RADIO

Buying Guide

1937

THE HUGHES-PETERS ELECTRIC CORP.
178-180 N. Third St.
Columbus, Ohio
Telephone: MA—4356

Foreword

In presenting our *1936-37 Fall & Winter Catalog,* we aim to fill a long-felt need for a new selling medium which may be exhibited to the consumer without the risk of disclosing confidential trade prices.

Contents

In the pages of this book you will find listed a complete line of nationally advertised Radio merchandise, representing the "best" in the field of RADIO. Every part is manufactured in accordance with R.M.A. and N.E.M.A. Standards, rated at safety factors in excess of those required for normal operation.

Why a List Price Catalog?

You are entitled to make a fair and reasonable profit on the merchandise you sell. Our co-operation is signified by the issuance of a *List Price Catalog.* The distribution of this catalog is confined to those actively and commercially engaged in "RADIO"; it is intended to promote our mutual interests. Solicit your consumer business through this book and you are assured of increasing your sales and profits.

Important Notice — Trade Discounts!

You will find imprinted at the bottom-center of each page a small figure representing the confidential *trade discount* applying to all items listed on that page. Several pages, as well as some individual items, are quoted at net prices, in which case the word "Net" appears at the bottom-center of the page or next to the price itself.

Create Sales With This Catalog

Take full advantage of the wealth of information and technical data contained in this catalog. Use it as your "Silent Salesman" and as a Radio Reference Book and Encyclopedia.

Guarantee

Our liberal guarantee policy is made possible because of the fact that every item of merchandise has been thoroughly tested and approved before being accepted for listing in our Catalog.

Special Service

We have endeavored to include all of the standard parts and accessories normally required. Do not hesitate to take advantage of our "Special Service" if you need some article which is not listed. We will obtain it for you if it is at all possible.

Prices in this catalog are subject to change without notice: We reserve the right to discontinue any item.

RCA Radiotron — RADIO TUBES

GLASS TYPE TUBES

Type	Description	List
00-A	Detector Triode	$2.00
01-A	Detector-Amplifier Triode	.70
1-V	Half-Wave Rectifier	1.10
10	Power Amplifier Triode	2.25
11	Detector-Amplifier Triode	2.00
12	Detector-Amplifier Triode	2.00
12A7	Pentode Rectifier	2.00
112-A	Amplifier-Detector Triode	.90
15	R. F. Amplifier Pentode	2.00
19	Class "B" Twin Amplifier	1.20
20	Power Amplifier Triode	2.00
22	R. F. Amplifier Tetrode	1.50
24-A	R. F. Amplifier Tetrode	1.00
26	Amplifier Triode	.70
27	Detector-Amplifier Triode	.80
30	Detector-Amplifier Triode	.80
31	Power-Amplifier Triode	.90
32	R. F. Amplifier Tetrode	1.50
33	Power Amplifier Pentode	1.25
34	Super Control R. F. Amplifier Pent.	1.50
35	Super Control R. F. Amplifier	1.00
36	R. F. Amplifier Tetrode	1.10
37	Detector-Amplifier Triode	.90
38	Power Amplifier Pentode	1.10
39-44	Super Control R. F. Amplifier Pent.	1.10
40	Voltage Amplifier Triode	1.00
41	Power Amplifier Pentode	1.10
42	Power Amplifier Pentode	1.20
43	Power Amplifier Pentode	1.20
45	Power Amplifier Triode	.80
46	Dual-Grid Power Amplifier	1.35
47	Power Amplifier Pentode	1.25
48	Power Amplifier Tetrode	3.00
49	Dual Grid Power Amplifier	1.20
50	Power Amplifier Triode	2.25
53	Class "B" Twin Amplifier	1.50
55	Duplex-Diode Triode	1.25
56	Super-Triode Amplifier-Detector	.80
57	Triple-Grid Amplifier-Detector	1.10
58	Triple-Grid Super Control Amplifier	1.10
59	Triple-Grid Power Amplifier	1.50
71-A	Power Amplifier Triode	80

