against crystal standard.

\$29.95

On easy payments, **\$4.50** down and 7 monthly payments of **\$4.20** each.

- New all metal tubes.
- Modulated or unmodulated output.
- 400 cycle sine wave output.
- Adaptable for use with cathode ray tests.
- New output attenuator controls.



Limited space does not permit us to show all Clough-Brengle equipment. If interested in other models, write us for literature and prices.

- Model 95 Super Unimeter..... **\$47.75**
- Model 85 Unimeter..... **24.95**
- Model 88 Vacuum Tube Voltmeter..... **42.50**
- Complete Service Laboratory Models.

Equip Your Shop Complete. See Second Page for Details of Time Payments

DEDUCT 2% FOR CASH WITH ORDER

Supreme



STARTLING NEW ENGINEERING DEVELOPMENTS

NEW! SUPREME CATHORAY OSCILLOSCOPE

These features in addition to those found in other models make this an outstanding value.

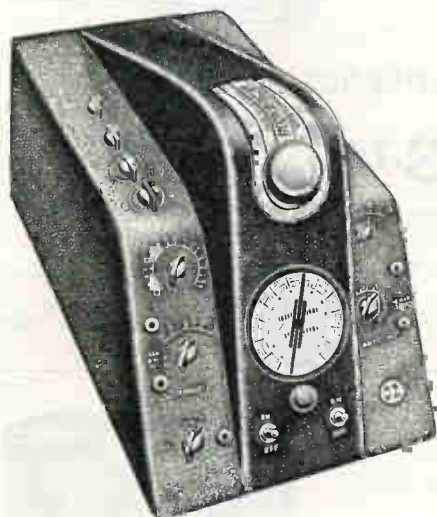
- Self contained, complete power supplies.
- Separate horizontal and vertical amplifiers.
- Amplifier input resistance of 500,000 ohms.
- Maximum input potential, 800 volts.
- Frequency range 20 to 90,000 C.P.S.
- Sensitivity of 2 peak volts per inch.
- Linear time base (Saw Tooth Osc.) included.
- Deflecting plates accessible direct or through amplifiers.
- Synchronization of linear time base with input voltage.
- Synchronization of time base with power supply.
- Complete with R. C. A. 906,885,879, 80 and 2-57's.
- Fully shielded metal case. Complete instructions.

S. I. C. Easy Payment Price, \$10.00 cash deposit and 12 monthly payments of \$7.68.



Model 545
Cathoray
Oscilloscope

\$92.95



Model 555
Diagnoscope

\$147.95

RADICALLY DIFFERENT!

The Instrument of Tomorrow

Supreme Diagnoscope

The most complete instrument of its kind on the market.
Self contained, compact and precise.

- Frequency modulated signal of constant band width.
- Variable between 125 K. C. and 15 megacycles.
- Built in dual purpose signal generator (direct reading).
- Beat frequency audio oscillator 50 to 10,000 C.P.S. (constant output).
- Fixed frequency (400 C.P.S.) modulation built in.
- "Saw tooth" oscillator 7 to 20,000 C.P.S.
- Phase shifting facilities for study of Lissajou's figures.
- High gain flat response horizontal and vertical amplifiers.
- Provisions for external use of built-in oscillator and audio signal.
- Screen calibrated in K. C. off resonance.
- Component circuits may be used individually.
- Complete, compact, accurate, flexible.

S. I. C. Easy Payment Price, \$15.00 cash deposit and 12 monthly payments of \$12.05.

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

**NEW
PRICES
for
1937**

SUPREME

**NEW
TESTERS
for
1937**

Testing Instruments

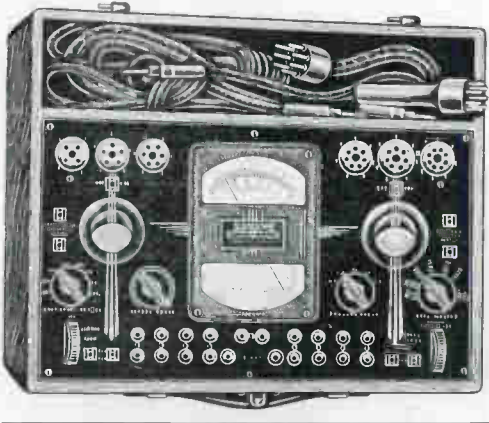
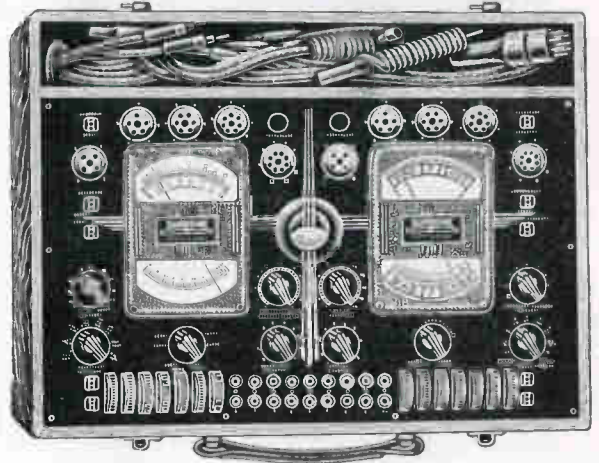
"SUPREME BY COMPARISON"

**MODEL 585
DIAGNOMETER**

\$96.95

- ◆ Supreme "Quadrimeter" with double viewing windows.
- ◆ A.C. volts, D.C. volts, D.C. mills, capacity, ohms, D.B. ranges, output ranges!
- ◆ A.C., D.C., volts and mills ranges: 0/7/35/140/350/750/1,400.
- ◆ D.C. amperes 0/14 (external only).
- ◆ Resistance 0/2,000/20,000/200,000/2 meg./20 meg.
- ◆ Capacity 0/.07/.35/1.4/3.5/7/14 mfd.
- ◆ D.B. ranges —10 to plus 6, 0 to plus 16, plus 10 to plus 26, plus 20 to plus 36, plus 30 to 46.
- ◆ Output ranges (same as A.C. volts).
- ◆ Colored English reading tube tester scale.
- ◆ English reading condenser leakage scale.
- ◆ 0/200 ohms low range ohmeter.
- ◆ Balance ratio tube test circuit.
- ◆ Free reference point analysis system.
- ◆ Evenly spaced A.C. readings.
- ◆ Antique bronze finish. Hardwood case.

S.I.C. Easy payment price \$10.00 cash deposit and 12 monthly payments of \$8.00.



**MODEL 550
RADIO
TESTER**

\$55.95

Reads AC-DC volts, DC mills 0 to 1400 in 6 ranges.

Reads capacity from .07 to 14 Mfds. in 6 ranges.

Reads resistance from 0 to 20 meg. in 5 ranges.

Reads DB from —10 to +46 in 5 ranges. Has output meter ranges, leakage tester, power supply, and complete free reference. Point System for analysis.

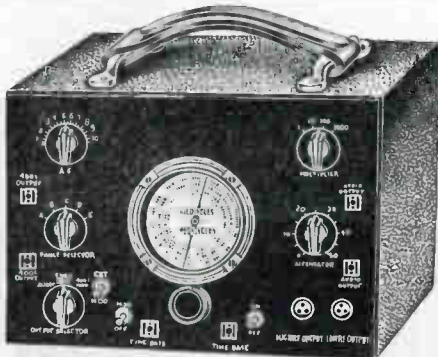
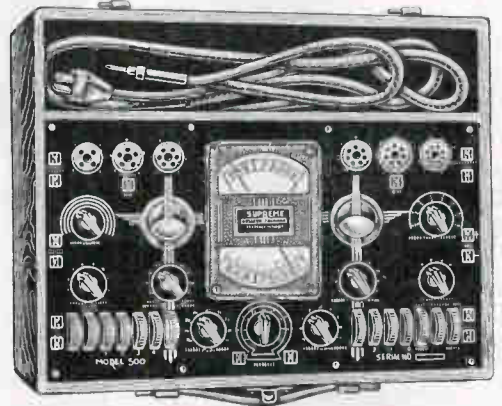
S.I.C. Easy payment price \$6.00 cash and 10 monthly payments of \$5.55.

Combines features of Deluxe tube tester with unimeter functions, has neon short test. English reading dial for tube test. Tests condensers for leakage. A.C., D.C. volts and milliammeter ranges 0 to 1,400 in 4 ranges. Reads resistance 0 to 20 meg. in 5 ranges. Reads from —10 to +26 D.B. in 3 ranges.

S.I.C. Easy payment price \$7.50 cash and 10 monthly payments of \$6.61.

**MODEL 500
AUTOMATIC**

\$66.95



**MODEL 580
DE LUXE SIGNAL
GENERATOR**

\$54.95

Frequency Modulated

**MODEL 570
DE LUXE
OSCILLATOR**

\$31.95

90 K.C. to 60 M.C.

◆ Frequency modulated output of constant band width.

◆ Coverage from 125 K. C to 60 M.C.

◆ Timing voltages for cathode ray synchronization.

◆ Beat frequency audio oscillator 50 to 10,000 C.P.S.

◆ Provisions for external modulation of output.

◆ Separate external connections for audio output.

S.I.C. plan \$6.00 down and 10 payments of \$5.44 each.

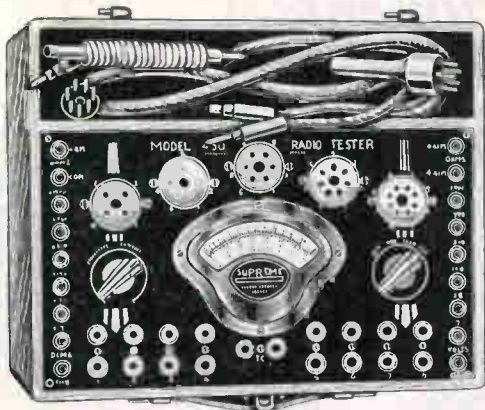
The Model 570 Deluxe contains many of the Model 580 features except the cathode ray modulator and beat frequency oscillator.

S.I.C. plan \$4.00 down and 8 payments of \$3.90 each.

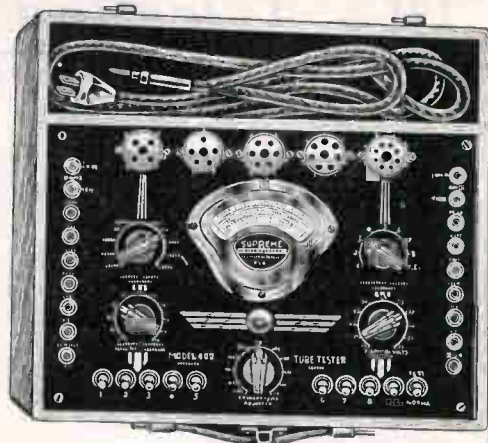
DEDUCT 2% FOR CASH WITH ORDER

NEW SUPREME INSTRUMENTS 1937

MODEL 450 STANDARD SET TESTER



MODEL 400 STANDARD TUBE TESTER



Model 450.
Net price..... **\$34.95**

An up-to-date test instrument with all popular ranges for average radio service. Simple and accurate, 28 ranges are included. A.C.-D.C. volts, D.C. mls. on scale reading 0/7/35/140/350/700/1,400 and ohms to 400,000 in three ranges with provisions for using external battery to read 4 legs. Complete free reference point system provided.

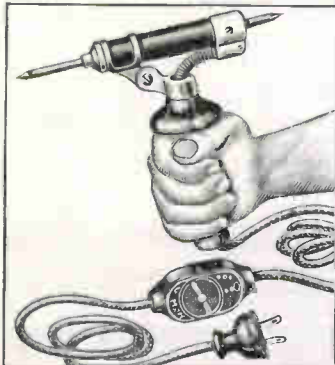
SIC—Easy payment price, \$4.00 cash and nine monthly payments of \$3.82.

Model 400.
Net price..... **\$38.95**

A high quality tube tester so reasonably priced as to be in the range of every service man's means. Incorporates all standard tube tester functions such as leakage, quality, separate diodes, etc., in addition to D.C. volts and mls. 0/7/35/140/350/700/1,400 and ohms 0/4,000/40,000/400,000 with self contained batteries.

SIC—Easy payment price, \$4.50 cash and ten monthly payments of \$3.83.

MODEL 525 SOLDERING TOOL



The greatest individual contribution to the art of soldering in many years. Unexcelled for radio, telephone and general soldering.

Three definite, different core heats controlled by cord switch, together with adjustable soldering rod provide a great number of possible tip temperatures.

Non-scaling copper soldering rod may be extended 6 inches maximum from heating body to reach locations totally inaccessible with straight soldering tools. Either end of soldering rod may be used by simply turning tool over in the hand, thus allowing two different types of points for instant use.

Soldering rod easily removable for pointing and shaping.

Soldering rods obtainable in a variety of shapes.

New working comfort with perfect mechanical balance is allowed by the handle mounted at right angles to the heating body.

Pivot mounting allows heating body to be set at any angle from parallel to approximately 110 degrees with handle thereby allowing additional flexibility to meet working conditions.

Heating unit which is easily replaceable reaches working temperature quickly.

Wattages: 75 watts for general light work; 125 watts for medium work and rod extensions to approximately 4 inches; 200 watts for quick heating from cold; heavy duty soldering and for rod extensions to 6 inches.

Weight approximately 18 ounces.

Also available in single heat models.

Triple heat..... **\$6.75**
Single heat..... **\$6.00**

MODEL 490 STANDARD MULTIMETER

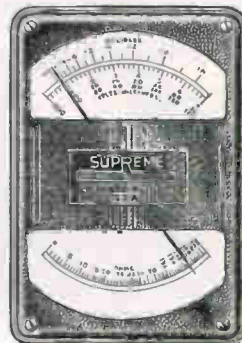


Model 490.
Net price..... **\$22.95**

Here is just the unit thousands of radio servicemen, amateurs and general experimenters are looking for. A really good multi-meter. This new Supreme Model 490 Standard has the same meter circuit and ranges as the Model 450 set tester but does not include the set testing cable. Uses the Supreme 5-inch fan shaped meter with a 500 microampere movement. Incorporates 28 ranges: 0/7/35/140/350/700/1,400 D.C. volts, 0/7/35/140/350/700/1,400 A.C. volts, 0/7/35/140/350/700/1,400 D.C. mls., 0/4,000/40,000/400,000 ohms with provision for external forty-five volt battery to 4 megohms, and 0/7/35/140/350/700/1,400 A.C. volts output ranges.

S.I.C. easy payment price, \$4.00 cash and five monthly payments of \$4.25.

MODEL 510 METER KIT



The new Quadrimeter included in this kit employs a bi-indicating needle and a 1-mil. movement having a sensitivity of 1,000 ohms per volt. Dual viewing windows which can be illuminated by dial lights. The meter measures 5 1/4 x 7 1/4 inches and has a dustproof bakelite cover which is removable. In combination with the parts kit, twenty-seven ranges are available, 0/7/35/140/350/700/1,400 volts A.C., 0/7/35/140/350/700/1,400 volts D.C., 0/7/35/140/350/700/1,400 milliamperes D.C., 0/2,000/20,000/200,000 ohms and six output ranges of 0/7/35/140/350/700/1,400 volts A.C. The parts kit includes one Supreme Bi-Indicating Needle Quadrimeter, one meter adjustment resistor, 15 resistors with 6 attached matching capacitors, 1 0-3,600 ohm potentiometer, one A.C. rectifier and all necessary switches.

Model 510.
Net price..... **\$17.95**

74 **DEDUCT 2% FOR CASH WITH ORDER**

New

JACKSON

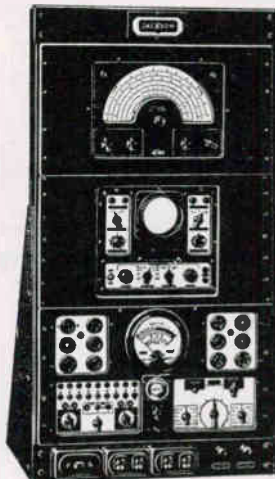
1937

RADIO TEST INSTRUMENTS

MODEL 500 COMPLETE "SERVICE LAB"

DISPLAY VALUE

The Jackson "Service-Lab" is the most impressive and elaborate equipment installation ever offered to the servicing profession. This "Display Value" impresses the customer with the importance and necessity of precision workmanship. The "Display Value" offered by the Model 500 "Service-Lab" will be used advantageously this year by many service shops to increase the price charged per job.



Standard Relay Rack Style.
20 ins. wide—38 ins. high.

RELAY RACK CONSTRUCTION

The most modern equipment installation available at any price. Complete in every respect, including:

- Cathode Ray Oscillograph
- R.F.—A.F. Test Oscillator
- Frequency Modulated Oscillator
- "Dynamic Output" Tube Tester
- Complete Circuit Tester
- Full Range Universal Test Meter

The "Service-Lab" is designed to help you increase your profits. With the Type 500 you can speed up your work, do a more accurate job and receive a much better price.

This complete laboratory consists of the following Jackson test equipment described on these pages: Model 520 cathode ray oscillograph, Model 540 frequency modulated R.F.—A.F. oscillator, Model 585 dynamic analyzer; all mounted in sturdy relay rack. Can be purchased on easy payment plan as follows: \$49.50 down and \$26.00 per month for 6 months, or \$49.50 down and \$16.00 per month for 10 months. Other terms can be arranged if necessary. Let us know your requirements. See outline of time payments on second page.

Model 500—Complete "Service-Lab" (Net to Dealer)\$199.50

CATHODE RAY OSCILLOGRAPH



MODEL 520

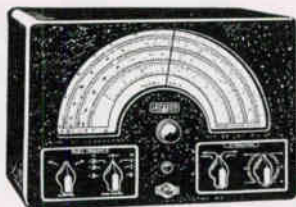
All controls on front of panel and grouped so as to separate the three distinct functions of these controls. Maximum input sensitivity of both sets of plates is .75 volts R.M.S. per inch of deflection. Saw-tooth oscillator range 10 to 20,000 cycles allowing ready inspection of frequencies up to 100,000 cycles. Attractively finished in black Morocco with control plates etched in black on white metal background. Dimensions: 10 1/4 x 9 1/4 x 13 1/4. Shipping weight, 35 lbs. Complete with all tubes, ready to operate.

Price (Net to Dealer) ..\$79.50

FREQUENCY MODULATED TEST OSCILLATOR

MODEL 540

Self-contained frequency modulator is electronic type.
NO MOTOR OR ROTATING PARTS ARE EMPLOYED



The Model 540 is basically a high grade test signal generator, but in addition contains a built-in "Frequency Modulator." Frequency sweep is provided with constant band width at all frequencies.

SPECIFICATIONS

FREQUENCY RANGE—100 kilocycles to 70 megacycles—all direct reading. **LARGE GLASS-ENCLOSED SCALE**—total effective scale length is 72 ins. Knife-edged pointer is attached directly to condenser shaft. Condenser drive is slow-motion planetary type.

SIGNAL OUTPUT—Either audio modulated or frequency modulated. Maximum signal is sufficient for any receiver. Two circuit attenuator provides variable ratio and also vernier control.

SHIELDING—Case is one-piece cast aluminum. Important circuits are isolated by excellent mechanical construction. All control shafts are at ground potential.

FREQUENCY MODULATION—The electronic sweep method is vastly superior to other methods now in use. No motor or rotating parts is required, therefore the sweep circuit remains in permanent adjustment and does not become inaccurate due to friction, wear, or dislocation. Furthermore, the electronic sweep provides a uni-directional frequency trace on the oscillograph screen. No reverse sweep appears and thus the confusion of double trace is eliminated. For securing visual resonance curves in connection with a standard oscillograph. The frequency modulation accomplished in the Model 540 (electronic method) produces a single image curve on the Cathode Ray screen. The band width of this image is automatically maintained at 30 Kc. regardless of the frequency delivered by the oscillator.

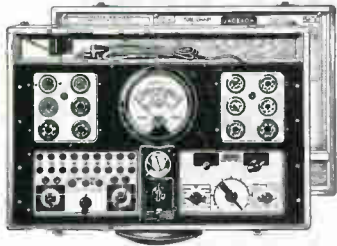
Operates from 110-volt 60 cycle A.C. line supply. Dimensions—11 1/2 x 8 1/4 x 4 1/4 ins. Shipping weight, 19 lbs.

PRICE—Complete with all metal tubes and accessories (net to dealer).....\$56.25

DEDUCT 2% FOR CASH WITH ORDER

New **JACKSON** *1937*
RADIO TEST INSTRUMENTS

MODEL 580 DYNAMIC ANALYZER SPECIFICATIONS:



TUBE TESTER—Tests over 200 types of tubes including all metal and metal-glass types. The test method is the well known Jackson "Dynamic Output" test. Tests each diode plate separately—also both sections of dual class B tubes and both plates of all rectifiers. Special tests for Pentagrid converter types.

METER RANGES—D. C. Volts—0-7.5/75/150/300/750/1500. D. C. Milliampères—0-7.5/75/150. A. C. Volts—0-15/150/1500. Ohms—0-100/100,000/1 meg/10 meg. Microfarads—.001 to .15/.01—1.5/1-15. Decibels—-10 to +18. All ranges are direct reading and any desired range can be instantly selected by the "Meter Selector" switch.

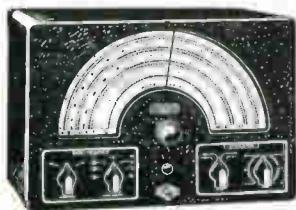
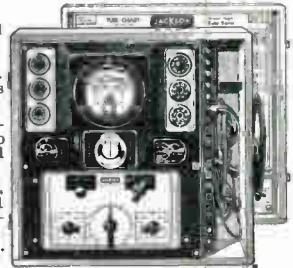
CONSTRUCTION—Main panel is one piece cast aluminum 19 inches long, 10 1/2 inches wide. Control panels are etched metal having a white background and black characters. Case is genuine oak, measuring 19 3/4 inches by 13 3/4 inches by 6 inches. Shipping wt., 23 lbs.

PRICE—Model 580 (less 8-wire cord and plug) (Net to dealer).....\$59.50
No. 908—CN 8 Wire Cable and Plug.....\$4.50

JACKSON "DYNAMIC OUTPUT" TUBE TESTERS

MODEL 535 Features

1. **Dynamic Output Test**—the most perfect method devised for accurate determination of tube condition.
 2. **All readings direct** on "Good—Bad" scale. Provision for many more.
 3. **All readings direct** on "Good—Bad" scale. No special marks for diodes, etc. Most simplified operation ever attained in a precision instrument.
 4. **Sensitive neon test** for all shorts or possible leakage between elements.
 5. **Deluxe Multi-Meter ranges** for volts, M.A., ohms, megohms. Also condenser test incorporated.
 6. **True "Unit Construction"**—Socket plates removable and control panel removable. Protects instrument against obsolescence, should changes ever become necessary.
- MAKES A COMPLETE, ACCURATE test on EVERY tube.** Tests over 200 different types, including the new metal and metal-glass octal base tubes. Tests each diode plate separately, also both sections of Dual Class B tubes and both plates of all rectifiers. Special tests for Pentagrid Converter types.
- DIRECT READING METER RANGES—VOLTS, OHMS, MILLIAMPERES.** D. C. Volts—0-7.5, 0-75, 0-150, 0-300, 0-750, 0-1500. Milliampères—0-7.5, 0-75, 0-150. Ohms—0-100, 0-100,000, 0-1 megohm, 0-10 megohms. All ranges direct reading. Ohms range in sensitive from 1/10th Ohm— to 10 Megohms. Does not require external battery for megohms.
- Cast Aluminum Panel**—Etched metal control plates—solid oak case, dimensions 12 3/4 x 13 3/4 x 6 in. overall. Shipping wt., 17 lbs.
- MODEL 535 PORTABLE TESTER**—Net price\$39.50
Model 535—C Counter style. Net price.....\$43.50



TEST SIGNAL GENERATOR (A. C. Operated)

The specifications for this oscillator are the same as the Model 540 except that the electronic sweep circuit is not included. An instruction book is furnished which contains a list of the I. F. frequencies in use by over 2,000 radio receivers. Shipping weight, 17 lbs. Complete with tubes.

Model No. 441-A.

Model 441A—110 volt, 60 cycles. Net price.....\$32.80

BATTERY OPERATED TYPE (MODEL 441-B)

NET PRICE (Complete with tubes and instructions) . . \$31.00

D. C. MULTI-METER



Model No. 412.

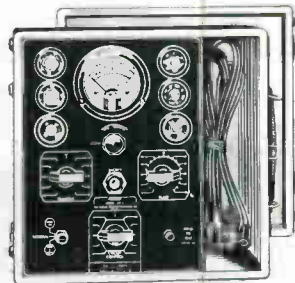
- D. C. VOLTS—0-5/0-50/0-500/0-1000.
 - 1,000 ohms per volt.
 - OHMS—Two scales—1/2 ohm to 500 ohms; 200 ohms to 500,000 ohms.
 - MILLIAMPERES—0-1 MA.
 - SPECIAL LOW RESISTANCE RANGE—Direct reading.
- METER**—Sensitive D'Arsonval type in standard 2 3/4-in. Bakelite case. Knife edged pointer and two colored scale. Equipped with zero corrector.
- PANEL ASSEMBLY**—Bakelite panel attractively lettered. Phone jacks for standard test prods. Adjustable ohms zero control provides for compensating battery voltage.
- CASE**—Sturdy, welded steel, 5x3x2 ins., finished in baked morocco enamel.
- BATTERY** is self-contained within the instrument and is easily replaceable.
- CONSTRUCTION** is of exceptional quality throughout. Insulated for 1500 volts. All ranges designed to withstand 50% overloads without damage. Supplied complete with battery. Shipping wt., 3 lbs.

MODEL NO. 412—Dealer's Net Price, only.....\$9.85

DEDUCT 2% FOR CASH WITH ORDER

World Radio History

MODEL 427-A



SPECIFICATIONS:

DIRECT READING METER with colored dial. Meter is 3 3/4 in.

TESTS ALL TUBES, INCLUDING METAL TYPES. NEON SHORTS TEST.

"DYNAMIC OUTPUT" TEST makes complete tests on all multi-element tubes such as diodes, etc.

HIGH QUALITY CONSTRUCTION. Solid oak case, Bakelite panel tapped primary line voltage control, rugged sockets. Designed to accommodate future types of tubes.

MAY BE USED FOR OTHER TESTS by the addition of a simple attachment. Measures D.C. volts, 0-50/500. D.C. MA, 0-50. Ohms 0-500,000. Also condenser test for shorts, opens and leakage. Attachment costs only \$3.75 (Catalog No. 428). Dimensions 11x11x5 ins. Weight, 9 lbs.

Model 427-A—Tube Tester—Net price\$29.50

**RANGER-EXAMINER
FREE POINT TESTER
AND MULTIMETER**



Model 640-740

Model 640-740 Combination Volt-Ohm-Milliammeter and Free Point Tester is adaptable for every purpose in voltage, current or resistance testing, by the free point direct contact and the plug-in methods.

Volt-Ohm-Milliammeter unit has a Triplett precision instrument. Scale readings: 10-50-250-500-1,000 A.C. and D.C. volts at 1,000 ohms per volt; (D.C. Accuracy 2%, A.C. 5%); 1-10-50-250 M. A.; 0-300 Low Ohms; High Ohms to 250,000 at 15 volts. Rheostat adjustment will take care of 15 volts for ohms readings up to 2.5 megohms. Batteries may be added, permitting readings in 250,000 ohms steps. Low ohms reads to 1/2 ohms,—the 25 ohms portion being in center of the scale. The backup method used is without appreciable contact or other errors. The current draw is only 1 M.A.

Model 640 Free Point Tester has five sockets for handling any type glass, metal-glass or metal tube. Panel includes eight automatic switch type and ten single action jacks.

Case is same as model described opposite.

Model 640-740. Net price.....\$27.00



PRECISION BUILT
A complete line of Radio Test Instruments. Brings to the serviceman everything required in portable instruments. Precision built. Extremely durable and compact. Laboratory accuracy. Low cost.
TRIPLETT METERS USED THRUOUT

**RANGER-EXAMINER
SIGNAL GENERATOR
AND MULTIMETER**



Model 540-740

Model 540-740 has two instruments—Direct Reading All-Wave Signal Generator and Volt-Ohm-Milliammeter. With the 740 Volt-Ohm-Milliammeter the serviceman can locate most of the troubles common to radio receivers. Has Triplett precision instrument. This unit is the same as Model 740 described opposite.

The 540 Direct Reading Signal Generator has Plug-In type coils. Five frequency bands from 110 to 20,000 Kc., all fundamentals. Each coil is individually calibrated by an exclusive method of peaking with trimmer condensers built as an integral part of the coil. Guaranteed accuracy is 1% for broadcast and intermediate bands and within 3% for short wave bands.

Model 540 is completely shielded for static and magnetic fields. Attenuation and stability are outstanding features. Strong signals, both modulated and unmodulated, are furnished.

The sturdy case is metal with built-in compartments, having snap-on covers, for accessories. Has strap handle. Case finish is electro black baked enamel. Panels are silver and black. Size of case is 11-7/16x7 1/2 x 4 1/2 ins. All batteries and two type 30 tubes are included with necessary accessories.

Model 540-740. Net price.....\$36.00

PRECISION QUALITY AT NEW LOW PRICES

**RANGER-EXAMINER
D.C. POCKET
VOLT-OHM-MILLIAMMETER**



Model 735

Model 735 is a pocket size D.C. Volt-Ohm-Milliammeter with selector switch, black molded case with all corners nicely rounded and ranges comparable to those of larger multimeters. Can be carried easily in the coat pocket. Provides measurements for every requirement of the serviceman on home calls and is suitable for extra utility use in the shop and laboratory.

Ranges are 15-150-750 volts; 1.5-15-150 M.A.; 1/2-1,000 low ohms; 0-100,000 high ohms at 1.5 volts. External batteries may be used for higher resistance measurements. Has Triplett D'Arsonval type precision instrument with readings accurate within two per cent. Selector switch for all ranges and individual zero adjustment for resistance measurements.

Sturdy black molded case, 3-1/16x5 1/2 x 2 1/2 ins. high. Attractive silver and black panel. Battery and test leads with alligator clips are included. Approximate shipping weight, 3 pounds, 4 ounces.

Model 735. Net price.....\$10.80



**PRECISION BUILT
ALL-WAVE
SIGNAL GENERATORS**
Feature
Plug-In trimmer peaked coils.
Direct Reading—long scales.
All fundamentals.
Accuracy 1% broadcast band.
Accuracy 3% short wave bands.
Precision built.
Perfect attenuation.
Highest Quality.
Lowest Prices.

**RANGER-EXAMINER
DIRECT READING
SIGNAL GENERATOR**



Model 557

Individually calibrated Plug-In Type coils, setting a new standard of obtaining laboratory accuracy at low cost, are used with Model 557 Ranger-Examiner All-Wave Direct Reading Signal Generator. See description above for Model 540 oscillator.

Supplied in attractive black leatherette case. Silver and black panel. When closed case measures 12x6 1/2 x 5 1/2 ins. Approximate shipping weight, 12 pounds.

Model 557. Net price.....\$18.00

Model 554-A—Same as Model 557 but not Direct Reading. Calibrated graphs included for accuracies under 1% on any band.

Model 554-A. Net price.....\$14.40

DEDUCT 2% FOR CASH WITH ORDER

Readrite

**Direct Reading
Tube Tester**

1. Checks glass, metal and glass-metal tubes.
2. Applies proper load values to tube being checked.
3. Tests for slightest leakages and all shorts.
4. But four simple operations required.
5. Uses Triplett Model 221 meter with GOOD-BAD scale.



Readrite

**Equipped With
Triplett Meter**

6. Meter especially protected against damage.
7. Unique shadow type A.C. meter for line volts adjustment.
8. Has double grid cap for metal and glass-metal tubes.
9. Sloping, all metal, silver and black panel.
10. Attractive quartered oak case with handle.

Greatest Tube Tester Value Ever Offered

Model 430 is designed to check all tubes speedily and accurately. Results noted on Direct Reading GOOD-BAD meter scale will convince the most skeptical buyer. This latest 1937 model applies the proper load to tubes under test. Be prepared for modern tube testing with this rugged and reliable tester. An up-to-the-minute 1937 tube tester. Five flush mounted sockets provide for the various tubes without the use of adapters. The lamp used to illuminate the special shadow type A.C. line voltage adjuster meter also indicates when tester remains connected to the power supply. The tester circuit is designed to indicate all inter element shorts and leakages.

A complete tester with attractive oak case and sloping silver and black metal panel. Must be seen and used before true appreciation can be had. Removable cover makes tester equally satisfactory for either counter or portable use. Up-to-date tube charts furnished to all registered users.

Model 431, same as Model 430, but with Readrite meter having GOOD-BAD Direct Reading Scale.

MODEL 430 **\$18.00**

MODEL 431 **\$14.40**

POINT-TO-POINT TESTERS



Model 720A is designed for speedy, efficient servicing on all radios including metal tube sets. Used to measure resistances, continuity, capacity and voltages and tubes. Has 8 wire cable which plugs into set sockets. Includes two meters—D.C. having scales—15-150-300-600 volts; 15-150 M.A. A.C. meter reads—0-10-25-150-750 volts. Complete with instructions, charts and accessories.

No. R720A\$15.00

No. R730A—Same as No. R720A but with Triplett Model 223 D.C. voltmeter having 1,000 ohms per volt and scale reading 15-150-300-600 volts.....\$18.00

SET TESTER

Model 710A—popular three-meter set tester is used to check all parts of radio tube circuits by plugging directly into receiving set socket on all sets including 8 octal metal tube models. D.C. voltmeter reads 0-20-60-300-600; D.C. milliammeter reads 0-15-150; A.C. voltmeter reads 0-10-140-700. Selector switch connects all D.C. circuits to D.C. voltmeter. Panel jacks provide individual range connections for the three meters. Black and silver panel in black leatherette case—size 10 3/4 x 8 1/2 x 4 inches. Comes complete with instructions, resistance and capacity charts and necessary accessories.



No. R710A\$16.50

No. R712A—Same as No. R710A but with Triplett Model 233 D.C. Voltmeter, 1,000 ohms per volt, reading 0-15-60-300-600\$22.20

WESTON MODEL 698 SELECTIVE SET SERVICER



Includes a Weston Universal Volt - Ohm - Milliammeter, equipped with a Model 301 Instrument—a complete Model 666 Type 1-B Socket Selector Set—all necessary leads—a substantial leatherette carrying case and necessary instructions. The Weston Socket Selector Set prolongs the life of the Model 698 indefinitely. The Selector block mounts on top of the instrument by means of two pin terminals on its underside. Its ranges are: 750-150-15-7.5 volts A.C. and scale, 3,500-35 ohms center D.C. only. Voltage, current, resistance and continuity measurements may be made in any radio receiver.

D.C., 500,000-5,000 ohms full scale, and 75-7.5 milliamperes D.C. only. Voltage, current, resistance and continuity measurements may be made in any radio receiver.
Model 698 Type 1-B (Complete).....\$37.50

MODEL 666 SOCKET SELECTORS

Model 666 Type 1-B (for 4, 5, 6, small and large 7-prong and 8-prong octal base tubes).....\$14.25
Model 666 Type 3-A Kit for 8-prong octal base tubes... 3.37
Model 666 Type 2 Capacity Unit..... 7.87
Jumper Cables, No. D-71785-6, per pair..... .56
Ground Lead, No. D-71787, each..... .38
Output Meter Lead, No. D-73063, each..... .38
Test Leads, elbow terminals D-70033-4, per pair..... .95

NEW WESTON MODEL 772

A new analyzer with a meter sensitivity of 20,000 ohms per volt. Literature on request.

Price **\$46.50**

**WESTON MODEL 770
Portable or Counter
TUBECHECKER**

Tests all types of present-day receiving tubes. Housed in a beautiful cream and black crackle finished, aluminum case. Visual line voltage check. Will test 6P7 tube without adapters. The Model 770 will take care of all new tubes now announced regardless of filament pin position. A Neon bulb indicates shorts quickly. Instruction cards tell how to use tester for condenser leakage tests. Size 11 1/4 x 9 1/4 x 6 inches. Weight 8 lbs. No. 770.....\$39.75
No. 770C—Carrying case..... 4.50



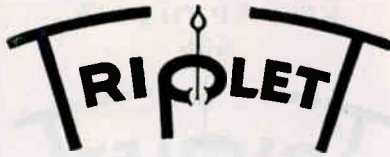
WESTON MODEL 771 CHECKMASTER

The CHECKMASTER combines the best features of a modern tube checker with many analyzer characteristics. And its price places it within reach of servicemen who want quality equipment.

It is completely self-contained. It checks all tubes—measures circuit voltages—spots condenser leakage—and makes resistance analysis. No need to haul your complete test equipment . . . leave it in the shop where your partner can carry on with other work. Take the CHECKMASTER . . . quickly locate the trouble.

Model 771—With carrying case.....\$45.00

MODEL 1502
NEW "POWER OUTPUT"
TUBE TESTER WITH NEON
SHORT TEST



TESTING EQUIPMENT
 The Standard of Comparison
 Recommended as Standard Service
 Equipment by Leading Radio Set
 Manufacturers and Outstanding
 Engineers

MODEL 1503
NEW "POWER OUTPUT"
ALL-PURPOSE TUBE
TESTER WITH NEON
SHORT TEST



"1937's BEST TUBE SALESMAN"
 The Most Accurate Tester Made

- Tests all tubes, metal or glass.
- Power output method.
- Hot tube neon short test.
- Correct voltage to tube elements.
- A.C. rectifier tests.
- Separate diode tests.

Furnished in very attractive heavy wood case with sloping panels for portable or counter use. 15 3/4 x 11 1/4 x 7 1/2 ins.

MODEL 1502.

NET PRICE.....
 Shipping wt. 26 lbs.

\$36.67

"ACKNOWLEDGED AS THE INDUSTRY'S FINEST"
 The Lowest Priced All-Purpose Tester

- Combines features of Model 1502.
- Electrolytic and paper condenser tests.
- D.C. voltmeter (10-50-250-500-1,000 volts).
- Milliammeter (10 - 50 - 250 mills).
- Ohmmeter (1,000-10,000-100,000-1 megohms).
- A.C. volts (10-50-250-500-1,000) and decibels down 10, up 15.

Furnished in very attractive heavy wood case with sloping panels for portable or counter use. 15 3/4 x 11 1/4 x 7 1/2 ins.

MODEL 1503.

NET PRICE.....
 Shipping wt. 26 lbs.

\$46.67

MODEL 1310 EMISSION TYPE

AN IMPROVED EMISSION TYPE TESTER
 Equal to any emission type tester on the market.

- Tests all metal, "MG," "G" glass tubes.
- Direct reading, GOOD or BAD.
- Direct reading short tests.
- Separate diode tests.



Shipping wt. 18 lbs.

DIRECT READING TUBE TESTER

Furnished in a beautiful modern wood case with sloping panel, and metal tube reading charts. Case measures 11x8 1/2 x 8 inches with removable cover for either portable or counter use.

MODEL 1310.

NET PRICE.....

\$24.67

NOW! TRIPLETT DIRECT READING
CONDENSER TESTER

MODEL
1240



NET
PRICE
\$24.83

- Paper or electrolytic condenser, worth shown on "good-bad" scale.
- Reads capacity directly on meter.
- Tests for intermittent shorts or opens.
- Indicates high resistance leakages.
- Tests condenser for break down.
- Break down voltages available to 1,000 volts, A.C. or D.C.
- Accuracy maintained by shadow type indicator.
- Meter protected by series resistors.

Sturdy metal case, finished in black wrinkle, measuring 7 1/2 x 6 1/2 x 4 1/2 ins. All test leads and clips included. Shipping weight, 10 lbs.

NEW! TRIPLETT "SELF-CALIBRATING"
VACUUM TUBE VOLTMETER

MODEL
1250



NET
PRICE
\$33.34

- Bridge type circuit makes accuracy independent of tube life.
- Low signal and A.C. voltages read without current drain.
- Exact voltage read on linear meter scale.
- Sensitive galvanometer for bridge balance.
- Measures R.F. voltage, audio voltage, filter ripple, diode voltages, grid bias voltages and many others.
- Measures signal gain per stage.
- Measures dielectric leakages to several thousand megohms.
- A.C. and D.C. voltage ranges 2.5, 10, 50 volts.

Same physical size and general appearance as Model 1240. Panels silver and black. Shipping weight, 13 lbs.

DEDUCT 2% FOR CASH WITH ORDER

**NEW
NO. 1200A MASTER
UNIVERSAL
A.C.—D.C.
VOLT-OHM-MILLI-
AMMETER
with the
ANGLE-TILT METERS**



A precision instrument having more features than any other at near its price.

- ◆ Exclusive Triplett tilting instrument.
- ◆ Newly developed shunts limit switch contact current to less than 1 ma.
- ◆ Separate A.C. and D.C. movements (no rectifier).
- ◆ Accuracy guaranteed within 2% A.C. or D.C.
- ◆ Individual zero adjustments for each ohmmeter scale.
- ◆ All D.C. volts readings at 1000 ohms per volt.
- ◆ Self contained batteries (included in price)
- ◆ Most rugged meter movements made.

Model 1200A—Net price.....\$21.67
Model 1200B—Rectifier type (1000 ohms per volt)..... 26.67

**NEW
NO. 1232 MASTER
FREQUENCY STABILIZED,
ALL-WAVE, CONTINUOUSLY
VARIABLE SIGNAL
GENERATOR**



Designed for the hardest use and service. Rugged construction assuring accuracy and performance indefinitely.

- ◆ Large 12 inch direct reading dial.
- ◆ 6 individually calibrated and shielded coils.
- ◆ Fundamental output for all frequencies.
- ◆ Perfect attenuation with low loss switching.
- ◆ 400 cycle audio note from panel jacks.
- ◆ Operates from 110 Volt 60 Cycle supply.

Model 1232—Net price\$25.00
Model 1231—Bat. operated. Net price..... 23.33

**Buy Today for Tomorrow
KEEP UP TO DATE
with**



**MASTER TEST UNITS
The Modern Line of Test
Equipment**

**MASTER UNIT COMPLETE
SERVICE LABORATORY**



Model 1206 Master Unit Test Set is a complete Portable Laboratory for the radio servicing engineer. It includes all units required by the professional serviceman, doing the most expert work. It contains four Master Units in 1204 Portable Case.

- Models 1200 Volt-Ohm-Milliammeter.
1210-A Tube Tester.
1220-A Free Point Tester.
1232 Direct-Reading All-Wave Signal Generator.

Model 1207—Net price.....\$82.67

*Illustrating
ANGLE TILT
FEATURE
OF TRIPLETT
1200 UNIT*



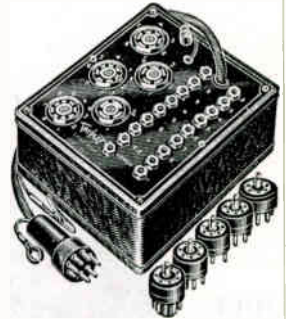
**NEW
NO. 1210A MASTER
METAL AND GLASS
TUBES
TUBE TESTER
Large
Direct-Reading Meter**



Handy portable instrument with English reading scale. Check these features:

- ◆ Tests all types of tubes, metal and glass.
 - ◆ Actual load conditions during test.
 - ◆ Colored "Good-bad" scale.
 - ◆ Large size D.C. meter.
 - ◆ Short tests and cathode leakage test.
 - ◆ Separate diode and rectifier test.
- Model 1210A—Net price.....\$20.00

**NEW
NO. 1220A MASTER
FREE-POINT
ANALYZER
For Use with
NO. 1200 MASTER UNIT**



Used with Model 1200A universal meter for servicing sets using metal or glass tubes. Makes all series and parallel connections through five sockets with standard R. M. A. markings.
Model 1220A—Net price.....\$10.00

**MASTER UNIT
PORTABLE CASES**

Strongly made with black grained leatherette covering. Individual compartments are lined with soft, green felt.

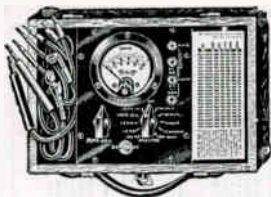
No. 1201—Single Unit Case\$4.00
No. 1202—Two Unit Case 4.67
No. 1203—Three Unit Case 5.33
No. 1204—Four Unit Case 6.00



NEW MODELS

—Dependable—

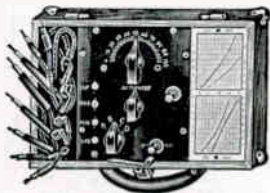
MODEL 1125 UNIVERSAL VOLT-OHM-MILLIAMETER



Has 16 different scale readings, all A.C.-D.C. volts at 1,000 ohms per volt
 ◆ 0-15, 150, 750 volts A.C. or D.C.
 ◆ 0-1.5, 15, 150 mills D.C.
 ◆ 0-15, 150 mills A.C.
 ◆ 0-1500, 1.5, 3 megohms.

In attractive oak case, batteries included.
Model 1125.
 Net price..... **\$20.00**

MODEL 1151 ALL-WAVE OSCILLATOR

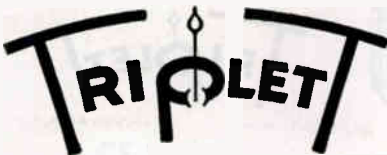


Frequency range 110 kilocycles to 18 megacycles. Completely shielded. Output either modulated or unmodulated. Tubes and batteries included.

Model 1151.
 Net price..... **\$23.33**

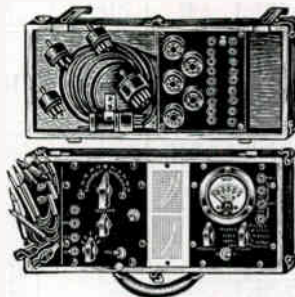
No. 1180—Combines Models 1125 and 1151 in a 1181A case.

Model 1180.
 Net price..... **\$30.00**



SENSATIONAL VALUE QUALITY TESTING EQUIPMENT

TRIPLET NO. 1181A COMPLETE TESTING LABORATORY



Free point tests. A.C.-D.C. volts, ohms, milliammeter. All-wave oscillator. Output meter. Tests all tubes.

No. 1181A is the most complete of the 1100 series Triplet Testers. Combines the following instruments described below into one unit: No. 1151 All-Wave Oscillator; No. 1125 Universal Volt, Ohm, Milliammeter, and No. 1166A Free-Point Auxiliary Set Tester. Read specifications of these instruments. In the No. 1181A they are all combined into unit—cased in a sturdy oak carrying case 16 1/2 x 7 1/2 x 4 1/2 inches.

Model 1181A.
 Net price..... **\$38.00**

MORE FEATURES

—Accurate—

MODEL 666

Pocket Size

Universal

Volt, Ohm, Milliammeter

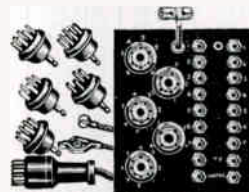
Model 666



Net Price \$15.00

- ◆ D.C. range 10-50-250-500-1,000 volts at 1,000 ohms per volt.
- ◆ D.C. mills 1-10-50-250.
- ◆ A.C. range 10-50-250-500-1,000 volts at 1,000 ohms per volt.
- ◆ Ohms 1/2 to 300 to 250,000.
- ◆ Provision for higher ranges by use of external batteries.
- ◆ Separate zero adjusters.

MODEL 1166A FREE-POINT SET-TESTER



Brings all set socket connections to each of the various tube elements, through the attached cable and plug.

Simplified chart supplied for each type of tube. Also, five plug adapters. Furnished in same case as Model 1125.

No. 1166A—Less case..... **\$10.00**

No. 1167A—Combines Models 1125 and 1166A in 1181A case.

Model 1167A.
 Net price..... **\$25.00**

NEW NO. 1260 MASTER AUDIO OSCILLATOR

Generates Pure Sine Wave without Distortion or Harmonics

Model 1260



Shipping weight, 15 lbs.

NET PRICE \$28.34

- ◆ Frequency range 100-250-500-1,000-2,000-3,000-4,000-5,000-7,500-10,000 cycles.
- ◆ Variable impedance matching.
- ◆ Accurate attenuation.
- ◆ Operates on 110 volts 60 cycle supply.
- ◆ Tubes and test leads furnished.
- ◆ Suitable for testing range of deafness.

NEW NO. 521 VOLT-OHM-MILLIAMETER FOUNDATION INSTRUMENT

Model 521

5-inch Meter



NET PRICE

\$7.00

Ideal for Test Bench or Portable Use

SHUNTS, RESISTORS AND ACCESSORIES

- | | |
|--|-----------|
| | Net Price |
| No. 10—Mounted wire wound resistors, 10-50-250-500 volts | \$5.88 |
| No. 11—Mounted shunts, 10-50-250 milliammeters..... | 3.33 |
| No. 12—Current limiting resistor for 100,000 ohms..... | .67 |
| No. 13—Zero adjuster and knob for 100,000 ohms..... | .67 |
| No. 14—Unmounted resistor for 1,000 volts..... | 2.34 |
| No. 15—Shunt, limiting resistor, zero adjuster and knob for 500 ohms (15 ohms at center of scale)..... | 1.75 |
| No. 16—A.C. adapter for output measurement..... | 3.50 |
| No. 18—Double deck selector switch and knob..... | 1.67 |

Wiring diagram furnished with meter.

DEDUCT 2% FOR CASH WITH ORDER



Model 321—D.C.
Model 331—A.C.
Model 341—R.F.
Size: 3 1/4 in. flush.
Scale: 2 1/2 in. long.



Model 421—D.C.
Model 431—A.C.
Model 441—R.F.



Accuracy 2%



Model 221—D.C.
Model 231—A.C.
Model 241—R.F.
Size: 2 1/2 in. flush.
Scale: 1 1/2 in. long.

D'Arsonval type with an extra light moving coil and reinforced strong parts. Special quality chrome steel magnets. Sapphire jewel bearings. White enameled dials. Well damped—can be "keyed." Bakelite cases. Fully guaranteed. The fastest selling line of meters on the market.

D. C. MILLIAMMETERS

D. C. M. A.	Part No. Model 321	Your Cost	Part No. Model 221	Your Cost	Part No. Model 421	Your Cost
0-1	321-1	\$4.67	221-1	\$3.82	421-1	\$6.67
0-1.5	321-1P5	4.67	221-1P5	3.82	.....	.....
0-3	321-3	4.67	221-3	3.82	.....	.....
0-5	321-5	3.82	221-5	3.00	421-5	5.00
0-10	321-10	3.82	221-10	3.00	421-10	5.00
0-15	321-15	3.82	221-15	3.00	.....	.....
0-25	321-25	3.82	221-25	3.00	421-25	5.00
0-50	321-50	3.82	221-50	3.00	421-50	5.00
0-75	321-75	3.82	221-75	3.00	.....	.....
0-100	321-1H	3.82	221-1H	3.00	421-1H	5.00
0-150	321-1H5	3.82	221-1H5	3.00	421-1H5	5.00
0-200	321-2H	3.82	221-2H	3.00	421-2H	5.00
0-250	321-2H5	3.82	221-2H5	3.00	421-2H5	5.00
0-300	321-3H	3.82	221-3H	3.00	421-3H	5.00
0-500	321-5H	3.82	221-5H	3.00	421-5H	5.00
0-750	321-7H5	3.82	221-7H5	3.00	.....	.....
0-1000	321-1G	3.82	221-1G	3.00	.....	.....

D. C. MICROAMMETERS

	Part No. Model 221	Your Cost	Part No. Model 421	Your Cost
0-200	321-A2H	\$8.00	421-A2H	9.33
0-500	321-A5H	6.17	421-A5H	7.17

Model 221 is a flush bakelite case instrument with a flange. Model 223 is a 2-5/16-inch clamp-on type and can be had at same price as Model 221.

D. C. VOLTMETERS
125 Ohms Per Volt

D. C. Volts	Part No. Model 321	Your Cost	Part No. Model 221	Your Cost	Part No. Model 421	Your Cost
0-5	321V5	\$3.82	221V5	\$3.00	421V5	\$5.00
0-10	321V10	3.82	221V10	3.00	421V10	5.00
0-25	321V25	3.82	221V25	3.00	.....	.....
0-50	321V50	3.82	221V50	3.00	421V50	5.00
0-100	321V1H	3.82	221V1H	3.00	421V1H	5.00
0-150	321V1H5	3.82	221V1H5	3.00	421V1H5	5.00
0-200	321V2H	4.67	221V2H	3.82	.....	.....
0-300	321V3H	5.50	221V3H	4.33	421V3H	6.50
0-500	321V5H	6.17	221V5H	5.17	.....	.....
0-750	321V7H5	7.33	221V7H5	6.17	.....	.....
0-1000	321V1G	9.50	221V1G	8.50	.....	.....
0-2000	321V2G	11.67	221V2G	10.67	.....	.....

D. C. VOLTMETERS
1000 Ohms Per Volt

D. C. Volts	Part No. Model 321	Your Cost	Part No. Model 221	Your Cost	Part No. Model 421	Your Cost
0-5	321Z5	\$5.50	221Z5	\$4.33	421Z5	\$6.50
0-10	321Z10	5.50	221Z10	4.33	421Z10	6.50
0-25	321Z25	5.50	221Z25	4.33	.....	.....
0-50	321Z50	5.50	221Z50	4.33	421Z50	6.50
0-100	321Z1H	5.83	221Z1H	5.17	421Z1H	6.50
0-300	321Z3H	6.67	221Z3H	5.83	421Z3H	7.67
0-500	321Z5H	7.33	221Z5H	6.67	.....	.....
0-750	321Z7H5	9.17	221Z7H5	8.00	421Z7H5	10.67
0-1000	321Z1G	10.67	221Z1G	9.50	421Z1G	12.33
0-2000	321Z2G	16.50	221Z2G	15.33	.....	.....

D. C. AMMETERS

D. C. Amps.	Part No. Model 321	Your Cost	Part No. Model 221	Your Cost
0-3	321R3	\$3.82	221R3	\$3.00
0-5	321R5	3.82	221R5	3.00
0-10	321R10	3.82	221R10	3.00
0-25	321R25	3.82	221R25	3.00
50-5	321R55	3.82	221R55	3.00
10-0-10	321R101	3.82	221R101	3.00
20-0-20	321R202	3.82	221R202	3.00

A. C. VOLTMETERS

A. C. Volts	Part No. Model 331	Your Cost	Part No. Model 231	Your Cost	Part No. Model 431	Your Cost
0-3	331-3	\$3.82	231-3	\$3.00	.....	.....
0-5	331-5	3.82	231-5	3.00	431-5	\$5.00
0-10	331-10	3.82	231-10	3.00	431-10	5.00
0-15	331-15	3.82	231-15	3.00	431-15	5.00
0-25	331-25	3.82	231-25	3.00	431-25	5.00
0-50	331-50	3.82	231-50	3.00	431-50	5.00
0-100	331-1H	3.82	231-1H	3.00	.....	.....
0-150	331-1H5	4.67	231-1H5	3.82	431-1H5	6.00
0-300	331-3H	5.50	231-3H	4.83	431-3H	6.50
0-500	331-5H	7.33	231-5H	6.67	.....	.....
0-15-150	331-155	6.17	.....	.....	.....	.....
0-150-750	331-157	10.00	.....	.....	.....	.....

THERMOCOUPLE AMMETERS
(High Frequency)

Accuracy 2%

Have external couples which will withstand 50% overload. Connected to meter with 2-ft. leads.

Range R. F. Amps.	Part No. Model 241	Your Cost	Part No. Model 341	Your Cost	Part No. Model 441	Your Cost
0-1	241-1	\$9.67	341-1	\$10.67	441-1	\$14.00
0-1.5	241-15	9.67	341-15	10.67	441-15	14.00
0-2.5	241-25	9.67	341-25	10.67	441-25	14.00
0-5	241-5	9.67	341-5	10.67	441-5	14.00

VOLT-OHM-MILLIAMMETERS

These instruments are 0-1 D.C. Mil. Meters with 100 ohms internal resistance—with knife-edge pointers. Require 1.5 volts. No. 321A—Scale reads 30-300-600 volts, 30-300 mils., 100,000 ohms.....\$5.00

- No. 321B—Scale reads 10-50-250-500 volts and mils. and 100-000 ohms.....\$5.00
- No. 521C—(large 4 1/2 in. meter). Scale reads 10-50-250-500 volts and mils. and 100,000 ohms.....\$7.00
- No. T30—Res. on bak. strip for 30-300-600 volts..... 4.92
- No. T31—Shunts on bak. strip for 30-300 mils..... 1.33
- No. T64—Current limiting res. for 100,000 ohms..... .67
- No. T10—Res. on bak. strip for 10-50-250-500 volts..... 5.00
- No. T11—Shunts on bak. strip for 10-50-250-500 mils..... 1.84
- No. T12—Current limiting res. for 100,000 ohms..... .67

RESISTANCE INSTRUMENTS

3 in. Case

2 in. Case

Part No.	Range		Your Cost	Part No.	Range		Your Cost
	Volts	Ohms			Volts	Ohms	
T-315	0-1.5	0-1,000	\$4.67	TS-215	0 to 1.5	0-50,000	\$4.67
T-3150	0-1.5	0-100,000	5.50	TR-R Resistor for 0-1M.A.	to make Voltmeter		
T-45	0-4.5	0-50,000	5.50	0-15-60-300-600.....			\$5.83
T-450	0-4.5	0-150,000	5.50				



THE TRIPLET OUTPUT METER

No. TOM—Four ranges: 0-2.5, 5, 10, 50 volts. Copper oxide rectifier type. Contains condenser for blocking D.C. component test leads with clips and break-in adapter furnished. With tip jacks or binding posts....\$11.17

TRIPLET-S METERS

When used on receiving sets, measure R.F. broadcast signal strength. Scale reads S-5. Knife-edge pointers.

- No. 321-S13—1/3 M.A. sensitivity.....\$5.00
- No. 221-S13—1/3 M.A. sensitivity..... 4.17
- No. 321-S6—5/1000 M.A. sensitivity..... 4.17
- No. 221-S6—5/1000 M.A. sensitivity..... 3.33

UNIVERSAL A.C.-D.C. METER
Copper Oxide Type

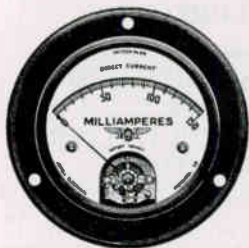
D.C.—2% accuracy. A.C. scale in red.
A.C.—5% accuracy. D.C. scale in black.

Reads 0-1500, 0-1.5 megs. in ohms; 0-15-150-750 volts A.C. or D.C. at 1,000 ohms per volt. D.C. mil. readings are 0-15-150 M.A. Use with double pole double throw switch.

No. TUM321—(0-4 M.A.) with copper oxide unit and switch, complete....\$10.00
No. T1127—Kit consisting of mounted resistors and shunts for all above readings, selector switch, rheostat, jacks, panels, bar knobs, batteries (22.5 and 1.5 volts). Complete, less meter.....\$13.33



WESTON METERS READRITE
TRIPLITT HOYT



WESTON

We carry a complete stock of Weston Meters. We are listing only the most popular types. If you want any other Weston Meters, just write in. Our prices are as low as any distributor and we can get it to you quicker.

DC MILLIAMMETERS—MODEL 301

Range	Price	Range	Price
1	\$7.50	100	\$6.75
5	6.75	150	6.75
10	6.75	200	6.75
30	6.75	300	6.75
50	6.75	500	6.75

THERMOCOUPLE AMMETERS

Weston Model 425

0 to 1, 0 to 1.5, 0 to 2, 0 to 3, 0 to 5, and 0 to 10\$12.00

POWER LEVEL INDICATORS

Power Level Indicators are used to measure sound or noise levels in amplifiers for Public Address, Theaters, Broadcasting Station Equipment, etc. The Decibel Meter permits the operator to make instant adjustments to prevent sound blasting or distortion. Standard range furnished reads up 6 and down 10 decibels, zero decibel at 1.73 volts, 500 ohm lines, 6 milliwatts. Standard damping.



Decibel Meter

No. 321DB—Up 6 down 10 Decibel Meter. Price.....\$12.00
No. 221DB—Up 6 down 10 Decibel Meter. Price..... 11.00

DECIBEL METER KITS

To increase range of Power Level Indicators. Readings advance in steps of 4 decibels with constant impedance of 5,000 ohms—up to 22 decibels. Above 22 decibels the impedance is approximately 1,300 ohms resistance per volt. Triplett Decibel Meter Kits are supplied for either constant or non-constant impedance. 500-ohm input line. Using a Decibel Meter Kit facilitates immediate adjustments and the elimination of distortion.

Model 150 Decibel Meter Kit—(Non-constant Impedance)—includes: Triplett Model 321 Decibel Meter, Selector Switch, 9 Wire-wound Multipliers on Molded Mounting Board, Hook-up Wire, Diagrams and Instructions.

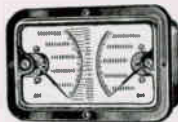
Model 150 Decibel Meter Kit, complete. Price.....\$20.00

Model 200 Decibel Meter Kit—Constant Impedance (includes same parts as Model 150 Kit, except it has Model 321 Constant Impedance Meter).

Model 200 Kit Meter has four studs allowing movement to be shunted without altering impedance over 50 ohms.

Model 200 Decibel Meter Kit, complete. Price.....\$21.85

TWIN INSTRUMENTS AND KIT



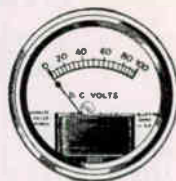
The Twin can be furnished in any combination of A. C. or D. C. instruments. The No. 1200 meter has the following scale readings: D. C., 10, 50, 250, 500, 1,000 volts at 2,000 ohms per volt; 1, 10, 50, 250 mls; 1,500 ohms, 1.5 and 3 megohms. A. C., 10, 50, 250, 500, 1,000 volts. Simultaneous readings on both instruments when connected in same or separate circuits. Used to balance

loads in 3-wire circuits, detect line fluctuations when load readings are taken, measure antenna and modulation current and similar applications.

No. 120—Twin Instrument.....	\$10.33
No. 1200—Kit, complete.....	16.67
No. 121—Special Selector Switch.....	1.67
No. 122—Shunt Board for 1, 10, 50, 250 M. A. readings; 1,500 ohms, 1.5 and 3 megohms; also series resistor for 1,500-ohm range.....	2.33
No. 123—Resistor Board for 10, 50, 250, 500, 1,000 D. C. volts and 50, 250, 500, 1,000 A. C. volts and current limiting resistors for 1.5 and 3 megohms.....	4.83

Ask us for the new complete Triplett Catalog

DEDUCT 2% FOR CASH WITH ORDER



We Carry a Very Complete Stock of All Types of Readrite Meters

DC MILLIAMMETERS

No. 305—0 to 5...\$1.85	No. 391—0 to 150...\$0.60
No. 311—0 to 10... 1.20	No. 392—0 to 200... .60
No. 315—0 to 15... .60	No. 399—0 to 300... .60
No. 325—0 to 25... .60	No. 394—0 to 400... .60
No. 350—0 to 50... .60	No. 395—0-20-100... 1.20
No. 390—0 to 100... .60	No. 402—0-15-150... 1.20



No. 65A—Flange to use with Readrite Meters\$0.09

All Readrite DC Meters can be had with zero adjustment for \$0.15 extra.

DC VOLTMETERS

From 0 to 1 to	
0 to 50.....\$0.60	0 to 300.....\$1.95
0 to 100..... .90	0 to 500..... 2.70
0 to 150..... 1.05	0 to 750..... 3.80

AC VOLTMETERS

0 to 4.....\$1.65	0 to 300.....\$3.30
0 to 6..... 1.85	0 to 600..... 3.90
0 to 10..... 1.65	0 to 750..... 4.60
0 to 15..... 1.65	0-10-140..... 2.70
0 to 150..... 2.70	0-150 Plug-in Type. 1.95

DC POCKET METERS

0 to 40 amps.\$0.60 0 to 50 volts...\$0.60
Comb. 0 to 50 volts and 0 to 40 amps.90

Readrite TUNING METERS



TM-108



TM-102



TM-103

Furnished in 0-5, 0-7, 0-10 and 0-15 M.A. Tuning Meters. Any style.....\$0.90
Escutcheons18

HOYT HOT-WIRE AMMETERS

For R. F. measurements, 3/4 in. diameter over-all, fits in 2 1/4-inch hole. Bakelite case. Has zero adjustment.

No. HM15. Price.....	\$3.55
No. HM3. Price.....	3.55
No. HM5. Price.....	3.55



CONTINENTAL METER MODERNIZER RESISTOR KIT AND SCALE

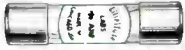


Use your own milliammeter—any 1 M. A. meter such as Weston 301, Jewell 54 or 88. Kit contains Continental Printed Paper Scales, a length of resistance wire to build up internal resistance of the meter to 50 ohms, and 9 Continental Carborite 5% Resistors with which to secure the following ranges at 1,000 ohms per volt: 500, 250, 100, 50, 25, 10, 5 volts; two ohm scales 0 to 1,000 and 0 to 1 meg. Complete instructions are included with each kit.

No. CVO Kit.....\$3.16

Meter Shunts, Fuses, Rectifiers

LITTELFUSES



Rating Amps.	Max. Load M.A.	M.A. Movements	Net Price
1/100	10	Up to 0-1	\$0.12
1/32	25	0-1 to 0-10	.12
1/16	60	0-10 to 0-25	.12
1/8	100	0-25 to 0-75	.09
1/4	200	0-75 to 0-150	.09
3/8	300	0-150 to 0-250	.09
1/2	400	0-250 to 0-350	.09
3/4	600	0-350 to 0-500	.09
1	1000	0-500 to 0-750	.06
1 1/2	1500	0-750 to 0-1000	.06
2	2000	0-1000 to 0-1500	.06

LITTELFUSE MOUNTINGS

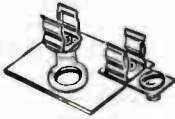


No. 1010 — For Littelfuses. 1 in. x .250 in. Each \$0.09

METER-BACK MOUNTING

No. 1059 . . . \$0.09

For Littelfuses

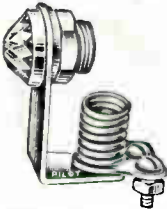


RADIO-GRYP CONNECTOR

No. 1039—Permits fuse to hang directly in the "line." Pair \$0.06

See 3AG and 1AG fuses on page 38

PILOT LITE BRACKET



With jewelled indicator—red or green.

310R—Red 18c
310G—Green 18c

Red or green jewelled indicator only9c

CLIP-ON PILOT LITE SOCKET

For standard radio pilot lites. Each \$0.05



METER RECTIFIERS



Converts a DC milliammeter into an AC voltmeter. Fully guaranteed. Life is indefinite when its rating of 20 M.A. is not exceeded. Full instructions and circuits are sent with each unit.

No. CRS-M—Full wave . . . \$2.10
No. CRS-B—Half wave . . . 2.10



DEPENDABLE SHUNTS—MULTIPLIERS

Resistance Value Price
All values up to 75000 ohms. Each \$0.48
Values from 80000 ohms to 200000 ohms. Each66
Values from 225000 ohms to 500000 ohms. Each99
Values from 600000 ohms to 1 meg. Each 1.85
Shunts for meters having resistance of 27-30 or 50 ohms (specify S27, S30 or S50). For 5, 10, 25, 50, 100, 250, 500, 1000 M.A. Each shunt \$0.75

ELECTRAD PRECISION WIRE-WOUND RESISTORS

1% Accuracy
Size 1x9/16 inches. Rating—1 1/2 Watts.
Type 6P

Resistance in Ohms	Max. Potential in Volts	Maximum Current in Milliamperes	Price
1	1.2	1,225	\$0.51
5	2.7	548	.51
10	3.8	387	.51
25	6.1	245	.51
50	8.6	173	.51
100	12	122	.51
150	15	100	.51
200	17	86	.51
500	27	55	.51
1,000	38	38	.54
2,500	61	24	.54
4,500	82	18	.60
5,000	86	17	.60
7,500	106	14	.60
10,000	122	12	.60
12,500	137	11	.66
15,000	150	10	.66
20,000	173	8.6	.81
25,000	194	7.7	.81
30,000	212	7	.81
35,000	229	6.5	.81
40,000	245	6.1	.81
50,000	274	5.5	.81
60,000	300	5	.96
75,000	336	4.4	.96
100,000	387	3.8	1.10
125,000	433	3.4	1.25
150,000	475	3.1	1.40
175,000	510	2.9	1.40
200,000	548	2.7	1.40
225,000	580	2.5	1.55
250,000	610	2.4	1.55
300,000	670	2.2	1.70
400,000	750	2.2	1.80
500,000	750	1.5	2.05
750,000	750	1.0	2.70
1,000,000	750	.7	3.15

FERRULE TERMINALS

Can be placed on ends of Electrad 6P resistors. Per pair \$0.15

MUELLER ALLIGATOR CLIP



No. 85—Clip \$0.07
No. 87—Insulator05

SEMI-PRECISION



RANGE MULTIPLIER RESISTORS

Popular sizes of resistors for use as meter range multipliers, 1-watt, semi-precision. The * marks resistors which allow for the 50-ohm internal resistance of the meter. When used with 0.5 mill. meters, divide volt range by 2.

Ohms	Volts	Ohms	Volts
1,450	* 1.5	50,000	50
2,950	* 3	60,000	60
3,500	* 3.5	75,000	75
4,450	* 4.5	85,000	85
4,950	* 5	90,000	90
5,000	5	100,000	100
5,500	* 5.5	150,000	150
5,950	* 6	200,000	200
7,450	* 7.5	250,000	250
8,500	* 8.5	300,000	300
8,950	* 9	450,000	450
9,950	* 10	500,000	500
10,000	10	600,000	600
13,500	13.5	750,000	750
15,000	15	800,000	800
25,000	25	900,000	900
30,000	30	1,000,000	1,000

Type CPR—Semi-Precision, 1-watt size. Each \$0.18

ACORN PENTODE V. T. VOLTMETER KIT



Contains all materials required to build new Vacuum Tube Voltmeter Kit using new Type 954 Acorn pentode tube. Can be assembled in one hour. The Ideal meter for service-men, experimenters, etc. Small size permit tube itself to be placed at point of measurement, thus avoiding long leads and high input capacitances. Supplied complete down to last detail, except microammeter. Materials to assemble the flexible Acorn tube probe described above are also supplied. Complete instruction. Less tube and microammeter. No. 11036 \$6.00

NEW! GRAFOLINE "A Radio Contact Lubricant"

Eliminates noise on controls and contacts. Protects from dirt and dust.

"It Cleans As It Lubricates"

Net price \$0.21



G-C FINE OIL

"For the Shop, Office and Home"



This is a high quality fine oil that is specially suitable for radio work in lubricating dials, condensers, controls, etc. It also makes an excellent household oil, and can be used for electric motors, sewing machines, door hinges and a thousand other uses. 4-oz. can. Net price . . . \$0.18

NON-SLIP COMPOUND FOR RADIO DIALS

This compound is specially made for aiding in repair of slipping friction, and cable or cord driven dials. It is easy to use, as it comes in powder form and should be applied freely to slipping parts.

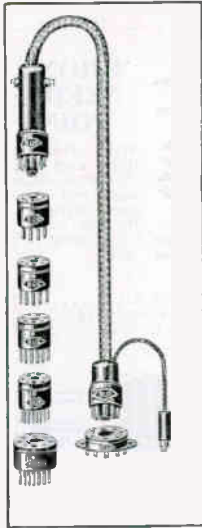
Net price \$0.18



84 DEDUCT 2% FOR CASH WITH ORDER

TEST ADAPTERS—NEUTRALIZING TOOLS

NEW 9-WIRE OCTAL LOCKING TYPE ANALYZER PLUG



Complete Analyzer Plug, Cable, Cable Plug, Socket and Adapters

Twist locking analyzer plug with 5 ft. 9-wire cable and wired in dual grid stud. Cable fitted with 9-prong finger grip type cable plug. An 8 octal socket is included for mounting on analyzer panel. Five associated adapters for testing both the new all-metal tubes and regular glass bulb tubes included.
 No. B498—Complete kit.....\$6.00
 No. B491—Locking type octal analyzer plug, only.....\$1.05

Associate Adapters

- No. B492—8 to 4-prong associate locking adapter.....\$0.60
- No. B493—8 to 5-prong associate locking adapter......60
- No. B494—8 to 6-prong associate locking adapter......60
- No. B496—8 to 7-prong large associate locking adapter......60
- No. B495—8 to 7-prong small associate locking adapter......60

INDIVIDUAL ADAPTERS FOR TESTING ALL METAL TUBES IN EXISTING TESTERS

FOR TESTING 6H6 IN 36 SOCKET

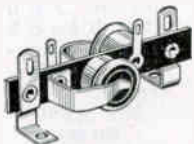
Octal top, 5-prong base. A specially designed resistance network supplies the diode plates with proper value of diode test voltage and current. A switch on the adapter provides for checking each section.

- No. B486.....\$1.20
- No. 411—Tests 5Z4, 5Y3, and 5W4 in 80 socket. Each......60
- No. 412—Tests 6C5 and 6D5 in 41 socket; 6L6, 6F6 in 42 socket; 25A6 in 43 socket; 6B6, 6Q7 in 75 socket; 6J7 in 77 socket; 6K7, 6A8, 6L7 in 78 socket; and 6R7 in 85 socket. Each......60
- No. 413—Tests 6N7 in 6A6 socket. Each......60
- No. 415—Tests 6A8, 6C5, 6D5, 6F6, 6J7, 6L7 in 36 socket; and 6N7 in 37 socket. Each......75
- No. 422—Tests 6F5 in 75 socket. Each......60
- No. 418—Tests 6C5 in 37 socket and 6X5 in 84 socket. Each.. .60
- No. 1271—Tests 25Z6 in 25Z5 socket. Each......60



SEXTET ADAPTER KIT

No. 414—Sextet Adapter Kit provides six adapters and grid clip adapter to test all present metal tubes in your regular tube tester. Each.....\$3.00



MALLORY GRID BIAS CELLS



Excellent for use in amplifiers, R.F. circuits, A.V.C. circuits, etc. where a potential is required to eliminate grid current or where this potential is difficult to obtain.

The cell produces 1 volt (+ 10%) but must not be loaded with a resistor or electrolytic condenser or other current drawing load. Do not attempt to test the potential.
 Bias cell only. Net.....\$0.18

HOLDERS FOR ABOVE

- Single cell holder.....Net \$.06
- Holder for 2 cells......12
- Holder for 3 cells......15
- Holder for 4 cells......21

DEDUCT 2% FOR CASH WITH ORDER

NEUTRALIZING TOOLS



No. 118
 4-in-1 Neutralizing Tool. Very durable.....\$0.45



Balancing and Neutralizing Magnetics and other sets. Handy attachment No. 281.....\$0.27



No. 119-M—For Majestics \$0.12



No. 119-C—For Crosleys..\$0.12



No. 996 — 4-in-1 Neutralizing Tool with metal ends.....\$0.80

“NINE LIVES” NEUTRALIZING WRENCH



A “hot” new number. Entire length of inside of tube is broached. If the end breaks, just saw off the end and you have a new tool.
 No. B254—5½ inches long.....\$0.12
 No. B255—8 inches long......15

DE LUXE ADJUSTABLE NEUTRALIZING TOOL



No metal parts. Screw driver slides into one end of handle. Other end in hex. broached. Made of hard rolled fibre.
 No. B236—Adjustable 7 to 10-in...\$0.36
 No. B237—Adjustable 11 to 17-in... .48

MUELLER “SNAPPER” “TRIPLE THREAT” TEST CLIPS



Jaws are opened by press of thumb on the end. An extremely handy tool to have around.
 No. M33R—Red—M33B. Each.....\$0.50
 Per pair......95



4-IN-1 NEUT. TOOL

Made of Phenolic in mottled two-color. Look like fountain pens.
 No. 11027—Value plus.....\$0.29

ALADDIN RESONATOR



Determines instantly whether any tuning inductance is high or low by simply placing it in the magnetic field of the inductance. Flexible construction.
 No. AR-1.....\$0.60

OFF-SET SCREW DRIVERS



Another necessary tool for servicemen. Made of hardened, high carbon steel, cadmium plated.
 No. B1116—2¼ inches long.....\$0.09
 No. B1117—4¼ inches long......12

TEST BENCH ACCESSORIES

INSULATED PLUG-IN PRONG



Solderless connection. Real contact. No. 131.....\$0.07

INSULATED PLUG-IN PRONG JACK

with shoulder washer and terminal lug. No. 136.....\$0.06



LONG TEST-PROD HANDLE



Solderless, insulated. Needle point. No. 145—5½ ins. long..... \$0.15

PLUG-IN PRONG TEST PROD



4-inch handle; solderless connection. No. 134\$0.15

PLUG-IN TEST PROD



2½-inch handle; solderless connection. No. 135\$0.12

INSULATED PLUG CONNECTOR



1½ inches long; very handy for extending leads, etc. No. 144.....\$0.00

INSULATED TAPERED PLUG



No. 133... \$0.08

INSULATED PLUG-TYPE ALLIGATOR CLIPS



Banana type plugs fit into end. No. 130.....\$0.08

INSULATED SOLDERLESS PHONE-TIP PLUGS

Fit all standard tip-jacks, etc.



Junior—1½ ins. long. No. 142. Each.....\$0.07
Senior—2½ ins. long. No. 141. Each..... .07
Needle Point—1½ ins. long. No. 132. Each..... .06

INSULATED PHONE-TIP JACK



Has strong sure-grip. Head 7/16-inch wide. No. 138—Each\$0.06

BANANA PLUG AND TIP TYPE JACK



Mounts in ¼ in. hole. Insulated. Takes both banana plugs and phone tips. No. 148.....\$0.09

All units listed above can be had in red, black, yellow, green or blue.

PLUG-IN PRONGS

(Banana Plugs) 1½ ins. long. No. 120. Each..\$0.04
Ten for35



PLUG-IN PRONG JACKS

For banana style plug-in prongs. No. 125. Each.....\$0.04
Ten for35

PHONE PIN TIP JACKS

Mount in ¼-in. hole on panels up to ¼-in. thick.



No. 137—Each\$0.04
Ten for35



SOLDERLESS PHONE TIPS JUNIOR

1½ in. long. No. 9. Ea..\$0.03

SOLDERLESS PHONE TIPS SENIOR

1½ in. long. No. 10. Ea..\$0.04

EASY SOLDERING PHONE TIPS

Insert wire and drop solder in hole. Brass, nickel plated. 1 in. long. No. 20—10 for.....\$0.10



INSULATED BINDING POST

Takes banana plug in top and phone tip in side as illustrated. Non-removable top. Available in black, red, green, blue and yellow. No. 143—Each.....\$0.09

DOUBLE GRID CLIP

For either glass or metal tubes. Bakelite encased and fitted with flexible lead. No. 487. Each.....\$0.18



KENNEDY TOOL CHEST

Size 14x6x6 inches. Cantilever action — tray opens when lid is raised. Sturdily built. No. C514....\$1.49

UNION TOOL CHEST

Sturdily built—removable tray. Size 16x7x7 inches. No. U6116\$0.55

TEST KIT



Consists of test prods, plugs, jacks and interchangeable testing parts. All solderless. Perfect connections at all times. Made up of red and black parts for polarity identification.

No. AH100—Value-plus\$0.99

TEST LEADS



PHONO. NEEDLE POINT

With slim handles and flexible wire. Black and red kinkless wire. 54 inches long as illustrated on left.

No. 1379—With alligator clips.....\$0.36
No. 1381—With spade terminals.... .30
No. 1382—With phono. tips..... .30

LONG POINT

Like No. 1379 except they have long pointed prods instead of phono. needle points. 50-inch kinkless red and black wire.



No. 1369—With phono. tips.....\$0.30
No. 1383—With spade lugs..... .30
No. 1370—With alligator clips..... .36

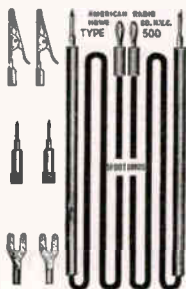


HEAVY DUTY LABORATORY

With extended phono. needle chuck. Extra long and heavy handles. 60-inch heavily insulated kinkless wires. You'll like these.

No. 1388—With alligator clips....\$0.54
No. 1400—With phono. plugs and insulated knurled grip handles.....\$0.60

PENCIL TYPE TEST PRODS



With Interchangeable Tip Ends

6-inch handles ¼ inch diameter. 5 foot heavy duty flexible red and black leads. Complete as illustrated.

No. A500 \$0.80

BAKELITE TIE POINTS



Tinned lugs mounted securely on laminated bakelite strips. Ideal for mounting parts, etc.

No.	No. of Brackets	No. of Lugs	Inches Length	Price
11BT	1	1	1"	\$0.02
21BT	1	2	1"	.03
3BT	3	3	1½"	.04
B3TB	2	4	2½"	.05
B5TB	2	5	2½"	.05
B6TB	2	6	2½"	.06

SOLDERING IRONS—ACCESSORIES—TORCHES

ESICO SOLDERING IRONS

The Best Low-priced Soldering Irons Ever Made



Junior—85 watts, tip 7/16-inch diameter, weight 9 oz., length 12 1/4 in. Quick heating and sturdy.

- No. E17J\$1.65
- No. E17JT—Extra tip......18
- No. E17JE—Element......81

Midget—65 watts, tip 7/16-inch, weight 7 oz., length 11 1/4 in. A nice iron for intermittent work.

- No. E16M.....\$1.05
- No. E16MT—Extra tip......18
- No. E16ME—Element......75

NATIONAL SUPER-INDUSTRIAL "CORROSIVE-PROOF" SOLDERING IRON

"THE FINEST IRON MONEY CAN BUY"

- o ARMORED TIP
- o G. E. UNI-CORD
- o MONEL METAL TIP
- o STAINLESS STEEL

EXCLUSIVE "FREEZE-PROOF" TIP GUARANTEED TO SATISFY —UNDERWRITERS APPROVED—



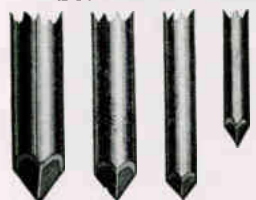
Super-Industrial irons furnish adequate heat for the most exacting of continuous production operations within their range. Because of the corrosion resisting qualities of the Stainless Steel and Monel metal, which is used in their construction, the same high efficiency that characterizes their initial use, is maintained throughout the life of these tools.

Net Price

No. 4—65 watt, 5/16 in. tip.....	\$3.35
No. 6—100 watt, 3/8 in. tip.....	4.00
No. 7—150 watt, 1 in. tip.....	4.65
No. 8—200 watt, 1 1/4 in. tip.....	5.35

The No. 4 iron is ideal for radio production and other very light industrial operations. The No. 6 iron fits in nicely on telephone and switchboard work along with the general run of light industrial requirements. The Nos. 7 and 8 handle the average medium heavy and heavy requirements usually found in the Industrial Plant and Auto Radio Installation.

NATIONAL SUPER-INDUSTRIAL "CORROSIVE-PROOF" SOLDERING IRON TIPS



"THE FINEST TIP MONEY CAN BUY"

Tips fit most standard Brands of Soldering Irons. Absolutely Eliminates a 1 l "Froze" or Stuck Tips

No.	Diameter	Length	Net Price
4	5/16 in.	4 1/4 in.	\$0.80
6	3/8 in.	5 in.	.95
7	1/2 in.	6 in.	1.10
8	3/4 in.	6 in.	1.20

NATIONAL "REGULAR" SOLDERING IRON



Genuine chromel element. Mica insulation, ventilated handle. 110-volt; 55 watt. 2 extra tips...\$0.75

VASCO

The World's Highest Quality Soldering Irons



We have sold hundreds of the Vasco irons and recommend them unreservedly as being the best money can buy. Each iron has the Vasco Radiator Bushing. You'll like the fine balance and appearance and you'll find they really do the work and stand up.

- No. V 75—70 watts, 5/16 in. tip...\$3.00
- No. V100—120 watts, 3/8 in. tip.... 4.50
- No. V150—150 watts, 1/2 or 5/8 in. tip 5.00

ELEMENTS

- No. V 75EA—For V 75.....\$2.00
- No. V100EA—For V100..... 3.10
- No. V150EA—For V150..... 3.30

TIPS

- No. V 75T—For V 75.....\$0.50
- No. V100T—For V100......65
- No. V150T—For V150, 5/8 in......50
- No. V150TL—For V150, 1/2 in......65

"American Beauty"

The Best Soldering Iron for All-Around Usage That Has Ever Been Produced



No. 3138—100 watts, diameter of tip 3/8 in.; over-all length 12 1/2 in. Complete with cord and a new heat insulating stand\$5.80



No. 3158—200 watts.....\$6.90

ELEMENTS

- No. AB9273—For No. 3138.....\$2.95
- No. AB9275—For No. 3158..... 3.70

TIPS

- No. AB3738—For No. 3138.....\$0.40
- No. AB3758—For No. 3158......90

JACKSON SOLDER IRON



No. 145J—100 watts, tip 3/8 in., length 12 1/2 in., weight 16 oz. Adjustable tip. Has heat deflector, keeps handle cool. A real heavy duty iron.....\$2.25
No. 145JT—Extra tip......40
Jackson No. 218 Iron. 100 watts 3/8 in. tip of Plugger type, removable handle. A real value at.....\$1.25

GM WARM IRON CONTROL

Saves money, time, trouble and tips. Will pay for itself in short while. You need one on your bench. A bargain.



No. GM-11.....\$3.70

IRON OVEN



A device that should be on every service bench. Keeps your iron warm or brings it to full heat quickly. No. I1966A...\$0.75

ICA SNAP-ON IRON HOLDER



Fits all sizes and makes of soldering irons. Can be left on constantly. Raises iron about 2 inches off from the work bench. No. I1956.....\$0.21

BUD RENEWAL TIPS



- No. B371—For Am. Beauty 576.....\$0.21
- No. B372—For Am. Beauty 3138......21
- No. B373—For Am. Beauty 3158......54

SIGNAL OB-2 PORTABLE ELECTRIC DRILL



3/4-inch. Length 11 1/4 inches; diameter 4 inches; weight 6 lbs.....\$16.95

ADJUSTABLE PANEL CUTTERS



Designed to cut large holes accurately and quickly. May be used in slow speed drill press or hand brace. May be used for cutting wood, bakelite, sheet metal, etc.

- No. GH5—Jumbo size, heavy duty. Cuts holes 1 to 5 1/2 inches. Square shank...\$1.85
- No. GH2—Cuts holes 1 to 4 inches. round shank.....\$1.10
- No. GH3—Junior, cuts holes 3/4 to 2 1/4 inches\$0.75

STEEL HOLE SAWS

- No. MF19—For cutting holes 1-3/16 in.....\$1.55
 - No. MF22—For cutting holes 1 1/2 in.....\$1.55
 - No. MF34—For cutting holes 2 1/4 in.....\$2.80
 - No. MF46—For cutting holes 2 1/2 in.....\$2.30
- Above prices include holding cup—it is necessary to use No. MF2054 mandrel. Each\$1.10

LENK NO. 17

Gas torch. Has priming cup for quick action. Automatic\$0.80

LENK NO. 225

Automatic alcohol torch. Burns 3 1/2 hours on one filling. Shown on left\$1.50

LENK NO. 125

Heavy duty gas torch. Self-priming—large capacity\$0.81



LENK NO. 105

Hi-heat alcohol torch. Flame control and cut-off valve.....\$1.20

LENK NO. 104

Gas torch. Same features as No. 105..\$1.05



DEDUCT 2% FOR CASH WITH ORDER

SOCKET WRENCHES

BUD INSULATED HANDLE SOCKET WRENCHES



- Bakelite Handle**
5 1/4 in. long
- No. B1086—Hex. size 3/16 in. \$0.18
 - No. B1087—Hex. size 1/4 in.18
 - No. B1088—Hex. size 5/16 in.21
 - No. B1089—Hex. size 11/32 in.21
 - No. B1090—Hex. size 3/8 in.24
 - 7 1/4 in. long
 - No. B1091—Hex. size 3/16 in. \$0.21
 - No. B1092—Hex. size 1/4 in.21
 - No. B1093—Hex. size 5/16 in.24
 - No. B1094—Hex. size 11/32 in.27
 - No. B1095—Hex. size 3/8 in.30

ICA TURN-TITE SOCKET WRENCHES



- No. 16—6-inch, 6 sizes, 3/16 to 1/2 in. Each, \$0.14; set of 6. \$0.78
 - No. 19—9-inch, 6 sizes, 3/16 to 1/2 in. Each, \$0.18; set of 6. \$1.05
- With 90° Offset Shank—7 Inches Over All
- No. 06—6 sizes, 3/16 to 1/2 in. Each, \$0.18; set of 6. \$1.05

FLEXIBLE SHAFT SOCKET WRENCH



- For RCA, Victor, R32, R35 etc. No. 1915.....\$1.20

STEEL-WHITE, NICKEL FINISH SOCKET SET

-
- 7 1/2 inches long. Sizes 1/4, 5/16, 3/8, 7/16 and 1/2 in.
No. SK60—Per set.....\$0.60

AVIATION TYPE SOCKET SET

-
- Has ten sockets with openings from 3/8 to 1/2 in.; reversible ratchet wrench 8 in. long; 8 in. hinged T handle with cross bar 6 in. long and an 8-in. extension bar. This set is of the highest quality chrome vanadium steel, chrome plated.
Weight, 2 lbs.
No. H13J.....\$6.48

BOX WRENCHES Set of Three Handy Shorts

-
- Fit 1/4, 3/8, 7/16, 1/2, 9/16, 5/8 and 11/16 in.
No. H300X.....\$1.23

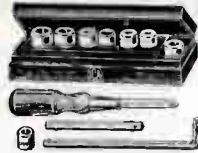
REPLACEMENT SET SCREWS

- For Knobs, Dials, etc.
- No. 318— 8/32 x 7/16 in.
 - No. 319— 6/32 x 1/4 in.
 - No. 320— 8/32 x 3/16 in.
 - No. 321— 10/32 x 1/4 in.
- 10 For 21 Cents

CENTER PUNCH

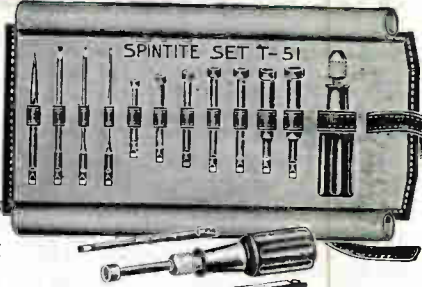
-
- Knurled bodies, durable point.
No. MF142—Each.....\$0.15

ICA LOCK SOCKET WRENCH SET AND SCREW DRIVER



Cadmium plated, in sturdy box.

- Contains:**
- 1 screw driver.
 - 1 handle.
 - 1 1/4-in. hex. handle and 5-in. extension, L-shaped.
 - 1 1/4-in. hex. straight, .3-in. extension.
 - 6 sockets, 3/16 in. to 7/16 in.
 - 1 internal knurled socket. Fits 12 pt. double hex. nuts 3/16 in. to 3/8 in.
- \$0.90



STEVENS WALDEN SPINTITE WRENCH SET
Complete, as illustrated....\$3.45

NEW! ICA. SELF-ALIGNING PUNCHES



- No. 755—For 1/4 in. hole.....\$2.10
- No. 756—For 3/8 in. hole..... 2.10
- No. 757—For 1-3/16 in. hole..... 2.70
- No. 758—For 1 in. hole..... 2.70
- No. 759—For 1 1/4 in. hole..... 2.70



ALL PURPOSE ANVIL

Heavy cast metal—Will house all standard punching dies.
No. 750—Weight 4 lbs.....\$1.50

HINSDALE TOOLS OF QUALITY

The steel used in the tools listed below is the finest chrome vanadium steel. They are fully guaranteed.

MIDGET SOCKET SET

-
- For all small nuts and bolts, chrome vanadium steel, chrome plated.
Material—Chrome vanadium steel, heat treated and tempered. Triple chromium plate. All parts fully polished. All sockets 12 point and 8 point. Openings as follows: Hex. 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16 in. Square 1/4, 5/16, 4 1/2 in. Slide T handle, and 6-in. forged extension bar with hard rubber screw driver type handle. Enameled metal box 1x1 1/2 x 8 in. Weight, 1 lb.
No. H11M.....\$2.95

COMPLETE SET

-
- For servicing radios, oil burners, refrigerators, electrical devices, automobiles, etc. Finest chrome vanadium steel, chrome plated.
No. 11-M

- The set contains seventeen tools: Nine 9/32 square drive sockets as follows: Twelve point for hex. nuts with openings 7/32, 1/4, 9/32, 5/16, 11/32, 3/8, 7/16. Eight point for square nuts with openings 1/4 and 5/16, 4 1/2 in. slide T handle. 4 1/2 in. adjustable ignition pliers to fit all nuts up to 1/2 in. Midget screw driver with alloy blade and transparent insulated handle. Four end wrenches as follows: 13/64x7/32, 15/64x3/4, 9/32x11/32, 5/16x5/8. Size of metal carrying case 4x1 1/4 x 9. Weight, 1 lb. 10 oz.
No. H17M.....\$5.34

ELECTRICAL-IGNITION SERVICE KIT

-
- Contains four chrome plated end wrenches covering eight sizes from 7/32 to 1/2 in. Fit all standard ignition, electrical and radio nuts and bolts; 3 locking position adjustable pliers; shockproof, unbreakable handle screw driver.
No. H6M.....\$2.37



KEYHOLE HACK SAW
No. MF237 \$0.25
Extra Blades No. MF7—Each \$0.12

ADJUSTABLE HACK SAW

Blade can be adjusted four ways. Capacity 8 to 12 in.; depth, 2 3/4 in. With one 10-in. blade.
No. MF99.....\$0.55

HACK SAW BLADES

- Made of Hard Tungsten
- No. MF23—10 in. long. Each.....\$0.10
 - Dozen......60
 - No. MF25A—12 in. long. Each......10
 - Dozen......60



PRECISION FLEXIBLE STEEL RULE

No. MF106 \$0.50

INDICATING CALIPERS

Capacity up to 2 in. Calibrated in 16ths of an inch. One of the handiest measuring tools you can own.
No. GP331.....\$0.50



COMBINATION SQUARE

Steel blade 1 in. wide, 12 in. long. Figures and graduation lines are large, deeply etched. Beam is equipped with a cat's-eye level and a scriber.
No. MS1200.....\$0.85

CARRON MIDGET IRON

-
- 7 ins. long—Smallest on the market—Heats instantly.
No. 105—110 volt.
No. 106— 6 volt.
\$0.75

PLIERS - SCREWDRIVERS

KRAEUTER SUPREME

New Pliers for Radio Men
Full Nickel Finish



LONG NOSE PLIERS

With and Without Cutters

No. 824 1/2	—With cutters, 4 1/2 in.	\$.98
No. 814 1/2	—No cutters, 4 1/2 in.	.94
No. 825	—With cutters, 5 in.	1.15
No. 800-5	—No cutters, 5 in.	.88
No. 826	—With cutters, 6 in.	1.23
No. 800-6	—No cutters, 6 in.	.94



EXTRA LONG REACH PLIERS

Flat Nose

No. 1781	—With cutters, 7 in.	\$1.15
No. 1771	—No cutters, 7 in.	1.05
No. 837	—No cutters, 7 in.	1.23



SIDE CUTTING PLIERS

No. 5601-4 1/2	—4 1/2 in.	\$1.26
No. 5601-5	—5 in.	1.40
No. 5601-5 1/2	—5 1/2 in.	1.50
No. 5601-6	—6 in.	1.58



IGNITION PLIERS

No. 743	—4 1/2 in.	\$0.39
---------	------------	--------



OUR SALES LEADER

Six-inch side cutting, long nose plier. Good quality. A real value.
No. 1332 Boker.....\$0.35



FORGED STEEL COMBINATION PLIERS

No. KS10	—6 in.	\$0.25
----------	--------	--------

Value-Plus.



One 1 1/2 in. blade; one 2 1/2 in. blade. Good quality. Set of two.
No. GP300.....\$0.10

KRAEUTER INDUSTRIAL QUALITY PLIERS

Same high quality as the famous Supreme Line except finish is the new last non-smudging black impregnated into the metal.



ELECTRICIANS' SIDE CUTTING PLIERS

No. K1381-8	—8 in.	\$0.79
-------------	--------	--------



HY-POWER HEAVY DUTY PLIERS

No. K8016	—6 in.	\$0.99
No. K8017	—7 in.	1.20



DIAGONAL CUTTING PLIERS

No. K6015	—5 in.	\$0.95
No. K6016	—6 in.	1.15



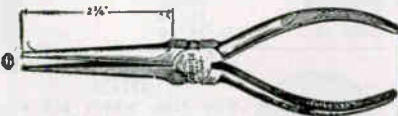
EXTRA HEAVY DIAGONAL CUTTING PLIERS

No. K6116 1/2	—6 1/2 in.	\$1.20
---------------	------------	--------



NEEDLE NOSE SIDE CUTTING PLIERS

No. K6616	—6 in.	\$0.85
No. K6716	—Same but no side cutters	.75



EXTRA LONG NOSE PLIERS

No. K7717	—7 in.	\$0.79
-----------	--------	--------

EXTRA VALUE KRAEUTER NO. 435 KIT

A handy leatherette case including one each of Kraeuter tools No. 6014, 4 in., No. 6616, 6 in., No. 7817, 7 in., No. 6016, 6 in. and 1381, 6 in. "Tools well preserved in appearance lend pride to your work."

No. 435	—Net price	\$4.95
---------	------------	--------

Heavy Duty



Hammered forged steel blade, hardened and tempered. Hardwood handle.
No. MS7777-4—4 in. blade.....\$0.15
No. MS7777-6—6 in. blade......18
No. MS7777-8—8 in. blade......20



BUD "SHOCKPROOF" SCREW DRIVER

Double grip bakelite handle.