Type	Description	List
75	Duplex-Diode Hi-Mu Triode	1.10
76	Super-Triode Amplifier-Detector	.80
77	Triple-Grid Detector-Amplifier	1.20
78	Triple-Grid Super Control Amplifier	1.20
79	Class "B" Twin Amplifier	1.50
80	Full-Wave Rectifier	.70
81	Half-Wave Rectifier	2.00
82	Full-Wave Mercury Vapor Rectifier	1.10
83	Full-Wave Mercury Vapor Rectifier	1.10
83-V	Full-Wave Rectifier	2.00
84	Full-Wave Rectifier	1.50
85	Duplex-Diode Triode	1.20
89	Triple-Grid Power Amplifier	1.50
V99	Detector-Amplifier Triode	1.50
X99	Detector-Amplifier Triode	1.50
1A4	Super-Control R. F. Amp. Tetrode	1.75
1A6	Pentagrid Converter	1.50
1B4	Screen-Grid R. F. Amplifier	2.00
1B5/25S	Duplex-Diode-Triode	1.25
1C6	Pentagrid Converter	1.75
1F4	Power Amplifier Pentode	1.50
1F6	Duplex Diode Pentode	2.00
2A3	Power Amplifier Triode	2.25
2A5	Power Amplifier Pentode	1.20
2A6	Duplex-Diode Hi-Mu Triode	1.20
2A7	Pentagrid Converter	1.50
2B7	Duplex-Diode-Pentode	1.50
5Z3	Full Wave Rectifier	1.00
6A4	Power Amplifier Pentode	1.50
6A6	Class "B" Twin Amplifier	1.50
6A7	Pentagrid Converter	1.35
6B7	Duplex-Diode-Pentode	1.50
6C6	Triple-Grid Detector-Amplifier	1.20
6D6	Triple-Grid Super-Control Amplifier	1.20
6E5	Electron-Ray Tube (Indicator Type)	1.50
6F7	Triode-Pentode	1.75
6G5	Electron-Ray Tube (Indicator Type)	1.50
12Z3	Half-Wave Rectifier	1.10
25Z5	Rectifier-Doubler	1.20
874	Voltage Regulator—Glow Discharge	4.00
876	Current Regulator (Ballast Tube)	6.00
886	Current Regulator (Ballast Tube)	8.00

ALL METAL TUBES

6A8	Pentagrid Converter	$1.50
6B8	Detector Amplifier Triode	1.75
6C5	Detector Amplifier Triode	1.25
6F5	High-Mu Triode	1.25
6F6	Power Amplifier Pentode	1.35
6H6	Twin Diode	1.25
6J7	Triple Grid Detector Amplifier	1.50
6K7	Triple Grid Super-Control Amplifier	1.35
6L6	Beam Power Amplifier	2.25
6L7	Pentagrid Mixer Amplifier	1.75
6N7	Class B Twin Amplifier	1.75
6Q7	Duplex-Diode High-Mu Triode	1.35
6R7	Duplex-Diode Triode	1.35
6X5	Full-Wave Rectifier	1.50
5W4	Full-Wave Rectifier	1.00
5Z4	Full-Wave High-Vacuum Rectifier	2.00
25A6	Power Amplifier Pentode	1.50
25L6	Beam Power Amplifier	2.25
25Z6	High-Vacuum Rectifier-Doubler	1.50

SERIES G TUBES

1C7G	Pentagrid Converter	$2.00
1D5G	Super Control R.F. Ampl. Pent.	2.00
1D7G	Pentagrid Converter	1.75
1E5G	R.F. Amplifier Pentode	2.00
1E7G	Twin Power Pentode	2.75
1F5G	Power Output Pentode	2.00
1F7G	Duplex-Diode Pentode	2.00
1H4G	Detector, Amplifier Triode	1.00
1H6G	Duplex-Diode Triode	1.75
1J6G	Class B Twin Amplifier	1.35
5U4G	Full-Wave High-Vacuum Rectifier	1.50
5V4G	Full-Wave High-Vacuum Rectifier	2.00
5X4G	Full-Wave High-Vacuum Rectifier	1.50
5Y3G	Full-Wave High-Vacuum Rectifier	1.00
5Y4G	Full-Wave High-Vacuum Rectifier	1.00
6A8G	Pentagrid Converter	1.50
6C5G	Detector Amplifier Triode	1.25
6F5G	High-Mu Triode	1.25
6F6G	Power Amplifier Pentode	1.35
6H6G	Twin Diode	1.25
6J5G	Detector Amplifier Triode	1.20
6J7G	Triple-Grid Detector Amplifier	1.50
6K5G	High-Mu Triode	1.35
6K6G	Power Amplifier Pentode	1.35
6K7G	Triple-Grid Super-Control Amplifier	1.35
6L6G	Beam Power Amplifier	2.25
6L7G	Class B Twin Amplifier	1.75
6N7G	Pentagrid Mixer Amplifier	1.75
6Q7G	Duplex-Diode High-Mu Triode	1.35
6R7G	Duplex-Diode Triode	1.35
6X5G	Full-Wave High-Vacuum Rectifier	1.50
25A6G	Power Amplifier Pentode	1.50
25B6G	Power Amplifier Pentode	1.75
25Z6G	High-Vacuum Rectifier-Doubler	1.50

● *Signed* with the greatest names in Radio.

● *Sealed* for the protection of consumer and honest dealer.

● *Delivered* by servicemen and accepted by consumers with full confidence

TUBE TEST STICKERS

PRICE CARDS with interchangeable Tube Data

— AND A HOST OF OTHER *FREE* DEALER HELPS — *— WRITE FOR LIST*

JUST OUT!