No.	Blade Width	Length	Over-All	Price
No. 1101B	1/4 in.	5-5/16 in.	6-5/16 in.	\$0.12
No. 1103B	5/32 in.	7	7 1/2 in.	.18
No. 1105B	1/4 in.	9-5/16 in.	9-5/16 in.	.15
No. 1107B	3/16 in.	9-5/16 in.	9-5/16 in.	.21
No. 1108B	1/4 in.	10	10	.24



BUD EASY STARTING SCREW HOLDERS

Really Holds Screws Tight—Double Grip Handle of Bakelite

No.	Blade	Length	Over-All	Price
No. 852	1/4 x 1/4	inches	over-all	\$0.10
No. 853	3/8 x 7/8	inches	over-all	.12
No. 854	1/2 x 9/8	inches	over-all	.15
No. 856	1/2 x 8	inches	over-all	.15



HOLDS ANY SIZE



PUTS SCREWS IN UNHANDY PLACES
HOLD-E-ZEE
SCREW DRIVERS

INSULATED All with transparent handles of insulating amber. Beautiful appearance, tough and durable.

No.	Tip	Blade	Net Price
No. R2	5/32 in.	2 in.	\$0.24
No. R3	5/32 in.	3 in.	.35
No. TR4	5/32 in.	4 in.	.46
No. TR10	5/32 in.	10 in.	.49
No. TS7	7/32 in.	7 in.	.51



INSULATED HANDLE—HARDENED STEEL

Narrow blade, just right for screw slots of knobs and dials. Handle of amberoid with pocket clip.
No. AH302—3 in. blade.....\$0.09
No. AH303—4 in. blade......11
No. AH304—5 in. blade......12



GOODELL-PRATT NO. 66 5-INCH RATCHET SCREW DRIVER
Of highest quality. Net.....\$0.75



STEEL AWL

2 1/2 in. tapered, pointed and polished steel blade. Hardwood handle.
No. MS10.....\$0.10

DEDUCT 2% FOR CASH WITH ORDER

DRILLS - VISES - PUNCHES - DIES - TAPS



HAND DRILL

Capacity 0 to 1/4 in.

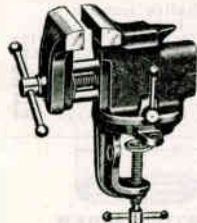
Single speed. Solid steel frame. Three-jawed chuck. Length 10 1/2 in.
No. MS2500\$0.70

BREAST DRILL

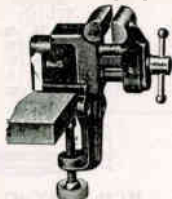
Two Speed.
Capacity 0 to 1/2 in.



Machine cut gears—quick, positive gear shift. Three-jawed steel chuck.
No. MS7740\$2.20



BENCH VISES



No. 15—Machined jaws 1 1/2 in. wide. Clamps to bench up to 2 in. thick. Jaws meet squarely—smooth action. 2 1/2 lbs. Value-plus\$0.65
No. 18—Swivel Type. Equipped with swivel base so vise can be swung to any desired angle and locked. Machined jaws 2 1/2 in. wide; opening 2 3/4 in. Clamps to bench up to 2 in. thick. 4 1/2 lbs. A bargain at\$1.30

FILES



Half round bastard file. 8 in. long. Spiral and double cut.
No. HHR8\$0.50



Round bastard file. Spiral and double cut.
No. HR4—4 in. long\$0.20
No. HR6—6 in. long25
No. HR8—8 in. long30



Mill bastard, blunt, single cut.
No. HMB—8 in. long\$0.30

Extra slim taper saw file. Single cut. No. HST6—6 in. long\$0.20
Double extra slim taper saw file. Single cut. No. HDT4—4 in. long\$0.15
Tungsten point files. No. HTP6—6 in. long\$0.15

SOCKET AND CONDENSER PUNCHES

An ideal tool for service engineers, amateurs, set-builders, etc. Quickly punches clean round holes in sheet metal stock. Hardened steel construction assures long life. Easy to use. 1-3/16 in. punch is standard socket size. 3/8 in. and 1/2 in. types are ideal for punching mounting holes for inverted electrolytic condensers. Holes may be punched without disturbing other parts.
K 607—For 1 1/8 in. holes.
K 606—For 1-3/16 in. holes.
K 78—For 3/8 in. holes.
K 34—For 1/4 in. holes.
Price each\$1.70

"T" HANDLE TAP WRENCH

Designed for holding taps, reamers, small drills, etc.
No. G329—Capacity, 1/16 in. to 9/32 in.—0 to 18; length 2 1/2 in.
Each\$0.50



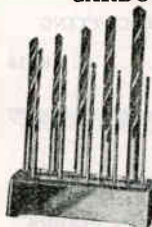
"GREENFIELD" STRAIGHT SHANK TWIST DRILLS



Carbon Steel No. 105			
Diam. Inches	Price Each	Diam. Inches	Price Each
1/32	\$.08	11/64	\$.10
1/16	\$.08	3/16	\$.10
5/64	\$.08	7/32	\$.13
3/32	\$.08	1/2	\$.17
7/64	\$.08	5/16	\$.23
1/4	\$.09	3/8	\$.30
9/64	\$.09	7/16	\$.45
5/32	\$.09	1/2	\$.60

CARBON DRILL SET

Chrome Plated Stand



A very handy and popular drill set for radio men. Don't lose your drills—have them in this handy stand, ready for instant use. Consists of ten of the most popular drills (1/16 in. to 1/2 in.). Best quality carbon steel.

No. GD21\$0.99
Same set in HIGH-SPEED super service twist drills. No. GD621\$2.25

REPAIRMAN'S TAPER REAMER



With "T" Handle

For enlarging holes in all kinds of material.
No. TH-5—1/2 in. at large end, 1/4 in. at point. Length over-all, 6 1/2 in.\$0.70



BURRING REAMERS

Finest Steel

Designed especially for removing burrs, for countersinking and for enlarging.

Bit Brace Shank					
Cat. No.	Capacity Inches	Diam. at Large Point	End	Price	
G56	1/4 to 1	3/16 in.	1 in.	\$0.75	
G242	1/2 to 1	3/16 in.	1 1/2 in.	1.00	
G244	1/4 to 2	1/4 in.	2 1/2 in.	2.25	
Round 1/2 in. Shank					
G234	1/4 to 2	1/4 in.	2 1/2 in.	\$2.25	

"O. K. JR." NO. G305 MACHINE SCREW TAPS



Cat. No.	Size Thread	Price
G305-4	4/36	\$0.19
G305-6	6/32	.17
G305-8	8/32	.17
G305-104	10/24	.19
G305-102	10/32	.22
G305-12	12/24	.25
G305-14	1/4-14/20	.28



"O. K. JR." ROUND DIES

The dies, which are adjustable, are held in the stock by three tapered screws which give the proper adjustment.
Sizes 4/36, 6/32, 8/32, 10/32, 10/24, 1/4/20.
Each\$0.48

"O. K. JR." ADJUSTABLE DIE STOCKS

For "O. K. Jr." Round Dies. Insures the cutting of straight threads. Guide can be instantly adjusted to fit any size rod within range of the screw plate.
No. G13—For 13/16 in. O. D. round dies listed above\$0.65



"O. K. JR." ROUND DIE SCREW PLATES



These screw plates have an "O. K. Jr." Round Split Die and "O. K. Jr." Tap driver is furnished in each set. For machine screw and fractional sizes—with 13/16 in. and 1 in. diameter dies.
No. B3—Sizes 6/32, 8/32 and 10/24. Per set\$1.90
No. B5—Sizes 4/36, 6/32, 8/32, 10/24 and 12/24. Per set\$3.00
No. B7—Sizes 4/36, 6/32, 8/32, 10/24, 10/32, 12/24 and 1/4/20. Per set\$3.75
O. K. 3 Tap Wrench and 13/16 in. diam. Dies standard for each number.

Hardware



HARDWARE ASSORTMENT

1,000 Pieces

1,000 assorted screws, bolts, nuts, lugs, washers, grommets, eyelets, etc., in heavy cardboard box with compartments for each assortment. All popular type hardware that you use every day. A VALUE-PLUS OFFER.
No. HA1000\$0.95

FIBRE WASHER AND RUBBER GROMMET ASSORTMENT



100 pieces
Fit No. 4, 6, 8, 10—1/4, 3/8, 1/2 in. holes.
\$0.29

No. 5 FIBRE WASHER ASSORTMENT

Self-Tapping Screw Assortment
40 Screws
Very handy for service men.
No. 12....\$0.29



Angle and Bracket Assortment



No. 10—28 pieces
Most popular sizes and types.
\$0.29

No. 10 ANGLE AND BRACKET ASSORTMENT

HARDWARE

TINNED COPPER LUGS

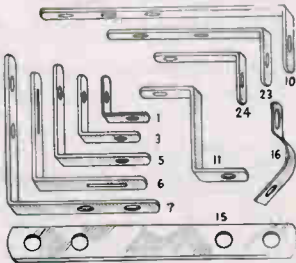


- No. 1— $\frac{3}{8}$ -inch long—No. 8 hole.
- No. 2— $\frac{1}{2}$ -inch long—No. 8 hole.
- No. 3— $\frac{3}{4}$ -inch long—No. 8 hole.
- No. 4— $\frac{1}{2}$ -inch long—No. 8 hole.
- No. 5— $\frac{3}{4}$ -inch long—No. 8 hole.
- No. 7— $\frac{11}{16}$ -inch long—No. 6 hole.
- No. 9—Double end— $\frac{3}{4}$ -inch—No. 8 hole.
- No. 22—Angle double $\frac{3}{4}$ -in.—No. 8 hole.
- No. 9X—Center hole—4 ends—No. 8 hole.
- No. 18—Mounting bolt—1-in—6-32 screw.
- All 20 for.....\$0.05

Except

- Nos. 9 and 9X—20 for.....\$0.10

ANGLES AND BRACKETS



- | No. | Name | Size | Price 10 for |
|-----|-------------------|---------------------------------|--------------|
| 1 | Coil Angle..... | $\frac{1}{2}$ x $\frac{1}{2}$ | \$0.09 |
| 3 | Coil Angle..... | $\frac{3}{8}$ x $\frac{3}{8}$ | .15 |
| 4 | Panel Angle..... | $\frac{3}{4}$ x $\frac{3}{4}$ | .17 |
| 5 | Panel Angle..... | 1 x 1 | .20 |
| 6 | Adj. Angle..... | $1\frac{1}{2}$ x $1\frac{1}{2}$ | .25 |
| 7 | Corner Angle..... | $1\frac{1}{2}$ x $1\frac{1}{2}$ | .30 |
| 10 | Large L Bracket.. | $\frac{1}{2}$ x $2\frac{1}{2}$ | .30 |
| 11 | Coil Z Bracket.. | $\frac{3}{4}$ high | .15 |
| 15 | Flat Strip..... | 3 in. long | .25 |
| 16 | Grid Leak Br'ket. | $\frac{3}{8}$ x $\frac{7}{8}$ | .15 |
| 23 | Mid. L Bracket.. | $\frac{1}{2}$ x $1\frac{1}{2}$ | .25 |
| 24 | Small L Bracket.. | $\frac{1}{2}$ x $\frac{7}{8}$ | .15 |
- All above $\frac{3}{8}$ in. wide

TRANSFORMER BRACKETS

For Power Packs and Transformers

- No. 18— $\frac{3}{4}$ x $3 \times \frac{3}{8}$ in. Each.....\$0.06
- No. 25— $\frac{3}{4}$ x $4 \times \frac{3}{8}$ in. Each......08
- No. 26— $\frac{3}{4}$ x $5 \times \frac{3}{8}$ in. Each......10

SCREEN GRID CAPS

For METAL and GLASS TUBES



- No. 102—10 for.....\$0.09

S. G. CAP ADAPTER

Lower portion, fit new metal tube caps while your old style S. G. cap slips over the top portion.

- No. 77—Each.....\$0.08



FOR METAL TUBES

S. G. cap—new style for metal tubes, with lug.

- No. GS-90T—10 for.....\$0.09

DUAL S. G. CAP

For both types—one end fits metal tubes—other fits glass tubes. Molded bakelite body.

- No. 9091—Each.....\$0.12

No. 9091L—With 15 in. high quality tinsel copper insulated lead. Each....\$0.18

RUBBER GROMMETS AND FIBRE WASHERS



FLAT FIBRE WASHERS

- | O. D. | Hole Size | Price |
|----------------|-------------------|---------------|
| No. 88— $5/16$ | No. 6—No. 8 | 10 for \$0.07 |
| No. 89— $3/8$ | No. 8—No. 10 | |
| No. 90— $7/16$ | No. 10— $1/4$ in. | |
| No. 91— $1/2$ | No. 1/4-5/16 | |

SHOULDER FIBRE WASHERS

- | O. D. | Hole Size | Price |
|----------------|--------------|---------------|
| No. 92— $5/16$ | No. 6 | 10 for \$0.10 |
| No. 93— $3/8$ | No. 8 | |
| No. 94— $7/16$ | No. 8—No. 10 | |
| No. 95— $1/2$ | No. 1/4-5/16 | |

RUBBER GROMMETS

- | I. D. Hole | Mounting Hole | Price |
|----------------|---------------|---------------|
| No. 96— $3/16$ | $5/16$ | 10 for \$0.10 |
| No. 97— $1/4$ | $1/2$ | \$0.10 |
| No. 98— $3/8$ | $1/2$ | |
| No. 99— $7/16$ | $9/16$ | 10 for \$0.15 |

RUBBER GROMMET ASSORTMENTS



Grommets are soft pure gum. They are for $\frac{1}{4}$, $\frac{3}{8}$, $\frac{7}{16}$ and $\frac{1}{2}$ in. holes.

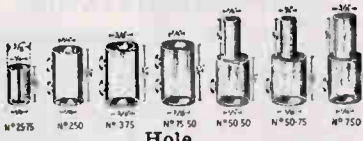
- No. RGA—12 grommets.....\$0.15
- No. RGB—30 grommets.....\$0.30

INSULATED BUSHINGS



- | No. | Size | Price |
|---------------------------------|-----------|--------|
| No. 74— $\frac{1}{4}$ in. high. | Each..... | \$0.03 |
| No. 75— $\frac{3}{8}$ in. high. | Each..... | .03 |
| No. 76— $\frac{1}{2}$ in. high. | Each..... | .04 |
| No. 77— $\frac{3}{4}$ in. high. | Each..... | .04 |
| No. 59—1 in. high. | Each..... | .05 |

BRASS SHAFT COUPLINGS, REDUCERS AND EXTENDERS



- | No. | Long In. | Hole I. D. | O. D. | Price Each |
|--------|--------------------------|-------------------------------|-------------------------|------------|
| 25-75 | Above is a dial bushing | $\frac{1}{4}$ | $\frac{3}{8}$ | \$0.05 |
| C250 | $\frac{3}{4}$ | $\frac{3}{4}$ | $9/16$ | .09 |
| C375 | $\frac{3}{4}$ | $\frac{3}{4}$ | $9/16$ | .09 |
| C75-50 | $\frac{3}{4}$ | $\frac{3}{4}$ - $\frac{1}{2}$ | $9/16$ | .09 |
| R50-50 | $1\frac{1}{2}$ | $\frac{1}{2}$ | $1\frac{1}{2}$ | .09 |
| R50-75 | $1\frac{1}{2}$ | $\frac{3}{4}$ | $9/16$ | .09 |
| R750 | $1\frac{1}{2}$ | $\frac{3}{4}$ | $1\frac{1}{2}$ | .09 |
| E254 | 1- $\frac{1}{4}$ in. | $\frac{1}{4}$ in. I. D. | $\frac{1}{2}$ in. O. D. | \$0.12 |
| D. | $\frac{1}{4}$ in. shaft, | $1\frac{1}{4}$ in. long. | | \$0.12 |
| E255 | 1- $\frac{3}{4}$ in. | $\frac{3}{8}$ in. I. D. | $9/16$ in. O. D. | \$0.12 |
| | $\frac{1}{4}$ in. shaft, | $1\frac{1}{4}$ in. long. | | \$0.12 |
| E256 | 1- $\frac{3}{4}$ in. | $\frac{1}{4}$ in. I. D. | $\frac{1}{2}$ in. O. D. | \$0.12 |
| | $\frac{3}{8}$ in. shaft, | $1\frac{1}{4}$ in. long. | | \$0.12 |

C—Coupling; R—Reducer; E—Extender.

DUAL GRID STUD

For Analyzer Plugs



Modernizes old analyzer plugs to accommodate both glass and metal tube caps. Solders to grid wire of any analyzer cable.

- No. SMGD—Each.....\$0.06

OCTAL GRID LUG

For Analyzer Plugs

Modernizes old analyzer plugs having two grid studs. Replaces one of two regular studs for accommodating new small grid clips used on metal tubes.

- No. SMGO—Each.....\$0.06



MACHINE SCREWS

Steel—Nickel Plated
We stock round heads only.

- | Size | Price 12 for | Size | Price 12 for |
|----------------------|--------------|-----------------------|--------------|
| $\frac{1}{4}$ x 4-36 | \$0.03 | 2 x 6-32 | \$0.05 |
| $\frac{1}{4}$ x 4-36 | .03 | $\frac{1}{4}$ x 8-32 | .03 |
| $\frac{1}{4}$ x 4-36 | .03 | $\frac{3}{8}$ x 8-32 | .03 |
| $\frac{1}{4}$ x 4-36 | .03 | $\frac{1}{2}$ x 8-32 | .03 |
| 1 x 4-36 | .03 | $\frac{5}{8}$ x 8-32 | .03 |
| $\frac{1}{8}$ x 6-32 | .03 | $\frac{1}{2}$ x 8-32 | .03 |
| $\frac{3}{8}$ x 6-32 | .03 | 1 x 8-32 | .04 |
| $\frac{1}{2}$ x 6-32 | .03 | $\frac{1}{4}$ x 8-32 | .04 |
| $\frac{3}{4}$ x 6-32 | .03 | $\frac{1}{2}$ x 8-32 | .05 |
| $\frac{1}{2}$ x 6-32 | .03 | $\frac{3}{4}$ x 10-32 | .04 |
| $\frac{3}{8}$ x 6-32 | .03 | $\frac{1}{2}$ x 10-32 | .04 |
| 1 x 6-32 | .03 | $\frac{3}{4}$ x 10-32 | .05 |
| $\frac{1}{4}$ x 6-32 | .04 | 1 x 10-32 | .05 |
| $\frac{1}{2}$ x 6-32 | .04 | | |

BRASS, NICKEL PLATED HEXAGON NUTS



- | Size | Price 10 for | Size | Price 10 for |
|----------------------|--------------|-------------------------|--------------|
| 4-36 x $\frac{1}{4}$ | \$0.03 | 6-32 x $5/16$ | \$0.05 |
| 6-32 x $\frac{1}{4}$ | .03 | 8-32 x $5/16$ | .05 |
| 8-32 x $\frac{1}{4}$ | .03 | 10 x 32 x $\frac{3}{4}$ | .07 |

THREADED BRASS ROD

- 6/32—12-inch lengths.....\$0.10
- 8/32—12-inch lengths......10
- 10/32—12-inch lengths......12

MACHINE SCREW KITS

- 85 in box—Assortment of 20— $\frac{1}{4}$, 20— $\frac{3}{8}$, 15— $\frac{1}{2}$, 10— $\frac{3}{4}$, 10— $\frac{1}{4}$, 10—1. Round head.
- Asst. No. 1—Round head 6-32 screws.
- Asst. No. 4—Round head 8-32 screws.
- Asst. No. 7—Round head 6-32 screws.
- Nuts and washers—100 in box.
- Each assortment.....\$0.30

WOOD SCREW KIT

- Asst. No. 6—Round, flat and oval head, assorted sizes.
- Each assortment.....\$0.30

ROUND AND HEX. HEAD SELF-TAPPING SCREWS

Nickel Plated

Specify whether round or hexagon head wanted.

- | Size | Price 10 for | Size | Price 10 for |
|---------------------------|--------------|---------------------------|--------------|
| $\frac{1}{4}$ in. x No. 6 | \$0.08 | $\frac{1}{4}$ in. x No. 6 | \$0.08 |
| $\frac{3}{8}$ in. x No. 6 | .08 | $\frac{1}{2}$ in. x No. 6 | .08 |
| $\frac{1}{2}$ in. x No. 6 | .10 | $\frac{3}{4}$ in. x No. 6 | .10 |
| $\frac{3}{8}$ in. x No. 8 | .10 | $\frac{1}{2}$ in. x No. 8 | .10 |
| $\frac{1}{2}$ in. x No. 8 | .12 | $\frac{3}{4}$ in. x No. 8 | .12 |
| 1 in. x No. 8 | .12 | 1 in. x No. 10 | .12 |
| 1 in. x No. 10 | .14 | 1 in. x No. 12 | .14 |

SHAKE-PROOF WASHERS

- No. 6-32.....20 for \$0.09
- No. 8-32.....20 for .09
- No. 10-32.....20 for .09

FAHNESTOCK SPRING CLIP



- Very good quality.
- No. 41— $\frac{3}{4}$ -inch long.....12 for \$0.11
- No. 42—1-inch long.....10 for .11

SPAGHETTI

- Flexible varnished tubing. Red, black, yellow, green.
- No. C68—For 16 and 18 gauge wires—30-inch lengths. Each.....\$0.06
- Ten for \$0.55
- No. C24—For 12 and 14 gauge wires—30-inch lengths. Each.....\$0.08
- Ten for \$0.75

SQUARE BUS BAR WIRE

- No. CBB—No. 14 square tinned copper—24-inch lengths. Each.....\$0.08

DEDUCT 2% FOR CASH WITH ORDER

MANUALS - BOOKS - MAGAZINES

If you are interested in securing full particulars on any line, we can send you the factory pamphlets, free.

LOG BOOKS
35c ea
3 for \$1.00



RADIOGRAM BLANKS



Pad of 100 Sheets
25c

RCA—VICTOR

Service Notes
\$1.00
any Volume



No. 1.....	1928-28.
No. 2.....	1929-30.
No. 3.....	1931-32.
No. 4.....	1933.
No. 5.....	1934.

BOOKS BY GHIRARDI MODERN RADIO SERVICING

By ALFRED A. GHIRARDI

A SENSATION! The greatest text ever published. 1300 pages. Construction and operation of latest radio test equipment—servicing of all forms of receivers—locating and eliminating interference—construction and use of new Cathode-Ray Oscillographs, (the first text book to have this)—explanation of AVC and QAVC circuits—advertising and merchandising tips. Written in clear, simple style—illustrated with 706 diagrams, photographs, charts, etc.
Net price\$4.00



SPECIAL—JUST PUBLISHED!
Radio Field Service Data and Answer Book (2nd Revised Edition)
JUST released! The latest newly revised and greatly enlarged edition of the handiest data book you ever saw. Intermediate frequencies of over 4,000 superhets—a section giving Case Histories of over 1000 models of radio receivers—remedies for ignition interference—latest tube charts—wire tables—all RMA Color Codes—and 25 other useful charts, diagrams and tables. Contains over 150 pages of added new material.
Net price\$2.50
SPECIAL OFFER:—Modern Radio Servicing in combination with new 2nd Edition Radio Field Service Data Supplement (listed above).....\$6.00
Ghirardi's Radio Physics Course
The most popular seller today. This book needs no introduction. So much valuable information is contained in its pages, no serviceman can afford to be without one.
Net price\$4.00

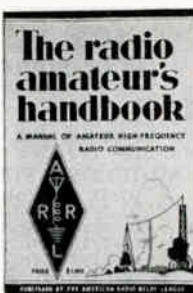
BOOKS AND SUPPLIES



1936 HAND-BOOK
\$1.00

OUT NOW!

The NEW 1936 League Handbook (13th edition)—enlarged in every respect—over twice as large as previous issues—everything that's new in Amateur Radio thoroughly covered. Not just a reprint of older issues but BRAND NEW dope on everything. The most Radio Wisdom you can get any place—only.....\$1.00



A. R. R. L. NEW LICENSE MANUAL
\$0.25

Latest edition. Gives full dope on the new regulations. Helps you get your Class B or Class A Ham ticket.



A. R. R. L. HINTS AND KINKS
\$0.50

A popular booklet—revised. Shows you many new shortcuts that help you in building that new XMTR or RCVR. A VY.FB. book that you'll like.



A. R. R. L. "HOW TO BECOME A RADIO AMATEUR"
\$0.25

A really instructive booklet that will enable anyone to learn the basic principles of radio.



A. R. R. L. LIGHTNING CALCULATORS

Ingenious devices for rapid, accurate and simple solution of various mathematical problems which arise in all kinds of radio work. Read direct answers without formulas and computations. Full instructions printed on back side of each calculator.
Type A—Covers problems of frequency, inductance and capacity. Gives direct answers for size of coils and condensers for all frequencies.....\$1.00
Type B—Covers calculations involving current, resistance, voltage and power. Also calculates DB gain or loss.....\$1.00
Type C—Wire data calculator..... .50
Type D—Decibel calculator..... .50
Type E—Parallel resistance—series capacity calculator..... \$0.50
Type F—Resistance calculator. Make an ohm-meter of your voltmeter.....\$0.50



EVERY HAM SHOULD HAVE ONE!

Buy It from "The Friendly Ham Supply House"

W 9 F O Call Books ..\$1.25
Winter Edition out now. Spring Edition ready about Mar. 15.

McGRAW-HILL BOOKS

Radio Operating Questions and Answers—\$2.50
Nilson & Hornung

Prepare to pass commercial radio exams this direct, easy way. 388 pages with over 600 typical questions and answers that are apt to be asked in government exams. Full illustrated answers make you confidently familiar with the essentials of all license tests, both commercial and amateur.



Practical Radio Communication—\$5.00
Nilson & Hornung

A new book of great value to all commercial radio operators, amateurs and beginners. 754 pages—435 illustrations. Balanced treatment of radio principles and practice. Equipment, operation, etc., in broadcasting marine, police, aeronautical and amateur radio, transmitting and receiving. Up-to-date developments in ultra-short, medium and long-wave radio. Ideal for reference use.

RADIO ENGINEERING—Terman...\$5.00
COMMUNICATION ENGINEERING—Everitt.....\$5.00
RADIO ENGINEERING HANDBOOK—Henney.....\$5.00
RADIO CONSTRUCTION AND REPAIRING—Moyer and Wostral.....\$2.50

Voltage Tables for Broadcast Receivers
F. L. Sprayberry

Over 300 pages with more than 1,500 complete voltage tables on broadcast receivers made in U. S. from 1927 to spring, 1935. Cross indexed. Tells exactly what voltage should be at each prong of the socket. Also information on Voltage Method of Radio Analysis. A book you should have \$2.00



NEW "RADIO" HANDBOOK
Greatest of All Radio Books



Tells how to build any kind of a receiver, ANY kind of a c.w. or phone transmitter. Data on new antenna systems. New grid-bias controlled carrier phones. Complete 10-meter chapter. All the new 2 1/2 and 5-meter information.
Almost 400 Pages
Net price...\$1.50

1936 Handbook..... .75

ANTENNA HANDBOOK

By "RADIO"

All the new dope on impedance matching, directive arrays, etc.
Net price 50c

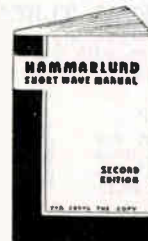
Thordarson Transmitter

Guide

New for 1937
Ea.09

THORDARSON
Amateur Transmitter
GUIDE

Price 15¢



Hammarlund Short-Wave Manual

16 pages—Instructive information for beginners, illustrated. \$0.10

RIDER'S MANUALS — MAGAZINES

RIDER'S MANUALS Important News!

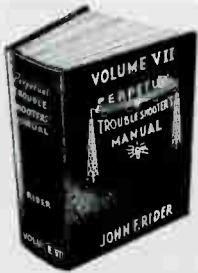


Rider's Manual Vol. 6 will be off the press on or about December 5th and we will have them in stock by December 10th. 1,240 pages—all the late sets. Price \$7.50

Always In Stock

- Volume No. 1—1925 to 1931 radios. \$7.50
- Volume No. 2—1931-1932 radios. \$6.50
- Volume No. 3—Late 1932 to June 1933 radios. \$7.50
- Volume No. 4—From June, 1933, to spring 1934, radios. \$7.50
- Volume No. 5—From spring, 1934, to summer, 1935, radios. \$7.50
- Volume No. 6—1935-1936 radios. \$7.50

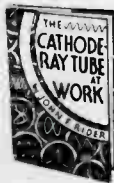
OFF THE PRESS! RIDER'S VOLUME 7 \$10.00



1600 Pages!
More Circuits!
More Data!
This is the biggest book Rider has published!

THE BOOK YOU HAVE BEEN WAIT- ING FOR

320 pages. Theory on Cathode Ray tubes and Cathode Ray circuits. The 2nd half of the volume is devoted to specific and practical applications of commercial oscilloscopes to servicing and adjustment problems. Price \$2.50—and worth it!



OTHER RIDER BOOKS

Everyone of these books covers their subjects in fullest detail.

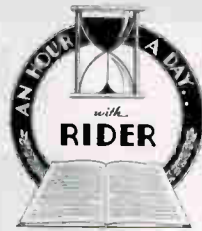
- SERVICING SUPERHETS—288 pages. \$1.00
- SERVICING RECEIVERS by means of RESISTANCE MEASUREMENTS—203 pages. \$1.00
- PRACTICAL TESTING SYSTEMS—160 pages. \$1.00
- SPECIALIZED AUTO RADIO MANUALS—
- Vol. 1—350 pages. \$3.50
- Vol. 2—416 pages. \$3.50

PLAN TO ATTEND NATIONAL RADIO TECHNICIANS CONVENTION

Hotel Lowry, St. Paul, Minn.
In April, 1937!

Here They Are!

ONLY
60c
Each
Best Book Value Out!



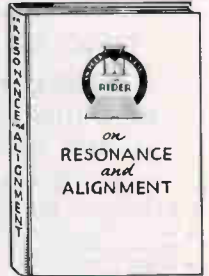
PROFUSELY
ILLUSTRATED
NEW FACTS
“AN HOUR A DAY”
to keep abreast of the
times

“MODERN TIMES DEMAND MODERN METHODS”



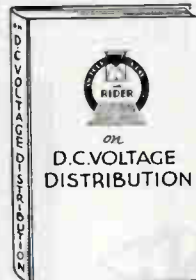
ON ALTERNATING CURRENTS IN RADIO RECEIVERS

A comprehensive book covering parallel and series resonant circuits . . . kinds of coupling . . . inductance, reactance, impedance, etc. A combination of theory and practice that explains alternating currents in a brand new way. Book No. 1, 80 pages.



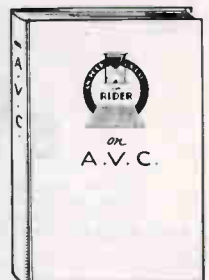
ON RESONANCE AND ALIGNMENT

A clear explanation of resonance . . . types of circuits—single, double, and triple tuned systems . . . latest high-fidelity i-f. amplifiers. This book tells you everything you should know about all this in Rider's brand new combination of theory and practice. Book No. 2, 64 pages.



ON D.C. VOLTAGE DISTRIBUTION

Explains distribution of D.C. voltages from power unit to the elements of the tubes. Explains networks from the simplest to the most complicated. The calculations of the value of the resistors and their wattage ratings are clearly described in this brand new combination. Book No. 3, 64 pages.



ON A. V. C.

Treats on modern automatic volume control. Noise suppression systems . . . time delay circuits . . . audio frequency volume expander systems and other such networks. A complete description of how these circuits operate written in a brand new manner, combining theory and practice. Book No. 4, 64 pages.

MAGAZINES

- SERVICE \$0.25
- QST—Every month..... .25
- RADIO (R9)—Monthly..... .30
- RADIO ENGINEERING..... .25
- RADIO NEWS..... .25
- RADIO CRAFT..... .25
- SHORT-WAVE CRAFT..... .25

\$1.00—SUBSCRIPTIONS—\$1.00
Radio Engineering and Service

We will handle your subscriptions for you on these two popular magazines at \$1.00 each if your order (either for new or renewal) is accompanied by cash. Please state what issue you wish subscription to start with.

Q. S. T. SUPER-REGENERATOR 5 METER KIT



The following list of parts represents the most important fundamental parts necessary to build the Novel Q.S.T. Pentagrid Converter 5 Meter Super Regenerative Ultra High Frequency Receiver as described in the May, 1936, issue of Q.S.T.

- All parts are included except resistors, mica and tubular condensers, a list of which is enclosed with each kit and which are available in every jobber's stock of parts.
- In this kit we have included all the important items that are fundamentally necessary to build this kit, and which are manufactured by ICA.
- 1—No. 111 ICA 15 mmf. Insulex Midget Condenser, complete with Hardware.
- 1—No. 1641 Special Shielded Quench Frequency Oscillator Coil.
- 1—No. 1646—5 Meter High Frequency R.F. Choke Coil.
- 1—No. 1650—5 Meter Tuning Coil.
- 1—No. 2232—3 1/2-inch Black Satin Finish Etched Dial with Silver Numerals.
- 1—No. 1156—2 1/4-inch Black Bakelite Bar Knob.
- 1—No. 2402—6 Terminal Strip.

- 1—No. 2481—5-Prong Wafer Bakelite Socket.
- 1—No. 2483—7-Prong Wafer Bakelite Socket.
- 1—No. 2419—Antenna and Ground Binding Post Strip.
- 1—No. 1143—Twin Tip Jack.
- 1—No. 3815—6x7 1/4 x 4 1/4-inch Black Crystalline Finish Drilled Cabinet.
- No. 1690—Packed in one carton.

\$3.98

DEDUCT 2% FOR CASH WITH ORDER



NATIONAL RADIO PRODUCTS

Newest
ALL-METAL TUBES
ONLY
\$118.10
 Complete
 (Less xtal filter)
MODEL NC100
 With 10-in. Speaker
 and Cabinet

NC 100

Electric Eye Tuning



Latest
NO PLUG-IN COILS
ONLY
\$140.60

Complete with xtal filter
MODEL NC100X
 With 10-in. Speaker
 and Cabinet

FEATURES AND TUBES USED

- ◆ Frequency range 30 megacycles to 540 K.C.
- ◆ R.F. preselector (all bands)—6K7.
- ◆ High frequency oscillator—6K7.
- ◆ Second I.F.—6K7.
- ◆ A.V.C.—6J7.
- ◆ Push-pull output (2)—6F6.
- ◆ Rectifier—80.
- ◆ First detector—6J7.
- ◆ First I.F.—6K7.
- ◆ Second detector—6C5.
- ◆ Beat freq. osc.—6J7.
- ◆ Tuning indicator—6E5.
- ◆ 12 tubes in cell.

Shipping weight, 65 lbs.

MODELS AND PRICES

Model	Price
NC100—Complete with tubes and 10-in. speaker in DCS cabinet.....	\$118.10
NC100S—Same as NC100 but with 12-in. Rolla speaker, chassis only.....	126.50
NC100X—Same as NC100 but with crystal filter..	140.60
NC100XS—Same as NC100S but with crystal filter	149.00
DCS—Wood lined metal cabinet for 10-in. speaker	5.10
RRA—(Pair) Steel flanges for rack mounting....	1.50

Available on easy payment plan. See second page for full details.

STILL MOST POPULAR!

SW 3 \$19.50

There are more SW3's in Ham shacks than any other type of receiver. Has one R.F. stage, regenerative detector, impedance coupled audio.

GENERAL COVERAGE COILS

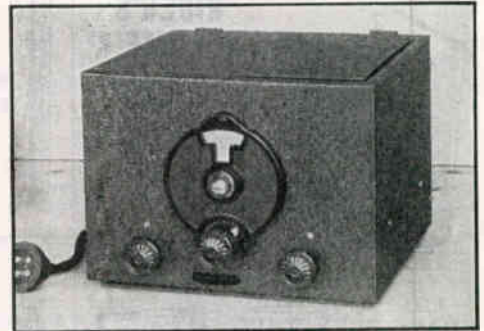
Catalog Symbol	Range	Price
No. 60	9. to 15. meters.....	\$3.00
No. 61	13.5 to 25. meters...	3.00
No. 62	23. to 41. meters.....	3.00
No. 63	40. to 70. meters.....	3.00
No. 64	65. to 115. meters....	3.00
No. 65	115. to 200. meters..	3.00
No. 66	200. to 360. meters..	3.30
No. 67	350. to 550. meters..	3.30
No. 68	500. to 850. meters..	3.90

Uses 258,156 R.F. Det. Audio.



BAND SPREAD COILS
 Per Set of Two.

No. 60A	10 meter.....	\$3.00
No. 61A	20 meter.....	3.00
No. 63A	40 meter.....	3.00
No. 64A	80 meter.....	3.00
No. 65A	160 meter.....	3.00



SW-3

AMATEUR'S FAVORITE

The full vision dial, plug in coils, send and receive switch, beat oscillator switch, calibration chart, etc., all on the front panel, result in an ease and convenience of operation that is possessed by no other receiver.

THE NEW IMPROVED FB7-A

FB7-A with air dielectric condensers in I. F. Amp.—completely wired—less coils—less tubes—your net cost

\$37.50

TUBES—one 56, one 57, two 58's, one 59 and two 24's—

Raytheons—Your net cost

\$4.21

FB7 COILS

Air Padded Osc.

Catalog No.	Range
AB 20	20 Meter Band Spread.
AB 40	40 Meter Band Spread.
AB 80	80 Meter Band Spread.
AB 160	160 Meter Band Spread.
FB AA	34,000 to 18,000 Kc.
FB A	19,500 to 11,400 Kc.
FB B	11,700 to 7,000 Kc.
FB C	7,300 to 4,000 Kc.
FB D	4,200 to 2,400 Kc.
FB E	2,500 to 1,500 Kc.
FB F	1,500 to 900 Kc.

All types—
 Per pair..... **\$6.00**

FBX-A

FBX-A has all the fine features of the FB7-A and in addition has a Crystal Filter working in the tried and proven Jim Lamb, Single-Signal Circuit. Adds extreme selectivity and reduces noise ratio. Crystal filter controls on side. Same general design as FB7-A and uses same tubes; without tubes, power supply, speaker or coils.

\$51.90



BUY SHORT WAVE RECEIVERS ON EASY PAYMENT PLAN. See Second Page.

NET PRICES NO FURTHER DISCOUNT



NATIONAL RADIO PRODUCTS

NEW HRO DE LUXE NATIONAL High Frequency RECEIVERS



OUTSTANDING FEATURES

- Nine Tubes, not including rectifier.
- Two preselector stages.
- Single Signal (Crystal Filter) standard equipment.
- Ganged Plug-in coils, with each coil individually shielded.
- Strictly single-control Tuning.
- Calibration for each range mounted on coil.
- Four gang precision condenser, with preloaded worm-drive tuning, 20-1 ratio.
- Micrometer dial, spreading tuning over 500 divisions, numbered every 10 divisions, direct reading.
- Automatic or Manual Volume Control.
- Vacuum Tube Voltmeter with Instrument calibrated in R scale of carrier intensity.
- Electron Coupled, air padded oscillators.
- Two I. F. stages with Litz-wound coils, air condenser tuned.
- Beat Frequency Oscillator for "Offset" C.W. Tuning.
- Phone Jack on Panel.
- Relay rack mounting available.

Tubes Used: 2½ volt type—4-58, 3-57, 1-2B7, 1-2A5.
6.3 volt type—4-6D6, 3-6C6, 1-6B7, 1-42.
HRO—Amateur Receiver—table model—complete with coils to cover 1.7MC to 30MC and with full set of laboratory matched tubes (2½ V.) but without power supply and speaker\$167.70
(Supplied with 6.3 volt tubes if specified but not recommended for A.C. operation.)
HRO—In relay rack type—complete as listed above.
Price\$179.70

Power Supply

National 5897 for 2.5 volt Model HRO—2.5 volt filament and 250 volts "B".....\$15.90

Extra Coils

175KC to 400 KC.....\$16.50
500KC to 1,000 KC..... 12.00
900KC to 2,000KC..... 12.00

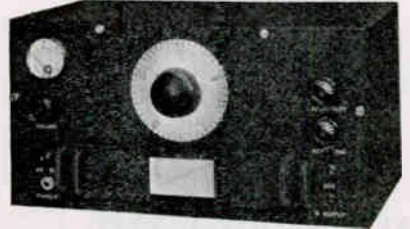


C-SRR—Size 7¾ x 7¾ x 7 ins.\$2.10
C-FB7—Size 12x11½ x 8 ins. 4.20
C-PSK—Size 5x12x8 ins. 3.60
C-SW3—Size 9¾ x 9x7 ins. 3.80
All of these metal cabinets can be had undrilled.
Sub-panel is included.

NEW!

only
\$99.00

(Less Power
Supply and
Speaker)



HRO JUNIOR RECEIVER

For those who need the high performance of the HRO, but do not require its extreme versatility, a Junior model is offered. The circuit details of both receivers are identical in every respect, but the lower priced model has been greatly simplified by omitting the CRYSTAL FILTER and the S-METER, and by designing coils for "continuous band spread" only. Although these omissions do not greatly restrict its usefulness, they make it possible to price the Junior HRO at a very attractive figure. A complete description of the HRO Junior and of the Standard HRO will be mailed on request.
HRO Junior—With tubes, one set of coils, 10 to 20 meters (2 amateur bands). Amateur Net..... \$99.00
5897 AB Power Pack—for above—less tube. Amateur Net 15.90
Additional HRO Jr. Coils—per range—(2 amateur bands) 9.90

POWER SUPPLIES

Famous National hum-free units with electrostatically shielded transformers. Quietest operating power supplies obtainable.
National No. 5887AB, 180 volts "B" and Filament Voltages (for FB7-A)\$14.70
National No. 5897AB, 250 volts "B" and Filament Voltages (for FB7-A), (HRO), (HROJR).....\$15.90
National No. 5886, 250 volts "B" and 6.3 Filament Volts \$20.70

SCREEN GRID-DETECTOR COUPLING UNIT—TYPE S101



Used in coupling A S. G. detector to an audio stage\$3.30

NATIONAL Type R-152 R. F. CHOKE

Isolantite insulation on metal base—10,000 volts insulation; continuous universal winding in 5 tapered sections; inductance 4 m.h.; distrib. cap, 1 mmf.; DC resistance 10 ohms; current ratings: continuous, 0.6 amp.; intermittent, 0.8 amp. For both high and low powered transmitters and laboratory oscillators. List price\$1.35



Type R-154—Like R-152 but designed for peak efficiency in 40 meter band.....\$1.35

NATIONAL ISOLANTITE SOCKETS



4-5-6-7 large and 7 small.
Each\$0.36

NATIONAL NO. 100 R. F. CHOKE



D. C. resist, 50 ohms, dist. cap. 1MMF., 2½ MLH., 125 M. A.\$0.45
The fastest selling piece of Ham apparatus made.

OWN A "NATIONAL" ON EASY PAYMENT PLAN. SEE SECOND PAGE.

PRICES SHOWN ARE NET. NO FURTHER DISCOUNT



NATIONAL RADIO PRODUCTS



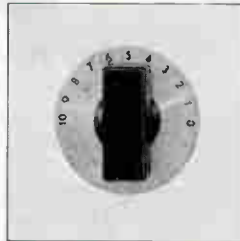
NATIONAL TYPE N DIAL

The most precise dial manufactured available in 0-100, 100-0, 150-0, 200-0, 4 in. in diameter.
 Net price \$4.05

NEW NATIONAL TYPE HRK DIAL

Used on HRO. Beautiful chrome finish with bakelite bar. Calibrated 10 to 0 in 180°.

Net price \$0.45



NATIONAL TYPE B AND BM DIALS

Type B 4 in., available in 0-100-0 or 200-0.
 Net price \$1.65
 Type BM 3 in., available in same scales... 1.50
 Dial illuminators, each..... .30

VERNIER TYPE A DIAL

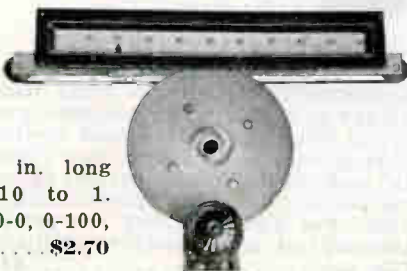
5 to 1 ratio. May be had in 0-100, 100-0, 150-0, and 200-0.

Net price \$1.80



NATIONAL TYPE VK DIAL

Full vision, 7 in. long scale. Ratio 10 to 1. Available in 100-0, 0-100, 150-0 \$2.70



TYPE CHV VARIABLE AIRGAP

Variable Frequency Crystal Holder

Made in low loss R39 housing plug in mounting with flexible shaft and locking device.

Net price (less crystal) \$5.70
 With Hollister Crystal \$19.50

STEATITE TRANSMITTING COIL FORMS

Transmitting Types

For 20, 40, 80, 160 meter bands.

Threaded for No. 10 wire or smaller, low-loss



Cat. No.	Winding Diameter	Winding Length	Max. No. of Turns	Band	Price
XR-10	2 1/2 in.	3 3/4 in.	26	20-40	\$2.25
XR-11	3 1/2 in.	4 1/2 in.	34	80	3.00
XR-12	4 in.	5 1/4 in.	29	160	4.80

CERAMIC TRANSMITTING COIL FORMS

While not as low-loss as the Steatite Forms, these ceramic forms will work efficiently in all amateur transmitters. Same general specifications as Steatite models.

XR-10A—Same size as XR-10..... \$0.90
 XR-12A—Same size as XR-12..... 1.35

NEW! BUFFER COIL FORM AND SOCKET

No. XR-13 **\$1.35**
 Only

Excellent for grid tank for push pull tubes.

Plug and Jack Base Only

5 prong plug and 5 prong Jack base as used in above combination.
 XR13—Plug base..... \$0.45
 XR13—Jack base..... .45
 XR13—Coil only..... .60



FLEXIBLE SHAFT COUPLING

Hubs take 1/4 in. shafts. Works up to 90° angle. Plain and Isolantite.

No. TX12—Isolantite hubs \$0.75
 No. TX11—Plain hubs... .36



SHAFT COUPLINGS

No. TX-9—Steatite \$0.60
 No. TX-10—Bakelite33



SOCKETS



Type JX-100—For the new RK-28 and RCA 803 power pentodes. Isolantite..... \$2.15
 Without stand-offs..... 1.80

50 WATT SOCKETS

Type XC-50—All Steatite..... \$2.10
 Type XM-50—Metal shell 1.20

NATIONAL GRID CLIPS

Type 12—Fit 866's, large..... \$0.06
 Type 24—Regular size03
 Type 8—For metal tubes..... .03

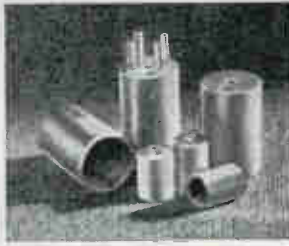


USE NATIONAL PARTS



R-39 COIL FORMS

Made of R-39. Can be drilled and grooved easily. Size 2 1/4 in. high by 1 1/2 in. wide. Available in 4, 5 and 6 prong types. Type XR-4, XR-5 or XR-6. Each.....\$0.45



MIDGET COIL FORMS

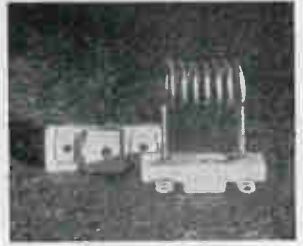
Made of R-39 in two sizes. XR-1—1 1/2 in. high by 1 in. wide, 4 prongs. Each.....\$0.30 XR-2—1 1/2 in. high by 1 in. wide, without prongs. Each.....\$0.21 XR-3—3/4 in. high by 1 1/8 in. wide, without prongs. Each.....\$0.15



STEATITE COIL FORMS

Size 2 1/4 x 1 1/2 inches. Drilled for leads.

XR20-4—4 prongs. \$0.21
XR20-5—5 prongs. .21
XR20-6—6 prongs. .21



5 METER COIL

Base of steatite, copper wire windings. Size over all, 1 3/8 x 1 1/8 in.

XR-9—Each.....\$0.27



ISOLANTITE STAND-OFF INSULATORS

WGS-1—1 3/8 x 1/2 in. \$0.15
WGS-2—2 7/8 x 1/2 in. .21
WGS-3—2 7/8 x 3/4 in. .48
WGS-4—4 7/8 x 3/4 in. .60



STEATITE STAND-OFF INSULATORS

WGS-5—1 1/4 x 1 x 1/2 in. Tapped 8-32 each end. Each.....\$0.15
WGS-6—2 x 1 1/4 x 5/8 in. Tapped 10-24 each end. Each.....\$0.21
WGS-7—3 x 1 1/2 x 3/4 in. Tapped 10-24 each end. Each.....\$0.39



H. F. BUSHINGS—STEATITE

WXS-1 — 1 x 1 1/8 in. Per pair.....\$0.36

WXS-2—1 1/2 x 1 1/8 in. Per pair.....\$0.48

Hardware included.



H. F. BUSHING

Made of Steatite

Button type. 3/8 in. thick, 5/8 in. diameter, 1/8 in. hole through center. Ideal for running leads through chassis.

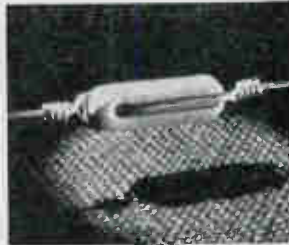
XS-6.....\$0.06



VICTRON TRANSPOSITION BLOCK

Wafer-thin, these blocks have but a fraction of the weight of other blocks. Low-loss.

Type AA-1—Each..\$0.18



STEATITE STRAIN INSULATOR

Aircraft type. Very strong. Size 1 1/2 in. long by 1/2 in. wide.

Type AA-5—Each \$0.11
5 for 54c



STEATITE ANTENNA INSULATOR

Real low-loss, eliminates power leakage and gets your signals out in the air.

Type AA-6—Size 4 1/4 x 1/2 in. Each.....\$0.15



STEATITE SPREADERS

Unusual in Efficiency

Steatite is a white ceramic material specially developed for H. F. circuits.

Type AA-3—Each..\$0.18

"NET PRICES" NO FURTHER DISCOUNT



NATIONAL RADIO PRODUCTS



NEW!

NATIONAL'S NEW LINE OF TRANSMITTING VARIABLE CONDENSERS
1000, 2000, 3000 Volts. Steatite - Isolantite Insulation.

TYPE TMS

For Oscillators, Buffers, Doublers, Etc.

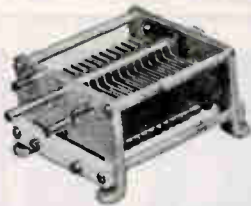
Cat. No.	Capacity	Length	Plates	Peak V.	Price
TMS-100	100 mmf.	2 3/4 in.	10	1000 v.	\$1.35
TMS-150	150 mmf.	2 3/4 in.	14	1000 v.	1.50
TMS-250	250 mmf.	2 3/4 in.	23	1000 v.	1.45
TMS- 50 Dual	50-50 mmf.	2 3/4 in.	6-6	1000 v.	2.10
TMS-100 Dual	100-100 mmf.	2 3/4 in.	9-9	1000 v.	2.55

For Low C, Type 210 Amplifiers

TMSA-35	35 mmf.	2 3/4 in.	8	2000 v.	1.65
TMSA-50	50 mmf.	2 3/4 in.	11	2000 v.	1.80

TYPE TMC

For Moderate Power Rigs



COMPACT 3,000 VOLTS

For RK18, RK20, RCA800, 830, 203A, 210, Etc.

Cat. No.	Capacity	Peak V.	Length	Plates	Price
TMC- 50	50 mmf.	3000 v.	3 in.	7	\$2.40
TMC-100	100 mmf.	3000 v.	3 1/2 in.	13	2.55
TMC-150	150 mmf.	3000 v.	4 1/2 in.	21	2.85
TMC-100 Dual	100-100 mmf.	3000 v.	6 1/2 in.	13-13	4.50

Air gap=.077 inch



TYPE TMA

Rigid frame, arranged for mounting on panel, chassis or stand-offs. Plates are heavy aluminum, rounded and buffed edges. Insulation is Isolantite. Heavy duty.

Cat. No.	Capacity Mmf.	Peak Volts	Length	Plates	Price
TMA-300	300	3,000	4-9/16 in.	23	\$6.60
TMA-200D	200-200	3,000	6 3/4 in.	16-16	8.10
TMA-50A	50	6,000	4-9/16 in.	9	3.60
TMA-100A	100	6,000	6 3/4 in.	16	5.40
TMA-150A	150	6,000	6 3/4 in.	23	6.60
TMA-230A	230	6,000	9-5/16 in.	35	8.70
TMA-50DA	50-50	6,000	6 3/4 in.	9-9	6.00
TMA-100DA	100-100	6,000	9-5/16 in.	15-15	9.60
TMA-100B	100	9,000	9 1/4 in.	23	7.20
TMA-150B	150	9,000	12 1/2 in.	35	9.30
TMA-60DB	60-60	9,000	12 1/2 in.	15-15	10.20
TMA-50C	50	12,000	7 1/2 in.	13	4.35
TMA-100C	100	12,000	12 1/2 in.	27	6.60
TMA-40DC	40-40	12,000	12 1/2 in.	11-11	7.20

NATIONAL PADDING CONDENSER

Compact, only 1 1/4 in. diameter by 1 1/4 in. high.
W-75-75 mmf. (air).....\$1.35
W-100-100 mmf. (air)..... 1.50



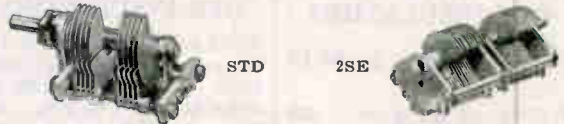
Midget Condensers



SEU SEH STS SE

Catalog Type No.	Capacity in Mmf.	Air Gap	Plate Shape	Rotor Plates	Stator Plates	Depth behind Panel	Price	
ST-	35	.026	180° SLW	5	4	2 1/4"	\$0.90	
	50	.026		6	5	2 1/4"	1.08	
	75	.026		8	7	"	1.20	
	100	.026		10	10	"	1.35	
	140	.026		14	14	2 3/4"	1.50	
	150	.026		15	14	2 3/4"	1.50	
STH-	200	.0175		14	13	2 3/4"	1.65	
	250	.0175		16	16	2 3/4"	1.80	
	300	.0175		20	19	2 3/4"	1.95	
	335	.0175		22	21	2 3/4"	2.10	
STN-	18	.065	270° SFL	4	3	1 3/4"	1.20	
STHS-	15	.0175		2	1	1 3/4"	.85	
	25	.0175		2	2	"	.90	
	50	.0175		4	3	"	.95	
STD-	50	.026		6*	5*	2 3/4"	2.10	
STHD-	100*	.0175		7*	7*	3"	2.70	
SE-	50	.026		270° SFL	6	5	2 1/4"	1.80
	75	.026			8	7	"	1.95
	100	.026			10	10	"	2.10
	150	.026			15	14	2 3/4"	2.25
SEH-	200	.0175	14		13	2 3/4"	2.25	
	250	.0175	16		16	2 3/4"	2.40	
	300	.0175	20		19	2 3/4"	2.40	
	335	.0175	22		21	2 3/4"	2.55	
SEU-	15	.055	3		3	"	1.50	
	20	.055	4		4	"	1.65	
	25	.055	5	4	"	1.65		
2SE-	100	.026	10	10	5"	3.30		
2SEH-	200	.0175	14	13	"	3.90		

*Per Section †3000 Volt Rating



NEUTRALIZING CONDENSERS

TYPE STN

STN—An efficient, sturdy condenser suitable for neutralizing 245, 247, 210 and like tubes in any stage \$1.20



TYPE 800

800—High voltage neutralizing condenser for use with the R.C.A. 800. Both plates insulated from ground \$1.80



TYPE TCN

Heavy duty, peak voltage 6,000 volts. Suitable for use with 203A, 852, 150T, etc. Max. cap. 25 Mmf. \$2.10



TYPE M-30

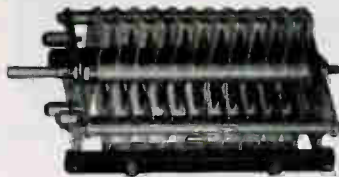
Small mica padding condenser mounted on steatite. 1 3/8 in. long, 1/8 in. wide, 1/2 in. high.
M-30—30 mmf., mica.....\$0.21



CARDWELL CONDENSERS



**HEAVY DUTY
TRANSMITTING
TYPES**



MIDWAY
FEATHERWEIGHT



MIDWAY FEATHERWEIGHTS

Cardwell Midway Featherweights are REAL condensers—not midgets. Suitable for low-power transmitters using up to '10 type tube.

.031 in. air gap—1,200 volts

Cat. No.	No. of Plates	Depth Behind Panel	Max. Cap. Mfd.	Min. Cap. Mfd.	Net Price
MR 25BS	3	2 1/8 in.	26	7	\$1.38
MR 50BS	5	2 1/8 in.	50	8	1.44
MR 70BS	7	2 3/8 in.	70	9	1.52
MR105BS	11	2 3/8 in.	105	11	1.60
MR150BS	15	2 3/8 in.	150	15	1.65
MR260BS	25	3 3/8 in.	260	25	1.80
MR365BS	35	3 3/8 in.	365	35	1.98

MIDWAY SEMI-HEAVY DUTY

Suitable for Transmitters Using Up To 75-Watt Tube
.070 in. air gap—3,500 volts

Cat. No.	No. of Plates	Depth Behind Panel	Max. Cap. Mfd.	Min. Cap. Mfd.	Net Price
MT 20GS	5	2 3/8 in.	22	6	\$1.70
MT 35GS	7	2 3/8 in.	35	9	1.85
MT 50GS	11	2 3/8 in.	50	11	2.10
MT 70GS	15	3 1/8 in.	70	15	2.35
MT100GS	21	3 1/8 in.	100	21	2.65
MT150GS	31	4 1/8 in.	150	31	3.30
*MG 35GS	15	4 1/2 in.	34	15	3.60

*For neutralizing 50-watt modulated stages—171 in. air gap—Mycalex insulation—5,200 volts

CARDWELL "TRIM-AIR" MIDGET CONDENSERS

Insulatite Insulation



Type No.	Max. Cap.	Min. Cap.	Air Gap	No. of Plates	Depth Behind Panel	Price
ZR 10AS	10	1.2	.031	5	15/16	.75
ZR 15AS	15	1.5	.031	7	1-1/32	.83
ZR 25AS	25	2.0	.031	11	1-5/16	.89
ZR 35AS	35	2.5	.031	13	1-5/16	.96
ZR 50AS	50	2.8	.031	15	1-5/16	1.02
ZR 75AS	75	2.7	.020	19	1-13/32	1.05
ZU100AS	100	2.9	.020	27	1 1/8	1.89
ZU140AS	140	4.5	.020			

(ZU140AS is double ended, with two bearings.)

*ZV5TS 5 1.8 .061 3 2 1/2 .75
*Special for ultra H.F. Can be used straight or split stator.

CARDWELL NEUTRALIZING CONDENSERS



New Type No.	Max. Cap.	Min. Cap.	Air Gap	Use for Neutralizing	Price
XG-25-KS	25	8	.171	203-A, 211's	\$1.80
XG-50-KS	50	15	.171	Parallel 203-A or 211's	3.60
XK-55-KS*	55	20	.230	204-A's parallel	6.00
MG-35-GS*	35	11	.171	Special Unit, Midway frame for Neut., 211's & 203-A's, etc. Plate Modulated	3.60
NA-4-NS	4	3	2 Pl. adjustable	For 50-T, 800, 852's (Push Pull)	2.15
NA-5-NS	6	3	.218	Required for above tubes in some cases of single-ended amplifier	2.15
NA-14-NS	14	5	.218	For RK-186, 805's, etc.	3.00
VZ-5-RS	5	2	.500	For 150-T's, 300-T's, HF-200's, etc. Plate Modulated	9.90
ZS-4-RS	4	1.15	.150	For 35-T's, Special "Trim-Air"	1.11

Type	Max. Cap.	Min. Cap.	No. of Plates	Air Gap	Depth Behind Panel	Price
XT-220-PS	220	23	21	.070	4 in.	\$2.40
XT-440-PS	440	42	43	.070	5 1/2 in.	4.20
XP-30-KS*	90	14	11	.084	3 in.	2.70
XP-165-KS*	165	20	19	.084	4 in.	3.90
XP-290-KS*	290	32	33	.084	5 1/2 in.	5.70
XP-330-KS	330	41	37	.084	6 1/2 in.	6.00
XE-240-KS	240	32	33	.100	6 1/2 in.	6.00
XG-25-KS	25	10	5	.171	3 in.	1.80
XG-50-KS	50	17	11	.171	4 in.	3.60
XG-110-KS*	110	31	23	.171	6 1/2 in.	5.40
XK-55-KS*	55	20	15	.230	5 1/4 in.	6.00
XC-18-KS*	18	6	5	.200	2 1/2 in.	3.30
XC-40-KS*	40	13	11	.200	4 in.	4.50
XC-65-KS*	65	18	17	.200	5 1/2 in.	5.70
XJ-100-KS*	100	26	25	.200	7 1/2 in.	6.90
TJ-150-US*	150	28	15	.168	6-13/16 in.	13.80
TJ-315-US*	315	38	31	.168	9-9/32 in.	19.20
TC-150-US*	160	38	19	.200	7 1/4 in.	14.40
TC-200-US*	200	40	23	.200	8 1/4 in.	16.80
TC-300-US*	300	42	35	.200	11 1/4 in.	19.20
TL-50-US*	50	18	7	.294	4-13/16 in.	13.20
TL-80-US*	80	29	13	.294	6 7/8 in.	18.00
TL-160-US*	160	40	25	.294	11 in.	19.80
TL-200-US*	200	46	31	.294	13 1/2 in.	16.80
TZ-40-RS*	40	15	..	.500	.....	16.80
TZ-80-RS*	80	22	..	.500	.....	23.70

CARDWELL SPLIT STATOR TYPES

MIDWAY DOUBLE CONDENSERS

Type	Max. Cap. Each Sec.	Min. Cap. Each Sec.	No. of Plates Per Sec.	Air Gap	Depth Behind Panel	Price
MR-25-BD	25	7	3	.031	2-9/16 in.	\$2.37
MR-50-BD	50	8	5	.031	3-9/16 in.	2.52
MR-70-BD	70	9	7	.031	3-9/16 in.	2.64
MR-100-BD	100	10	11	.031	3-9/16 in.	2.76
MR-150-BD	150	11	15	.031	3-9/16 in.	2.88
MR-260-BD	260	13	25	.031	4 1/2 in.	3.00
MT-20-GD	20	6	5	.070	2-9/16 in.	3.00
MT-35-GD	35	9	7	.070	3-9/16 in.	3.30
MT-50-GD	50	11	11	.070	3-9/16 in.	3.50
MT-70-GD	70	13	15	.070	4 1/2 in.	3.90
MT-100-GD*	100	15	21	.070	6 1/4 in.	4.80
MO-180-BD*	180	18	29	.050	6 1/4 in.	4.80

STANDARD DOUBLE TRANSMITTING CONDENSERS

Type No.	Max. Cap.	Min. Cap.	Air Gap	Net Price	Peak Flashover at 4 M. C.
XT-80-PD	88	11	.070	\$ 3.00	3,500 V.
XT-210-PD	214	22	.070	4.80	3,500 V.
XP-325-KD*	328	38	.084	13.20	4,000 V.
XE-240-KD*	240	32	.100	12.60	4,250 V.
XG-50-KD	50	14	.171	6.00	5,250 V.
XG-110-KD*	110	27	.171	10.80	5,250 V.
TJ-200-UD*	200	30	.168	21.60	5,200 V.
XC-40-XD*	40	13	.200	7.80	5,200 V.
XK-75-XD*	77	20	.200	10.20	5,800 V.
TC-160-UD*	160	38	.200	20.40	5,800 V.
TC-200-UD*	200	40	.200	22.80	5,800 V.
TC-250-UD*	250	40	.200	25.20	5,800 V.
TL-50-UD*	45	13	.294	15.00	7,250 V.
TL-100-UD*	94	30	.294	20.70	7,250 V.
TL-160-UD*	160	36	.294	26.40	7,250 V.
TZ-40-RD*	40	18	.500	25.80	12,000 V.

NEW HIGH FREQUENCY TRANSMITTING CONDENSERS For 5 and 10 Meters, Etc.

Type No.	Max. Cap.	Min. Cap.	Air Gap	Net Price	Peak Flashover at 4 M. C.
NP-35-GD†	35	5	.084	\$ 6.00	4,000 V.
ID-28-GD	28	5	.125	16.25	4,600 V.
JP-48-GD†	48	6	.084	16.25	4,000 V.

Data given is for one section. †Insulatite Insulation. *Mycalex—Standard Insulation.

TRANSMITTING TYPE

Type	Max. Cap.	Min. Cap.	Air Gap	Price
ZS 4SS	4	1.5	.150	\$1.11
ZT 30AS	30	2.0	.070	1.10

ACCESSORIES EXTRA

Mounting bracket with two screws and nuts..... **.06**
Extra extension shaft (used for ganging), plus setting nut..... **.04**
Mounting posts (one pair required per condenser, with screws and locking washers)..... **.06**

CARDWELL ROTOR LOCKING DEVICE



Designed for use where dial or knob tuning from the front of panel is not required.
Each..... **\$0.35**

DEDUCT 2% FOR CASH WITH ORDER

Hammarlund
PRECISION
PRODUCTS

**NEW! HAMMARLUND LOW-LOSS
COIL FORMS**



Made of XP-53 dielectric natural amber color. Durable and extremely low-loss.

2 1/2 inch winding space by 1 1/2 inch dia.

SWF-4—(4 prong)\$0.21

SWF-5—(5 prong)21

SWF-6—(6 prong)24

Same as above, but larger. 4 1/2 x 2 1/4 ins.

For Transmitters

TCF-4—(4 prong)\$0.42

TCF-5—(5 prong)42



NEW! HAMMARLUND COIL SET

Set of 4 short-wave plug-in coils, wound on SWF coil forms. Tune from 17 to 270 meters. These factory-wound coil kits will get real DX results for you. Tune with Hammarlund 140 MMF. Condenser. You can't buy better coils!



SWK-4—(Kit of four, 4 prong, 2 winding, coils range 17 to 270 meters)\$1.80

SWK-6—(Kit of four, 6 prong, 3 winding, coils range 17 to 270 meters)\$2.25

BCC-4—(4 prong, 2 winding, coil for broadcast band, range 250 to 560 meters)\$0.75

BCC-6—(6 prong, 3 winding, coil for broadcast band, range 250 to 560 meters)\$0.90

INDIVIDUAL COILS

Many experimenters prefer to buy their wound coil forms separate instead of in a kit. Here is a listing of the Hammarlund Wound Coil Forms sold separately. 40 series are the 4 prong, 2 winding coils and 60 series are the 6 prong, 3 winding coils.

H40—10 meters\$0.60
H41—17 to 41 meters60
H42—33 to 75 meters60
H43—66 to 150 meters45
H44—135 to 270 meters45

H60—10 meters\$0.75
H61—17 to 41 meters70
H62—33 to 75 meters75
H63—66 to 150 meters60
H64—135 to 270 meters60

SHORT WAVE COIL FORMS

Made of Isolantite. Numerous holes cut make drilling unnecessary; size 1 1/2 x 2 1/2 ins.



CF-4—4 prongs.

CF-5—5 prongs.

CF-6—6 prongs.

Each\$0.60

CF-5M—Size 1 1/2 x 2 ins. Made only in 4 prongs. Each ..\$0.45

CF-5M—Is ideally suited for ultra H.F. work.



**HAMMARLUND
FLEXIBLE COUPLING**

Very strong, made of bakelized canvas for 1/4-in. shafts. Brass bushings. Each\$0.36



**HAMMARLUND IMPROVED
MIDGET CONDENSERS**

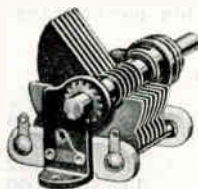
No.	Plates	Min. Cap. MMF.	Max. Cap. MMF.	Price
MC325M	43	12	320.....	\$2.10
MC250M	34	10	260.....	1.80
MC200M	27	10	200.....	1.65
MC140M	19	7	140.....	1.50
MC140S	19	7	140.....	1.50
MC100M	14	6	100.....	1.35
MC100S	14	6	100.....	1.35
MC 75M	11	6	80.....	1.20
MC 75S	11	6	80.....	1.20
MC 50S	7	5	50.....	.95
MC 35S	5	4	35.....	.90
MC 20S	3	3	20.....	.85

"M"—Midline plates.

"S"—Semi-circular plates.

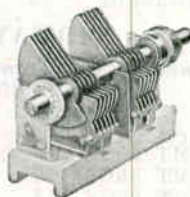
ISOLANTITE INSULATION

Very rigid construction. If you want real results when building a short-wave receiver, spend just a little more money and use Hammarlund condensers.



DUAL MIDGET CONDENSERS

MCD-140M—(140 MMF. max. cap. per section)\$2.40
MCD-140S—(140 MMF. max. cap. per section)\$2.40
MCD-100M—(100 MMF. max. cap. per section)\$2.10
MCD-100S—(100 MMF. max. cap. per section)\$2.10
MCD-50M—(50 MMF.) 1.80
MCD-50S—(50 MMF.) 1.80



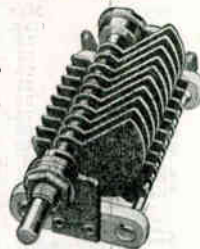
**DUAL-DOUBLE
SPACED
MIDGET CONDENSERS**

MCD-35MX—(33 MMF. max. cap. per section)\$2.10
MCD-35SX—Same in semi-circular plates\$2.10
F.B. for 5 meter rigs.



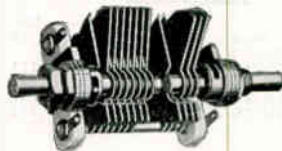
DOUBLE SPACED MIDGET CONDENSERS

Just the thing for tuning amp. in C.C. XMTRS. and for neut. up to 210's and 50 watters. Also FB for 5 meter rigs.
MC-20MX—20 mmf.\$1.20
MC-20SX—20 mmf. max. cap.—5 mmf. min. cap.\$1.20
MC-35MX—35 mmf. max. cap.—6 mmf. min. cap.\$1.35
MC35SX—35 mmf. max. cap.—6 mmf. min. cap.\$1.35
MC-50MX—50 mmf. max. cap.—7 mmf. min. cap.\$1.65
MC-50SX—50 mmf. max. cap.—7 mmf. min. cap.\$1.65



BAND SPREAD MIDGETS

These condensers are designed for use as band spread tuning condensers for S. W. Receivers and for use in amateur band frequency meters. The "tank" section can be set and locked at any desired capacity permitting the tuning section to spread narrow frequency ranges over entire dial, regardless of the range of the band or the coils used.



	Tank Cap.	Tuning Cap.	Price
MC120B.....	100 MMF.	20 MMF.	\$1.80
MC150B.....	100 MMF.	50 MMF.	1.95

Hammarlund
PRECISION PRODUCTS

For Better Radio

HAMMARLUND ISOLANTITE SOCKETS

- S-4—4 prongs.
 - S-5—5 prongs.
 - S-6—6 prongs.
 - S-7—7 prongs.
 - S-7B—7 prongs for small base tubes.
 - S-8—For 8-prong octal tubes.
- Each\$0.36



SOCKET FOR ACORN TUBES

Glazed for high surface resistance.
No. S900—Each.....\$0.90

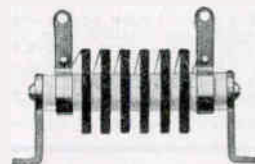
A popular choke among all Hams!
Inductance 2.1 M.H., D.C. resist.
is 35 ohms, Dist. Cap. 1 MMF.,
125 milliamperes.
Hammarlund CH-X.....\$0.36



HAMMARLUND CH 500 TRANSMITTING

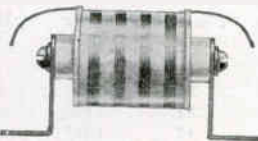
CHOKE Heavy Duty

Equally effective and efficient on all amateur bands.
Inductance 2.5 M.H., Dist. Cap. less than 1.5 MMF., D. C. resist. 8 ohms, max. current 500 M.A.
CH-500\$1.05



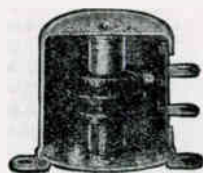
HAMMARLUND ISOLANTITE R. F. CHOKE

A very efficient, low-loss, general purpose, all-wave choke. Windings protected by lacquer and cellophane.
CH-8\$0.65



HAMMARLUND SHIELDED R. F. CHOKE

For use in high gain circuits. Inductance 10 M.H., D.C. resist. 65 ohms, current 100 M.A.
CH-10S\$0.60



HAMMARLUND HIGH IMPEDANCE R. F. CHOKE

For detector plate circuits, B plus and grid return leads, etc.
RFC-85—Inductance 85 M.H., D.C. resist. 215 ohms.....\$1.20
RFC-250—Inductance 250 M.H., D. C. resist. 420 ohms.....\$1.35



NEW HAMMARLUND AIR PADDING CONDENSER

- APC25—25 MMF.\$0.78
- APC50—50 MMF.90
- APC75—75 MMF. 1.00
- APC100—100 MMF. 1.15

APC1400—140 MMF. 1.35
Size of 100 MMF., size 1-7/32x15/16 ins. Isolantite base, brass plates.



NEW HAMMARLUND H. F. SINGLE VARIABLE CONDENSERS

For tuning or trimming on high frequencies. Cadmium plated soldered brass plates. B-100 Isolantite. Base mounting: single hole panel mount, or panel mounting with bushings. ¼-inch shaft. 140 mmf. only. 1-9/16 inches high, 1-13/16 inches behind panel.

HF-15	15 mmf.....	\$0.75
HF-35	35 mmf.....	.90
HF-50	50 mmf.....	.96
HF-100	100 mmf.....	1.14
HF-140	140 mmf.....	1.35
*HF-30-X	30 mmf.....	1.11

* Double spaced.



H. F. DUAL VARIABLE CONDENSERS

A compact dual—ideal as a high frequency tuning condenser or for tuning and neutralizing low-powered short wave and ultra-short wave transmitters, etc. Heavy B-100 Isolantite base equipped with new outstanding Hammarlund split rear bearing and individual noiseless wiping contact for each section. Rotor contacts variable to several positions for shortest leads. Shield between sections for grounding.

The 140 mmf. size is only 1 ¼ inches high by 3 ¾ inches long behind panel—¼-inch shaft. Cadmium plated soldered brass plates.

HFD-50	50 mmf. per section.....	\$1.65
HFD-100	100 mmf. per section.....	1.95
HFD-140	140 mmf. per section.....	2.25
HFD-30-X	30 mmf. per section (Double spaced)...	1.95

ALUMINUM COIL SHIELDS

This new Hammarlund coil shield is a very effective housing for coils. It is constructed of heavy aluminum and is a two-piece affair. It is three inches in diameter. Base has mounting holes. This is the same shield as used in the popular "Comet-Pro" receiver.

No. CS-3—Net price.....\$0.30

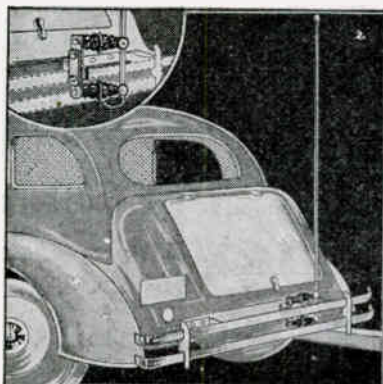


HAMMARLUND NEW TYPE "MEX"

Midget equalizer condenser. Size 5/8 x 3/4 ins.; base range, 3-30 MMF. Handy for trimming R.F. coils.\$0.18



WARD "FISH POLE" and "BUGGY WHIP" Telescoping Auto Antennas



Mount in a few minutes without drilling. Ward power-house-type rubber insulators add to appearance and assure dependability. Lead-in included.

Model H.F.C.—Chrome "Buggy Whip" for door pin mounting..... **\$2.10**
Model B.F.—Black "Fish Pole" for bumper mounting..... **\$2.10**

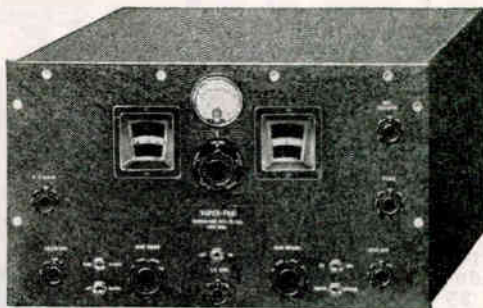
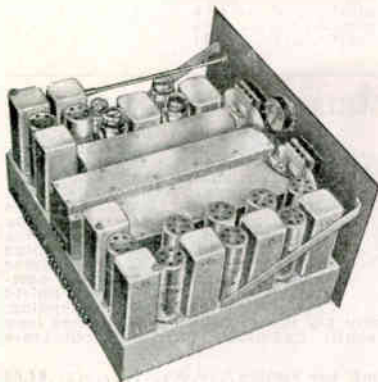
DEDUCT 2% FOR CASH WITH ORDER

For Better Radio

HAMMARLUND

PRECISION PRODUCTS

The New
"SUPER-PRO"
No equal at any price



These Features Give the
"Super-Pro" an Edge
Over All Others

- *Uses FIFTEEN of the new type, Higher Efficiency Tubes.
- *It's an All-Band Receiver—Range is 15 to 560 Meters.
- *An efficient Front-of-Panel 5-Band Switch. NO Plug-In-Coils.
- *Band Spread Tuning on all Bands.
- *Volume and Radio Frequency gain are regulated by individual controls.
- *Switch for disconnecting B Supply when transmitting.
- *Both Dials Highly Illuminated.
- *Beat Oscillator Switch on front panel.
- *Calibration of Dial Settings to better than 1/2% accuracy.
- *Electro-static shielded input.
- *18 Watts of available undistorted audio output when needed.
- *Class A prime Push-Pull audio system.
- *Designed for use on doublet, "double doublet" or any standard antenna system.
- *Lower Noise Level.
- *Two stages of Radio Frequency pre-selector stages—no Image interference.
- *Three high gain, high Q, i.f. stages giving high selectivity.
- *Automatic and manually operated Volume Control.
- *Crystal filter system supplied if desired at small additional cost.
- *Air-tuned R.F. Transformers throughout—High Q Circuit design.

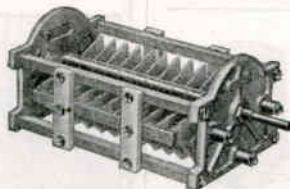
Complete coverage from 20 megacycles to 540 K.C. (15 to 560 meters) is provided. This range is covered in 5 bands which are changed by means of a specially designed switch with silver-plated multiple contacts which automatically short circuit all coils not in actual use. The main dial is accurately calibrated in megacycles from 2.5 m.c. to 20 m.c. and in kilocycles from 540 to 2,500. Only the scale in actual use is visible. This is accomplished automatically when the band switch is set. The "Super-Pro" receiver consists of two major units—receiver proper and power unit. Rack mounting with dust covers available.

Code SP-10—Standard "Super-Pro" with power supply; tubes, and Jensen C8R communication type 8-in. electro dynamic speaker. Price.....\$228.00
 Code SP-10X—Crystal "Super-Pro" with power supply; tubes, and Jensen C8R communication type 8-in. electro dynamic speaker. Price.....\$246.00
 Code SP-20—Standard "Super-Pro" with power supply; tubes, and Jensen A-12 high fidelity type 12-in. electro dynamic speaker. Price.....\$243.00
 Code SP-20X—Crystal "Super-Pro" with power supply; tubes, and Jensen A-12 high fidelity type 12-in. electro dynamic speaker. Price.....\$261.00
 Available on time payments. Write us for details.

NEW HAMMARLUND TRANSMITTING CONDENSERS

Cat. No.	Capacity mmf.	No. Plates	*Plate Spacing	Voltage Rating	Over-All Length	Your Cost
TC- 30-A	30	7	.192"	6500 V.	3 3/8"	\$ 3.00
TC- 50-A	50	11	.192"	6500 V.	4 5/16"	3.90
TC-100-A	100	21	.192"	6500 V.	6 3/8"	5.70
TC-150-A	150	31	.192"	6500 V.	8 5/16"	8.10
TC-225-A	225	47	.192"	6500 V.	12 21/32"	10.80
TC-100-B	100	11	.080"	3000 V.	3 7/8"	3.30
TC-150-B	150	17	.080"	3000 V.	3 3/8"	3.90
TC-225-B	225	23	.080"	3000 V.	4 5/8"	4.80
TC-335-BX	335	43	.100"	3500 V.	7 7/8"	7.20
TC-450-B	450	47	.080"	3000 V.	7 1/2"	7.20
TC-225-X	225	23	.080"	2000 V.	4 9/32"	3.00
TC-350-C	350	19	.038"	1000 V.	3 3/32"	3.00
TC-500-C	500	27	.038"	1000 V.	3 5/8"	3.30

*Actual Air-gap between adjacent rotor and stator plates.



NEW DUAL (Split Stator) TRANSMITTING TYPES

Cat. No.	Cap. Per Sec. Mmf.	Series Cap.	No. Plates	Plate Spacing	Over All Length	Peak Volts in Series	Your Cost
TCD-500-C	500	260	27	.038"	5 1/2"	2000 V.	\$ 5.40
TCD-100-X	100	50	11	.080"	4 3/4"	6000 V.	5.40
TCD-225-X	225	110	23	.080"	6 3/8"	6000 V.	6.60
TCD- 50-A	50	27	11	.192"	6 3/8"	13000 V.	7.20
TCD-100-A	100	51	21	.192"	11 1/4"	13000 V.	10.80

STANDARD COMET PRO
Still Available

This popular receiver is still being built by Hammarlund for those who want a better receiver than average.

Standard Pro with tubes.....\$ 97.20
 With crystal 115.20

Low Bonn Co. sells all Special Short Wave Amateur Receivers on a generous Time Payment Plan. Write for full details.

HALLICRAFTER SHORT WAVE RECEIVERS SKYRIDER ALL-STAR KITS

THE SKYCHIEF 7 TUBE SUPERHETERODYNE



\$44.50

17 to 540
Meters
Iron Core I.F.
AVC
Band Switching
Magie Eye
Tuning

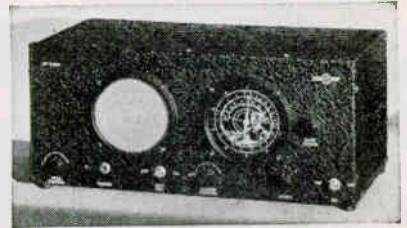
Designed expressly for the use of transmitting amateurs and advanced short wave listeners, the HALLICRAFTERS "Sky Chief" includes all the latest features shown in all of the high priced communication receivers.

It covers all the short-wave, broadcast, amateur and code bands with the highest efficiency. The regular broadcast band has been added to appeal to the wide field that includes amateurs and experienced short wave hobbyists.

All the features and special controls so desirable to the critical operator make it possible to get the last degree of usable sensitivity and selectivity. Built in dynamic speaker. Dimensions: 21 1/4 by 9 3/4 by 10 1/2 in. high.

On easy payment plan \$10.00 down and 6 installments of \$6.90 each.

THE "SKY BUDDY" 5 TUBE SUPERHETERODYNE



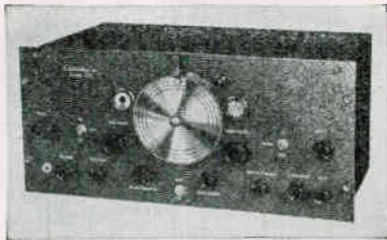
\$29.50

18 to 550
Meters
Iron Core I.F.
AVC
No Plug-in
Coils

Complete With Tubes and Speaker

Tuning from 18 to 555 meters in three bands, its single iron core I.F. stage and an improved mechanical band spread system make it a receiver difficult to beat in sensitivity and selectivity even when compared with the higher-priced communication sets. Bands tuned are 16 to 5.5 Mc.; 5.5 to 1.68 Mc.; 1680 Kc. to 550 Kc. Dimensions:—17 in. long, 7 1/2 in. high, 8 3/4 in. deep. On easy payments at \$7.00 down and \$4.50 per month for 6 months.

NEW 1937 SUPER SKYRIDER



Model S-11
\$89.50

Model SX-11
with
Crystal. \$99.50
535 Ke. to 40Mc.
Stentite R.F.
Sockets
Rack-Panel Style
Air Trimmed

Improved 10 meter performance. Automatic volume control. Duo-Micro-Vernier band spread. A headphone jack is provided for the use of headphones. The antenna circuit is arranged for doublet or conventional antenna. Set arranged for rack and panel mounting. The panel being 8 3/4 in. high by 19 in. long. Controls at convenient height for operating. Frequency range —5 bands.

40 to 16 Mc.; 16.5 to 6.6 Mc.; 6.8 to 2.7 Mc.; 2.9 to 1.16 Mc.; 1.34 to .635 Mc.

Time payments Model S-11 (without speaker) \$20.20 down and 10 monthly payments of \$8.28 each.

Model SX-11 (with speaker) \$22.70 down and \$9.18 a month for 10 months.

Price does not include speaker

8 in. P.M. Speaker for S-11 or SX-11.....\$12.00

NEW 1937 ULTRA SKYRIDER



Model S-10
\$99.50

Model SX-10
with
Crystal \$114.50
376 to 53
Meters
I.F. Expander
Noise Silencer

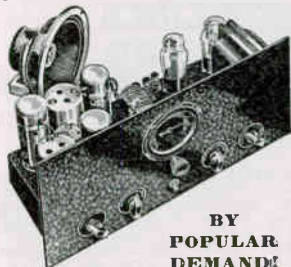
1600 Kc. I. F.'s are used to improve the image ratio on the high frequency bands. The image ratio at 7 Mc. being better than the average receiver on the broadcast bands. The 20 meter band image rejection is better than the average receiver on the police bands.

The I. F.'s are air trimmed and iron cored making for the ultimate in stability.

The I. F.'s are fitted with an expander unit so that they may be broadened to receive 5 meter tabulation phones three degrees selectivity.

Model S-10 on payments at \$22.70 down and 10 monthly payments of \$9.18 each.

Model SX-10 at \$24.90 down and 10 payments of \$10.68 each. Speaker not included in price



BY
POPULAR
DEMAND!

Space does not permit us to list the Junior Kits or the prices on individual parts. Write us for a circular showing the diagram and parts list.



SENIOR KIT PRICES

Foundation Kit	\$2.50
Thordarson Units	5.70
Cornell Dubilier Kit	5.55
Meissner Coil Unit	7.65
Hammarlund Condensers	3.60
Ohmite Resistors	2.50
Electrad Controls	1.40
Crowe Dials and Plates	2.10
Belden Wire Kit	3.45
Raytheon Tube Kit	3.49
Miscellaneous Parts	2.10

For only \$2.50 you can start building the All-Star Receiver—then buy remaining parts as you build.

FEATURES

★ CONTINUOUS BAND-SPREAD—Over entire tuning range—wide spread on all Amateur Bands and Foreign Broadcast Bands.

★ 10 TO 550 METER TUNING RANGE—Continuous without any skips.

★ 7-TUBE SUPERHETERODYNE CIRCUIT—A.C. operated—power supply built-in. Can be furnished as a 6-tube Super, leaving out Beat-Note Oscillator. Uses latest tubes—2A7 Oscillator and first Detector, 58 1st I. F., 58 2nd I. F., 56 2nd Detector, 58 E. C. Beat Oscillator, 2A5 Pentode Power tube and 80 Rectifier.

★ Pre-adjusted coils—Oscillator and I. F. coils are pre-set—eliminating need of alignment.

★ Super sensitivity and selectivity. High gain I. F.'s on New 370 K. C.

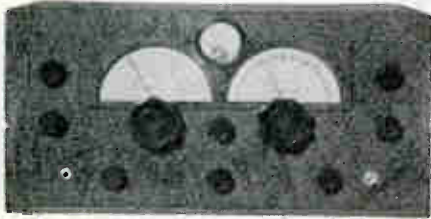
OTHER FEATURES—Standard parts used throughout, Speaker Volume, Airplane Dial, Tone Control, Eraydo finished Panel and Subbase, etc.

DEDUCT 2% FOR CASH WITH ORDER

SHORT WAVE RADIO RECEIVERS

Lew Bonn Co. carries, in stock all the time, all of the receivers listed on these two pages as well as a full stock of National and Hammarlund receivers. When new models are brought out, Lew Bonn Co. is one of the very first to order them so that we can test them out and give you our opinion of their

merits. All of the receivers we list in this catalog have proven their ability to please amateurs with real FB performance. Remember, Lew Bonn Co. is willing to help you own a GOOD receiver through our time payment plan.



NEW RME-69

The RME-69 is the 1936 successor to the famous RME-9D. This precision-built communication type receiver has proven to be one of the very best in performance. Now features continuous band-spread tuning on six bands from 9 to 550 meters. The amateur bands are grouped for a minimum amount of tuning. New, large, improved dials. Built-in monitor for both phone and C.W. Heavy black crackle finish metal cabinet is 19 in. long, 10 1/4 in. deep and 9 in. high. Has calibrated micro-volt "R" meter. Uses the expensive electrical (condenser) system of band-spreading. Uses the 6.3 volt tubes as follows: 6D6 R.F. amplifier, 6D6 oscillator, 6C6 first det., two 6D6 I.F. amplifiers, 6B7 second det., A.V.C., and first audio, 6D6 B.F. osc., 42 A.F. output and 80 rectifier—nine tubes in all. Has single signal crystal filter (Billey 456 Kc.) as standard equipment. Has the following front panel controls: Line switch and tone control combined, beat freq. osc. adjustment, headphone jack, manual gain control, resonator control, band change switch, volume, A.V.C. and send-receive switch combined, beat osc. on-off switch, crystal selectivity control and crystal filter switch as well as the two main tuning controls.

RME-69—Single signal super receiver complete in steel cabinet with crystal and tubes but no speaker.....\$123.80
 Roia permanent magnet dynamic speaker, 8 in. diameter, in metal cabinet to match RME-69..... 11.10



THE NEW BRETING "14" DX RADIO

JUST OUT! Breting's new Model "14," with new improved features and famous Breting value.

Model "14"—14 tubes. Net price..... **\$99.00**
 Write for bulletin.

Note: Illustration is of famous Breting 12 now superceded by the model 14.

RCA NEW TRANSMITTERS



This new line of amateur transmitters consists of a number of units which can be assembled to make up either a 40 watt C.W., 40 watt phone, 260 watt C.W., or 200 watt phone transmitter. The amateur may purchase either complete assemblies or individual units.

ACT-40 (40 WATT PHONE and C.W. TRANSMITTER)
 This transmitter consists of an antenna coupling panel, an r-f unit, and a modulator unit as pictured at left.
ACT-200—(200 WATT PHONE, 260 WATT C. W. TRANSMITTER)

This transmitter consists of an antenna coupling unit, an r-f exciter unit, an r-f power amplifier unit, a modulator unit, and a high-voltage power-supply unit housed in a metal cabinet.

The ACT-200A antenna unit is similar to the ACT-40A except that parts having the necessarily higher ratings are employed. The ACT-200P power-amplifier unit uses two RCA-838 in push-pull.

Prices are subject to change or withdrawal without notice. Prices are less tubes, crystals, microphones, and all other accessories except one set of coils for one amateur band.
 ACT-40—(Complete phone and C.W. transmitter).....\$235.00
 ACT-40A—(Antenna Unit)..... 37.50
 ACT-40R—(R-F Unit)..... 110.00
 ACT-40M—(Modulator Unit)..... 84.50
 ACT-40C—(Metal Cabinet)..... 20.75
 Extra coils for 40 watt transmitter, per set..... 7.50
 ACT-200—(Complete 'phone and C.W. transmitter)..... 475.00
 ACT-200A—(Antenna Unit)..... 49.50
 ACT-200P—(R-F Power Amplifier Unit)..... 99.50
 ACT-200M—(Modulator Unit)..... 99.50
 ACT-200S—(Power-Supply Unit)..... 96.50
 ACT-200C—(Metal Cabinet)..... 34.70
 Extra coils for 200 watt transmitter, per set..... 7.50



RCA MODEL ACR-175

Tunes from 500 to 60,000 Kc. (5 meters)! Superheterodyne, 460 Kc. Iron-Core Intermediate-Frequency Transformers; crystal filter and automatic volume control. 10 metal tubes and one electron-ray tube.
 3 RCA-6K7 r-f and i-f amplifiers; 2 RCA-6J7 oscillators; 1 RCA-6L7 first detector; 1 RCA-6H6 second detector and A.V.C.; 1 RCA-6F5 first audio; 1 RCA-6E6 audio output; 1 RCA-6E5 tuning and signal strength indicator; 1 RCA-5Z4 rectifier. All metal tubes except RCA-6E5, 8 in. dynamic speaker, crystal filter, Beat Osc., AVC and many other features. Model ACR-175. Net price.....\$119.50



Buy and build in easy stage—step by step. Start with a 40-watt unit and low-voltage power supply for CW operation. Add speech amplifier and power supply to make a 40-watt phone station, with simultaneous screen and plate modulation, giving a peak power of 160 watts. To increase power, add high-power R. F. amplifier and high-voltage power supply. This gives 500-watt CW transmitter. The same high-powered R. F. amplifier and high-voltage power supply, with the addition of the 200-watt modulator, gives a 400-watt plate modulated phone, with peak power of 650 watts. All Units Are Inter-connected by Plug-In Cables so Units Can Be Readily Removed from Rack.
 Complete construction data and diagrams..... \$0.15

Midget Condensers — Dials — Neons

HAMMARLUND "STAR" MIDGETS

Single hole mounting. 1/4 in. shaft. Low-loss bakelite insulation.

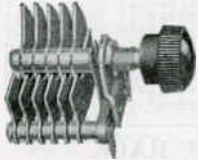
- SM15—3 plates, 15 mmf. . . . \$0.50
- SM25—5 plates, 25 mmf.50
- SM50—7 plates, 50 mmf.55
- SM100—13 plates, 100 mmf. . .60
- SM140—17 plates, 140 mmf. .75



NEW STAR DOUBLE SPACED MIDGET

Just the thing for neutralizing 210's or 50-watt amplifiers.

- SM35X—Maximum, 35 mmf.; minimum, 6 mmf. \$0.60
- SM50X—Maximum 50 mmf.; minimum, 9 mmf.75



See Hammarlund Isolantite Midgets on Page 101

"PILOT TYPE" MIDGET CONDENSERS

- J 5—.000015 mfd. 5 plate \$0.50
- J 7—.000025 mfd. 7 plate50
- J13—.00005 mfd. 13 plate55
- J23—.0001 mfd. 23 plate . .60
- J14—.00015 mfd. 23 plate66

Made by Federal Co. of Brooklyn, N. Y.



Same low prices.

PRECISION CONDENSERS

Just the right condensers for that S. W. you're building.

No. 533—150 mmf. \$0.75

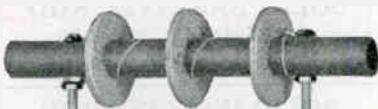
Two Gang

No. 538—150 mmf. Per section 1.85



INSULATED FLEXIBLE COUPLER

Very Good Quality
Fits 1/4 in. shaft.
No. I 2101—\$0.19



UTILITY CHOKES

- For the XMTG Ham.
- Type B—200 mils., 1.75 M. H., dist. cap. less than 1 1/2 mmf. Very low DC resistance. \$0.75
- Type A—1000 mils., 1.95 M. H., dist. cap. less than 1 1/2 mmf. Very low DC resistance. \$0.90

GLOW LAMPS

NEON

Genuine G. E.

Every amateur needs one. Used for indicating R. F. feed backs and peaks in feeders. Three sizes.

- | | Each |
|-----------------------------|--------|
| No. GE 25—1/4 watt. | \$0.40 |
| No. GE 50—1/2 watt. | .40 |
| No. GE100—1 watt. | .40 |
| No. GE200—2 watt. | .50 |
| No. GE300—3 watt. | .55 |

E. F. JOHNSON INDICATOR

Molded bakelite handle, 1/4 in. shaft fitting 4 in. diameter scale.

No. 204 \$0.60

No. 206

Same as No. 204 except scale is 6 in. diameter.

No. 206 \$0.75



KURZ KASCH BAKELITE DIAL

- No. S567—4 in. An old favorite with all hams. Center knob screws off—set screw is covered. No. R. F. burns.
- 100 to 0 \$0.25
- No. S529—Same in 3 in.20
- No. S505—2 in. 100-0 270°15



BAKELITE VERNIER DIAL

3 3/4 in. high by 3 in. wide. Easy to install. No gears to strip. Scale 0 to 100 and 100 to 0.

- No. E599-B—Black \$0.45
- No. E599W—Brown49

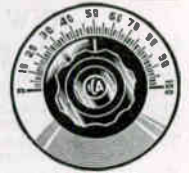


CHROME SILVER DIALS

Satin finish with black etched markings. Large bakelite flange knob, easy to grip.

BRASS-BLACK SATIN FINISH DIALS

Satin black finish with etched silver markings. Bar knob.



Silver

No.	Dia. of Dial	In.	Calib.	Price
2284	2	180°	0-100	\$0.54
2285	2	325°	0-100	.54
2290	2 1/2	180°	0-100	.78
2291	3 1/4	325°	0-100	.78
2292	4	180°	0-100	.96
2293	4	325°	0-100	.96

Black

No.	Dia. of Dial	In.	Calib.	Price
2220	2	180°	0-100	\$0.27
2219	2	325°	100-0	.27
2218	2	325°	0-100	.27
2216	3 1/4	180°	0-100	.36
2215	3 1/4	180°	100-0	.36
2214	3 1/4	325°	0-100	.36



FINGER GRIP BAKELITE KNOBS

Large flange type is illustrated. Very fine for transmitters and amplifiers.

With Metal Pointer

- No. 1166—1 1/4 in. \$0.24
- No. 1168—1 1/2 in.30
- No. 1170—2 3/4 in.36
- No. 1172—With flange 3 in.39

No Pointer

- No. 1165—1 1/4 in. \$0.18
- No. 1167—1 1/2 in.24
- No. 1169—2 3/4 in.30
- No. 1171—With flange, 2 in.30

DIAL MARKER

With self-tapping screws. Silver finish.
No. 2191—For 325° dials.
No. 2192—For 180° dials.
Each \$0.15



NEON TATTELITES



Protect meters, transformers, condensers, rectifiers against lightning surges. Effective in locating blown fuses, defective resistors, condensers. Indicate resonance peaks. Glow brilliantly when operated. Life range is from 1,000 to 5,000 hours.

Cat. No.	Rating Volts	Price	Description	Max.		
				Ext. Current DC	Volts **DC	Series Resist. Built in
5076	100	\$0.60	Copy A	85	3	30,000
5078	500	1.20	Copy C	200	10	30,000
5079	1,000	1.80	Copy D	300	15	50,000
5080	2,000	2.40	Copy E	450	15	120,000

DESCRIPTION

Copy A: For general test purposes. Has blind lead for shorting out built-in resistor. Size 1 1/4 in. by 1/4 in. diameter. 6 in. insulated leads. No sec. electrodes.

Copy C: Protection and circuit applications. Size 5 in. by 1/2 in. diameter. Sec. electrode connected by 6 in. pigtail on ends.

Copy D: Protection and circuit applications. Size 8 in. by 1/2 in. diameter. Sec. electrode connected by 6 in. pigtail on ends.

Copy E: Protection and circuit applications. Size 9 in. by 1/2 in. diameter. Sec. electrode connected by 6 in. pigtail on ends.

**AC 100% higher (double).

"MID-AMERICAN" CONVENTION

Scheduled Lowry Hotel, St. Paul. June 21, 22, 23. Be sure to attend!

DEDUCT 2% FOR CASH WITH ORDER

CRYSTALS - BAKELITE - RESISTORS



BLILEY CRYSTALS AND HOLDERS

New Low Prices!

NEW LOW-DRIFT CRYSTALS

Oven equipment is not necessary as the frequency drift is guaranteed less than 8 cycles which is two-thirds less than that of an X-cut. Guaranteed 0.03% accurate calibration. Frequency engraved on each name plate. Greater output—excellent for Tri-tets. Choice of 40, 80 and 160 meter bands. Type LD-2—In special holder.....\$4.80
 Type HF-2—14,000 to 14,400 within 15 Kc..... 6.50
 Within 5 Kc..... 10.00
 Type HF-2—14,400 to 15,000 within 30 Kc..... 6.50
 Within 5 Kc..... 15.00

BLILEY X-CUT MOUNTED CRYSTALS

Type BC-3—Are power-type, larger, X-cut. In special holders. Supplied to specified frequencies within
 Mc. Band 10 Kc. 5 Kc. 1 Kc. Exact F.
 7.0, 3.5.....\$3.95 \$4.90 \$5.90 \$7.50

We carry a large stock of both Bliley LD-2 and BC-3 crystals in stock and can usually come within 5 Kc. of the frequency you want. Exact frequencies in most cases will have to be ordered from the factory at exact frequency prices.

BLILEY CRYSTAL HOLDER

Bakelite, dustproof plug-in, 5-prong tube socket. Can be mounted in any position. BC2-8.....\$1.00
 With GR plugs..... 1.50
 For 40-meter Xtals, BC2-4..... 1.00



W9FBU JOHN VESEL W9FBU VESEL'S VALUE-PLUS BT-CUT CRYSTALS

John has been turning out the very best quality BT-Cut Crystals for the past six months. You will find them very stable in operation with practically no frequency drift and extra powerful in output. Vesel's Value-Plus Crystals are the most widely used in the Northwest—they satisfy 100% or your money refunded. Most of you know good ol' John, the Swiss watchmaker at Greenwood, Wis., as he is one of the best phone Hams on the air. John has been grinding crystals for years and you will like his product.

Vesel's Value-Plus BT-Cut Crystals in 160 or 80 meter bands, within 10 Kc. of your specified frequency. Crystal only, no holder.....\$2.65
 Can be furnished at exact frequency for 25% increased price. We carry a large stock and can usually come within 5 Kc. of your desired frequency.

NEW 40-METER BT CUT CRYSTALS

Very low drift and accurately calibrated. These new 40-meter crystals carry the same unconditional guarantee as John's 80 and 160-meter crystals with which you are so familiar. Net price, crystal only.....\$3.50

OMAHA CRYSTAL LABORATORIES X CUT CRYSTALS

For 40 meters. Each.....\$1.85

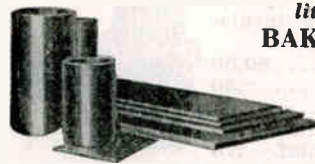
Omaha crystals are made from only the very best grade of Brazilian quartz, which have been critically inspected and thoroughly tested before cutting. Each crystal is individually tested and accurately calibrated before shipping.

Each crystal carries an unconditional guarantee of satisfaction. If for any reason a particular frequency ordered is not entirely satisfactory, if returned within 30 days, we will exchange the crystal for one of another frequency.

Many amateurs have found it necessary to struggle along with only one crystal due to the relative high cost of each unit, with the result that they frequently are unable to get out with their transmitters due to excessive QRM on their frequency.

With this thought in mind we offer you a quality crystal, that is being supplied at a moderate price.

Specify frequency and allowances plus and minus when ordering. These crystals are accurately calibrated but we obviously cannot supply exact frequencies at these low prices.



We carry a full stock of bakelite, rods and tubing.
BAKELITE PANELS
 Black only

No.	Size	Price	No.	Size	Price
832.....	7x10x 1/4 in.....	\$0.65	842.....	7x10x3/16 in.....	\$0.95
833.....	7x12x 1/4 in.....	.75	843.....	7x12x3/16 in.....	1.15
834.....	7x14x 1/4 in.....	.90	844.....	7x14x3/16 in.....	1.35
835.....	7x18x 1/4 in.....	1.15	845.....	7x18x3/16 in.....	1.75
836.....	7x21x 1/4 in.....	1.35	846.....	7x21x3/16 in.....	2.00
837.....	7x24x 1/4 in.....	1.60	847.....	7x24x3/16 in.....	2.25
860.....	10x12x 1/4 in.....	1.15	863.....	10x12x3/16 in.....	1.74
861.....	10x18x 1/4 in.....	1.55	864.....	10x18x3/16 in.....	2.34
862.....	10x24x 1/4 in.....	2.30	865.....	10x24x3/16 in.....	3.45

SPECIAL FOR W9LIP RACK

A special value-plus sales leader—10x21x3/16 in. black bakelite panel. Just right for our racks.....\$2.35

HARD RUBBER PANELS

Black only—3/16 in. thick

No.	Size	Price	No.	Size	Price
800.....	7x19 in.....	\$0.75	803.....	7x18 in.....	\$1.28
801.....	7x12 in.....	.84	804.....	7x21 in.....	1.50
802.....	7x14 in.....	1.02	805.....	7x24 in.....	1.71

BAKELITE TUBING

Black only—1/16 in. wall. O. D. size given

No.	Per Inch	No.	Per Inch
147—1 in.....	\$0.05	152—2 1/4 in.....	\$0.07
148—1 1/4 in.....	.05	153—2 1/2 in.....	.08
149—1 1/2 in.....	.06	154—2 3/4 in.....	.08
151—2 in.....	.06 1/2	155—3 in.....	.08 1/2

FENOLINE TUBING

Black only—1/16 in. wall. O. D. size given

No.	Per Inch	No.	Per Inch
134—1 in.....	\$0.03 1/2	139—2 1/4 in.....	\$0.05
135—1 1/4 in.....	.03 1/2	140—2 1/2 in.....	.06
136—1 1/2 in.....	.04	141—2 3/4 in.....	.06
138—2 in.....	.04 1/2	142—3 in.....	.06 1/2

SOLID BAKELITE ROD

Black only—Cat. No. I-175

1/4 in.—Per 6 in.....	\$0.25	Per ft.....	\$0.45
3/8 in.—Per 6 in.....	.35	Per ft.....	.65

SOLID INSULINE ROD

Black only—Cat. No. I-168

1/4 in.—Per 6 in.....	\$0.18	Per ft.....	\$0.35
-----------------------	--------	-------------	--------

NATIONAL CRYSTAL HOLDER

Mounts the crystal in a vertical position which permits it to vibrate freely. Plugs in 5-prong socket. Chrome finish shield over all. Crystals can be easily changed. Type CHT.....\$1.50



BUD HY-FREQ. CRYSTAL HOLDER

Recommended for use with crystals between 500 and 7,000 kc. Spring tension feature allows adjustment of pressure on crystal.

No. 763—With tube prongs.....\$0.90
 No. 762—With banana plugs..... 1.05



BLILEY NEW QSY (Variable Frequency) CRYSTALS

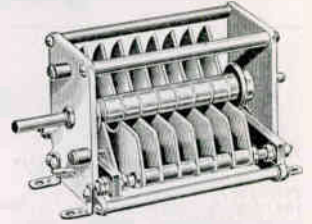
A few pertinent facts: (See Oct. QST 1936.)

- Same size and shape as LD2 unit.
 - Finger-tip frequency control.
 - Same stability as LD2 unit.
 - 4KC-QSY on fundamental.
 - 24KC variation at 20 meters.
 - Mount in any position.
 - Ideal for front of panel.
 - Can replace present plug-in holder.
- Furnished within 5 KC of frequency specified. (Remember they are calibrated at the minimum frequency.)

Type VF-1—80-meter band\$8.00

JOHNSON QUALITY PRODUCTS

New! *E. F. JOHNSON CO. Announces* **New!**
MYCALEX INSULATED TRANSMITTING
VARIABLE CONDENSERS



E. F. JOHNSON HI-Q TRANS-
MITTING INDUCTORS
 New Low Prices!



High electrical efficiency is secured by carefully proportioned dimensions, generous conductor size, and the elimination of all insulating material from the inside of the coil. Special edgewise-wound copper strip conductor makes a compact, rigid inductor. Inductance can be accurately adjusted by clip placement. Taps for coupling or bandswitching can be tried and changed quickly.

FEATURES:

Extra heavy plates—Mycalex insulation—laminated rotor brushes—shaft extended front and rear—insulated tie rods.

JOHNSON TYPE "D" TRANSMITTING CONDENSERS

Catalog Number		R. M. S. (2)		Capacity (2)		L Inches (3)	Price
		Plate Spacing	Volts Per Section	M. M. F. Max.	Per Section Min.		
50D35	Single	.080	3,500	46	20	2-15/16	\$ 3.90
100D35	Single	.080	3,500	100	23	2-15/16	4.35
150D35	Single	.080	3,500	145	27	2-15/16	4.80
250D35	Single	.080	3,500	250	34	4-5/16	5.70
350D35	Single	.080	3,500	350	40	5 1/2	6.60
500D35	Single	.080	3,500	500	53	6 3/8	7.95
50D70	Single	.175	7,000	50	25	2-15/16	4.50
100D70	Single	.175	7,000	100	31	4-5/16	5.70
150D70	Single	.175	7,000	150	40	6 1/2	6.90
250D70	Single	.175	7,000	250	55	9 1/2	9.30
350D70	Single	.175	7,000	350	70	12 3/4	11.85
50D90	Single	.250	9,000	50	27	4	5.40
100D90	Single	.250	9,000	100	39	6 3/8	6.60
150D90	Single	.250	9,000	150	50	9 1/2	7.80
250D90	Single	.250	9,000	250	76	15 3/8	10.20
100D135	Dual	.080	3,500	100	23	4 3/8	6.60
150D135	Dual	.080	3,500	150	27	5 1/4	7.50
200D135	Dual	.080	3,500	200	32	6 3/8	8.40
300D135	Dual	.080	3,500	300	42	9 1/2	10.20
70D170	Dual	.175	7,000	70	27	6 3/8	7.50
100D170	Dual	.175	7,000	100	30	8 3/8	8.85
150D170	Dual	.175	7,000	150	38	12	10.95
200D170	Dual	.175	7,000	200	45	15 3/8	13.20
50D190	Dual	.250	9,000	50	27	8 3/8	7.95
100D190	Dual	.250	9,000	100	39	14	10.35

TANK CIRCUIT COMBINATIONS

Amateur Band	Tuning Capacity (M.M.F.)		Johnson "HI-Q" Inductor No.
	Single Section	Dual Section*	
160 m. (1.715 mc.)	100	200	No. 620
	200	200	No. 622 2-No. 622
80 m. (3.5 mc.)	50	100	No. 624
	100	200	No. 626 2-No. 624 2-No. 626
40 m. (7.0 mc.)	25	50	No. 624
	50	100	No. 626
20 m. (14 mc.)	120	240	No. 628
	120	120	2-No. 626 2-No. 628
20 m. (14 mc.)	15	30	No. 626
	30	60	No. 628 2-No. 628
20 m. (14 mc.)	30	30	No. 626
	60	60	No. 628 2-No. 628

*Capacity per Section.

JOHNSON TYPE "C" TRANSMITTING CONDENSERS

500C70	Single	.175	7,000	500	60	12 3/4	\$12.60
350C90	Single	.250	9,000	350	70	15 3/8	12.36
50C110	Single	.350	11,000	50	30	4 3/8	5.40
100C110	Single	.350	11,000	100	40	8 3/8	7.08
250C110	Single	.350	11,000	250	70	18 3/4	12.48
50C130	Single	.500	13,000	50	35	6-13/16	5.94
100C130	Single	.500	13,000	100	48	12 3/8	8.46
200C190	Dual	.250	9,000	200	45	18 1/4	15.18
50C110	Dual	.350	11,000	50	22	8 3/8	8.22
100C110	Dual	.350	11,000	100	30	15 3/8	11.58
50CW130	Dual	.500	13,000	50	29	12 3/8	9.33

JOHNSON SOCKETS

For Transmitters



No. 211 is for use with 50 and 75 watt tubes. Very sturdily built, strong positive contacts. No. 211—50 Watt Socket. Each..\$0.90

No. 210 is for use with type '10, 800, RK20, 825, 866, etc. A heavy duty junior model of No. 211. No. 210—UX Socket. Each\$0.60



250 WATT SOCKET



Glazed porcelain, plate terminal has safety cup. No. 215.....\$2.10

803—RK28 SOCKET

Same construction as No. 211 but has five contacts. No. 216.....\$1.50

JOHNSON HI-Q INDUCTORS

Type No.	Ind. (Mh.)	Band	Turns	Inside Diam.	Length	Net Price
620	.88	160	46	4 -in.	9 -in.	\$4.05
622	.44	160-80	33	3 1/4 -in.	6 1/2 -in.	3.09
624	.21	80-40	23	3 1/4 -in.	6 -in.	2.52
626	.10	40-20	18	2 1/2 -in.	5 -in.	2.10
628	.44	20	12	2 1/2 -in.	3 3/4 -in.	1.80
619	.2	Coupling	15	4 -in.	3 1/2 -in.	2.00
623	.8	Coupling	10	3 1/4 -in.	2 1/4 -in.	1.65
627	.26	Coupling	6	2 1/2 -in.	1 1/2 -in.	1.44

INDUCTANCE CLIPS

No. LC4—Inductor Clip. Clips are not included with "HI-Q" inductors and must be ordered separately. These are made of nickel-plated phosphor-bronze and have very low contact resistance. Price\$0.12

PI NETWORK INDUCTORS

No. 2202H1.3—Impedance-Matching Inductor. For balanced networks (two required for complete networks). Inductance 14 mch. Complete with three clips. Price..\$2.52
 No. 2403H1.3—Impedance-Matching Inductor. For unbalanced networks (one required). Inductance, 33 mch.\$3.60

JOHNSON HI-Q PLUG-IN INDUCTORS

Designed for use with 100 mmf. condenser. Plug-in mounting assembly designed to fit on 3 No. 40J and 2 No. 4576J insulators. All types 8 inches in length.
 No. 630—160 meters. Each\$4.98
 No. 632—80 meters. Each 3.75
 No. 634—40 meters. Each 3.30
 No. 636—20 meters. Each 3.06
 No. 638—10 meters. Each 2.88

DEDUCT 2% FOR CASH WITH ORDER

JOHNSON INSULATORS



No. 24 22-22J No. 20 No. 20J
"MICROMITE"
 Ten for\$0.42
 1 3/16-inch high (body 1/2-inch), 6-32 hdwe. Brown or white.
 No. 24—Each\$0.05

"TINY MITE"
 Ten for\$0.47
 1 3/8-inch high (body 1-inch), 8-32 hdwe. Brown or white.
 No. 22—Each\$0.05

"STANDARD"
 Ten for\$0.72
 2-inch high (body 1-9/16-inch), 10-32 hdwe. Brown or white.
 No. 20—Each\$0.08

"TINY MITE" WITH JACK
 Same as regular No. 22 except fitted with jack.
 No. 22J—Each\$0.08

"STANDARD" WITH JACK
 Size same as regular No. 20. Brown or white.
 No. 20J—Each\$0.09

"JUNIOR GIANT"
 3 3/8" high (body 2 3/4").
 Base is 1 7/8" square.
 1/4"-20 hdwe. is used.
 Brown or white.
 No. 62—Each...\$0.18



"GIANT"
 5 1/4" high (body 4 1/2"). Base 2 1/4" square.
 1/4"-20 hdwe. used. Brown or white.
 No. 60—Each \$0.39

NEW Metal Base STAND-OFFS

Eliminate breakage through use of steel base.

BEE-HIVE TYPE

New space-saving oval base. 1 1/2 ins. high—uses 10-32 hardware.

No. 65\$0.15
 No. 65J—Same as No. 65 except has No. 74 Jack\$0.18



Medium size stand-off. 2 3/4 ins. high—uses 3/4-20 hardware.
 No. 66\$0.24
 No. 66J—With No. 76 Jack\$0.39
 Large size stand-off. 4 1/2 ins. high—uses 1/2-20 hardware.
 No. 67\$0.36
 No. 67J—With No. 76 Jack\$0.51



No. 75 No. 74 No. 76 No. 77 No. 77A
 Johnson "banana-spring" Plugs and Jacks. Bright nickel plated.
 No. 74 Jack. "General Purpose." Height, 3/4 ins. Thread, 1/4-28.\$0.04
 No. 75 Plug. Fits No. 74 Jack. Height, 1 1/4 in. Thread, 6-32.\$0.04
 No. 75A. Same as No. 75 but has longer threads for GR forms, etc.\$0.04
 No. 76 Jack. "Jumbo" size. Height, 1 1/4 in. Thread, 3/4-24.\$0.15
 No. 77 Plug. Fits No. 76 Jack. Height, 1 3/4 in. Thread, 1/4-28.\$0.12
 No. 77A Plug. Same as No. 77, but with 10-32 machine screw for mounting on ceramic coil forms and similar applications\$0.15

No. 44 thru-panel stand-off. Body 5/8" above and 1/8" below panel. 6-32 hdwe. Mounts in 5/16" hole.
 No. 44—Each\$0.09
 2 for \$0.17



No. 42 thru-panel stand-off. Body 5/8" above and 3/8" below panel. 10-32 hdwe. Mounts in 7/16" hole.
 No. 42—Each\$0.12



No. 40 thru-panel stand-off. Body 1 1/4" above and 1/2" below panel. 10-32 hdwe. Mounts in 1/2" hole.
 No. 40—Each\$0.15

No. 42J jack type thru-panel stand-off. Same as No. 42 except with standard jack.
 No. 42J—Each\$0.15

No. 40J jack type thru-panel stand-off. Same as No. 40 except with standard jack fitting. G. R. Banana style plug.
 No. 40J—Each\$0.18

BEE-HIVE TYPE

Preferred by many.

Body 1 1/2 ins. above and 11/16" ins. below panel. 10-32 hardware—mounts in 9/16 in. hole.
 No. 45\$0.18
 No. 45J—Same as above with No. 74 Jack\$0.21



Medium large through-panel stand-off. Body 2 3/4 ins. above and 1 in. below panel. 1/4-20 hardware—mounts in 3/4-in. hole.
 No. 46\$0.33
 No. 46J—Same as No. 46 except has No. 76 Jack...\$0.48
 Large through-panel stand-off. Body 4 1/2 ins. above and 1 1/2 ins. below panel. 1/4-20 hardware—and mounts in 1 1/16-in. hole.
 No. 47\$0.48
 No. 47J—Same as No. 47 except has No. 76 Jack...\$0.63

"Spring-Sleeve" Type



No. 70 No. 71 No. 72 No. 73
 Johnson "Spring-Sleeve" Plugs and Jacks provide the lowest possible contact resistance, high current-carrying capacity and mechanical strength. Accurately machined of heavy solid brass. Bright nickel plated.
 No. 70 Jack. Large, heavy-duty type. Height, 1 1/2 ins. Mounting screw, 3/4-20\$0.21
 No. 71 Plug. Fits No. 70 Jack. Diameter, 3/8 ins. Thread, 1/4-28. Hole in end for soldered lead.\$0.07
 No. 72 Jack. Medium duty type. Height, 1 1/8 ins. Mounting screw, 10-32...\$0.12
 No. 73 Plug. Fits No. 72 Jack. Diameter, 1/4-in. Thread, 10-32. Hole for soldered lead. Fits inside 1/4-in. copper tubing\$0.04
 No. 73A. Same as No. 73 except has longer thread\$0.04

JOHNSON ANTENNA EQUIPMENT

Made of highly vitrified, glazed, Low Absorption porcelain suitable for R.F. and high voltage, low frequency insulation. All white glazed finish.

TRANSPPOSITION BLOCKS

Size 1 5/8" x 2 1/2"



For Doublet Antennas. Considered to be highest quality on the market.
 No. 31 Transposition blocks. Each\$0.08
 10 for\$0.70

FEEDER SPREADERS



6" long with grooves in ends for lead wires and holes for tie wires. Very good quality.

No. 132—2-inch. Each\$0.07
 No. 134—4-inch. Each\$0.09
 No. 136—6-inch. Each\$0.12

AIRPLANE STRAIN INSULATORS

Excellent for guy wire support. Least weight and less wind resistance. Very sturdy.
 No. 32 Strain Insulator. Each...\$0.05
 10 for \$0.40

"CRUCIFORM"

Strain Insulator. New—for Ultra H. F. work. Weighs less than 1 oz.
 No. 38\$0.09



ANTENNA INSULATORS

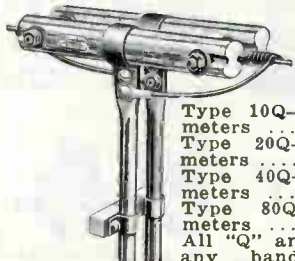
All 1" diameter. Will stand 1,500 pound pull without breaking.
 No. 107—Ant. Insulator. 7" long. Each\$0.42



No. 112—Ant. Insulator. 12" long. Each\$0.54
 No. 120—Ant. Insulator. 20" long. Each\$0.90
 (Not illustrated)

JOHNSON TYPE "Q"

Transmitting Antenna Systems



Type 10Q—for 10 meters\$3.75
 Type 20Q—for 20 meters\$5.90
 Type 40Q—for 40 meters\$10.50
 Type 80Q—for 80 meters\$19.65
 All "Q" antennas—any band—come complete except for end insulators and wire for transmission line. Complete instructions included.

Write for special Johnson Technical Bulletin on the "Q" Antenna Systems. If you want the best, the Johnson "Q" is it.

TRANSMITTING COIL FORMS

GENERAL RADIO

TYPE 677 TRANSMITTER COIL FORM

This form is used in oscillators and power amplifiers in low and medium power transmitters. It is of impregnated moulded porcelain having low losses, and moulded with six heavy ribs on which the coil is wound. The form is 2 1/2 inches outside diameter, 4 1/2 inches long and has 21 V-cut threads occupying a winding space of 3 ins. Any size wire up to No. 10 B&S gauge may be used. Spacers and plug-jack bases are available so that the coils may be plugged in to the circuit. The bases are supplied with seven plugs and seven jacks, allowing any combination of standard circuit to be used. Grid and plate or

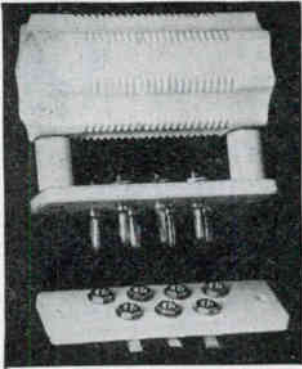


plate and antenna coils may be wound on one form for the higher frequency bands.

Transmitter Coil Form Assembly. Complete.....\$2.30

Type	Description	Price
677-U	Coil Form.....	\$0.50
677-Y	80-160 meters.....	.30
677-PI	Coil Form Spacer (2 Required)...	.35 per pr.
678-P	Plug Base with 7 Type 274-P Plugs	.75
678-J	Jack Base with 7 Type 274-J Jacks	.70

ICA WOUND TRANSMITTING INDUCTANCES

These inductances are designed for use in amplifiers and transmitters, equipped with taps for neutralizing and antenna coupling coils. Precision winding with double silk covered wire. Forms are 2 1/4 in. diam. are 3 1/4 in. long, and are the 5-prong type. Designed for use with tuning condenser of 100 Mmfd. Wire size is No. 16 on 20, 40, 80 meter coils and No. 18 on 160 meter coils.



20 METER INDUCTANCE

Has 6 1/2 turns spaced 1/4 and tapped at 1 1/2 turns. Antenna coil 6 turns close wound. No. 12680.....\$1.20

40 METER INDUCTANCE

Has 12 1/2 turns spaced 1/4, tapped at 4 1/2 turns. Antenna coil 6 turns close wound. No. 12681.....\$1.20

80 METER INDUCTANCE

Has 20 1/2 turns close wound, tapped at 6 1/2 turns. Antenna coil 10 turns close wound. No. 12682.....\$1.20

160 METER INDUCTANCE

Has 42 1/2 turns close wound, tapped at 14 1/2 turns. Antenna coil 15 turns close wound. No. 12683.....\$1.20

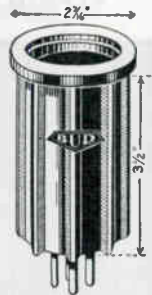
BUD "GIANT" PLUG-IN COIL FORM

Special low-loss tan colored bakelite. Size, body of coil form, is 2-7/16 inches in diameter and 3 3/4 inches long. Winding space, 3 1/2 inches. Eight ribs extend 1/4 inch out from body. Has moulded grip ridge.

No. B734—4-prong.....	\$0.36
No. B735—5-prong.....	.39
No. B736—6-prong.....	.42

Also furnished with ribs grooved 12 turns per inch, for space winding.

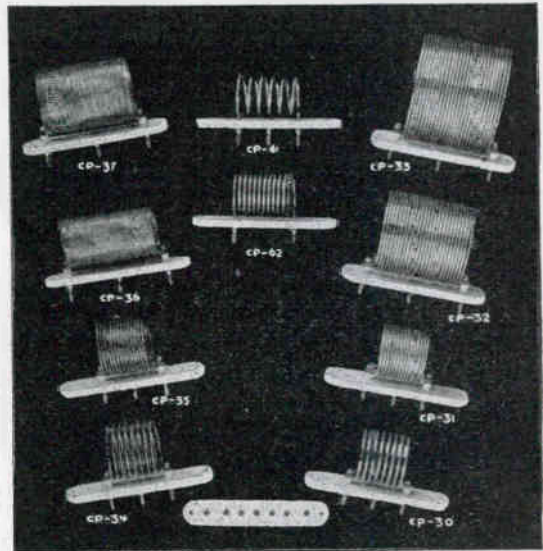
No. B1221—4-prong.....	\$0.50
No. B1222—5-prong.....	.54
No. B1223—6-prong.....	.57



ICA INSULEX TRANSMITTING PLUG-IN COIL FORM

Size 2 1/4 x 4 inches high. Low dielectric and absorption losses. Ideal for H.F. work. Heavy ribs stand well out from body. No. 2660—7-prong, large.....\$0.75

NEW "LOCTURN" TRANSMITTING INDUCTANCES



"Locturn" self supporting coils produce the highest possible R.F. coil performance and efficiency. All have a "Q" over 350. Their much superior mechanical construction places "Locturn" coils far ahead of any product of their kind.

Characteristics and New Low Prices of "Locturn"

No.	Band	Wire Size	Mfg. Centers	Approx. Ind.	Tune with	Price
CP-30	20	No. 10	3"	3 mh	50 mmf	\$.85 ea. net
CP-31	40	10	3"	10 mh	50 mmf	1.25
CP-32	80	10	5"	50 mh	50 mmf	1.45
CP-33	160	10	5"	70 mh	100 mmf	1.90
CP-34	20	14	3"	3 mh	50 mmf	.70
CP-35	40	14	3"	10 mh	50 mmf	1.10
CP-36	80	14	5"	50 mh	50 mmf	1.30
CP-37	160	14	5"	70 mh	100 mmf	1.75
CP-61	10	.128"	3"	3 mh	50 mmf	Self support-
ing—\$.85 net						complete with lugs and hardware for mounting
CP-62	20	.128"	3"	1 mh	50 mmf	Self support-
ing—\$.85 net						complete with lugs and hardware for mounting

* Coils only.

VITROLEX FLUTED COIL FORM

No. CP-14—Here is probably the greatest value in a ceramic coil form of its size. Wound with No. 10 wire, its inductance is high enough to cover the 160 meter band in a high "C" circuit. It is beautifully glazed with a special highly brilliant glaze, is mechanically rugged, drilled with plenty of large holes for taps, for conveniently ending coil wire and mounting.

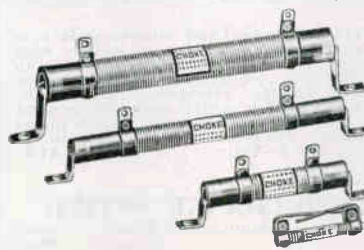


The coil form is 5 in. long by 2 1/2 in. diameter and is threaded for 30 turns. Price, net.....\$0.60

No. CP-52—Threaded for 23 turns for wire size up to No. 10 with holes every other turn. Specifications: Outside diameter, 3 3/4 in.; length 6 1/2 in.; mounting centers, 5 1/4 in. Price, net.....\$1.25

OHMITE

SHORT-WAVE CHOKES



Z-1—5 meters.....	\$0.15
Z-2—10-20 meters.....	.45
Z-3—20-40 meters.....	.66
Z-4—40 to 160 meters.....	.90
All rated at 1,000 Ma.	

DEDUCT 2% FOR CASH WITH ORDER

COIL SETS - COIL FORMS - ACCESSORIES

ICA WOUND COIL SETS



Regular standard 2-circuit 4-prong coils. Primary and secondary on each coil. 15 to 200 meters with usual 140 or 150 mmf. S. W. condenser, 4-prong base, 4 coils to set.
 No. 1421B—S. W. Coil Set.....\$0.99
 Broadcast coils same as above but tune 100 to 550 meters with above size condenser, 2 coils to set.

No. 1430B—B. C. Coil Set.....\$0.90
 No. 1440B—Ultra S. W. Coil. Same as above, covers 9.5 to 21 meters.....\$0.40

Regular standard 2-circuit 5-prong coils. Primary and secondary on each coil same as 1421B but 5-prong base interchangeable with band-spread coils. 5-prong base, 4 coils to set.
 No. 1437—S. W. Coil Set.....\$1.50



BAND-SPREAD WOUND COILS, FIVE-PRONG
 Band-spread coils with low-loss ceramic padding condenser mounted on each coil. Spreads all ham bands for convenient tuning with usual 140 or 150 mmf. condenser, 5-prong base. No. 1433—20-40-80-160. For amateur bands. Set of 4 coils \$2.10. Any single coil, any band.....\$0.54
BAND-SPREAD S. W. BROADCAST COILS, FIVE PRONGS
 No. 1434—19-25-31 and 49 meter bands. Set of 4 coils.....\$2.10
 Any single coil, any band.....\$0.54

Regular standard 3-circuit 6-prong coils. Primary and secondary and tickler on each coil. Tune 15 to 200 meters. Use 140 or 150 mmf. tuning condenser. Standard 6-prong forms, 4 coils to set.
 No. 1423B—S. W. Coil Set.....\$1.50
 Broadcast coils same as above but tune 100 to 550 meters. 6 prongs, 2 coils per set.
 No. 1424B—B. C. Coil Set.....\$1.10
 No. 1442B—Ultra S. W. coil covering 9.5 to 21 meters.....\$0.45



ICA SMALL RIBBED BAKELITE COIL SET

Tune 16 to 200 meters using 140, 150 mmf. condenser. 4 Prongs. 4 coils in set, labelled.
 No. 1471—S. W. Coil Set.....\$1.14
 No. 1472—Ultra S. W. Coil. 9.5 to 21 meters.....\$0.45
 No. 1473—Broadcast Coils. Set of 2. Tune 190 to 550 meters.....\$1.00



ICA 6-PRONG COIL SET

On large ribbed bakelite coil forms. 3 circuit—primary, secondary and tickler. Tune with 140, 150 mmf. condenser. 16 to 200 meters. Set of four coils.

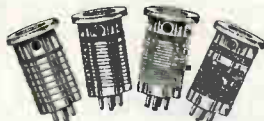
No. 1428—S. W. Coil Set.....\$1.95
 No. 1441—Ultra H.F. Coil. 9.5 to 21 meters... \$0.60
 No. 1429—Broadcast Coils. Set of 2. 190 to 550 meters.....\$1.35



ICA INSULEX COIL SET

6-prong, 3 circuit—primary, secondary and tickler. Tune with 140, 150 mmf. condenser. Range 16 to 200 meters. This is a very high quality set of 4 coils.

No. 965—S.W. Coil Set.....\$3.00
 No. 948—Ultra H.F. 9.5 to 21 Meter Coil.... \$0.90
 No. 966—Broadcast Coils. Set of 2.....\$1.80



TWO POLE BAND CHANGE SWITCH



This Vitrolex band change switch is a two pole six position device with flexible leads from switch blades to terminals. Shaft is insulated on a semi-floating Vitrolex central bushing. Switch units may be ganged and operated from a single metal shaft. Diameter of switch 2 3/4 in.
 No. CP-1—Price.....\$1.95

SINGLE POLE BAND CHANGE SWITCH

Size 1 1/2 in. x 2 1/4 in. All parts are mounted on glazed Vitrolex.
 No. CP-2—Price.....\$0.95

SMALL BAKELITE COIL FORMS

Genuine bakelite coil forms with color code ring—red, yellow, blue, green. Winding space, 1 1/4 x 2 1/8 inches.
 No. 1108B—4-prong.....\$0.12
 No. 1113B—6-prong.....\$0.12
 No. 1114B—6-prong.....\$0.12



NEW BAND-SPREADING COIL FORMS

Complete with quality ceramic padding condenser mounted on coil form top.
 No. 1463—Form with 80 mmf. condenser..\$0.27
 No. 1464—Form with 180 mmf. condenser.. \$0.27

ICA BAKELITE RIBBED LOW-LOSS COIL FORMS

Designed for easy grooving. Heavy thick ribs. Good for low power transmitters, oscillator and buffer coils. Size 3 5/8 x 1 1/8 inches. Colors: black, and brown.



No. 1051—4-prong.....\$0.18
 No. 1052—5-prong.....\$0.18
 No. 1053—6-prong.....\$0.21
 No. 1054—7-prong, large.....\$0.24

ICA SMALL RIBBED BAKELITE COIL FORM

Size 1 3/8 x 2 1/4 inches. Have rim on top. Recess in top for wave band labels and padding condensers.

No. 2158—4-prong.....\$0.12
 No. 2159—5-prong.....\$0.15
 No. 2160—6-prong.....\$0.15



ICA INSULEX COIL FORMS

Insulex is a non-hygroscopic ceramic compound, having very good low-loss qualities. Beautiful in appearance, these coils are slotted to eliminate necessity of drilling. Size 3 5/8 x 1 1/8 inches.

No. 952—4 prong.....\$0.30
 No. 953—5 prong.....\$0.33
 No. 954—6 prong.....\$0.36
 No. 955—7 prong, large.....\$0.39



UTILITY COIL ASSEMBLY

No. CP-18—This convenient plug-in type coil form consists of an unglazed Vitrolex tube dipped in Q-Max No. 3. 1 in. C.D. x 3 1/4 in. long, with six holes drilled in line. It is supplied with two banana plugs mounted in place at the ends. Additional plugs may be added. Jack base provided is produced of Vitrolex and is supplied with two standard jacks. Additional jacks may be added if desired.
 Price complete, net.....\$0.95



VITROLEX UNIVERSAL COIL FORM



No. CP-15—This coil form is unique in that it provides notches for winding coils of 10, 20 or 33 turns. By loosening the screws in the ends of the transverse Vitrolex bars, notches are available for small diameter wire or as large as 5/16 in. diameter tubing. One face of the bars is smooth and when this surface is turned outward, hand spaced windings may be made. For either experimental inductor construction or for permanent use, this Vitrolex coil is an ideal unit insofar as simplicity, coil efficiency, form factor, loss and ease of either soldering or clipping on taps are concerned. Shipped knocked down. Assemble quickly and easily. Outside dimensions 6 1/4 in. long by 4 in. diameter.
 Price, net.....\$1.50

Transmitting Condensers... Fixed



Cornell-Dubilier—the safe, dependable condenser line since 1910. At these **NEW LOW PRICES** you can't afford to take chances on "bargains." Use C-D Condensers and be safe!

See the full line of Cornell-Dubilier Receiving Condensers on pages 12, 13, 14, 15. All types of electrolytic and paper condensers.



OIL FILLED TRANSMITTING TYPE FILTER CONDENSERS
Heavy Metal Case
Notice
Compact Sizes
Fully Guaranteed

Type	Cap.	Size	Working Voltage, 600 DC	Your Cost
TD6010	1	2 1/2 x 1-13/16 x 1-1/16	\$1.05	
TD6020	2	2 3/4 x 1-13/16 x 1-1/16	1.65	
TD6040	4	4 x 1-13/16 x 1-1/16	2.70	
Working Voltage, 1,000 DC				
TD10010	1	2 1/2 x 1-13/16 x 1-1/16	1.50	
TD10020	2	4 x 1-13/16 x 1-1/16	2.70	
TD10040	4	4 x 2 1/2 x 1 1/2	4.20	
Working Voltage, 1,500 DC				
TD15010	1	2 3/4 x 1-13/16 x 1-1/16	2.25	
TD15020	2	4 x 1-13/16 x 1-1/16	3.75	
TD15040	4	4 x 2 1/2 x 1 1/2	5.40	
Working Voltage, 2,000 DC				
TD20010	1	4 x 1-13/16 x 1-1/16	3.15	
TD20020	2	4 x 2 1/2 x 1 1/2	4.80	
TA20040	4	4-13/16 x 3 3/4 x 2 1/4	6.60	
Working Voltage, 2,500 DC				
TA25010	1	4 x 3 x 3 x 1 1/4	8.40	
TA25020	2	4 x 3 x 3 x 2 1/4	10.20	
TC25030	3	4 x 5 x 5 x 3 x 3	12.60	
Working Voltage, 3,000 DC				
TC30010	1	3 x 5 x 3 x 3 x 3	10.80	
TC30020	2	6 x 5 x 3 x 3 x 3	13.80	
TC30040	4	9 x 5 x 3 x 3 x 3	18.00	



OIL IMPREGNATED SPRAGUE SHORT WAVE H. F.

By-Pass Condensers. FB for by-pass, blocking and antenna coupling. Metal cased—non-inductive.

Cat. No.	Capac. Mfd.	Work'g Voltage	Dimensions Dia. L'th Inches	Your Price
SW-22	.002	1500	9/16x1- 9/16	\$0.27
SW-25	.005	1500	5/8x1-11/16	.42
SW-11	.01	1500	11/16x1-11/16	.47
SW-15	.05	1000	7/8x2 1/4	.48
SW-1	0.1	1000	7/8x2 1/4	.54



SANGAMO
Mica Condensers Are Accurate! Stay Accurate! Known for Quality!

TYPE A-10 1,000 Volts DC Test

Cap. Mfd.	Price
.0001	\$.024
.00025	.24
.0005	.24
.001	.50
.002	.30
.003	.30
.005	.42
.006	.51

TYPE A-25 2,500 Volts DC Test

Cap. Mfd.	Price
.0001	\$.042
.00025	.42
.0005	.42
.001	.54
.002	.81
.003	.93
.005	1.05
.006	1.05

TYPE A-50 5,000 Volts DC Test

Cap. Mfd.	Price
.0001	\$.054
.00025	.63
.0005	.75

TRANSMITTING MICA CONDENSERS

RATED + OR - 10%

1,000 Volts D.C. Test				2,500 Volts D.C. Test				5,000 Volts D.C. Test			
600 Volts D.C. Work.		Price		1,200 Volts D.C. Work.		Price		2,500 Volts D.C. Work.		Price	
Cap.	Mfd.	Type 4	Type 9	Cap.	Mfd.	Type 4	Type 9	Cap.	Mfd.	Type 4	Type 9
.00005	Mfd.	\$.021	\$.024	.00005	Mfd.	\$.036	\$.042	.00005	Mfd.	\$.042	\$.054
.00007	Mfd.	.21	.24	.00007	Mfd.	.36	.42	.00007	Mfd.	.42	.54
.0001	Mfd.	.21	.24	.0001	Mfd.	.36	.42	.0001	Mfd.	.42	.54
.0002	Mfd.	.21	.24	.0002	Mfd.	.36	.42	.0002	Mfd.	.42	.54
.00025	Mfd.	.21	.24	.00025	Mfd.	.36	.42	.00025	Mfd.	.42	.54
.0005	Mfd.	.21	.24	.0005	Mfd.	.36	.42	.0005	Mfd.	.42	.54
.001	Mfd.	.24	.30	.001	Mfd.	.45	.54	.001	Mfd.	.54	.63
.002	Mfd.	.27	.30	.002	Mfd.	.45	.54	.002	Mfd.	.54	.63
.003	Mfd.	.33	.36	.003	Mfd.	.57	.63	.003	Mfd.	.63	.75
.005	Mfd.	.33	.42	.005	Mfd.	.72	.93	.005	Mfd.	.75	.90
.006	Mfd.	.39	.51	.006	Mfd.	.90	1.05	.006	Mfd.	.90	1.05
.01	Mfd.	.48	...	.01	Mfd.	1.02	1.05	.01	Mfd.	1.35	1.35
.02	Mfd.	.72	...	.02	Mfd.	1.41	...	.02	Mfd.	1.35	1.95



Type 86

NEW! CORNELL-DUBILIER CERAMIC CASE—HIGH VOLTAGE

High Amperage Mica Capacitors

Type 86 Condensers are hermetically sealed—capacity remains constant. Recommended for amateur and broadcast station plate blocking, grid and tank condenser applications.

Cat. No.	Cap. Mfd.	Max. Volts	Max. Amps. at 80 Meters	Your Cost
45A-86	.00005	12,500	1.5	\$2.25
31A-86	.0001	12,500	3	2.25
325A-86	.00025	12,500	6	2.25
35A-86	.0005	12,500	8	2.55
21D-86	.001	3,500	8	2.25
21C-86	.001	7,000	10	2.55
21A-86	.001	12,500	11	3.00
22D-86	.002	3,500	9	2.55
22C-86	.002	7,000	10	3.15
22A-86	.002	12,500	13	3.90
23A-86	.003	12,500	13	4.80
25C-86	.005	7,000	12	4.20
25B-86	.005	10,000	14	5.70
11D-86	.01	3,500	14	4.20
11C-86	.01	7,000	15	5.70

Write for C-D Catalog on Other Type 86 Capacities.

CONCENTRIC TRANSMISSION LINE

Concentric transmission line is increasing in popularity in amateur radio. It provides a completely shielded line and is stable in operation under all climatic conditions. Low in impedance, concentric cable of this construction permits impedance matching with very desirable antenna networks.

Constructed of specially drawn copper tubing having an inside diameter of 5/16 in. and No. 12 hard drawn copper wire. The inner conductor is supported in the tube on Ultra Steatite spacers which are crimped in place on the wire. The inner conductor is thus held concentric with respect to the tubing throughout its length. The ends of the tubing are then sealed with sulphur.

Prices of Concentric Cable Complete

CP-70A—(10-ft. length.)	Net	3.50
CP-70B—(20-ft. length.)	Net	6.75
CP-70C—(25-ft. length.)	Net	8.25
CP-70D—(30-ft. length.)	Net	9.75
CP-70E—(40-ft. length.)	Net	13.00
CP-70F—(50-ft. length.)	Net	16.25
CP-71—Kit comprising 100 Ultra Steatite Spacers and crimping tool.	Net	1.70
CP-23—Ultra Steatite Spacers only.	Net per doz.	.15
	Net per 100.	.85



DEDUCT 2% FOR CASH WITH ORDER

TRANSMITTING KEYS...INSULATORS



SPEEDX KEYS

No. 301—Moulded bakelite base, coin silver contacts. Metal parts chrome plate. Each\$1.80

No. 303—Same as No. 301 except has 1/4 in. contacts. Each\$1.25

No. 321—Heavy-duty type, 1/4 in. coin silver contacts. All chrome plated....\$1.95

No. 320—Same as No. 321 except has black crinkle base\$1.80

No. 311—Standard key. Has provisions for plugging in Speed X Bugs. All chrome plated.....\$1.50

No. 310—Same as No. 311 except has black crinkle base\$1.35

No. 400—Constant frequency buzzer, bakelite top and base, adjustable, resist. 2 ohms\$0.65

No. 350—Bakelite replacement knob.....\$0.12

No. 450—Practice Set. No. 301 key and No. 400 buzzer mounted on base.....\$1.95

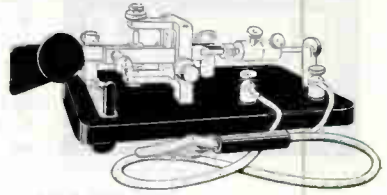
NEW SPEEDX "BUGS"

One of the finest automatic keys ever made.

Balanced to perfection and fully adjustable to give plenty of pep and life.

Fully Adjustable. Can be slowed down to eight words per minute or geared to as high a speed as desired. Standard construction throughout. Precision adjustment at all points. Solid 1/4 in. pure silver contacts. Heavy construction throughout. Will hold adjustment at ALL speeds.

No. 500—Black base \$6.90
No. 501—Chrome base 7.50



JUNIOR HI-SPEED KEY

The Junior No. 510 Key is a smaller model of the popular No. 500 HI-SPEED key. Fully adjustable to give plenty of PEP and LIFE. A favorite of the amateur who prizes his clean cut sending.

No. 510—Black base \$5.70

No. 511—Chrome base 6.30

Guarantee—Every SPEEDX Hi-Speed Key is manufactured to the highest standard of quality and is unconditionally GUARANTEED.

"SIGNAL" KEYS



NEW!
\$0.90

The new Signal Sales Leader. Heavy cast base, well insulated, black crackle finish, 1/4 in. coin silver contacts, nickel plated parts and compo. knob. A real value. No. R-50.....\$0.90

STANDARD TELEGRAPH TYPE KEY



The Key with the "Feel" Platinor contacts, rated at 1/4 Kw. Polished key lever and lacquered parts. No. R-48.....\$1.65

SIGNAL HEAVY DUTY KEY



All brass construction with lacquer finish. 1/4 in. coin silver contacts; navy type knob. No. R-63\$2.40
No. R-64—1/2 in. contacts 2.55

SIGNAL PRACTICE SETS



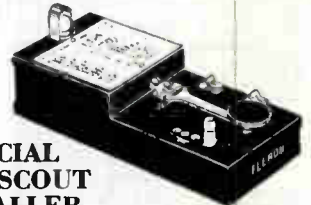
R-68—Set consists of a key and an adjustable high frequency buzzer on mahogany finished board on which code is printed. A quality set.....\$2.00

R-69—Code practice set. Consists of a key and a non-adjustable buzzer on a metal base on which the code is printed. Good quality. R-69.....\$1.05



Signal R-60—Hi-frequency buzzer. Adjustable. Resist. 2 ohms. \$0.85

OFFICIAL BOY SCOUT SIGNALLER



Radio-Blinker-Telegraph—Consists of high pitched buzzer, light blinker and telegraph sounder operated from two No. 2 Burgess flashlight cells. Code is printed on instrument. Sturdy all-metal construction. No. 1095—Without batteries....\$0.90

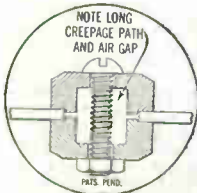
NAVY KNOB

You should have one on your key.

No. 360.....\$0.15

BUTT-INS

(BUTTON LEAD-INS)



This is one of the most convenient feed-thru insulators on the market. Although only 1/2 in. diameter they insulate for over 5000 volts at 60 cycles. Are better than porcelain and much more economical. Fit 7/16 in. hole; pass 6-32 screw.

CP-19—Per doz. net.....\$0.20
Nickel Plated Jacks for mounting on above, per doz. net.....\$0.75

UNIVERSAL PLUG AND JACK STRIPS FOR

"LOCTURN" COILS



CP-40—Plug Strip only, each net...\$0.48
CP-41—Five standard banana plugs, screws for plugs, screws for mounting coils, spacers, etc., net per set... .50
CP-42—Jack Strip only, each net... .48
CP-43—Five standard jacks, nuts and lugs for above, net per set... .40

VICTRON "G"

The Magic Insulator of Radio

Victron is one of the most remarkable organic substances yet contributed to radio. It is practically loss free, manifesting no more "response" to high frequency alternating current fields than fused quartz.

Victron may be used to advantage as a material for insulating condensers, switches, sockets, terminals, etc. It may be used to construct inductors which will not rise in temperature, due to dielectric power loss, will provide maximum "Q" and promote circuit performance. For 56 megacycle service or at the higher frequencies it is without equal in its field.

PRICES OF VICTRON G

Thickness	6" x 12"	6" x 6"	1" x 12"
3/16"	\$3.60	\$2.00	\$0.75
1/8"	2.50	1.35	.45
1/16"	1.40	.75	.25

CONDENSER INSULATION STRIPS

Size	Net Price Each
3/8" x 3/16" x 12"	\$0.35
1/2" x 1/4" x 12"	.60



DEDUCT 2% FOR CASH WITH ORDER

Heavy Duty
Custom Built

Taylor Tubes

"More Watts
per Dollar"

New!—T55

**168 Watts
Output
for Only**

\$8.00



Efficient on all frequencies up to 200 megacycles. Fil. 7.5 volts, 3.25 amps. Max. plate volts 1600 max. Plate current 150 M.A. Plate to grid 2.5 MMF. 66 watts plate dissipation.

756

40 watts plate dissipation — Fil. 7.5 volts—2.0 a m p s., max. plate volts 850 —max. plate current 110 M.A. An extremely efficient doubler or crystal osc. tube. Pair will deliver 100 watts audio in class B. A high mu. tube.

\$4.95



825

40 watts plate dissipation, Fil. 7.5 volts, 2.0 amps. max. plate volts 850, max. plate current 110 M.A. Efficient on 5 to 160 meters.

\$4.95

841A—\$7.00

60 watts plate dissipation. Efficient performance on all bands from 10 to 160 meters. Fil. 10 volts, 2 amps. Max. plate volts 1000. Max. plate current 150 M.A.



203A

\$12.50

**160 Watts Out-
put (Class C)**

100 watts plate dissipation. Efficient on 20-40-80-160 meters. Fil. 10 volts, 3 amps. Max. plate volts 1250. Max. plate current 175 M.A.

Hams who remember our former sales engineer Rex L. Munger (W9LIP) will be pleased to hear that he is now sales manager for Taylor tubes. "We Guarantee Em!" sez Rex.

Guarantee: All Taylor tubes are guaranteed against defective workmanship and material. Any tube which has failed due to mechanical or electrical defects will be replaced if returned direct to the factory.



**New! 814
400 Watts only
\$18.50**

200 watts plate dissipation. Efficient on all frequencies from 10 to 160 meters. Fil. 10 volts, 4 amps. Max. plate volts 2000. Max. plate current 300 M.A.

**600 Watts Audio (2 tubes)
822**

Same construction as 814. 200 watts plate dissipation. 600 watts audio in class B. Fil. 10 volts, 4 amps. Max. plate volts 2000. Max. plate current 300 M.A. Efficient on 10-20-40-80-160 meters. A super HD-203A.

Net Price \$18.50

**Taylor
866**

Half wave mercury vapor rectifier. Fil. 2.5 volts, 5 amps. Inverse peak 7500 volts. Inverse current 600 M.A. Multi strand filament construction.

\$1.65



**Taylor
866B**

Half wave mercury vapor rectifier. Fil. 6 volts, 5 amps. Inverse peak voltage 8500. Inverse peak current 1 amp.

\$3.00

New! T155

**450
Watts
Output
for Only
\$19.50**



The ideal high power ultra high frequency tube. Fil. 10 volts, 4 amps. Max. plate volts 3000. Max. plate current 200 ma. grid to plate; cap. 3 mmf. Easy to drive. 200 watts plate dissipation.

500 Watts on 5 Meters!

T200

Plate dissipation 200 watts. A high frequency tube for efficient operation on 2½ meters at full input. 600 watts output on 5 meters as a class C amplifier. Large carbon anode, grid leak at side. Plate lead at top.

\$21.50



HD203A—\$17.50

150 watts plate dissipation. Fil. 10 volts, 4 amps. Max. plate volts 2000. Max. plate current 250 M.A. A favorite with many amateurs.

Other TAYLOR Tubes

211—Same general characteristics as 203A except Mu. is lower.

\$12.50

211C—Same general characteristics as 211 except grid to plate capacity is 7 mmf.

\$12.50

F-52—Regular Carbon Anode 852 except has type 50 watt base.

\$15.00

203B

\$7.00

**200 Watts Audio
(2 tubes)**

200 watts audio in class B. Fil. 10 volts, 3.25 amps. Max. plate volts 1000. Max. plate current 175 M.A.



Write Us For TAYLOR Tubes Combined Catalog and Handbook

DEDUCT 2% FOR CASH WITH ORDER

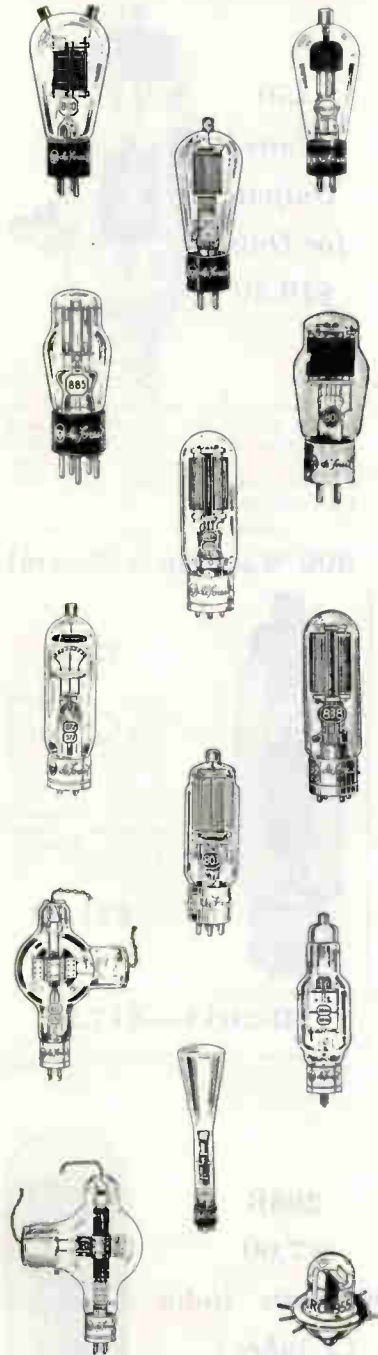


de Forest

AMATEUR RADIO TUBES

EXCLUSIVE RCA-DE FOREST TUBE DISTRIBUTORS IN THE NORTHWEST

We are very proud of our appointment as the exclusive distributor of this leading line of transmitting tubes in the Northwest, and we strive hard to merit the appointment by carrying a large stock, offering technical advice and by assisting our customers in every way possible. We stand back of the generous RCA-De Forest guarantee 100% at all times. Our slogan, "When you think of tubes—order from Lew Bonn Co., applies to the transmitting types also.



Type	Amateur's Net Price	AMATEUR TRANSMITTING TYPES DESCRIPTION	Electrodes	Max. Plate Dissipation Watts	Cathode Type	Cathode Volts
203-A	\$15.00	R-F Power Amplifier, Oscillator, Class B Modulator	3	100	Filament	10.0
204-A	97.50	Oscillator, R-F Power Amplifier, Class B Modulator	3	250	Filament	11.0
211	15.00	R-F Power Amplifier, Oscillator, A-F Power Amplifier, Modulator	3	100	Filament	10.0
800	10.00	R-F Power Amplifier, Oscillator, Class B Modulator	3	35	Filament	7.5
801	4.50	R-F and A-F Power Amplifier, Oscillator, Modulator	3	20	Filament	7.5
802	3.90	R-F Power Amplifier Pentode	5	10	Heater	6.3
803	38.50	R-F Power Amplifier Pentode	5	125	Filament	10.0
804	15.00	R-F Power Amplifier, Pentode	5	40	Filament	7.5
805	18.00	R-F Power Amplifier, Oscillator Class B Modulator, R-F Power Amplifier, Oscillator	3	125	Filament	10.0
830-B	10.00	Ultra-High Frequency R-F Power Amplifier, Oscillator, R-F Power Amplifier	3	60	Filament	10.0
831	\$265.00	Oscillator, R-F Power Amplifier	3	400	Filament	11.0
834	12.50	Oscillator	3	50	Filament	7.5
837	8.50	R-F Power Amplifier, Pentode	5	10	Heater	12.6
838	16.00	Class B Modulator, R-F Power Amplifier, Oscillator	3	100	Filament	10.0
840	6.00	R-F Pentode	5	—	Filament	2.0
841	3.25	R-F Power Amplifier, Oscillator, A-F Voltage Amplifier	3	15	Filament	7.5
842	3.25	A-F Power Amplifier, Modulator	3	15	Filament	7.5
843	12.50	Power Amplifier, Oscillator	3	15	Heater	2.5
844	18.00	Screen Grid R-F Power Amplifier	4	15	Heater	2.5
845	16.00	Modulator, A-F Power Amplifier	3	75	Filament	10.0
849	160.00	Modulator, A-F and R-F Power Amplifier, Oscillator	3	400	Filament	11.0
850	37.50	Screen Grid R-F Power Amplifier	4	100	Filament	10.0
851	350.00	Modulator, A-F and R-F Power Amplifier, Oscillator	3	750	Filament	11.0
852	16.40	Oscillator, R-F Power Amplifier	3	100	Filament	10.0
860	32.50	Screen Grid R-F Power Amplifier	4	100	Filament	10.0
861	\$295.00	Screen Grid R-F Power Amplifier	4	400	Filament	11.0
864	1.60	Amplifier (Low Microphonic Design)	3	—	Filament	1.1
865	12.75	Screen Grid R-F Power Amplifier	4	15	Filament	7.5
868	5.00	Phototube	2	—	—	—
917	6.00	Phototube (High Vacuum Type)	2	—	—	—
918	5.00	Phototube (High Sensitivity)	2	—	—	—
919	6.00	Photo Tube (Plate Lead out Top)	2	—	—	—
954	5.80	Detector, Amplifier Pentode (Acorn Type)	5	—	Heater	6.3
955	3.75	Amplifier, Detector, Oscillator (Acorn Type)	3	—	Heater	6.3
RECTIFIERS						
217-A	\$20.00	Half-Wave High-Vacuum	2	3,500	Filament	10.0
217-C	20.00	Half-Wave, High-Vacuum	2	7,500	Filament	10.0
866	1.75	Half-Wave, Mercury-Vapor	2	7,500	Filament	2.5
866-A	4.00	Half-Wave, Mercury-Vapor	2	10,000	Filament	2.5
872	14.00	Half-Wave, Mercury-Vapor	2	7,500	Filament	5.0
872-A	16.50	Half-Wave, Mercury-Vapor	2	10,000	Filament	5.0
878	11.00	Half-Wave, High-Vacuum for Cathode-Ray Tubes	2	20,000	Filament	2.5
879	3.00	Half-Wave, High-Vacuum for Cathode-Ray Tubes	2	7,500	Filament	2.5
885	2.00	Gas-Triode for Cathode-Ray Sweep-Circuit Control	3	300	Heater	2.5
CATHODE-RAY TUBES						
903	\$97.50	9-inch Electromagnetic Deflection, High-Vacuum	5	7,000	Heater	2.5
904	52.50	5 in., Electrostatic-Magnetic Deflection, High-Vacuum	5	4,600	Heater	2.5
905	45.00	5 in., Electrostatic Deflection, High-Vacuum	4	2,000	Heater	2.5
906	18.00	3 in., Electrostatic Deflection, High-Vacuum	4	1,200	Heater	2.5
907	48.75	5 in., Electrostatic Deflection, High-Vacuum, Short Persistence Screen	4	2,000	Heater	2.5
908	21.00	3 in., Electrostatic Deflection, High-Vacuum, Short Persistence Screen	4	1,200	Heater	2.5
909	49.00	5 in., Electrostatic Deflection, (Long Persistence Screen)	4	2,000	Heater	2.5
910	21.25	3 in., Electrostatic Deflection, (Long Persistence Screen)	4	1,200	Heater	2.5
911	22.50	3 in., Electrostatic Deflection, (With Non-Magnetic Gun)	4	1,200	Heater	2.5
991	.90	Neon Voltage Regulation	4	1,200	Heater	2.5

Prices subject to change without notice.

Complete Stock



de Forest

All the Time

NOTICE NEW LOW PRICES!

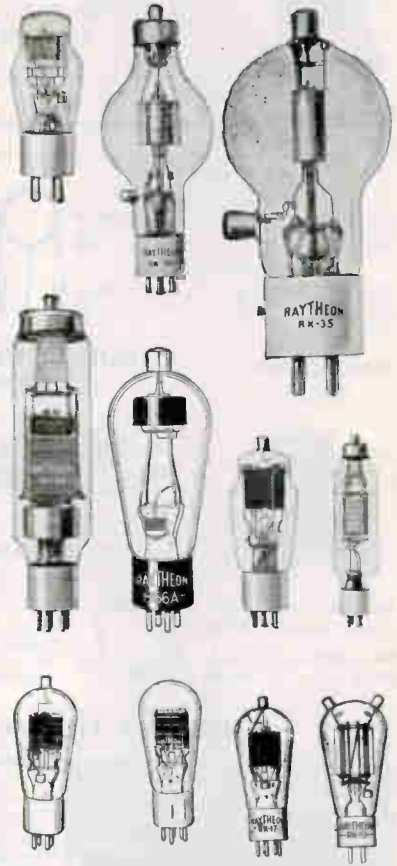
R. C. A. 866 \$ 1.75
R. C. A. 203A 15.00

**THE LEADER IN NEW
DESIGNS**

RAYTHEON
Thoroughly Guaranteed

**AMATEUR
TRANSMITTING TUBES**

Type No.	Fil. Volts	Nom. Watts Output	DESCRIPTION	NET
RK10	7.5	10	R. F. Oscillator and Amplifier, Class A or B Modulator	\$ 3.50
RK15	2.5	10	R. F. Amplifier Doubler, Zero Bias Class B Modulator	4.50
RK16	2.5	1.5	R. F. Amplifier, Class A Driver	4.50
RK17	2.5	10	R. F. Oscillator, Amplifier and Doubler Pentode	4.50
RK18	7.5	40	Class B Modulator, R. F. Oscillator and Amplifier	10.00
RK19	7.5		Full Wave, Vacuum Heater Type Rectifier	7.50
RK20	7.5	50	R. F. Osc., Amp., Doubler, Suppressor Modulation Pentode	15.00
RK21	2.5		Half Wave, Vacuum Heater Type Rectifier	5.00
RK22	2.5		Full Wave, Vacuum Heater Type Rectifier	7.50
RK23	2.5	15	Shielded Pentode R. F. Osc., Amp., Doubler	4.50
RK24	2.0	1.5	Triode Modulator, R. F. Oscillator, Amplifier	2.25
RK25	6.3	15	Pentode R. F. Oscillator, Amplifier and Doubler	4.50
RK28	10.0	100	High Output Pentode, any R. F. Service	38.50
RK29	10.0	100	Pentode Osc., Mod., R. F. Power Amp., Class B and C	38.50
RK30	7.5	65	High Frequency R. F. Oscillator and Amplifier	10.00
RK31	7.5	125	Zero Bias Class B Modulator	10.00
RK32	7.5	50	High Frequency Triode	12.00
RK34	6.3	20	Twin Triodes, High Freq. R. F. Osc., Amp.	3.50
RK35	7.5	61	Triode, Modulator, R. F. Amplifier, Oscillator	8.00
RK36	5	200	Triode, Modulator, R. F. Amplifier, Oscillator	14.50
RK100	6.3	15	Gaseous Discharge Amplifier	7.00
203A	10.0	100	R. F. Oscillator, Amplifier, Class B Mod.	17.50
841	7.5	13	Audio Amp., R. F. Osc., Amp., Doubler	3.25
842	7.5	7	Class "A" Amplifier Modulator	3.25
864	1.1	1	Non-Microphonic Triode Amplifier	1.00
866A	2.5		Half-Wave Mercury Vapor Rectifier	4.00
872A	5.0		Heavy Duty Half-Wave Mercury Vapor Rectifier	18.50



RAYTHEON AMATEUR TRANSMITTING TUBES

are ruggedly built to give excellent service and long life at full rated output. A type for every amateur need is offered in the list above. We recommend, unreservedly, the use of the **RK20** as a buffer or doubler tubes in medium and high power transmitters. Our experience has proven that the **RK20** is ideally suited for this purpose. The use of the **RK31** as Class B Modulators is also recommended. They are zero bias tubes giving 125 watts of audio in Class B and are just the ticket for modulating a single 03A. The **RK34** is also showing up well as a crystal oscillator tube. You can't beat Raytheon tubes for outstanding performance.

"EIMAC" TRANSMITTING TUBES

Operating with normal input Eimac Tubes are capable of far more output than is generally conceded possible in amateur practice. Plate efficiencies of as high as 75% and more are an everyday occurrence with Eimac tubes. It may be of interest to note that a pair of Eimac 300T's can give an antenna power of 2.5 KW! **IMPORTANT!** Eimac tubes should never be operated with less than rated fil. voltage and 1/2 to 3/4 volt too much is better than 1 volt too little!

WRITE FOR BULLETIN ON TYPE in which you are interested.

NEW EIMAC "35T"

PERFORMANCE!

Plate Voltage	Class "C" R.P. (75% eff.)	Class "13" Audio (2 tubes)
500 volts	38 watts	50 watts
750 volts	56 watts	85 watts
1000 volts	75 watts	115 watts
1250 volts	94 watts	130 watts
1500 volts	112 watts	140 watts
Net price	\$8.00	

The EIMAC "50T"

A medium mu three element tube. High output at audio and radio frequencies up to 75 MC. No "Getter" inside envelope to give off gas when heated. Unusually low plate resistance coupled with mu of 12 makes tube easy to drive to high power output and plate efficiency. Fil. volts 5, fl. cur. 6 amps. Rated, plate dissipation 50 watts; amp. factor 12, normal max. plate cur. 100 M.A. Base UX 4 pin. Max. plate volts, 3,000 V. \$13.50

EIMAC "150T"

A medium mu, three element vacuum tube for high efficiency and output, as oscillator or amplifier at audio and radio frequencies up to 75 MC. May be used at reduced output, up to 300 megacycles. No "Getter" inside envelope to give off gas when heated. Exclusive design insures high vacuum during tube life. Fil. volts 5, fil. cur. 10 amps. Rated plate dissipation 150 watts, amp. factor 13. Normal max. plate cur. 200 M.A. Base; stand 50 watt. Plate volts 3,000. Normal power output (Class C 75% eff.) 450 watts \$24.50

EIMAC "300T"

Operating with the normal maximum permissible input, the EIMAC 300T is capable of a radio frequency output in excess of 920 watts. This output is obtained at a readily obtained plate efficiency of 75%. Higher plate efficiencies will give correspondingly higher outputs. Filament Voltage (A.C.) 7 1/2 to 8 volts; Filament Current (approx.) 11 1/2 amps.; Amplification Factor (average) 16; Maximum Plate Voltage 3500 volts; Maximum Plate Current 350 amperes. Net price \$60.00

EIMAC "500T"

500 watts plate dissipation \$175.00



35T



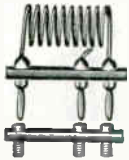
150T

DEDUCT 2% FOR CASH WITH ORDER

5 METERS
Transceivers
Coils—Kits

ULTRA HIGH FREQUENCY

10 METERS
Antennas
Inductors



5 METER PLUG, COIL AND JACK BASE

Micalex plug and jack base with mounted self-supporting coil.
No. 1006—Complete as shown.....\$0.51

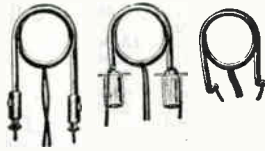
UNITY COUPLED

5 METER COILS

- No. 1011—Coil A.....\$0.78
- No. 1012—Coil B......66
- No. 1013—Coil C......48

10 METER COILS

- No. 1017—Coil A.....\$1.00
- No. 1018—Coil B......90
- No. 1019—Coil C......72



COILS FOR 5-METER TRANSCEIVERS

No. 1655—Kit of 5-meter coils. Includes 1 No. 1652, 1 No. 1653 and 1 No. 1654 as illustrated.

Complete.....\$1.35

5-METER COIL AND BASE

No. 1650—As illustrated, insulex base.....\$0.24
No. 1654—As illustrated above, two coils on one insulex base.....\$0.45
No. 1653—Special space-wound 5-meter choke.....\$0.36



Low Frequency Osc. Coil



No. 1652—As illustrated. Each...\$0.60
No. 1656—Shielded. Each.....\$0.75

BARR DB3 TRANSCEIVER

Class B Modulated

A complete, self-contained ultra H.F. radiotelephone transceiver that has proven to be one of the outstanding units on the market. Beautiful appearance. Output is 10 times more than that of units using only Type 30 tubes. Working range from 2 to 100 miles depending on conditions and elevation of locations. Size 11 in. long, 9 1/2 in. high and 6 1/2 in. wide. Black crackle finish metal case has heavy leather handle. Uses one 30, one 49 and one 19. Comes with complete instructions. Price does not include tubes, batteries, microphone or earphones.

No. DB3.....\$18.20



NEW RCA 5-METER TRANSCEIVER

A complete, readily portable 5-meter radiotelephone transceiver. Uses two 19, one 30 in a Class B circuit that gives maximum output with good quality. Strong, black crackle finish metal case, with heavy leather handle, carries all batteries. This new unit incorporates all the latest features and will give a very good account of itself in actual everyday use, as the workmanship is of the highest order and its construction is of the heavy duty type throughout. Requires three 45-volt "B's," one 7 1/2-volt "C" and two 1 1/2-volt "A" batteries. Comes with complete instructions. Less batteries, tubes, microphone and earphones.

No. ATR-219.....\$19.95



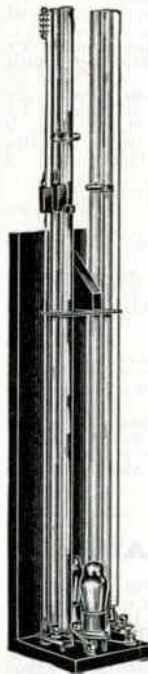
ARHCO DE LUXE RESONANT LINE OSCILLATOR KIT

Designed by Arthur H. Lynch
This kit will really put out a wallop on 5 meters. 1/4-inch diameter tubes plus high dielectric insulation results in a high "Q" circuit of great stability and high efficiency.

List of Individual Parts

We will be able to supply any of these parts on short notice but are keeping only the complete kits in stock.

- No. 1451—3 wooden components finished in black.....\$0.90
 - No. 1452—3 wooden components finished in natural color......60
 - No. 1453—National isolantite 4-prong socket......36
 - No. 1455—Insulated guide block, 4 1/2 x 5 x 1/2 inches......36
 - No. 146—Insulated binding posts......06
 - No. 1456—50 ohm center tapped resistance......21
 - No. 1457—10 watt, 10,000 ohm resistance......24
 - No. 1458—30 watt, 15,000 ohm variable resistor......57
 - No. 1459—1/4-inch diameter polished chromium plated copper rods..... 1.20
 - No. 1460—1/4-inch diameter bright polished copper rods......66
 - No. 1461—Tapered rod supporting insulator......09
 - No. 1462—2-foot length buss bar No. 14......05
 - No. 71—Feed through insulator......12
 - No. 1463—.002 Mfd. mica antenna condenser......15
 - No. 1464—National 2.5 mh. choke......45
 - No. 1465—Special shorting bar and insulating handle......36
 - No. 1466—Special antenna lead clips and insulated handle......30
 - No. 1467—4x4-inch corner bracket......12
- Can be used with such tubes as 36T, T55, 10, 45, 801, etc. 37 inches high.



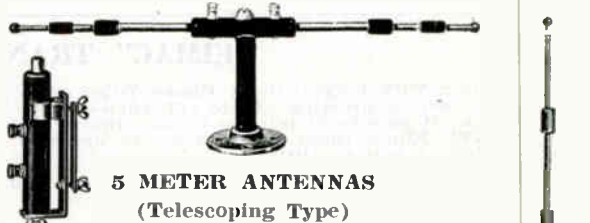
ARHCO STANDARD 5-METER KIT

Polished copper tubes, spring clip connectors, natural wood supports.
No. 1475—Standard.
\$8.10

ARHCO DE LUXE 5-METER KIT

Polished chrome plated tubes, binding post connectors, jet black wood supports.
No. 1450—De Luxe.
\$10.50

TELESCOPING ANTENNAS



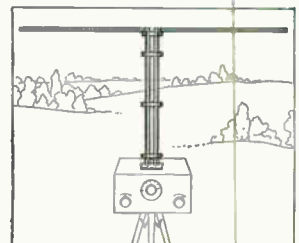
5 METER ANTENNAS (Telescoping Type)

- No. 10—1/4 wave vertical, 3-section with base.....\$0.90
- No. 11—1/4 wave vertical, 3-section, no base......60
- No. 7—1/2 wave vertical, 3-section with base..... 1.35
- No. 12—1/2 wave vertical, 3-section, no base..... 1.14
- No. 6—1/2 wave doublet, with base..... 2.40
- No. 14—1/2 wave doublet, no base..... 2.10
- No. 2570—Mounting clamp (Use with No. 11 or No. 12 antenna)..... 1.20
- "Bull Dog" screw type suction cups......09

JOHNSON 5-METER "Q" ANTENNA

An extremely efficient antenna for 5-meter Xmitrs. or receivers.
\$3.90

Complete with antenna and quarter-wave tubes and eight porcelain spacing bars. Write for bulletin on this if interested.



Relays - Insulators - Name Plates

STRUTHERS DUNN "DUNCO" RELAYS

This concern is a "specialist" in the manufacture of relays of all types and is one of the largest exclusive producers of relays in the world. All Dunco relays are thoroughly guaranteed.



ALL-PURPOSE RADIO RELAY

Compact size. Has two isolated contacts suitable for operation in high or low voltage circuits, all frequencies as well as 60 cycle or D.C. power circuits. Each contact can be operated separately. Very fine for "keying." Contacts will handle 1,000 volts D.C. at 300 M.A., 250 volts D.C. at 500 M.A., 110 volts A.C. at 6 amps, and 12 volts at 6 amps.

- No. RA1—2½ volts 60 cycle coil (power consumption of coil less than a type 27 tube).....\$2.00
- No. RD1—5 to 6 volts D.C. coil (power consumption of coil less than a type 37 tube)..... 2.00
- No. RA3—6.3 volts 60 cycle coil (power consumption of coil less than a type 76 tube)..... 2.00

DUNCO MIDGET KEYING RELAY

Suitable for speeds up to 50 w. p. m. Large silver contacts. Coil consumes 50 M.A. at 110 volts 60 cycles while contacts will interrupt currents of 6 amps. at 110 volts A.C. Contacts are single pole and close when coil is energized. Size 2½x1½x1 inches.



- No. ASBX1.....\$3.85
- OTHER DUNCO MIDGET RELAYS**
- No. ABTX1—S.P.D.T. Double break.....\$3.85
- No. ADBX1—D.P.S.T. Single break..... 4.95
- No. CSBX1—S.P.S.B. Double throw..... 4.70

DUNCO TIME DELAY RELAY

Comes with a snap-on housing that covers relay completely. This unit is suitable for use with transformers up to 500 watts condenser input or 1,000 watts choke input. Delays plate voltage for 30 seconds after 866 filaments are lit. Size 3x2½x2½ inches.

- No. TD-96\$8.80

DUNCO VACUUM TUBE RELAY

No. CXB61—Ultra sensitive, designed for D.C. in coil circuit or A.C. in contact circuit. Coil is 10,000 ohms and will carry 18 M.A. Adjustable. Contacts are rated 2 amps. at 110 volts A.C. Size 2½x2½x2 inches.....\$5.50

WARD LEONARD UNDERLOAD RELAY

Underload relay. For protection to Class B modulator tubes and transformers when Class C stage drops load due to loss of excitation. Adjustable.

- No. 507-514—Max. 300 M.A.....\$6.00
- No. 507-515—Max. 600 M.A..... 6.00

PYREX INSULATORS

Known the world over as the best form of "low-loss" insulators. They cost more because they really are much better than other insulators.



PYREX ANTENNA INSULATORS

- No. 67007—3½ in. long.....\$0.17
- No. 67017—7½ in. long..... .70
- No. 67021—12¼ in. long..... 2.10



PYREX

STAND-OFF INSULATORS OVAL BASE

- No. 67106—3 in. high.....\$1.55
 - No. 67107—7 in. high..... 1.75
- Size of base 3½x1½ inches.

PYREX AMATEUR ENTERING LEAD-IN INSULATORS

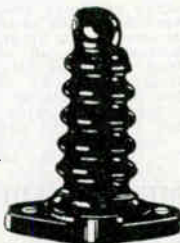
- No. 67104—15 in. long.....\$1.55
 - No. 67105—20 in. long..... 1.60
- 2½ in. diameter



BEEHIVE STAND-OFF

Brown or White

Body 1½ in. high, base 2 in. diameter. No. 1673A— Each\$0.09 Ten for \$0.85

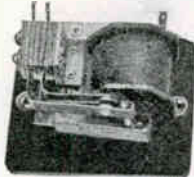


FLERON LEAD-IN INSULATOR

4 in. high, dark brown glazed porcelain. Very strong. Hole-in-top type. No. 14—Each\$0.15

GUARDIAN RELAYS

This is a new line of radio relays especially designed for amateur radio transmitters. They have proven to be very dependable in operation. 100% guaranteed.



MODEL K100 KEYING RELAY

A compact unit, operates from any filament winding from 5 to 16 volts A.C. or from any convenient D.C. source. Relay contacts. Keying contacts are pure silver and will handle up to 5,000 volts at highest possible rate of sending. The speed of this relay together with its strong magnet coil and return spring assure a clean make and break that makes copying easy. This relay may also be used for any circuit control where a single pole, single throw switch is needed.....\$3.30

GUARDIAN BREAK-IN RELAY

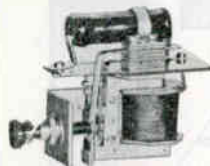
Essentially a double pole, double throw switch that is actuated by a control switch in 110 volts A.C. line supplying power to the coil. Is a necessity in remote control operation.



- No. B-100.....\$4.50

GUARDIAN OVERLOAD RELAYS

The best means of protection for tubes, transformers, condensers and meters. Can be mounted on front panel—push a button and circuit is closed. Three types.



- Model L-250—Will break at 250 M.A.\$4.50
- Model L-500—Will break at 500 M.A. 4.50
- Model X-100—Universal. Can be adjusted to break at any current from 150 to 500 M.A..... 7.20

CUTLER-HAMMER RELAYS

- No. CH381-O—S.P.S.T. Operates on 110 volts A.C. *Fine for keying. Open type.....\$3.30
- No. CH381-E—Same as above except completely cased..... 3.95



ANTENNA

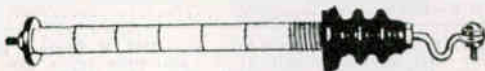
CLASS A MODULATOR

BAKELITE AND METAL NAME PLATES

For Transmitters and Amplifiers

Bradley bakelite name plates are engine engraved on 1/16 in. thick by ¾ in. wide, drilled, beveled and polished bakelite. Type NPB-5—As listed below. Each.....\$0.15 Bud name plates are made of high grade aluminum with raised polished letters on black satin finish. Type B1130 Series—As listed below. Each.....\$0.06

Oscillator	Beat Osc.	Transmitter	Modulator
Plate Volts	Receive	Amplifier	Plate
Microphone	Send-Receive	Plate Voltage	Modulator
Input	Plate	Off-On	Grid
Monitor	Power Amp.	Class "B"	Microphone
D.C. Volts	Neutralizer	Modulator	Current
Send	Fader	Grid Current	
Selector	Antenna	Ground	200 Ohm
Buffer	Key	Crystal Osc.	Input
Crystal Osc.	A.C. Input	Plate	200 Ohm
CW-Phone	Transceiver	Buffer Plate	Output
200 Ohm	A.C. Volts	Buffer Grid	500 Ohm
500 Ohm	Speech Amp.	Power Amp.	Input
Tone Control	Gain Control	Plate	500 Ohm
Fil. Volts	Tritet Osc.	Power Amp.	Output
Rectifier	Grid	Grid	
Output	Modulator	Screen Cur-	Radio
Freq. Meter	Doubler	rent	Record



FLERON LEAD-IN BUSHING

14 inches long—go through 10-inch wall. No. 9.....\$0.66

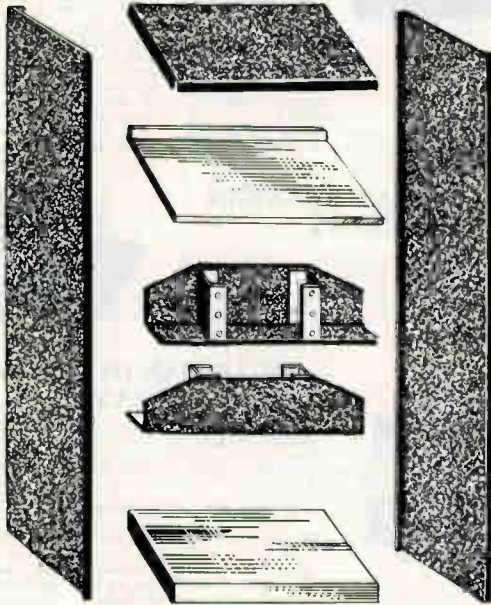
DEDUCT 2% FOR CASH WITH ORDER

METAL RACKS - CANS - PANELS

W9LIP SPECIAL

★ ★ ★ ★ TRANSMITTER RACKS

The phenomenal success of these racks, pioneered by W9LIP assure us of their continued acceptance. We guarantee that you will like them and know that when you dress up your rig to look like good old "W9LIP," you will be proud of it.



SIDE PIECES—These metal side pieces are the backbone of our whole rack and panel layouts. As shown in the illustration above these pieces have a bend outward in the front and inward in the rear. This permits the proper fastening of the panels in the front and mounting of any screen desired in the rear. The bend in the rear also will cover any wiring cables from view. These pieces are finished completely in black crystalline.

Cat. No.	H. D.	Thick.	Panel	Price Each	Cat. No.	H. D.	Thick.	Panel	Price Each
SP-A	60x14 in.	14 gauge	\$1.95	SP-EX	31x14 in.	18 gauge	\$0.90		
SP-B	60x11 in.	14 gauge	1.85	SP-E	31x11 in.	18 gauge	.75		
SP-C	48x14 in.	14 gauge	1.45	SP-F	21x11 in.	18 gauge	.40		
SP-D	48x11 in.	16 gauge	1.35						

TOP COVERS—Designed to correctly fit on top of the above sides, furnishing that "complete" appearance to the whole unit. Finished in black crystalline. Two sizes.

ST-G—20x14 in.\$0.80	ST-H—20x11 in.\$0.70
----------------	-------------	----------------	-------------

SHELVES—Made of 16 gauge leaded steel. By using these shelves, you get a perfect arrangement for chassis support as well as complete shielding between each chassis unit of your transmitter. These shelves have an upward bend extension in the rear and a down bend in front.

SS-I—12x19 1/2 in.\$0.55	SS-J—9 1/2 x 19 1/2 in.\$0.50
--------------------	-------------	-------------------------	-------------

CHASSIS—Two types. Aluminum and leaded steel. The aluminum chassis are recommended for R.F. units and the leaded steel for power supplies. Both are supplied in 16 gauge material and are 2 inches deep.

Steel		Aluminum	
SC-KS—12x19 1/2 in.	.....\$0.70	SC-KA—12 x 19 1/2 in.	.....\$1.25
SC-LS—9 1/2 x 19 1/2 in.	......55	SC-LA—9 1/2 x 19 1/2 in.	......95

BOTTOM SUPPORTS—Made of 14 gauge steel finished in black crystalline. They are constructed so that our side pieces fit right into them—making ideal supports for the whole completed transmitter. These supports are not necessary but go a long way in adding that "factory-built" appearance to the whole layout. They are 20 inches wide and 5 inches high.

No. SB-S—Each\$0.60
---------------	-------------

COMPLETE RACK—To introduce the W9LIP Special Racks, we offer this complete unit at a value-plus price. Includes two SPE—Side Pieces; one STH—Top; three SS-J Shelves; two SC-LA—Chassis; two SC-LS—Chassis; one 14x21 in. Panel and three 7x21 in. Panels. Everything necessary for the complete unit—all finished in black crystalline, at the sensational low price of only—No. SVP.....\$8.95

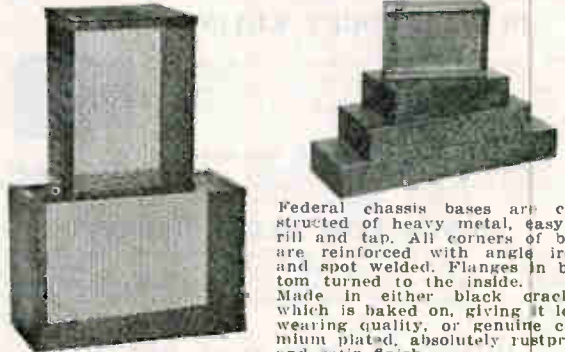
METAL PANELS

These panels are unfinished but can be supplied in black wrinkle at slightly higher cost. We considered this advisable so that drilling could be done without marring the finish. Send them to us for finishing after they are drilled. Our wrinkling service is very reasonable.

Size, In.	Leaded Steel	Price	Size, In.	Aluminum	Price
7x10	\$0.35	7x10	.....	\$0.50
7x1240	7x12	.....	.60
7x1447	7x14	.....	.75
7x1856	7x18	.....	.95
7x2170	7x21	.....	1.10
8x2180	8x21	.....	1.15
8x2190	8x21	.....	1.20
10x21	1.00	10x21	.....	1.25
12x21	1.15	12x21	.....	1.35

Made of 16 Gauge Material

NEW PRICES AND SIZES ON BLACK CRACKLE FINISH, CADMIUM PLATED AND CHROME PLATED CHASSIS



Federal chassis bases are constructed of heavy metal, easy to drill and tap. All corners of base are reinforced with angle irons and spot welded. Flanges in bottom turned to the inside. Made in either black crackle, which is baked on, giving it long wearing quality, or genuine cadmium plated, absolutely rustproof and satin finish.

BLACK CRACKEL			CADMIUM		
Chassis Size, Inches	Cat. No.	Net Price	Cat. No.	Net Price	Net Price
5 x 9 1/2 x 1 1/2	FC-105	\$.42	FC-605	.....	\$.45
5 x 9 1/2 x 2 1/2	FC-110	.45	FC-610	.....	.48
5 x 13 1/2 x 2 1/2	FC-130	.51	FC-630	.....	.66
7 x 9 x 2	FC-115	.51	FC-615	.....	.66
7 x 9 1/2 x 2 1/2	FC-120	.54	FC-620	.....	.69
7 x 11 x 2	FC-125	.57	FC-625	.....	.72
7 x 13 x 2	FC-135	.63	FC-635	.....	.75
7 x 12 x 3	FC-145	.66	FC-645	.....	.75
7 1/2 x 11 x 2 1/2	FC-155	.66	FC-655	.....	.84
7 x 17 x 2 1/2	FC-140	.75	FC-640	.....	.90
8 x 12 x 3 1/2	FC-150	.75	FC-650	.....	.90
10 x 12 x 3	FC-165	.84	FC-665	.....	1.02
10 x 17 x 3	FC-175	.96	FC-675	.....	1.20
9 x 16 x 2 3/4	FC-180	.99	FC-680	.....	1.50
11 x 17 x 3	FC-180	1.11	FC-660	.....	1.50
7 x 23 x 3	FC-185	1.14	FC-685	.....	1.71
10 x 23 x 3	FC-170	1.35	FC-670	.....	1.50
11 x 17 x 3 1/2	FC-190	1.11	FC-690	.....	1.50

CHROME PLATED CHASSIS

Chassis Size, Inches	Cat. No.	Net Price
7x10x3	FC-710	.....\$1.50
7x17x3	FC-720	.....1.95
8x12x3	FC-730	.....1.80
10x12x3	FC-740	.....1.95
11x17x3	FC-750	.....2.25

FEDERAL CHASSIS BASE

Perforated Black Crackle Finish Metal Covers Spot Welded and Edges Hemmed and Reinforced.

Chassis Size, Inches	Cat. No.	Net Price
5x 9 1/2 x 6	FK-210	.....\$0.99
7x 9 1/2 x 6	FK-220	.....1.11
5x13 1/2 x 6	FK-230	.....1.11
7x17 x 6	FK-240	.....1.35
8x12 x 6	FK-250	.....1.35
11x17 x 6	FK-260	.....1.41
10x23 x 6	FK-270	.....2.10

METAL CANS

Made of heavy leaded steel. All seams welded, sub-panels included. Finished in attractive black crystallized lacquer. Nice for S. W. receivers, monitors, frequency meters, portable XMTRS.

No. 1SPC—5x6x8 in.	.....\$0.90
No. 2SPC—7x9x9 in.	.....1.25

RECEIVER CABINETS

Made of heavy leaded steel with a very fine black crackle finish. Each cabinet has a hinged lid, removable bottom and an undrilled chassis that fits. All joints spot welded. Real quality at value-plus prices.

No. SPC-8—7 1/2 in. high, 9 in. deep, 11 in. wide	.....\$2.50
No. B870—7 in. high, 7 1/2 in. deep, 7 1/2 in. wide	.....1.80
No. B872—7 in. high, 7 1/2 in. deep, 14 in. wide	.....2.40



METAL CABINET FOR ALL-STAR SUPERS

Built especially for the All-Stars but will house any set mounted on 8x16 in. panel. Has hinged lid, black crackle finish. No. B1190—16 in. long, 8 in. high, 8 in. deep.....\$3.00

HEAD-PHONES—"SERV-U-FONES"

TRIMM Featherweight EARPHONES
The 4-oz. Comfortable Phones



The most sensitive and comfortable ear-phones ever made. For amateurs, hard-of-hearing, hospitals, etc. Shock-proof.
No. F-100—4,000 ohms\$6.00
No. F-106—24,000 ohms. Use these for utmost sensitivity..... 6.00

TRIMM SINGLE FEATHER-WEIGHTS

The finest phone made for theatres, churches, etc., available in either 1,000 or 2,000 ohms.
No. F101—Net price\$3.75



Trimm Lorgnette Handle Single Unit Earphone



14-in. handle (when extended).
No. 120—Net price\$1.05

TRIMM DEPENDABLE PHONES

Bakelite shell and cap, 2,000 ohms. No outside terminals.
No. 65
\$1.80



"REX" NEW LIGHT WEIGHT PHONES

New bi-pole construction with laminated magnet chrome steel shell with molded bakelite cap.
Double REX. 2,000 ohms..... \$1.95
Double REX. 20,000 ohms..... 2.10
Single REX. 1,000 ohms..... 1.20



ACME LIGHT-WEIGHT DE LUXE EARPHONES

New 1936 Type



Exceptionally efficient, small, low price head phones for amateurs or any other use requiring high grade, lightweight, comfortable head phones at low cost. Size 1 1/16 in. deep, 2 in. diameter. Weight, complete headset, 5 oz.

The new "De Luxe Type" have molded composition caps.
No. D2M—2,000 ohms.....\$1.35
No. D4M—4,000 ohms..... 1.50

With Metal Caps

No. A2M—2,000 ohms.....\$0.98

TRIMM OSCILLATOR

Bone conduction unit is of an exclusive design. Light, compact, having an extra lightweight head-band. Furnished from 1 to 2,000 ohms D.C. resistance. (State resistance desired.)
No. M207—Net price\$10.20



BRUSH CRYSTAL HEADPHONES Super-Sensitive High Fidelity Lightweight

Frequency response from 60 to 10,000 cycles. High impedance and great sensitivity permit them to be used from any source. Plate voltage must be fed by blocking condenser with current carried by a choke or resistor—10,000 to 100,000 ohms (not critical). Weigh only 6 oz. Different and better.
Type BAP..... \$5.40



SINGLE AND LORGNETTE TYPE A HEADSETS

No. BASP—Single Brush Crystal Phone with head band\$3.00
No. BALP—Single Brush Crystal Phone with lorgnette handle.....\$3.90

Double phone cord, 5 ft.



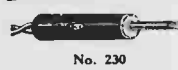
Good quality. No. 192.....\$0.24



Rubber cushions for earphones.
No. 195—Per pair\$0.45

PHONE PLUGS

Bud long handle type.
No. 230...\$0.24



No. 230



Carter flat type.
\$0.30

Eagle "Quick-Change" Type Plug.....\$0.15
Yaxley long handle type.
No. 75.....\$0.20

"SERV-U-FONES"

FOR HOMES—FACTORIES—WAREHOUSES—SCHOOLS—OFFICES—SUMMER RESORTS



For offices, factories and homes. Made by company with 40 years' experience in designing and constructing telephone systems. These phones are not designed for connection to public exchange systems. Real clear speech with good volume are obtained with Serv-U-Fones. Fully guaranteed.

TWO STATION SYSTEM (Green Label)

Two wires are required between phones and two dry cells at each telephone. Each telephone is furnished complete with terminal strip, 50 ft. of single conductor interior wire and full instructions.
No. RP126—Desk type. Each\$4.00
No. RP126—Wall type. Each 4.00



THREE STATION SYSTEM (Red Label)

The master station can selectively call either of the two outlying stations. The outlying stations can only signal central station and calls between outlying stations must pass through the central station. 4-wire line required. Complete instructions furnished.

No. RP127—Master Desk Phone.
Each\$6.00
No. RP133—Outlying Desk Phone.
Each\$1.35
No. RP132—Outlying Wall Phone.
Each\$4.35



Write for the complete Serv-U-Fone Catalog. Describes these systems and larger stations.

Serv-U-Fones have many fields of use. Sell them to offices, factories, homes, summer resorts, doctors' offices, schools. Serv-U-Fones offer profit opportunities to live-wire radiomen.

AMATEURS! Plan to Attend "Mid-American" and Dakota Division A.R.R.L. Convention in St. Paul, May 21, 22, 23, 1937.

SERVICE MEN!
Attend National Servicemen's Convention, Hotel Lowry, St. Paul—Date To Be Announced

DEDUCT 2% FOR CASH WITH ORDER

Pick-ups, Cutting Heads, Records



AUDAK NO. 100
Compact size. Weighs less than one-fifth of the average pick-up. Play up to 10-inch records. Good quality.

\$4.45

Specify high or low Impedance.

AUDAK NO. 433



Music Master

Very good quality. Play up to 10-inch records. Has rear balance. Suitable for playing 33 1/3 and 78 R.P.M. records....

\$5.60

Specify high or low Impedance.

AUDAK No. 2033 Music King



Extra good response — plays up to 12-inch records. Both fast and slow speeds

\$7.25

Specify high or low Impedance.

AUDAK NO. HR33



Has special needle ballast for obtaining maximum efficiency from slow-speed records. Plays up to 12-inch records—fast or slow. A very high quality instrument

\$9.85

For broadcast studios—AudaK Professional Model. Plays all types transcriptions. Extremely good frequency range. Each

\$26.50

UNIVERSAL STROBO-SCOPE

Shows when used under an AC light, the correct speed for any phonograph turntable. Calibrated for 33 1/3 and 78 R.P.M. Diameter 6 inches.....

\$0.15



Send for Universal Catalog if interested in recording.

ASTATIC CRYSTAL PICK-UP

Model S

Very good response from 30 to 10,000 cycles. High impedance (100,000 ohms). Only 2 1/2-oz. pressure on needle point. Non-resonant. This is an extremely high quality pick-up. Two lengths.

Model S-8—8-in. arm..... **\$7.20**

Model S-12—12-in. arm..... **9.00**



AN EXTREMELY HIGH QUALITY LINE OF PICK-UPS AT LOW PRICES

Specify whether you want low or high impedance

No. V-8-S—8 3/4-inch arm overall. Volume control type less weight. Complete with springs for both 33 1/3 and 78 R.P.M. recordings

\$4.50

No. V-W-11—11 1/4-inch arm overall. Volume control type with weight for 33 1/3 and 78 R.P.M. recordings..

\$5.40

No. V-11-S—11 1/4-inch arm overall. With volume control. 78 and 33 1/3 R.P.M.

\$4.50

No. 11-S—11 1/4-inch arm overall. No volume control. 78 and 33 1/3 R.P.M.

\$4.00

Pick-up heads only.....

2.50

No. R. W.—Recording Weight.....

.70

No. P-W-15—Theatre pick-up arm—15 1/2 inches overall. For both 33 1/3 and 78 R.P.M., no volume control.....

\$5.80



UNIVERSAL FULL FREQUENCY PICK-UP



A high class pick-up for play-back of all types of instantaneous records—especially aluminum, silveroid, etc. Particularly good for transcription work. Should not be used as recorder. Matches input of standard mike transformers—400 ohms. Other inputs on special order. Plays both 78 and 33 1/3 R.P.M.

No. UFP

\$9.00

UNIVERSAL CUTTING HEAD AND ARM



A scientific recording head capable of cutting or grooving all types of material. Size but 2 1/2 in. high x 1 in. wide x 3/8 in. thick. Response to input frequency substantially flat from 30 to 8,000 cycles. Furnished in either 15 or 50 or 200 or 400 ohm. Specify which wanted in ordering. Made primarily for use on Professional Recording Machine but is also sold separately for other installations.

Cutting head and arm

\$45.00

Cutting head only (shown at right)

\$35.00



PATENTED PROCESS ALUMINUM DISCS

Special alloy. Ready for use. Universal aluminum discs are of special alloy, hardness, and surface mirror polished to assure volume, brilliancy and durability with a minimum of surface noise. We recommend the use of cactus on these records.

EXTRA HEAVY ALUMINUM DISCS, EITHER BLANK OR PREGROOVED

(State which type desired when ordering)

No. UAR6—Extra heavy, 6 in.....

\$0.18

No. UAR8—Extra heavy, 8 in.....

.30

No. UAR10—Extra heavy, 10 in.....

.45

No. UAR12—Extra heavy, 12 in.....

.58

STANDARD WEIGHT DISCS (Blanks Only)

No. UA56—6 in.

\$0.15

No. UA58—8 in.

.21

No. UA510—10 in.

.29

No. UA512—12 in.

.35

SILVEROID RECORDS

The Silent Background Records

Equal to high grade commercial pressed records. Can be processed and any number of copies made. Use "D" cutting sapphires. For play-back use bamboo or cactus needles. Groove becomes smother with use. Supplied ungrooved only.

No. USR10—10 in.

\$0.73

No. USR12—12 in.

.90

UNIVERSAL MODEL 12 RECORDER



For up to 12-inch records. Has powerful motor. Weighted turntable, two speeds, 33 1/3 and 78 R.P.M., rubber mounted. Fitted with volume indicator, volume control, "off" and "on" switch, cuts eighty lines per inch. Fitted with Universal power head with 6-volt field. Complete instructions furnished.

No. U12

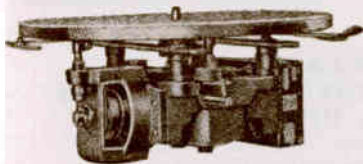
\$74.00

UNIVERSAL PROFESSIONAL RECORDER

Words in a small space cannot describe the wonderful features of Universal's Professional Recording Machine. Write for a catalog showing this unit in detail. Net price

\$335.00

Phono. Motors - Pick-ups - Needles



GREEN FLYER PHONO. MOTORS

Dual speed, 33 1/2 and 78 R.P.M. Governor controlled. Uniform speed. Smooth running induction motor. No brushes or commutator to create radio interference. Silent in operation. Ruggedly built. Heavy cast frame. Oversize self-lubricating bearings. Machined gears sealed in oil. Rubber floating suspension. Will not overheat in enclosed cabinet. For "long playing" or standard records. Mounts in 8 1/2 x 6 1/2 in. cut-out. Motor dimensions overall, 8 1/2 x 5 1/2 in. Suspends 3 1/2 inches below base board. For 105-120 volt, 60-cycle AC. Shipping weight, 16 pounds.

Model D-10—10-in. turntable.....\$9.60
 Model D-12—Complete with weighted 12-in. turntable which is essential for satisfactory reproduction of 33 1/2 R.P.M. records. Shipping weight, 17 pounds.....\$9.90

Single Speed 78 R.P.M.

Model A-10—Same construction as above. Furnished with 10-inch turntable. Automatic stop not included. Motor dimensions, 6 1/2 x 3 1/2 inches; suspends 3 inches below base board. For 105-120 volt, 60-cycle AC. Shipping weight, 13 pounds.....\$7.50

Single Speed 33 1/2 R.P.M.

Model B-12—Same construction and sizes as above. 12-in. turntable.....\$7.80

6-Volt DC. Type

Model 2664—Single speed, 78 R.P.M. 10-inch turntable. Operates from 6-volt storage battery at 2.8 amps. Shipping weight, 3 pounds.....\$12.60

Model 2671—33 1/2 and 78 R.P.M. 12-inch turntable. Otherwise same as Model 2264.....\$14.40

PACKARD AUTOMATIC RECORD CHANGER



Plays eight 10-inch records automatically on one side; 12-inch records manually. Two-speed motor, 33 1/2 and 78 R.P.M. Lever shifts speed quickly. Last record is repeated until turned off. Any record may be repeated or rejected. Governor controlled induction motor. Webster or astatic crystal pick-up. Built-in volume control. Requires space 18 inches long, 5 1/2 inches high and 13 1/2 inches wide. Weight, 26 pounds, 110 volt, 60-cycle. Model K—Less case.....\$28.35

Model L—Same as Model K but plays eight 10-inch or seven 12-inch records automatically. Requires space 22 1/2 inches long, 5 1/2 inches high and 16 1/2 inches wide. Model L.....\$33.00



UNIVERSAL RECORDING AND PLAYBACK QUALITY PHONO. NEEDLES

No. UA—For simultaneous grooving and recording on blank aluminum discs, should be used at 25° to 28° angle from vertical. Genuine sapphire.....\$2.40

No. UB—For both recording and playback on pregrooved discs such as black composition home recording discs, and pregrooved aluminum. Bent shank provides proper angle when used in 25° cutting head. Sapphire.....\$2.40

No. UD—Special cutting needle for silveroid and semi-plastic materials in which a fine thread is actually cut out of the material. Should be used at a 2° angle from vertical. Point of hardest sapphire. Insuring long life.....\$3.60

TRAILING SHOE NEEDLE—Used on playback of Silveroid, pre-grooved composition and cellulose records where angularity of head is less than 30 degrees. Envelopes of 10. Net.....\$0.50

SPECIAL ACETATE PLAYBACK NEEDLE—.004 radius at point. Red shank highly polished. Envelope of 10. Net.....\$0.15

No. UR10—Red Cactus Needle—the most durable non-metallic needle. Plays 5 to 15 records without repointing. Record groove actually improves each time used. Envelope of 10.....\$0.60

WRITE FOR SPECIAL TECHNICAL UNIVERSAL BULLETIN IF INTERESTED IN PROFESSIONAL RECORDING.

R.C.A.-VICTOR RECORD PLAYER

An inexpensive instrument built by R.C.A.-Victor. Makes an ideal record player for use in adapting radio sets to fine phonograph performance. May be used in conjunction with the R.C.A. RK24 Phonograph Oscillator, or may be directly connected to the radio receiver. In sets with low audio gain the Oscillator must be used. The ready portability of the R.C.A. Record Player also adapts it for effective use with portable AC. operated sound equipment.



PORTABLE—ELECTRIC OPERATED

The R.C.A. Record Player consists of an electrically driven, constant speed turntable capable of playing either ten or twelve-inch records, and a modern electrical pickup. Motor operates on 110 volt, 60-cycle current. A volume control extends out of one end of the case.

CAN BE USED WITH ANY RADIO RECEIVER

Sell extra entertainment profitably by means of the R.C.A.-Victor Phonograph Record Player. Easily connected to any radio receiver. Housed in an attractive walnut finish chest, only 10 1/2 x 8 x 5 inches.....\$10.90



R.C.A.-VICTOR ELECTRIC PHONOMOTOR & TURNTABLE NO. 9038 110 V.-60 CYCLE

A valuable unit in compact size. Hand starting. Synchronous motor. 7 ins. diameter, 2 1/2 ins. deep. Plays 10 or 12-in. records at standard speeds.....\$4.80

R.C.A.-VICTOR PICK-UP AND ARM

For use with R.C.A. turntable No. 9038 or any other small size turntable. Arm length 7 ins. This pick-up gives very good quality reproduction. Coil impedance, 2,500 ohms. 78 R.P.M. only. No. 6592.....\$3.00



R.C.A.-VICTOR 2-SPEED PICK-UP

A counter-balanced magnetic pick-up. Used in 1934 R.C.A.-Victor Model 331 Radio Phono. Combination. Has frequency response flat from 50 to 5,000 cycles at impedance of 25 ohms. The arm is counter-weighted for both the 33 1/2 and 78 R.P.M. records, and is mounted on a special rubber cushion. The complete assembly consists of Pick-up Head No. 6542, Pick-up Arm No. 6543 and Escutcheon No. 3779. No. R123P—Complete Assembly as listed above.....\$5.10
 No. 6542—Head only.....2.50



R.C.A.-VICTOR PHONO. NEEDLES

STEEL—3 sizes: Half Tone, Full Tone and Extra Loud Tone. 100 needles to envelope (except 75 in Half Tone). Per envelope.....\$0.10
 CHROMIUM—A new Victor development to fill the need of a sturdy, semi-permanent needle. Two types: One type (with green shank) for use with 78 R.P.M. records; the other type (with orange shank) for use with 33 1/2 R.P.M. records. 6 needles in container.....\$0.20
 TUNGSTONE—Semi-permanent needles. Two types: Full Tone and Extra Loud Tone. 8 needles in container.....\$0.20
 HOME RECORDING—For recording and reproducing R.C.A. home recording blanks. 8 needles in container.....\$0.20
 SHADOWGRAPH—A steel needle for use in theatres and broadcast stations. 100 for.....\$1.00

RCA PHONOGRAPH OSCILLATOR



A simple device for broadcasting records into your radio receiver. Excellent tone quality, easily and quickly installed and works perfectly with all pickups. Uses either 2A7 or 6A7 tube. Includes radio-record switch and special connectors for obtaining power. No. 9554—List price (less tube).....\$4.65

DEDUCT 2% FOR CASH WITH ORDER

**UNIVERSAL
CARBON MIKES**



**CRYSTAL MIKES
HAND MIKES**

UNIVERSAL



New Universal Model XX
Two-button; pure gold contacts, stretched duraluminum diaphragm, 200 ohms per button. Frequency range 100 to 4,000 cycles. Low hiss level\$6.00
Model X—Single button; no front bar, same features as Model XX \$4.50

UNIVERSAL MODEL BB

1935 Improved Type

Two-button; extra heavy 24-kt. gold spot, stretched duraluminum diaphragms. New super design. 3-inch dia. 2 ins. thick; weighs 1½ pounds. Frequency response increased. Now 50 to 5000 cycles. 200 ohms per button.\$15.00

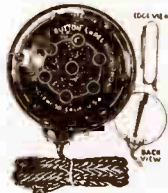


UNIVERSAL MODEL A

Heavy duty single button; 200 ohms. The Model A is furnished in the extra sensitive type and is wonderful for hard-of-hearing work\$9.00

UNIVERSAL LAPEL MIKE

Two-button; thin, compact, light weight. Real broadcast reproduction; very sensitive; 200 ohms per button. Furnished with long, small size leads—not a plaything. . . \$15.00



UNIVERSAL WATCH MODEL

Microphones

Small—Light—Sensitive



Model W—Single button; extra sensitive; good for detectaphone work, etc.\$1.80

UNIVERSAL HANDMIKES

Scientifically damped; built for rough, hard usage; good quality. Have "off and on" switch on handle. Equipped with 6-ft. cord. Single button ideal for announcing sports events, call systems, etc.\$6.00
Double button; damped for use close to loud speakers, sound trucks, etc. Very good quality\$9.00



NEW MODEL 5M
Improved

Here's the Unit you have wanted for your 5 and 10 meter portable transmitters and receivers. A good quality-button mike on one end and a sensitive ear phone on the other. French style. Equipped with a long 5-ft. cord.

- No. 5M-75S—Single button mike, 75-ohm phone.....\$6.00
- No. 5M-2000S—Single button mike, 2,000-ohm phone..... 6.00
- No. 5M-75D—Double button mike, 75-ohm phone..... 8.40
- No. 5M-2000D—Double button mike, 2,000-ohm phone.... 8.40

See 5-Meter Page in Amateur Section

ASTATIC

**THE NEW IMPROVED ASTATIC D104
CRYSTAL MICROPHONE**

*Acclaimed the Most Practical Microphone
Increased Frequency Response*

- No adjustment required.
- No carbon rush.
- No packing.
- No blasting.
- No freezing.
- No button current.
- No field current.
- No polarizing voltage.

Connects direct to grid or through matching transformers.
Only genuine Brush Bimorph crystals used, output level,—60 db.
Finished in chromium, 3 inches in diameter, 1 inch thick, 8-foot shielded cable\$13.50



The new, improved Astatic D104 is offered in a 2-wire shielded cable model for use with push-pull amplifiers, 25 feet of shielded cable furnished.
Model D104P—Net\$15.00

**ASTATIC D104HS HAND TYPE
CRYSTAL MICROPHONE**

Same microphone exactly as in the new, improved D104, with 8 feet of shielded cable.
D104HS—With handle switch..\$15.30
D104H—No switch 15.00



**ASTATIC HIGH FIDELITY
DUAL DIAPHRAGM CRYSTAL
MICROPHONE**

Designed so that the forces of two opposed diaphragms are applied to one crystal. Increased output, rated at 64 db. Frequency response is flat from 20 to 5,000 C. P. S. with a gradual rise to 10,000 C. P. S. Is absolutely non-directional. Comes equipped with substantial locking type plug-in socket, fully shielded. No input transformer needed—connects direct to grid of amplifier. This microphone is recommended for broadcast stations, public address systems, etc. Comes with 8 feet of 2-wire shielded cable. Size 2½ in. high, 1¼ in. O. D.
Astatic Model K-2.....\$22.50

**ASTATIC CRYSTAL LAPEL
MICROPHONE**

A high fidelity microphone. Response flat to 6,000 cycles. Size 1¼ in. diameter, ½ in. thick. Same acoustic principles as Model K-2. Output —60 db. Weight 1¼ oz. Finished in dull black and furnished with 25 feet of shielded cable.
Model L-1\$15.00



**ASTATIC WATCH CASE
MODEL D2 CRYSTAL
MICROPHONE**

The D-2, recently introduced, has won the hearts of every user of microphones where public appearance is made. Utilizing the same exclusive Dual Diaphragm principle and Grafoil Bi-morph Crystal element as the K-2, it is designed like a watch—the same shape and size—and is not only a work of art to look at but does not obstruct the face of the performer.

Essentially Non-directional, it has a frequency response substantially flat from 50 to 6,500 c.p.s.—an output of -60 decibels—and a definitely reduced feedback tendency.

Case is only 2½ inches in diameter and ½ inch thick with bright chromium finish; total net weight only 9 oz. exclusive of cable; built to stand shock far beyond the ordinary. Adapter threaded ¼-inch x 27 threads per inch for stand mounting; 8 feet of single wire shielded rubber covered cable which may be threaded through stand or outside.



MODEL D2

Net price.\$15.00

SHURE MICROPHONES

CRYSTAL (Piezo-Electric) TYPE

MODEL 74B "SPHEROID"

For the first time—a crystal microphone combining High Output Level, true "Wide-Range" Reproduction and Non-Directional Pickup! Sound reaches the small Curvilinear diaphragm through a complete angle of 360 degrees with a frequency response from 40 to 10,000 cycles. Response is non-directional for sound approaching from any angle. Special "Grafol" Bimorph Crystal, "Cantilever" actuated, lowers cable losses. Overall diameter 2 1/4 in. Rubber-black finish with chromium circles. Furnished with new locking shield, moisture-proof 3-conductor plug, convertible receptacle for stand or suspension use, and cable strain relief. (No cable furnished—see C10A and C20A listings.) Net weight, 7 1/2 oz. Shipping weight, 1 lb. Model 74B. "Spheroid" Crystal Microphone.

Net price\$22.50

MODEL 75A SPHERICAL CRYSTAL MICROPHONE

A new economical Shure Non-Directional Crystal Microphone with wide-range response! Acoustic streamlining and scientific placement of the small curvilinear diaphragm insure non-directional response for sound approaching from any angle. Crystal element is a genuine "Bimorph" unit, "Cantilever" actuated. Only 2 1/4 in. in diameter. Rich rubber-black finish. Mounts on any Shure Stand. Complete with "side cable outlet" and 25 feet of shielded single-conductor rubber jacketed cable. Shipping weight, 1 1/2 lbs.

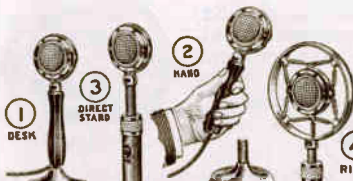
Model 75A—Spherical Crystal Microphone. Less Stand. Net price.....\$19.20



CRYSTAL MICROPHONES MODEL 70H

The Shure 70H sets the "standard of performance" for diaphragm type crystal microphones. Adopted by leading Sound Equipment Manufacturers. "Curvilinear" diaphragm and "Bimorph" crystal. "Cantilever" actuated. Beautiful cast case, chromium-plated overall. Mounts direct on any Shure Stand or

in carbon ring. Cable may be brought through stand tubing or outside as desired. Complete with removable "close-fitting" ring. "Quickway" Hooks and shielded single-conductor rubber jacketed cable. Model 70H—Cable lgth., 7 ft. Code, Rurab. Shpg. wt., 1 1/2 lbs. List.....\$13.50 Model 70H-25FT—Cable lgth., 25 ft. Code, Rurov. Shpg. wt., 2 lbs. List \$14.58 Model 70H-35FT. Cable lgth., 35 ft. Code, Ruriz. Shpg. wt., 2 1/2 lbs. List\$15.20



SHURE "4-WAY UTILITY" MICROPHONES

Model 70HK—General purpose type. Consists of Model 70H microphone, 25 feet single conductor cable, handle, adapter, and chrome plated base. Shipping weight, 2 lbs. Net, each.....\$16.50 Model 70SK—Communications type. Consists of Model 70S microphone (recommended for voice range only) instead of Model 70H. Otherwise same as 70HK. Excellent for amateur use. Shipping weight, 2 lbs. Net, each.....\$15.60 Model 10BK—Double button carbon mike. Model 10B microphone with special handle, 6 feet 3-conductor cable, adapter and chrome plated base. Shipping weight, 3 lbs. Net, each.....\$7.20

MODEL 73A LAPEL



Highly efficient and faithful in voice reproduction, due to new Shure diaphragm design and improved mechanical system. Free from "background" noise and vibration pick-up. Diameter only 2 in. Weight, less cord, under 2 oz. Baked rubber-black finish. Equipped with special spring lapel clip and 25 feet of shielded

single-conductor black mercerized cotton-covered cordage. Shipping weight, 3/4 lb. Model 73A—Price.....\$15.00

THE NEW SHURE "ULTRA" WIDE-RANGE CRYSTAL MICROPHONES



Ultra "wide-range" reproduction from 40 to 10000 cycles. New cruciform crystal mounting makes possible a higher output rating than on any previous diaphragm types of similar frequency characteristics. Dual-drive Grafol Bimorph crystal. Curvilinear diaphragm. Complete barometric compensation—moisture sealed.

Model 700A—Small compact fitted with swivel and finished in polished chrome. Shipping weight, 1 1/4 lbs. Net each \$15.00 Model 701A—Grille type. Contrasting finish of polished chrome and rubber black. Shipping weight 1 lb. Net, each. \$15.00 Model 702A—Spherical type finished in rubber black with bright chrome band. Shipping weight 1 lb. Net price, each\$15.00

VOLUME CONTROLS FOR CRYSTAL MICROPHONES

Now, for the first time, speakers, soloists, and announcers can control the volume of a crystal microphone smoothly... noiselessly... with complete freedom from unwanted "tone-control" effects! A new capacity attenuator, developed by Shure engineers, has made this possible. The unit is small and compact (4 by 2 by 2 inches) and mounts on any Shure Stand. Finish is standard rubber black with chrome and black "Volume" escutcheon. Convenient On-Off switch, independent of volume control is provided. Cable may be run through stand tubing if desired.



Shure Volume Controls are supplied in two types: "Demountable" with receptacle for 74B and 70H-70AC microphones, and "Coupling" type threaded 3/8 in.—27 for Model 70H. Both types are supplied with 25 or 50-foot lengths of single conductor, rubber jacketed shielded cable. For best results the cable should not be lengthened or shortened—use the full length supplied with the unit. Model V21A—Crystal Microphone Volume Control. "Demountable" type with 25-foot cable. Shipping weight, 2 1/2 lbs. Price.....\$7.50 Model V22A—Crystal Microphone Volume Control. "Demountable" type with 50-foot cable. Shipping weight, 3 1/2 lbs. Price.....\$9.00 Model V11A—Crystal Microphone Volume Control. "Coupling" type with 25-foot cable. Price.....\$7.50 Model V12A—Crystal Microphone Volume Control. "Coupling" type with 50-foot cable. Price.....\$9.00

CARBON TYPES

MODEL 3B TWO-BUTTON

Advanced engineering and controlled quantity production have made possible this full-size two-button microphone with quality performance never before available at such extremely low cost! Designed for spring suspension. Rigid cast frames and built-in protective grill, finished in bright nickel plate overall. Has the well-known Shure "Quickway" hooks. May be used as a single button microphone. Frame diameter, 3 inches. Net weight, 1/2 lb. Shipping weight, 3/4 lb.

Model 3B—Two-button. Price.....\$3.30



Model 10B—Convertible Hand Microphone. Convenient general purpose P.A. microphone, convertible from hand to 3B type for stand mounting by removing mounting ring and inserting four "Quickway" hooks. Black enameled handle. Overall length, 8 1/2 inches. Net weight, 3/4 lb. Shipping weight, 1 lb. Complete with 6 feet of three-conductor cable and 4 "Quickway" hooks. Price \$6.30



MODEL 5B TWO-BUTTON

A full-size two-button microphone (diameter over-all 3 3/4 inches, thickness 1-1/16 in., weight 15 1/2 ozs.) Regular full-size precision adjustable buttons and special diaphragm assure exceptional quality of reproduction. Ideal for low cost sound systems. Attractive modern design, finished in chromium plate. Screen-protected diaphragm and "Quickway" hooks. Shipping weight, 1 1/4 lbs.

Model 5B—Price.....\$6.00



MODEL A80A STAND SWITCH

New handy stand-mounting on-off switch which can be used with any type microphone. Small attractive cast-aluminum case, with rubber-black enamel finish. Standard 3/8-inch—27 thread fits all Shure Stands. Over-all height, 2 1/2 inches. Shipping weight, 1/4 lb. Model A80A—Stand Switch. Price.....\$1.50



DEDUCT 2% FOR CASH WITH ORDER

AMPERITE—Electrovoice Velocity Microphones

NEW! RB TYPES All High Impedance

Compact. Streamline. Modern. Embodies the latest and best technique in microphone design. Gives studio type reproduction. Unexcelled for quality, fidelity and ruggedness! Features: 1. All-cast case, achieving maximum ruggedness. 2. Acoustically designed to eliminate any possibility of cavity resonance. 3. 8 db. higher output. 4. Triple shielded. 5. Switch. 6. New cable clamp. RBHn (High Impedance) 2,000 ohms. Excellent for speech and music. Permissible cable length up to 125 feet. Output —60 db. Frequency response 40-11,000 c.p.s. Complete with shock absorber, switch, 25 ft. cable. Obtainable without switch upon request. Shipping weight 5 lbs. Available in low impedance models (200 ohms).



Models RBHn and RBBn (beam type)
Gun metal. Net price..... **\$25.20**
Chrome. Net price..... **\$25.80**

Model RB-DIn—Dual impedance for low or high impedance amplifiers. Can be used with high impedance input with S.C.S. cable lengths up to 125 feet—or low impedance input with D.C.S. cable lengths up to 2,000 feet. Just plug in the proper cable. No dead windings or taps, therefore, maximum efficiency for low or high impedance connection. Shipping weight, 5 lbs. Switch cannot be furnished on Model RB-DIn.
Dealer cost **\$27.00**

NEW MODEL RAH

A specially designed microphone built to Ampelite standards which can be used for both speech and music. No peaks. Flat response over audible range. Output —68 db. Triple shielded. Shock absorber. Swivel bracket. Shipping weight 5 lbs.



Model RAH (2,000 ohms). High impedance with 12 feet of cable.
Gun metal. Net price..... **\$12.94**
Chrome finish. Net price..... **\$13.53**

AMPERITE JUNIOR (LAPEL) VELOCITY



Size of a match box. Ideal for lectures, specialty acts and "walking" after-dinner speakers. Can be hidden under coat. Output is constant with any position of the head. Transformer included in microphone case. Frequency response, 60-7,500 c.p.s. Size 2 1/4 x 1 1/4 inches. Shipping weight 2 lbs.

Model 7J (200 ohms) or Model 7J-H (high impedance) with 25 feet of cable.
Dealer cost **\$18.00**

INPUT TRANSFORMER (CABLE TYPE) LGP

Enables the use of low impedance microphone with amplifiers having high impedance input. Microphone cable can be any length up to 2,000 feet. Hum trouble is eliminated by special balanced windings. Will withstand mechanical abuse. Can be used with 25, 50 or 200-ohm microphones. Output connects directly to high impedance input.



Model LGP (Standard) 60-8,000 c.p.s. Net price..... **\$3.00**
Model LGP (Laboratory). 40-14,000 c.p.s. Net price..... **\$6.00**

ATTENTION!

Customers south and east of St. Paul will find our St. Paul store very conveniently located right on Route 12—just two blocks up the hill toward the State Capitol from the Golden Rule and Emporium. We carry a complete stock at the St. Paul store and you will always find room to park. We feel sure you will like the service you get at the St. Paul store—try it the next time you come to the Twin Cities.

ELECTROVOICE "K" SERIES (All High Impedance)

Model K-20—America's lowest priced velocity microphone, with typical ELECTROVOICE quality. Recommended amplifier gain: 120 db. Equipped with locking cradle, 10-foot cable.
Net price..... **\$11.70**

Model K-21—An exceptional value. Provides relatively high output with quality. Recommended amplifier gain: 110 db. Finished in black and chromium. Equipped with locking cradle and 10-foot cable.
Net price..... **\$14.70**

Model K-22—The finest in this series, second only to the "V" series. Has excellent quality and even higher output than the K-21. Recommended amplifier gain: 105 db. Finished in chromium with black trim. Equipped with locking cradle and 10-foot cable.
Net price..... **\$17.70**



ELECTROVOICE "V" SERIES (All High Impedance.)

Model V2HiZ—One of America's most popular microphones. Excellent for music or speech. Output: —68 db. Equipped with 20-foot cable.
Net price..... **\$21.00**

Model V3HiZ—A high output, high quality microphone for ultra-faithful public address, recording and communication. Equipped with cradle, swivel and shielded plug. Output: —66 db.
Net price..... **\$30.00**

Model V4HiZ—The finest microphone that research and development can evolve. Built for the most exacting requirements of broadcast and recording. Accurately calibrated. Equipped with cradle, swivel and shielded plug. Output: —64 db.
Net price..... **\$45.00**
Low impedance types available. Specify when ordering.



NO. 100—"OLD FAVORITE"

A medium small high quality two button mike. High sensitivity results from correct damping. Extremely low hiss level, acid-treated granules reduce ash content, increase their life and allow higher current. Chrome finish.

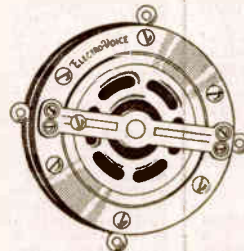


\$6.00

The models listed here are designed to meet any application and are available from our stock:
Model 100D—Standard—medium sensitive.
Model 100B—Medium damped.
Model 100C—Heavily damped.

NO. 88—TWO BUTTON

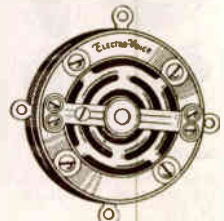
You get "condenser mike" reports when you use a No. 88. This is an extra high quality mike that can be used under the most exacting conditions, has all features, and more, that are incorporated in much higher priced mikes. Response 30 to 7,000 cycles.



\$15.00

MODEL 77—TWO BUTTON

200 ohms per button. Here is a mike that is really pleasing everyone that buys it. If you want a mike that has REAL QUALITY plus durability, you can bank on the Model 77. Frequency response 40 to 6,500 cycles. Removable buttons—air damped.



\$10.80

Microphones and Microphone Accessories

COMET MODEL—OUR SALES LEADER

Selected by us to give you the greatest value of all time. Not to be compared with any other mike at this price as it is a well made instrument. Pure gold contacts, chrome plate finish, protected diaphragm and other expensive features. Low hiss level—double button. 200 ohms per button. Response 50-4,500 cycles. Each.....\$2.95



ELECTRO-VOICE HAND MICROPHONES

A Phenolic diaphragm gives performance impossible with any other type. Blasting is eliminated. Extremely durable. Response 50-5,000 cycles. 200 ohms per button. Supplied with 5-foot cable.

201-S—Single button\$6.00
201-D—Double button ... 9.00

UNIVERSAL VELOCITY MICROPHONE

High impedance velocity microphone. Frequency response flat from 40 to 10,000 C. P. S. Output —53 db. direct to grid without necessity of transformer. Can be used without preamplifier on amplifiers of not less than 85 db. gain. Also by use of low capacity R.F. cable can be used 200 feet from amplifier. Measures only 2 1/2 x 5 1/2 inches. 1 1/2 inches in thickness and weighs less than 1 1/2 ozs. (Packed weight, 4 lbs.)



Model RH—Net price\$13.50
Available in 200 ohms. Model RL same price.

UNIVERSAL SUSPENSION RINGS

Solid metal for hanging mikes from ceiling, etc. Chrome plated, 8 springs included. 5-inch diameter for Models X and smaller diameter mikes.

No. USR5\$1.50
6 1/2-inch diameter for Models LL, BB and larger diameter mikes.
No. USR6\$2.40

UNIVERSAL NEW X—DESK MOUNT

Highly polished nickel plate, rubber base cover and 8 suspension springs especially for Universal X Unit or any medium or small diameter microphone. Not a cast-iron pipe fixture assembly with a spray finish.



No. UX420\$2.10

UNIVERSAL "K" DESK MOUNT

Model "K" 5 in. diameter for Models "X," "A," 4 point suspension, 8 springs. Base set in moulded rubber. Finished in highly polished chrome plate, blank call letter name plate as shown. Cable passes through hollow base. Wt., 2 1/2 lbs. 8 1/2 ins. high. With covers as shown. No. UK720\$3.60
Without covers. No. UKN480\$2.40



BRUSH CRYSTAL MICROPHONES

Considered by experts to give the finest reproduction of any microphones made. Finest studio quality. New Brush Sound Cell Microphone for P. A., amateur and remote broadcast pick-up use. Frequency response 50 to 11,000 C. P. S. Output —71 db. Size 4 1/2 x 1 1/2 x 3/4 inches. Weight 3 oz. Furnished with 15-foot shielded cable. High impedance—direct to grid type.

No. B28\$27.00



MICROPHONE SADDLE

A dandy support for crystal mikes—tilts to any angle and locks in place. Aluminum. Chrome plated. No. FU700\$1.20



TURNER MODEL 38 Non-directional

Model 38 has an excellent frequency response, flat from 50 to 7,000 cycles with a rising low frequency characteristic of approximately 5 db. at 50 cycles. Average output. 60 db. Very low feed back due to new design principle.

Model 38—Mike only with 8 feet cable\$13.50
Model 38-B-3—With desk stand\$15.00



TURNER HI-LEVEL MASTER MODEL

Due to its tremendously improved frequency response and rugged construction, the Hi-Level Master Model 24 replaces the popular type "G" Turner microphone. Much research and development has gone into the making of a truly Hi-Fidelity general purpose unit. Every requisite of a high class microphone has been incorporated in this



model. The excellent flat frequency response with high output level has given this unit an enviable position in its field. This model has a frequency response flat from 500 to 6,000 cycles with a rising low frequency characteristic of approximately 5 db. at 50 cycles. Output 54 db.

Model 24—Mike only with 8 feet cable\$13.50
Model 24-T-1—With desk stand.... 15.00

TURNER MULTI-CRYSTAL MIKES

All are basically flat from 40 to 7,000 cycles with a slight rising characteristic from 7,000 to 10,000 cycles, which is particularly favorable in offsetting the falling characteristic of most amplifiers at these frequencies. Single ended models are offered in four, six and eight crystals. Push pull models are also offered in four, six and eight crystals.

Push Pull	Single	Output	Price
P4MX	S4-MX	-72	\$27.00
P6MX	S6-MX	-70	33.00
P8MX	S8-MX	-68	39.00



ELECTROVOICE MICROPHONE REPAIR PARTS

Carbon Granules
Carefully Selected Stock of Best Quality

No. 307—No. 60 grains—repack two mikes—for hard usage mikes.....\$0.35
No. 308—No. 80 grains—for general purpose—P. A. mikes, etc.....\$0.35
No. 309—No. 100 grains—high sensitivity—mikes must be handled with care \$0.35

DURAL DIAPHRAGMS For Condenser Mikes

Electrovoice 4x4 inches duraluminum sheets for making condenser mike diaphragms—.001 thick. No. EV44\$0.30

AMPERITE REPLACEMENT DIAPHRAGMS

For Ribbon and Condenser Microphones

REPLACEMENT RIBBONS
No. ARR1—Standard, package of 2 \$0.75
No. ARR1X—Supersensitive, package of 2\$1.05

CONDENSER DIAPHRAGMS
No. ACD-1—Standard, mounted\$0.60
No. ACD-1X—Supersensitive, mounted\$1.20

SUSPENSION SPRINGS



Highest grade spring steel. Rust proofed and polished chrome plated. No. MS8—8 for\$0.22

Bud JUNIOR MIKE RING



5 1/2-in.—octagon shape—black crackle finish—complete with springs. No. B820\$0.50
Senior Mike Ring—4 ins.—round—chrome plated—with springs. No. B800\$1.25

No. B817—Modernistic desk stand. 5 1/2-in. ring. Octagon. Black crackle finish. Ht. 9 ins.—with springs.....\$1.15
No. B818—6-in. ring. Height 10 ins. Black crackle finish—with springs\$1.35



No. B819—Like B818—height 13 ins.—heavier base with springs...\$1.75
No. B803—Adjustable desk stand—12 ins. to 18 ins.—6-in. ring—heavy base—base and ring black crackle—tubing is chrome—with springs\$2.95

COLLAPSIBLE FLOOR STAND

Light, compact, adjustable, that can easily be carried around. Triple tube assembly—chrome plated. Extension 36 ins. to 78 ins. Comes with 6-in. ring—springs included. No. B821\$7.30



Cable Connectors will be found on page 45.
Mike Wires and Speaker Cables on pages 43-44.

DEDUCT 2% FOR CASH WITH ORDER

FEDERAL

MIKE STANDS

AMPLIFIER CASES

FEDERAL DE LUXE MICROPHONE STAND

Model FE-60

Model FE-60 is truly a de luxe stand in every sense of the word. Hand spun shell, brass tubing and fittings are triple chrome plated, enhancing the durability and beauty of this sturdily built stand.

The cast iron base which is ten inches in diameter and weighs eleven pounds makes the stand stable and prevents tipping. The six rubber feet on which the base is mounted eliminate all vibrations.

The most distinctive feature of all our microphone stands is the "Holdfast" adjustment on the elevation rod. No set screw is required. Simply raise or lower the rod to the elevation desired and it will remain in a set position until manually changed.

Extends to 69 inches and comes equipped with ball socket swivel joint. Price does not include ring.

FE-60—Floor stand.

\$7.50

Your cost.....

FR-500—Chrome ring only.....\$1.20

FR-500B—Black ring......75

Model FT-20 TABLE STAND

Hand spun shell, brass tubing and fittings are triple chrome plated. The base which is supported on three vibration eliminating feet is 5 1/2 inches in diameter and weighs 2 1/2 pounds.

Provided with one reducing nipple and ball socket joint.

Model FT-20—Net price.....**\$2.25**

Model FT-35—3 1/2 inches high. No swivel.....**\$1.95**



FE-60

FT-20

FEDERAL STANDARD MICROPHONE STAND

Model FS-50

Model FS-50 Microphone Stand is the same size and has the same de luxe features as Model FE-60 except that it is lighter in weight. The base of this stand is ten inches in diameter and weighs seven and one-half pounds.

Extends to 62 inches and comes equipped with ball swivel. Also available in black wrinkle at a reduced price. Price does not include cradle.

Model FS-50.

Chrome plated. Net price.....**\$5.40**

Model FX-55—Black (no swivel).**\$4.50**

Net price.....

Model FD-10 DESK STAND

Beautifully chrome plated, 10 inches high with a 6-inch diameter ring with dual hooks providing easy microphone mounting. Has a two-pound base with diameter of 4 1/2 inches supported by three vibration eliminating feet.

FD-10—Chrome.....**\$2.25**

Net price.....

FX-10—Black.....**\$1.20**

Net price.....



FD-10



FS-50

MICROPHONE SADDLES

Model FU-700

(Non-Directional)

Made of heavy brass triple chrome plated allowing microphone to be used at any angle and held stationary with chrome plated thumb screws.

Net price.....**\$1.20**

MICROPHONE RINGS

Model FR-500

Triple chrome plated, 6-inch diameter. Double hooks provide easy microphone mounting. Furnished with male loop for suspension mounting. Less springs. Net price.....**\$1.20**



SWIVEL JOINT

Model FJ-600

Made of heavy brass triple chrome plated. Provides universal tilting of crystal type microphones. Fits all types of Federal mike stands.

Net price.....**\$0.24**



FEDERAL SPEAKER AND AMPLIFIER CASES

Model FH-450

Case constructed of highest quality three-ply non-warping plywood. Steel corner reinforcing brackets used inside, and nickel plated steel corner brackets outside. Fine grain black leatherette covering insures beauty, durability and long life. Speaker baffle openings suitable for ten or twelve-inch speakers. Grills made of heavy metal mesh for speaker protection. Baffle openings provided for snap-on covers. Extra heavy easy carrying leather handle. Designate size of speaker to be used. Dimensions: 21 inches high by 16 1/2 inches deep by 14 inches wide.

Model FH-450—Net price (for speakers only).....**\$8.40**

Model FH-420—AMPLIFIER HOUSING CASE will accommodate chassis pans up to 11 inches by 17 inches. Equipped with extra heavy easy carrying leather handle. Designate size of speaker to be used. Dimensions 20 1/2 inches high by 18 1/2 inches wide by 14 inches deep.

Model FH-420—Net price (for speakers and amplifier).....**\$8.40**



AMPLIFIER CASE

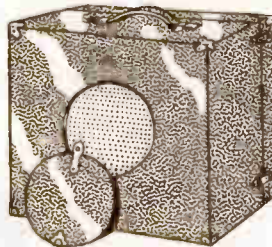
Model FH-410

Case constructed of finest quality three-ply non-warping plywood.

Speaker baffle opening made suitable for single ten or twelve-inch speaker.

Amplifier chassis pans up to 9 inches by 17 inches may be used. Extra heavy easy carrying leather handle. Designate size of speaker to be used. Dimensions: 20 1/2 inches high by 18 1/2 inches wide by 10 inches deep.

Net price.....**\$7.50**



AUXILIARY SPEAKER CASE

Model FH-430

Speaker case constructed of special three-ply non-warping plywood. Steel angle brackets reinforce inside corners. Beautiful black leatherette covering is used throughout. Baffle opening suitable for ten or twelve-inch speaker. Sliding rear panel makes speaker easily accessible. Heavy easy carrying leather handle. Designate size of speaker to be used. Dimensions: 14 inches high by 14 inches wide by 10 inches deep.

Net price.....**\$4.50**

FEDERAL AMPLIFIER CASE

Completely Equipped to Accommodate Microphone, Speaker, Amplifier, Cables, Etc.

Case constructed of highest quality three-ply non-warping plywood. Steel corner reinforcing brackets used inside, and nickel plated steel corner brackets outside.

Fine grain black leatherette covering insures beauty, durability and long life. Speaker baffle opening suitable for eight or ten-inch speakers. Grill made of heavy metal mesh for speaker protection. Extra heavy easy carrying leather handle.

Model FH-460L—22x18 1/2 x14 inches. Net price.....**\$8.40**



WRIGHT
The LEADER
PERMANENT MAGNET



DeCOSTER
The ORIGINAL
NOKOIL REPRODUCERS

8-INCH MODEL

6-INCH NOKOIL SPEAKER

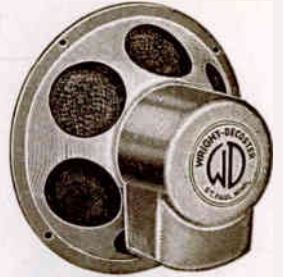
10-INCH MODEL



A magnet smaller than a field furnishes the flux.



Universal output transformer. 5 watts handling capacity.



Completely dust protected. Shipping weight, only 2 1/2 pounds.
MODEL 582. Net price \$2.91

Completely shielded magnet eliminates loss in power from touching other metal objects. 6 watts handling capacity. Universal transformer. Shipping weight, only 2 1/2 pounds.
MODEL 682. Net price..... \$3.41

HERE IS THE ANSWER!
A 12-inch Nokoil at a price

What a price!



What a buy!

Dirt proof and filing proof. The most powerful for its weight of any reproducer on the market. 7 watts handling capacity. Universal transformer. Shipping weight, only 4 1/2 pounds.
MODEL 782. Net price..... \$3.91

FILING PROOF

You won't believe your ears—nor your eyes—until you see and hear this model.

Universal Transformer
 Handles 8 Watts

PARACURVE DIAPHRAGM

Model 982 **\$4.91**
ONLY

Shipping Weight, 6 1/2 Lbs.

WRIGHT-DeCOSTER "WEATHER-PROOF" HORNS

Silver Horn and Speaker

Silver "Stadium" Horn

Silver "Port-A-Horn"



Complete with Speaker Unit

An inexpensive efficient reproducer and weather-proofed horn that is ideal for use in hotels, banquet halls, and small auditoriums. Standard field resistance of the special 6-inch speaker unit is 2,500 ohms. Field dissipation, maximum, 12 watts; minimum, 6 watts. Voice coil impedance, 5 ohms. Length over-all, 27 3/4 inches. Bell at opening, 22 3/4 by 14 inches. Weight, 15 lbs. The Model 900 matching transformer will handle from one to six speakers with amplifiers having an output of 500, 1,500 or 4,000 ohms. Size 3 3/4 inches high, 5 inches deep, 4 1/2 inches wide; weight, 4 1/2 lbs.

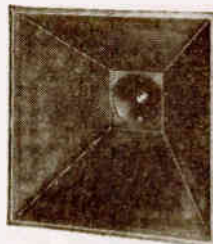
For "Stadium" and "Full-Range" Model Speakers. Reinforced and bound with metal. Guaranteed weather-proof. Screen across opening excludes all foreign substances. Outstanding measurement; Length over-all, 48 inches. Bell at opening, 30x21 1/2 inches. Weight, 91 lbs.
Model 5000—Net price \$25.00

Complete with Speaker Unit

The metal speaker housing which makes an excellent baffle, is detachable without the use of tools. Speaker will handle ample power. Reinforced and metal stripped, the Model 6000 is extremely strong. The terminal strip is accessible from the outside and has three impedances—500, 1,500, and 4,000 ohms. Field resistance is 6,000 ohms.

WRIGHT-DeCOSTER DIRECTIONAL BAFFLE

The Model 2750 Baffle, fully covered by patents, has a hardwood interior surface for adequate high frequency transmission and a soft insulating exterior which prevents the



walls of the horn from vibrating. You will be delighted with the results that this correct baffle will give. Size 37 1/2 inches wide, 37 1/2 inches high, 20 1/2 inches deep.

\$13.75

Model 2750

DEDUCT 2% FOR CASH WITH ORDER

Model 2050—Less transformer. Net price.....\$10.25

Model 2300—With transformer. Net price.....\$11.50

Model 900—Matching transformer. Net price.....\$4.50

One Model 520 Field Supply installed in the speaker housing will operate one Model 6000 while the Model 2750 Field Supply will handle two or three Port-A-Horns perfectly.

Outside measurement, length over-all, 39 1/2 inches. Bell opening, 28x13 1/2 inches. Unit housing, 10 1/4 x 7 1/2 inches. Weight, 77 lbs.

Model 6000—Net price, \$30.00

WRIGHT PARA-CURVE DIAPHRAGMS

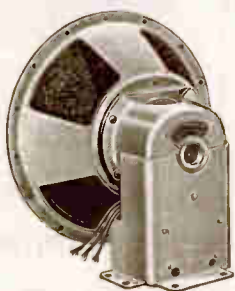


DeCOSTER SOLID CENTER SPIDERS

Featuring **BAKELITE VOICE COIL FORMS**
Moisture-proof — Warp-proof — Heat-resistant — and
that's the answer to why Wright-DeCoster Reproducers
HAVE GREATER POWER HANDLING CAPACITY

THE OUTSTANDING CHOICE OF PUBLIC ADDRESS ENGINEERS

12 WATTS
actual



Formerly Model 2940. 2,500-ohm field. Universal transformer. Shipping weight, 25 pounds.

MODEL 1990.
Net price..... **\$9.95**

9 WATTS
actual



Formerly the Model 1750, this speaker comes to you in improved appearance and at a new low price. 2,500-ohm field. Universal transformer. Shipping weight, 17 pounds.

MODEL 1490.
Net price..... **\$7.45**

11 WATTS
actual



Formerly Model 1980. 2,500-ohm field. Universal transformer. Shipping weight, 17 pounds.

MODEL 1590.
Net price..... **\$7.95**

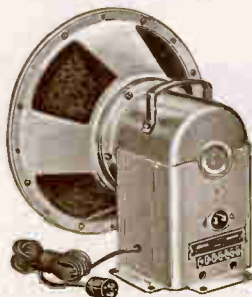
America's Most Desired Public Address Reproducer

NOW! This Stadium Senior
for only

\$17.45

THE GREATEST VALUE
OF ALL TIME

Model 3490



The Acknowledged
STANDARD
of Comparison
The **LEADER**

Formerly Model 5800
Weatherproof Rustproof

Power handling capacity, 15 watts actual. Impedances 10, 500 1,500, 4,000 ohms. Field, 1,800 ohms. 40 watts maximum, 18 watts minimum. Shipping weight, 32 pounds.

WRIGHT-DeCOSTER "PORT-A-CASE" MODELS

A sturdy, good looking case priced so low as to enable our customers to house their Wright-DeCoster reproducers at far less than they would ordinarily have to pay. The Port-A-Case has room to house many of the different popular amplifiers as well as the 414 or 514 field supply. Yet it is not too large to work in with practically any sound installation.

Outside dimensions: 16 inches high, 14 1/2 inches wide, 10 1/2 inches deep. Inside dimensions: 13 1/2 inches high, 13 1/2 inches wide, 9 inches deep. Weight, 12 pounds.

- Model 1176**—Port-A-Case only. Net price..... **\$ 5.88**
- Model 1556**—Equipped with 10-inch Model 690. Net price..... **7.78**
- Model 2356**—Equipped with 12-inch Model 1490. Net price..... **11.78**
- Model 2456**—Equipped with 12-inch Model 1590. Net price..... **12.28**
- Model 2856**—Equipped with 12-inch Model 1990. Net price..... **14.28**



DEDUCT 2% FOR CASH WITH ORDER



WRIGHT
Electro-Dynamic

DeCOSTER
Reproducers

FEATURING UNIVERSAL FIELDS AND OUTPUT

GONE IS THE NEED FOR CHANGING FIELDS

One Universal Field, one Universal Transformer, make one speaker adaptable to all needs

The dynamic reproducers shown below (with the exception of the Model 390-5 in. unit) all have universal field coils which furnish the following fields: 2,500, 2,200, 1,800, 1,800 tapped at 300, 1,500, 1,000 and 700 ohms.

Speakers for Auto Radio indicated by "VC"

STANDARD 5-INCH D.C. MODEL

- ◆ Voice coil impedance (400 cycles) 4.2 Ohms.
- ◆ Field coil, 6 watts max., 3.5 watts min.
- ◆ Power handling capacity, 3 watts.
- ◆ Dimensions, 5 in. dia., 2-7/16 in. depth, weight 1 1/4 lbs.
- ◆ Transformer for single 43 tube.
- ◆ Standard field resistance, 3,000 ohms.

Model 390—
Net price **\$1.95**
Model 390VC—Net price..... **\$1.95**



UNIVERSAL 6-INCH D.C. MODEL

- ◆ Voice coil impedance (400 cycles) 5.05 ohms.
- ◆ Universal field coil.
- ◆ Universal output transformer.
- ◆ Power handling capacity, 5 watts.
- ◆ Dimensions 6 1/2 in., dia. 3 1/2 in. depth; weight, 3 1/2 lbs.
- ◆ Vehicle speaker, 6-volt field universal transformer.

Model 400—
Net price **\$2.95**
Model 400VC—Net price..... **\$2.95**



WHAT A VALUE!

Genuine
WRIGHT-DECOSTER

12-inch

Electro-Dynamic
Reproducer



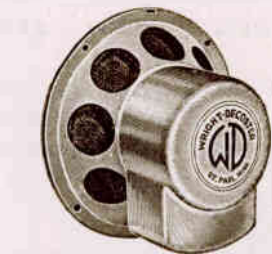
- ◆ Handling capacity 9 watts.
 - ◆ Paracurve cone, 12 1/2 in. dia.; 7-in. depth; weight 8 1/2 lbs.
- Model 940—
Net Price **\$4.95**



UNIVERSAL 10-INCH D.C. MODEL

- ◆ Voice coil imp. 5.05 ohms.
- ◆ Universal field and output transformer.
- ◆ Handling capacity 8 watts.
- ◆ Dimensions, 10 1/2 in. dia.; 5-7/16 in. depth; weight, 5 1/4 lbs.

Model 600—
Net price..... **\$3.45**



UNIVERSAL 8-INCH D.C. MODEL

- ◆ Voice coil imp. 5.05 ohms.
- ◆ Universal field and output transformer.
- ◆ Handling capacity 7 watts.
- ◆ Dimensions 8 1/2 in. dia., 4 in. depth; weight 4 1/2 lbs.

Model 590—
Net price **\$2.95**
Model 590VC—Net price..... **\$2.95**

NOW! The above model Wright-DeCoster reproducers are made for **A.C. operation** by use of this field supply

Smallest field supply made. Only 8 3/4 x 2 1/2 x 1 inches; weighs only 2 lbs. packed for shipping and will deliver 9 watts to a 2,500 ohm field; requires 25Z-5 tube for operation.

For only—
Net price..... **\$2.07**



WRIGHT-DeCOSTER
Vehicle or Monitor Cabinet



The ideal separate speakers for automobiles, sound trucks and wherever separate speakers are required. Electro-dynamic speakers have 6-volt, 9-watt fields. Price Model 226—Cabinet only \$1.13

6-Volt Electro-Dynamic Equipped

Model 646VS—6 in. 6-volt **3.23**
Model 746VS—8 in. 6-volt **3.73**

Nokoll Equipped

Model 736VS—6 in. **3.68**
Model 836VS—8 in. **4.18**

The Sensational and Startlingly New
HYFLUX MAGNETIC SPEAKER

- ◆ Metal Dust-Proofing
 - ◆ Seamless Cones
 - ◆ Single Type
- 7,000 ohms.



- ◆ Bakelite Coil Form
 - ◆ Accessible Adjustment
 - ◆ Push Pull Models
- 10,000 Ohms

Specify Push-Pull or Single When Ordering.

6-inch Model 400—Net price..... **\$2.00**
8-inch Model 450—Net price..... **2.25**

WRIGHT-DeCOSTER



"METAL MULTI-PURPOSE" CABINET

For use by "Hams," amateurs, experimenters, and sound engineers. Black crystalline finished all-metal cabinet with black and grey grille cloth. Size: 10 in. wide, 9 in. high, 5 in. deep. Weight: 3 3/4 lbs.

Price
Model 426—Cabinet only **\$2.13**
Hyflux Equipped
Model 756—6 in. **3.78**
Model 806—8 in. **4.03**
Nokoll Equipped
Model 936—6 in. **4.08**
Model 1036—8 in. **5.18**
Electro-Dynamic Equipped
Model 846—6 in. **4.23**
Model 946—8 in. **4.73**

DEDUCT 2% FOR CASH WITH ORDER

Jensen

PM SPEAKER
4 ELECTRO-DYNAMIC

No Field Coils!

**ELECTRO-DYNAMIC PERFORMANCE
PRECISION BUILT — DEPENDABLE**

There are available eight models of Jensen PM speakers. They include two six inch types, two eight inch types, one 10 inch and three 12 inch types. Each type can be secured with one of the following input impedances: 8, 500, 4400 and 10,000 C. T. Jensen does not supply speakers with universal output transformers. For complete details on Jensen PM models ask for bulletin LMS.

Six and Eight Inch PM Speakers

		Net
PM 6E	less input.....	\$7.00 \$4.20
PM 6E	with input.....	8.00 4.80
PM 8E	less input.....	7.50 4.50
PM 8E	with input.....	8.50 5.10
PM 6C	less input.....	8.00 4.80
PM 6C	with input.....	9.25 5.55
PM 8C	Less input.....	8.50 5.10
PM 8C	with input.....	9.75 5.85



Ten and Twelve Inch PM Speakers

		Net
PM 10C	less input....	\$12.25 \$ 7.35
PM 10C	with input....	13.50 8.10
PM 12C	less input....	14.25 8.75
PM 12C	with input....	15.50 9.30
PM 12B	less input....	23.00 13.80
PM 12B	with input....	24.50 14.70
PM 12A	less input....	34.75 20.85
PM 12A	with input....	36.50 21.90

For all practical purposes these 10 and 12 inch speakers will do everything expected of a regular dynamic speaker of the field type with the many added advantages the PM offers in weight, ease of wiring, etc. The PM 10C is rated at 8 watts of continuous audio output, the PM 12C at 8 watts, the PM 12B at 8 to 12 watts and the PM 12A at 12 to 18 watts. The PM 12B and PM 12A are available in high fidelity models at no extra cost. For regular P.A. work it is recommended the operator use the standard models listed.

**CABINET MODEL 8½-INCH
MAGNETIC SPEAKER**

Handsome walnut finish table cabinet is 11 in. high, 10½ in. wide, 6½ in. deep. Equipped with 5½ ft. cord. The speaker is a high quality "ortho" type magnetic, 8½ in. cone.

No. OMC\$2.95



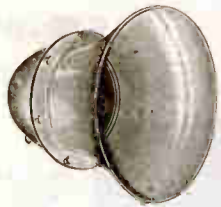
OXFORD DYNAMICS

All, with the exception of the 5A, are supplied with specially designed Universal output transformers, for Single, Pushpull, Parallel or Class B operation. A chart is furnished with each speaker indicating the correct taps to use. Standard field resistance 2500 ohms —except the 5A. Available in 5 ohms or 1000 ohms as well.

Model 11A	11"	8 watts.....	\$4.29
Model 11A(A.C.)	11"	8 watts.....	7.50
Model 8A	8½"	6 watts.....	3.42
Model 8A (A.C.)	8½"	6 watts.....	6.42
Model 6A	6½"	5 watts.....	2.34
Model 5A	5"	3 watts.....	2.04



ALL ALUMINUM DIRECTIONAL BAFFLE



Entire unit is constructed of heavy gauge spun aluminum, reinforced, and free from any metallic resonance conditions. Has a special aluminum lacquer finish. This baffle permits a more even sound distribution, and effectively reduces bothersome feedback difficulties. It is ideal for installations where a small yet efficient baffle horn is required. Suitable for all 10, 11 and 12-inch speaker cones. Equipped with suspension rings. Dimensions: 12½ in. deep by 10 in. deep; speaker opening, 10½ in.; length of horn, 10 in.; bell, 17 in. in diameter. Over-all size, 17x20 in.

Shipping weight, 4 lbs.
No. AHD—As above\$9.00
No. ASB—Lighter in weight..... 5.40

**MAGNETIC REPLACEMENT
SPEAKERS**



D.C. resistance 1000 ohms. Generous magnet, sensitive, powerful.

Model 5SL	5 inch	.....	\$1.19
Model 6SL	6 inch	.....	1.63
Model 8SL	8 inch	.....	1.85

Single Tube Field Supplies

Model 1614—110 v. 50-60 cycle.....	\$8.07
Model 1914—110 v. 25 cycle.....	9.57
Model 2014—220 v. 50-60 cycle.....	10.07
Model 2314—220 v. 25 cycle.....	11.57
(Output of above models—200 volts, min. load resistance, 750 ohms.)	
Model 1714—110 volt, 50-60 cycle.....	\$8.57
Single Tube Field Supplies use one 5Z3 tube.	

Size: 7 in. long, 3½ in. wide, 6½ in. high. Weight, 10 lbs.

MODEL 514—Expressly designed to furnish A.C. field excitation for Models 1490, 1590 and 1990. Delivers 100 M.A. at 170 volts. Finish: Black crystalline. Size: 8½ in. long, 2¼ in. wide, 1 in. deep. Packed 1 to carton. Ship. weight, 2 lbs.

MODEL 514—Less 25Z5 Tube.....\$2.57

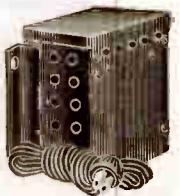
Double Tube Field Supplies

Model 2914—110 v. 50-60 cycle....	\$14.57
Model 3314—110 v. 25 cycle.....	16.57
Model 3414—220 v. 50-60 cycle.....	17.07
Model 3714—220 v. 25 cycle.....	18.57

(Output of above models—200 volts, min. load resistance, 600 ohms.)

Double Tube Field Supplies use two 5Z3 tubes.

Size: 8 in. long, 6 in. wide, 6½ in. high. Weight 18½ lbs.



The above prices do not include tubes and they are not furnished with these Field Supplies.

DEDUCT 2% FOR CASH WITH ORDER

for PORTABLE or FIXED Installation

**WEBSTER CHICAGO
MODEL PA-308 8-WATT
PORTABLE
COMPLETE PRICE, \$108.00
LIST**

Shipping weight, 35 lbs.

AMPLIFIER SPECIFICATIONS

Power Output—8 watts.
Gain at 400 cycles—115 D.B.
Power Requirement—50 watts at 115 V, 50-60 cycles.
Number stages—3.
Input for high impedance ribbon or crystal microphone and 5,000 ohm phono pickup.
Output Impedance—3-6-500 ohms.
Amplifier Dimensions — 6½x7½x11½ ins.
Tubes furnished—1 6C6; 1-76; 2-42; 1-82.

PRICES

SYSTEM PA-308—(Portable) complete with 8-watt Amplifier (tubes furnished); No. 1231-A Dual Diaphragm Crystal Hand Microphones; one matched 8-in. D.C. Dynamic Speaker with 50 feet cable; all contained in attractive and durable portable case. Net weight, 27 lbs.; shipping weight, 35 lbs. List price...\$108.00
SYSTEM PX-308—(Fixed) complete with 8-watt Amplifier (tubes furnished); No. 1231 Dual Diaphragm Crystal Microphone; 1120 Floor Stand; one matched 8-in. D.C. Dynamic Speaker (for Fixed installation). Shipping weight, 45 lbs. List price\$104.25

ADDITIONAL SPEAKERS

8-in. Portable Speaker, D.C. Dynamic No. 2601-A, installed in attractive black leatherette carrying case, with 50 feet of cable. (Field resistance of 10,000 Ohms; Voice Coil—6 Ohms). Shipping weight, 11 lbs. List price.....\$25.25
8-in. Speaker (for Fixed Installation) D.C. Dynamic No. 2601. (Field Resistance 10,000 Ohms; Voice Coil—6 Ohms). List price\$9.00

OTHER SYSTEM COMBINATIONS

If combinations, other than listed above, are desired use a base price for HG-308 Amplifier, with tubes, and matched 8-in. D.C. Dynamic Speaker, less cable. Shipping weight, 25 lbs. List price\$60.75



**WEBSTER CHICAGO
MODEL PA-417A
17-WATT PORTABLE
COMPLETE PRICE,
\$147.50
LIST**

Shipping weight, 50 lbs.

AMPLIFIER SPECIFICATIONS

Power Output—17 watts.
Gain at 400 cycles—114 D.B.
Power Requirement—110 watts at 115 V, 50-60 cycles.
Number Stages—4.
Input for high impedance ribbon or crystal microphone and 5,000 ohm phono pickup.
Output Impedance—3-6 and 500 ohms.
Amplifier Dimensions—7x8x13½ ins.
Tubes furnished—1-57, 1-53, 3-2A5 and 1-5Z3.

PRICES

SYSTEM PA-417A—(Portable) complete with 17-watt amplifier HG-417A (tubes furnished); No. 1231 dual diaphragm crystal microphone, No. 1118 banquet stand, with 25 ft. of shielded cable with shielded plug, one No. 2602 12-in. D.C. dynamic speaker with 50 feet of cable and plug, all contained in portable case. Net weight, 42 lbs.; shipping weight, 50 lbs. List price.....\$147.50
SYSTEM PX-417A—(Fixed) complete with 17-watt amplifier HG-417A (tubes furnished); Webster No. 1231 dual diaphragm crystal microphone, floor stand with 25 ft. of shielded cable with shielded plug, one No. 2602 D.C. 12-in. dynamic speaker. Shipping weight, 65 lbs. List price.....\$134.50

ADDITIONAL SPEAKERS

12-in. D.C. Dynamic Speaker No. 2602 installed in attractive black leatherette carrying case with 50 ft. of cable and plug (field resistance of 10,000 ohms, voice coil 6 ohms). Shipping weight, 20 lbs. List price.....\$37.00
No. 2602—12-in. D.C. Dynamic, 10,000 ohm field, 6 ohm voice coil. List price.....\$15.50

OTHER SYSTEM COMBINATIONS

If combinations other than specified here are desired, prices of all parts can be obtained from accessory pages in catalogue. Add base price of amplifier with tubes, HG-417A (Complete with tubes). Shipping weight, 28 lbs. List price.....\$72.00

HORN TYPE Baffles.



Model 2510.

Made of non-tarnishing crystalline aluminum. Very light in weight. Acoustically correct and guaranteed to be free of resonance peaks to the response of the speaker.

MODEL 2510—HORN TYPE SPEAKER Baffle. Dimensions of bell, 30½ in. square; overall depth, 20½ in.. Shipping weight, 40 lbs. List price\$30.00

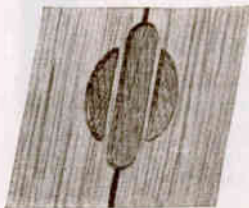
MODEL 2511—HORN TYPE SPEAKER Baffle. Similar to 2510, except weatherproofed for continuous out-of-door service. Shipping weight, 41 lbs. List price.....\$36.00
(Will fit 12-in. Speakers.)

MODEL 2600—HORN TYPE SPEAKER Baffle. The 2600 is a directional baffle for use with 8-in. size speakers like Webster 2808 or 2601. Dimensions of bell, 14¾ ins. square; overall depth, 14 ins. Shipping weight, 12 lbs. List price.....\$14.00



Model 2600.

WALL TYPE Baffles



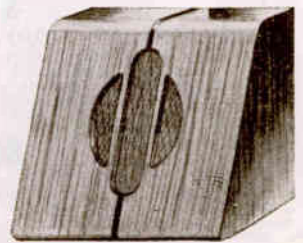
Model 2931.

Heavy construction with walnut finish to harmonize with interior decorations.

MODEL 2911—SPEAKER Baffle. Face size, 16¾x14 ins.; for use with 8, 10 or 12-in. speakers. Shipping weight, 25 lbs. List price\$15.00

MODEL 2921—SPEAKER Baffle. Face size, 11¾x11 ins.; for use with 6-in. speakers. Shipping weight, 13 lbs. List price.....\$8.00

MODEL 2931—SPEAKER Baffle. Flat baffle type, designed for wall mounting or for corner mounting; size, 16¾x14 ins.; for use with 8, 10 or 12-in. speakers. Shipping weight, 15 lbs. List price\$9.00



Model 2911.

PRICES SHOWN ARE LIST. WRITE FOR QUOTATIONS

ASK ABOUT LEW BONN CO. EASY PAYMENT PLAN

**WEBSTER
CHICAGO**

20 WATT

**WEBSTER
CHICAGO**

MOBILE SYSTEMS

6 VOLT D.C.

DETACHABLE POWER PACKS



110 VOLT A.C.

TWO 12-INCH PERMANENT
MAGNET DYNAMIC SPEAKERS
HAND TYPE DUAL
DIAPHRAGM CRYSTAL
MICROPHONE

With 6 V. Power
Pack only.

No. 6MP420.

List price. \$200.00
Shpg. wt., 85 lbs.

Power Supplies may be interchanged at will simply by removing the turntable, loosening the screws, and plugging in the other unit, an exclusive Webster - Chicago feature. Storage battery drain (no load) only 3 amperes!

Series MP-420



System MP-420 complete with Amplifier and Turntable, Crystal Microphone, two 12-in. Speakers and both 6 V. and 110 V. Power Packs. Shipping wt., 95 lbs.

No. 106 MP-420 LIST PRICE **\$223⁵⁰**

With 110 V. Power
Pack only.

No. 110MP420.

List price. \$186.50
Shpg. wt., 84 lbs.

Controls: Consist of microphone volume, phonograph volume, tone control, master power switch, filament and turntable switch.

Tubes Used: 1—6C6, 3—6A6, 1—6E6, 1—83. A 11 tubes included in price of complete unit.

Gain: 115 DB.
Power Consumed:
6 volts. .66 watts
110 volts. .98 watts

**WEATHER-PROOF ACOUSTEX
PARABOLIC DEFLECTOR
BAFFLE MODEL NO. 111**

Depth of housing, 10 inches; speaker opening, 10 inches diameter; length of horn, 10 inches; bell opening, 17 inches diameter; over-all outside dimensions, 17x20 inches. This model baffle is suitable for all 10, 11 and 12-inch cone speakers.

List price. **\$15.00**

**PARABOLIC PROJECTOR
For Use with 8 to 12-inch Dynamic
Cone Speaker**

Consists of speaker housing portion of baffle illustrated; resembles searchlight in appearance. Specify speaker size.

Model P12.
List price. **\$12.00**

ACOUSTEX FLARE BAFFLE

Consists of bell portion of illustration.
No. B11.
List price. **\$12.00**

BAFFLE STAND MODEL 300

Heavy duty baffle stand with base 18 inches in diameter. The stand is adjustable in height from four to nine feet. When the baffle mounting bracket is attached the baffle can be placed at any angle. Black wrinkle finish. Shipping weight, 35 lbs.

List price (stand only) **\$20.00**

List
No. 500—Wall bracket, all models. \$ 7.00
No. 400—Mounting bracket for 111 baffle. 3.50
No. 300—Bracket for 300 stand only. 15.00
Reducer rings (specify size of speaker) 1.50



CRYSTAL MICROPHONES

Model 1231—Dual diaphragm of non-directional characteristics with graphoil bimorph crystal. Response, 50 to 8,000 c.p.s.; 25 ft. cable. List price **\$29.50**

Model 1232—Same as 1221 except equipped with handle as hand mike. List price **\$31.50**

VELOCITY RIBBON MICROPHONE

Model 1221—Uses cobalt steel magnets and dural ribbon, chrome and black finish. Housing designed to eliminate cavity resonance. Output —81 db. 5,000 ohms. Response, 40 to 11,000 c.p.s. Cushion adapter and 25-foot cable. List price **\$42.00**



132 PRICES SHOWN ARE LIST. WRITE US FOR QUOTATIONS

WEBSTER MULTIPLE SYSTEMS CHICAGO

15 WATTS

4P-15 Basic System

(With Tubes)—See below

\$163.00

List Price

SPECIFICATIONS

Power Output—15 watts.
Gain—114 Db.
Power required—149 watts.
Output Impedances Tapped at 2-4-6-8-16-500 ohms.
Hum Level—26 Db below zero Level.
Amplifier size—7½x10½x13½ ins.
Number stages—4.
Tubes—4-6C6, 2-6A6, 1-76, 2-2A3, 1-5Z3.

(All tubes furnished with amplifiers)
Speaker—12 in. Permanent Magnetic Speaker, power handling capacity 10 watts per speaker.

Microphones—Dual diaphragm crystal microphone with stand, 25 ft. cable supplied, or velocity ribbon microphone with stand, 25 ft. cable.

PRICES

Systems can be purchased in various combinations to suit requirements. In ordering please refer to system numbers or designate each component by its own part number.

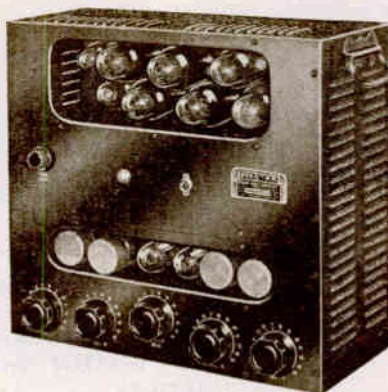
1-CPX—4P-15 (as mentioned above) consists of amplifier 4P-15 complete with tubes, one crystal microphone No. 1231 with floor stand, and one 12 in. P. M. speaker No. 2850. Shipping weight 55 lbs. List price....**\$163.00**

1-RPX—4P-15 consists of amplifier 4P-15 complete with tubes, one ribbon microphone No. 1221 with floor stand, and one 12 in. P. M. speaker No. 2850. Shipping weight 55 lbs. List price.....**\$174.50**

OTHER COMBINATIONS

If base system other than specified here is desired, prices of all parts can be obtained from accessory pages in catalogue. Add price of amplifier.

4P-15—(Complete with tubes). Shipping weight 38 lbs. List price.....**\$102.00**



30 WATTS

4P-30 Basic System

(With Tubes)—See below

\$206.00

List Price

SPECIFICATIONS

Power Output—30 watts.
Gain—113 Db.
Power required—220 watts, 115V-60 Cycles.
Output Impedances Tapped at 2-4-6-8-16-500 ohms.
Hum Level—26 Db below zero Level.
4P-30 Amplifier size—8x15¼x16 ins.
Number stages—4.
Tubes—4-6C6, 2-6A6, 2-56, 4-2A3, 1-83, 1-80.

(All tubes furnished with amplifiers)
Speaker—One 12 in. Permanent Magnet Speaker.

No. 2850—Power handling capacity 10 watts per speaker.
Microphones—Dual diaphragm crystal microphone No. 1231 with stand, 25 ft. cable supplied, or velocity ribbon microphone No. 1221 with floor stand, 25 ft. cable.

PRICES

Systems can be purchased in various combinations to suit requirements. In ordering please refer to system numbers or designate each component by its own parts number.

1CPX—4P-30 (as mentioned above) consists of amplifier 4P-30 complete with tubes, one crystal microphone No. 1231 with floor stand, 25 feet of cable, and one 12 in. P. M. speaker, No. 2850. Shipping weight 72 lbs. List price**\$206.00**

1-RPX—4P-30 consists of amplifier 4P-30 complete with tubes, one ribbon microphone No. 1221 with floor stand, and one 12 in. P. M. speaker No. 2850. Shipping weight 72 lbs. List price.....**\$217.50**
Additional No. 2850—12 in. Permanent Magnetic Speakers. Shipping weight 10 lbs. List price each....**\$15.50**

OTHER COMBINATIONS

If base system other than specified here is desired, prices of all parts can be obtained from accessory pages in catalogue. Add price of amplifier. Shipping weight 55 lbs.

4P-30—(Complete with tubes). List price.....**\$145.00**

PERMANENT MAGNET DYNAMIC SPEAKERS

Matched for perfect performance to Webster-Chicago systems. No Field Current required. Greater power handling ability than regular dynamics of the same size and weight. Equipped with transformers tapped 500-1000-1500-2000 ohms.

Model 2871—12 in. handles up to 18 watts. Shipping weight 19 lbs. List price.....**\$30.00**

Model 2861—12 in. handles up to 12 watts. Shipping weight 17 lbs. List price.....**\$27.00**

Model 2851—12 in. handles up to 10 watts. Shipping weight 12 lbs. List price.....**\$17.50**

Model 2811—10 in. 6 watt capacity. Shipping weight 11 lbs. List price**\$15.50**

Model 2808—8 in. 4 watts capacity. Shipping weight 10 lbs. List price**\$11.50**



PORTABLE TURNTABLE AND PICK UP

A well designed and ruggedly constructed unit with self starting synchronous motor. Record compartment inside cover. Volume control and "off-on" switch. Six feet of extension cord. Size 14x14x8 ins., operates on 110 volts, 60 cycles only. Beautifully finished in black walrus grain leatherette. Shipping weight 25 lbs.

Model Single, 78 RPM. List price**\$45.00**

Model Dual, 78 and 33½ RPM. List price.....**\$55.00**



**60-WATT
AMPLIFIER**

WEBSTER-CHICAGO

**6-VOLT
AMPLIFIER**

MODEL 4P-60 USING 6L6 TUBES

The 4P-60 Amplifier has been designed around the 6L6 tube. Adequate factors of safety have been employed throughout.

Amplifier 4P-60 is furnished with a four position electronic mixer with four input controls and master control (noiseless). The output terminates in a 7 prong receptacle plug which is supplied.

Will supply one to ten permanent magnet speakers.

The amplifier is contained in a metal case with rounded corners and neutral tone japanned finish. The case is well ventilated and equipped with carrying handles. Case size is only 9 in. x 16 1/2 in. x 19 in. and weighs 57 lbs.

POWER OUTPUT—60 Watts.
GAIN—143 db.
OUTPUT IMPEDANCES TAPPED AT
2, 4, 6, 8, 16 and 500 ohms.
HUM LEVEL minus 20 db.
AMPLIFIER SIZE—9 in. x 16 1/2 in. x 19 in.
NUMBER STAGES—5.
TUBES—4-6C6, 2-6A6, 1-76, 1-6E6, 2-6L6, 1-83, 1-5Z3. (All tubes furnished with amplifier.)

Model 4P-60
Amplifier only. Complete with radio tubes and receptacle plugs.
List price \$195.00



MODEL MV-410 6-VOLT — 10-WATTS

SPECIFICATIONS

POWER OUTPUT—10 Watts.
POWER REQUIRED—8 amperes.
OUTPUT IMPEDANCES—Input for crystal microphone, Output for 1 or 2 speakers.
AMPLIFIER SIZE—7 in. x 7 1/2 in. x 12 in.
NUMBER STAGES—3.
TUBES—16C6, 3-6A6 (Tubes furnished).

MICROPHONE—Hand type crystal microphone, 25 feet of flexible rubber covered cable.
SPEAKER—10 in. Heavy Duty Electrodynamic Unit, Sound Projector of spun aluminum with bracket. 15 feet of flexible rubber covered cable.

System MV-410

Complete with amplifier, crystal microphone—hand-type, heavy duty speaker with aluminum directional sound projector and mounting bracket.
List price \$102.50

System MV-410S

Same as described above but with two 10-in. heavy duty speakers mounted in aluminum directional sound projectors.
List price \$133.75



**COMPACT
HIGH FIDELITY**

PREAMPLIFIERS

**HUMLESS
A.C. OPERATED**

MODEL 21C MIXER-PREAMP.

(Illustrated)

The Type 21C is a two stage amplifier for two high impedance microphones, each having a separate mixer tube. The two gain controls are located after the first stage, resulting in very quiet operation. The input tubes are cushioned on rubber preventing vibration and microphonics from affecting them.

The cast cases on the transformers, the complete electrostatic shielding of all parts, and a five section filter in the "B" supply completely eliminate all hum from this amplifier.

Technical Information

Power Supply—110 volts, 60 cycles—12 watts.
Gain—65 db. on microphone input, 30 db. on phonograph input.
Tubes—Three type 75 tubes, one type 84 tube.
Input for all high impedance microphones.
Input Connections—Two jacks for microphones, one jack for phonograph pickup. When the phonograph plug is inserted, one microphone input is disconnected.
Output Impedances—200 and 500 ohms.
Output Connections on screw terminals under removable cover plate.
Dimensions—15x7x4 inches.
Shipping weight 13 pounds.

List price, less tubes \$47.50
Complete set R.C.A. tubes 4.25



MODEL 11A

for diaphragm crystal mikes

A smaller unit designed for feeding a high output crystal or ribbon mike into any power amplifier with sufficient gain for a carbon mike.

When supplied with low impedance output it feeds into the regular carbon mike input of the power amplifier.

When supplied with 10,000 ohm output it may be fed directly into grid. The outside appearance is the same as the 13C except that it is smaller.

Technical Information

Power Supply—110 volts, 60 cycles—7 watts.
Gain—35 db.
Frequency Response—Less than 2 db. variation from 30 to 10,000 cycles.
Tubes—One 75, one 84.
Output Impedance—200 and 500 ohms standard.
Dimensions—9 1/2 x 6 x 3 1/2 inches.
Shipping weight 10 pounds.
List price, less tubes \$29.85
With 10,000 ohm output 32.50
Complete set R.C.A. tubes 2.25

MODEL 13A High or Low Impedance

The Type 13A Amplifier is designed for use in the many places where a low level microphone cannot be connected to the power amplifier because the microphone is too far from the amplifier, or the power amplifier has too low a gain to operate a crystal or velocity microphone satisfactorily. It is ideal for use in replacing the carbon microphone on the older type public address systems with a new high fidelity microphone.

Technical Information

Power Supply—110 volts, 60 cycles.
Power Consumption—10 watts.
Gain—65 db. **Maximum Output**—Plus 6 db.
Tubes—Two 75-type tubes, one 84-type tube.
Input Impedances—50 ohms, 200 ohms, and 5 megohms.
Output Impedances—200 ohms and 500 ohms. Output connections on screw terminals.
Frequency Characteristic—Less than 2 db. variation from 40 to 10,000 cycles.
Dimensions—15x7x4 inches.
Output Impedances—200 ohms and 500 ohms. Small additional charge for other impedances. Output connections on screw terminals.
Shipping weight 15 pounds.
13A—List price, less tubes \$43.50
13B—Identical to 13A except for the addition of a ladder type gain control. List price, less tubes 47.50
13C—Identical to 13A but with high impedance input only. List price, less tubes 39.50
13D—Identical to 13A except for added ladder gain control and with high impedance input only. List price, less tubes 43.50
Complete set R.C.A. tubes 3.25

CONVERTERS GENEMOTORS

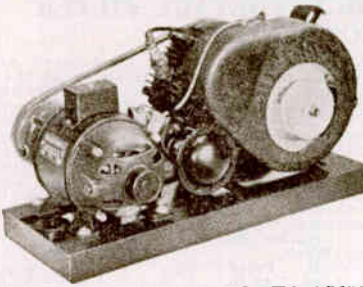
PIONEER

POWER PLANTS

GAS - ELECTRIC POWER PLANTS

ELECTRIFY THE FARM

this modern, easy way—with these high-grade, reasonably-priced power plants. Models to meet all requirements. Excellent also for Sound Cars and for the remotely situated amateur.



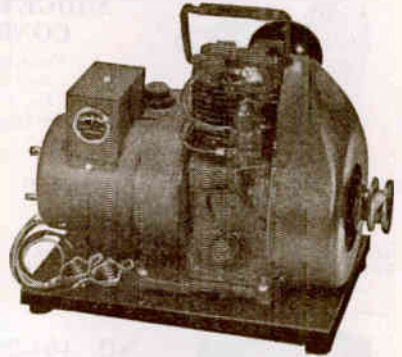
A.C. PLANTS

Blue Diamond generates 300 watts at 110 volts A.C. 60 cycles. Runs 12 hours on a gallon of gasoline. Shipping weight 72 lbs.

Net price\$59.87
Generator only for "Blue Diamond." 31.25
Net price
Filter for use with Blue Diamond. 5.63
Net price

Gold Crown Heavy Duty Models

600 watts. 280 lbs.\$121.25
1,000 watts. 280 lbs. 180.00
1,500 watts. 280 lbs. 217.50
Other models quoted on request.

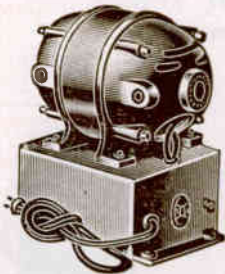


D.C. PLANTS

LB6X—6 volts, 200 watts, 49 lbs. Net.....\$33.70
LB12X—12 volts, 200 watts, 49 lbs. Net..... 33.70
L32R—32 volts, 250 watts, 49 lbs. Net..... 44.97
L110—110 volts, 250 watts, 49 lbs. Net..... 44.97
De Luxe Models (Marine Type.)
L6M—6 volts, 150 watts, 49 lbs. Net..... 41.50
L6XM—6 volts, 200 watts, 52 lbs. Net..... 44.97
L12XM—12 volts, 200 watts, 52 lbs. Net..... 48.35
Prices on other models on request.

ROTARY CONVERTERS

Double wound dynamotors suitable for radio or P.A. use. Prices on other models furnished on request. Ask for "Purple Dot" circular. Model 3215—32 V. D.C. input. 110 V. A.C. output. 150 volt amps. Model 1115—110 V. D.C. input. 110 V. A.C. output. 150 volt amps. Price less filter.....\$24.90
Price with filter..... 27.60



MODEL JW GENEMOTOR UNIT WITHOUT FILTER

No.	Volts	M.A.	Battery Drain	List Price
JW-18	180	30	2.5	7.80
JW-20	200	40	3.15	7.80
JW-25	225	50	4.3	7.80
JW-50	250	50	4.7	7.80
FOR 32-VOLT RADIOS				
JW-32	210	45	.7	9.90

Shipping weight, each 6 lbs.

DYNAMOTORS

Without Filter. P.A. MEN and AMATEURS!

May be had in 32-volt models.

Add 15% to prices shown.

Aluminum bearing brackets for light weight.



Type Number	Output Volts	M.A.	Input Volts	A.	Weight (Pounds)	Price
E1W272*	250	50	6	4.7	7 1/2	\$ 21.00
E2W353	250	50	6	4.8	9 1/2	24.00
E1W339*	250	100	6	7.6	7 1/2	21.00
E2W397	250	150	6	13.2	9 1/2	24.00
E2W351	300	100	6	9.7	9 1/2	24.00
E2W243	300	150	6	14.0	9 1/2	24.00
E2W256	350	150	6	15.2	9 1/2	25.20
E2W438	400	125	6	14.2	9 1/2	25.20
E3W413	500	100	6	15.0	11	28.50
RA0W158	300	200	6	18.0	16	45.00
RA1W201	400	225	6	25.0	17 1/2	49.50
RA1W189	500	200	6	27.0	17 1/2	51.00
RA1W331	600	200	6	31.0	17 1/2	52.50
RA1W549	750	125	6	25.0	17 1/2	54.00
RA3W550	750	250	12	24.0	23 1/2	58.50
RA2W475	1000	150	12	20.0	19 1/2	65.00
RA3W534	1000	250	12	32.0	23 1/2	69.00

All units may be furnished for any D.C. input other than listed above at an addition of 15% to list price. Add "X" to code word and follow with input voltage required. Standard filter for "E" units. Net price.....\$11.70
Transient filter for "RA" units. Net price..... 15.00

* Steel frame—furnished only on 50-watt models.

A T R INVERTERS PROVEN—DEPENDABLE—GUARANTEED



A simple, inexpensive device for producing standard 110-volt alternating current from 6-volt storage batteries, 32-volt farm plants, and 110 D.C. systems. No need to purchase special appliances! The ATR D.C.-A.C. inverter will supply regular A.C. power for operating standard A.C. devices at an efficiency of approximately 80%; the current input being proportional to the load. There are no rotating parts, and the only element that moves

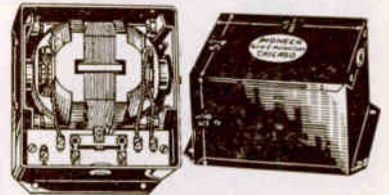
is the vibrator which plugs in just like a radio tube.

Type	D.C. Input	A.C. Output	Rating
6	6 Volts	116 Volts	50 Watts
12	12 Volts	110 Volts	100 Watts
32	32 Volts	110 Volts	100 Watts
110	110 Volts	110 Volts	200 Watts

Net price with filter.....\$18.50
Net price without filter.....\$11.10

GENE- MOTORS

with filter for
Radio and P.A.
work



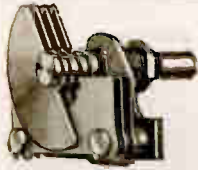
Size: 5 1/2 x 5 x 3 1/2 ins.; weight 9 lbs.

No.	Volts	M.A.	Battery Drain	Price
7565	265	75	7.75	\$18.60
7300	300	100	9.5	20.40
5135-A	135	30	1.80	10.80
5180-A	180	30	2.50	10.80
5200-A	200	40	3.15	10.80
5225	225	50	4.3	10.80
5250	250	50	4.7	10.80

DEDUCT 2% FOR CASH WITH ORDER

OUR SALES LEADERS

EVERY ONE A GUARANTEED BARGAIN

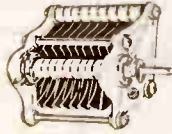


MIDGET VARIABLE CONDENSERS

Very good quality.
60 mmf., No. U60.....\$0.39
100 mmf., No. U100..... 47
Minimum capacity, 3 to 5 mmf.

DOUBLE-SPACED MIDGET CONDENSERS

Value-Plus Bargains
No. UDX36-35 mmf.....\$0.49
No. UDX60-60 mmf..... 59
Neutralizing Condensers.



NO. 464-201 FILAMENT TRANSFORMER

For 866's
2,250 volts insulation.
2.5 V. C. T.—12.25 Amps.

\$1.14

FILTER CHOKE

18 Henries—150 M.A.—425 Ohms—D.C. Resistance.

No. 466-210

A remarkable buy at **\$0.99**

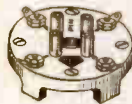


SWINGING CHOKE

3 to 8 Henries at 150 M.A.—80 Ohms D.C. Resistance.
No. 466-190\$1.19
Matches with No. 466-210, making an ideal filter system (together with proper condensers), for medium power supplies.

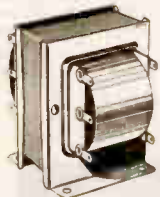
LO-LOSS 50-WATT SOCKET

Base is Isotex, metal parts are heavy brass, nickel plated. Positive contacts.
No. B226\$0.59



HEAVY DUTY 210 SOCKET

Made of bakelite. Standard UX base. Ideal for 10's, 866's, etc.
No. 400\$0.29



A DANDY MEDIUM HIGH VOLTAGE TRANSFORMER

No. BFS-650—650-0-650 volts at 150 M.A. and 5 volts—3 amperes for rectifier....\$2.15

VALUE-PLUS HIGH VOLTAGE TRANSFORMERS

Since our last catalog we've sold hundreds of these two transformers. They are giving universal satisfaction and stand out as the best transformer buys on the market. Guaranteed.

No. F-1000 — 1,000-750-500-0-500-750-1,000 volts at 300 M.A. Size 3 3/4 x 4 1/2 x 5 1/2 inches.....\$5.95

No. F-1001—800-400-0-400-800 volts at 150 M.A. Size 3 3/4 x 4 1/2 x 3 3/4 inches \$3.95



SECURITY HIGH VOLTAGE FILTER CONDENSERS



These high quality oil-filled condensers are thoroughly guaranteed for six months at their rated voltages. Their appearance is exactly the same as the illustration—heavy metal container with ceramic stand-offs. For universal use wherever high voltage condensers are needed. Your money cheerfully refunded if you are not satisfied with these condensers. Hundreds in use in the Northwest—ask the next Ham you work—he's probably using one or more already. Furnished in the new medium size containers, 4 1/4 inches high.

Notice the low prices!

D.C. Work.		D.C. Work.	
Cap.	Volts	Cap.	Volts
1 mfd.....	1,000	1 mfd.....	1,500
2 mfd.....	1,000	1 mfd.....	2,000
1 mfd.....	1,500	2 mfd.....	2,000

BONN'S SPECIAL 866's

Absolutely Guaranteed



Each\$1.40
Two for..... 2.75
These are real quality tubes that will give you long service.

GENUINE MAJESTIC TUBES

Fully Guaranteed

Type 47	Type 46	Type 69
\$0.20	\$0.20	\$0.20
	3 for \$0.50	

SPECIAL POWER TRANSFORMER

As illustrated on right. In shielded case with lugs on bottom.
No. T6878—600-0-600 volts, 200 M.A.; 5 volts—3 amps; 7.5 volts—3 amps. C.T.; 2.5 volts—10 amps. C.T. Size 5 in. high, 3 1/2 in. wide, 4 1/4 in. deep.....\$2.45

SPECIAL FILTER CHOKE

12 Henries at 250 M.A.; 110 Ohms D.C. Resistance.
No. T6877.....\$1.95



Type EA



Type E



Type V

GENERAL "progressive" audio units; real de luxe units except for open type mounting. You can't go wrong on these quality units at these value-plus prices.

INPUT TRANSFORMERS

Part No.	Pri.	To Couple To	MTG	Class C Stage M. A.	H.	Size D.	W.	Price
3262	P. P. 45's or 2A3's	830 B's, RK 18's Class B	V		3'	2 1/4"	2 1/4"	\$1.50
3272	Single 46 or 59	46's or 59's Class B	V		3'	2 1/4"	2 1/4"	1.65
3276	P. P. 45's cr 2A3's	Class B 210's	V		3'	2 1/4"	2 1/4"	1.65

OUTPUT TRANSFORMERS

Part No.	Class	Primary	Secondary	MTG	H.	Size D.	W.	Price
2340	Class B 800's, 830 B's, RK 18's	5000 or 2000 ohm load	EA	200 or 100	4 3/4"	3 3/4"	3 3/4"	4.95
2344	Class B 46's or 59's	5000 or 1000 ohm load	V	100	3 3/4"	3"	2 3/4"	2.70
2346	Class B 4-46's or 4-59's	500, 3000 or 6000 ohm load	EA	200	4 3/4"	3 3/4"	3 3/4"	4.95
2348	Class B 210's	5000 or 10000 ohm load	EA	200	4 3/4"	3 3/4"	3 3/4"	4.80

FILTER CHOKES—TYPE E

Part No.	Henries	M. A.	Resist D.C. Ohms	Insulation	H.	Size D.	W.	Price
2114	12	200	125	3000	3 1/4"	3 3/4"	2 1/4"	\$2.55
2118	12	300	100	5000	4 1/4"	3 3/4"	3 3/4"	3.60
2122	12	500	100	5000	4 3/4"	4 3/4"	3 3/4"	5.70

SWINGING CHOKES—TYPE E

Part No.	Henries	M. A.	Resist D.C. Ohms	Insulation	H.	Size D.	W.	Price
2116	6-18	20-200	125	3000	3 1/4"	3 3/4"	2 1/4"	2.55
2120	6-18	30-300	100	5000	4 3/4"	3 3/4"	3 3/4"	3.60
2124	6-18	50-500	100	5000	4 3/4"	4 3/4"	3 3/4"	5.70

Send All Mail Orders to

LEW BONN CO.

Phone Main 5313



1126 Harmon Place

RUSH ORDER

MINNEAPOLIS, MINN.

TERMS: You may deduct 2% from your cost on all merchandise in this catalog (except on National Co. apparatus) IF your "Cash with Order" order amounts to \$2.00 or over, OR if your C. O. D. order is \$3.00 or over. On all orders not coming up to these specifications, your costs are net—no cash discount allowed. On all orders of less than \$1.00, add 15 cents for a handling charge. All merchandise quoted at prices F. O. B. Minneapolis.

HOW SHALL WE SHIP?

- EXPRESS
 PARCEL POST
 FREIGHT
 TRUCK

Be sure to include enough parcel post and insurance money or we will have to ship express collect. Any excess money will be promptly rebated.

ENTER AMOUNT OF REMITTANCE HERE

Paid in full \$.....
 Part paid \$.....
 C. O. D. \$.....
 If you send currency be sure to register your letter.

Name.....
Please Print Your Name

Order No.....

Address.....

Date.....
DO NOT USE THIS SPACE

City..... State.....

DO NOT USE THIS SPACE	Cat. Page	Cat. No.	Quantity	Article Wanted	Net Price Each	Total	Do Not Use This Space	

DO NOT USE THIS SPACE

FILLED

CHECKED

PACKED

DATE

May we substitute parts of equal quality or better if we are out of stock?
 YES NO

PLEASE!
 use this order blank only for orders. Write other information or questions on separate sheet of paper.

Shall we cancel any back orders necessary and refund or hold back order?
 REFUND HOLD

Total Amount of Order.....

Less 2% if Earned (See "Terms" Above).....

Total—Net.....

Parcel Post and Insurance.....

Total Amount Enclosed.....

To Be Shipped C. O. D.....

BRANCH STORE—506 Robert Street—ST. PAUL, MINN. GARfield 2100

HOW TO ORDER

PARCEL POST RATES EXPRESS CHARGES

HOW TO ORDER

Print your order on a separate sheet. Your name and address are on your order. Use our catalog numbers or give FULL details on the item you want. State whether or not we may substitute if the part you want is not in stock. We guarantee to send equal or better quality parts.

SIZE OF ORDER

It is impossible for us to handle small orders of less than \$1.00 without losing money. Therefore, on any order amounting to less than \$1.00—ADD 15 CENTS IN ADDITION to merchandise price and carrying charges. On your small orders you can evade this by adding a tube or two to the order.

TERMS

You may deduct 2% for cash with order on all orders for more than \$2.00 and we will deduct 2% on all C.O.D. orders for \$3.00 and over. This applies to all merchandise in this catalog except National Co. amateur apparatus. Prices shown on National are "Net"—no further discounts allowed. On all orders of less than \$1.00 we charge a 15-cent handling charge.

FAST DELIVERY SERVICE IN TWIN CITIES

We use a commercial delivery service that gives very prompt service. We can get merchandise to any part of Minneapolis or St. Paul within two to three hours. If you can't come over, telephone, and have your order delivered. Orders amounting to over \$3.00 will be delivered free.

Minneapolis
MA in 5313

St. Paul
CA rfield 2100

ADJUSTMENTS

Do not return anything without sending a letter the same day—do not attach letter to the package. Explain fully why you are making the return and how you want the transaction handled—credit or replacement. Always give date and invoice number on which you purchased this material.

REMEMBER—We insure all packages, so add 5 cents to all shipments of less than \$5.00—10 cents to all shipments of less than \$25 and 15 cents to orders less than \$50. In other words—the carrying charges of all shipments should include both parcel post AND insurance charges. If you do not include enough money for carrying charges, we will ship your orders express collect.

ALL PRICES CONTAINED IN OUR CATALOG are subject to change without notice.

CANADIAN DUTIES

The duty on Canadian shipments is 25% of the value of the order. On freight shipments, a sales tax of 6% of the value (plus the duty), and an excise tax of 3% of the value (plus duty), applies. On Parcel Post or express shipments the excise tax does not apply. It is not necessary to send this money to us as the charge is made when the package is delivered.

Example: Value of shipment.....\$ 80.00
Duty 20.00
\$100.00

The sales tax will be \$6.00 and the excise tax will be \$3.00 additional if shipped by freight.

PARCEL POST RATES

Zone No.	Distance in Miles	Cost up to 1 lb.	Each Lb. Add'l or Fraction
1	Not Over 150 Mi.	8c	1.1e
2	Not Over 150 Mi.	8c	1.1e
3	150 to 300 Mi.	9c	2c
4	300 to 600 Mi.	10c	3.5c
5	600 to 1000 Mi.	11c	5.3c
6	1000 to 1400 Mi.	12c	7c
7	1400 to 1800 Mi.	14c	9c
8	Over 1800 Mi.	15c	11c

EXPRESS CHARGES

Weight Not More Than	FOR DISTANCES OF								
	50 Mi.	150 Mi.	300 Mi.	500 Mi.	750 Mi.	1000 Mi.	1500 Mi.	2000 Mi.	
5 Lbs.	\$0.39	\$0.41	\$0.45	\$0.48	\$0.52	\$0.56	\$0.66	\$0.76	
10 Lbs.	.43	.48	.56	.62	.69	.76	.98	1.16	
15 Lbs.	.47	.54	.66	.75	.86	.97	1.29	1.57	
20 Lbs.	.51	.61	.77	.89	1.03	1.18	1.61	1.98	
25 Lbs.	.55	.67	.87	1.02	1.20	1.35	1.93	2.39	
35 Lbs.	.63	.80	1.08	1.29	1.54	1.79	2.56	3.20	
45 Lbs.	.71	.93	1.29	1.56	1.88	2.21	3.19	4.02	
55 Lbs.	.79	1.06	1.50	1.83	2.22	2.62	3.82	4.83	
75 Lbs.	.96	1.32	1.92	2.37	2.90	3.44	5.08	6.46	
95 Lbs.	1.11	1.58	2.34	2.91	3.58	4.26	6.33	8.09	
For Each 100 Lbs.	1.15	1.65	2.45	3.05	3.75	4.47	6.65	8.50	

Be Sure Your Name and Address is Clearly Shown

GUARANTEE

We guarantee each and every item shown in our catalog to be exactly as represented and to conform to R.M.A. standards. Any item found to be other than as represented, if promptly returned with a letter of explanation, will be speedily adjusted.

Do You Receive More Than One Catalog?

Yes Print the way the extra copies are addressed. No

IMPORTANT! READ THIS! You get 2% Cash Discount

on all items in this catalog (except on National Co. apparatus) if your cash with order exceeds \$2.00 or if your C.O.D. order exceeds \$3.00. Remember that when looking at prices of Radio Sets, Test Equipment and other items in this catalog.