***NEW* LOG BOOK**

With your own 3-line imprint

$3.00 a hundred

$27.50 a thousand

$62.50 for 2500 copies

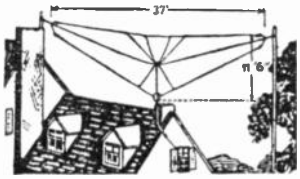
QUICKER START—QUIETER OPERATION—UNIFORM VOLUME

UNIFORM PERFORMANCE AND SEALED CARTON PROTECTION

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RCA ACCESSORIES and PARTS

"SPIDER WEB" ALL WAVE ANTENNA SYSTEM



A trans-oceanic communications type antenna for the home. Consists of a series of doublet antennas and an improved transmission line to the receiver. Completely factory assembled—all connections made. Requires space only 38 feet across, with 12-foot vertical clearance. Range 140 to 23,000 KC. (13 to 2142 meters). Full instructions furnished with each kit. Shipping weight 7 lbs.

RCA No. 9685—All-Wave Antenna System
List Price $8.95

High Frequency Kit

Increases range to 70,000 KC. (4 meters). Shipping weight 2 lbs. Stock No. 9689.
List Price $1.50

RCA RK-40 ANTENNA

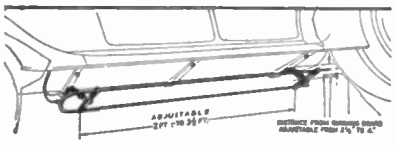


The new RCA RK-40 Antenna is a simplified antenna system designed to reduce the time and labor required for antenna installation in the most difficult of locations. It is merely necessary to attach each end to supports and make connections to the receiver. The time and money saved by installing this easily erected antenna means more business and more profits for you. The low price enables you to sell it to customers of more modest incomes.

No. 9631—List Price $5.50

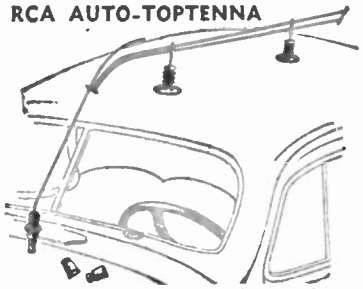
No. 9631A—Same as No. 9631, except without receiver coupling unit (for 1936 and 1937 RCA-Victor Receivers).
List Price $4.75

RCA DI-POLE AUTO ANTENNA



The RCA Di-Pole Auto Antenna is easily installed on any car, gives efficient pickup from stations, and eliminates all ignition-noise pickup by the antenna. It gives excellent results on the new metal top cars and older cars not having roof antennas.
Stock No. 9605—List Price $2.60

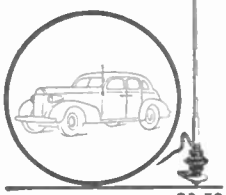
RCA AUTO-TOPTENNA



Fits all cars (coupes, coaches, sedans). Simple installation—no drilling in steel top. Streamline design beautifies automobile. Triple-chromium plated. Molded Bakelite insulators. Antenna can be removed without mutilating car (chromium button furnished to restore cowl if antenna is removed). Eliminates wheel static and motor noise. Special cement furnished for suction cups. Installations not affected by climatic conditions. Special shielded fitting covers inside terminal and insures perfect shielding.
No. 9792—List Price $5.00

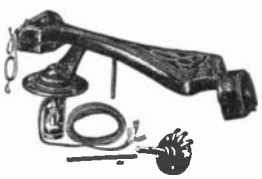
RCA AUTO-WHIPTENNA

Quick installation—5 minutes. No drilling. Triple-chromium plated with molded all-weather rubber insulation. Attractive in appearance. Extremely efficient for maximum signal pickup. Eliminates wheel static and motor noise. One model fits all cars. Extremely flexible; guaranteed not to break. **To Install:** Remove hinge bolt, attach Whiptenna and return bolt.



No. 9793—List Price $3.50

RCA PHONOGRAPH MODERNIZATION KIT



Contains pickup No. 9670 (2800 ohms) and volume control No. 6322 (50,000 ohms) Does not require an input transformer and works directly into an RCA-6F6 or other tube of similar characteristics.
No. 9740—List Price $12.00

RCA SEALED REPLACEMENT VIBRATOR
For Model M-34 and 105



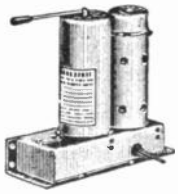
An improved inverter-rectifier unit recommended for replacement use in the RCA Victor M-34 Automobile Receiver. High efficiency, long life and wide input voltage range are inherent features of this unit.
No. 7604—List Price $6.00

RCA-VICTOR CABINET REFINISHING KIT



Contains all the necessary equipment for repairing scratched, dented, or otherwise marred furniture. All items packed in a durable leatherette case measuring 9½x4½x2¼". Contains the following: 1 can Refco Oil for cleaning; 1 can of Valvoline for rubbing; 1 assortment of sandpaper; 1 assortment of stick shellac; 2 packages of Aniline Stain powders; 1 touch-up brush; 1 spatula; 1 rubbing block; 1 instruction sheet. An essential for every serviceman. Shipping weight 5 lbs.
No. 9546—Net $2.90

BEAT FREQUENCY OSCILLATOR



For use with any short wave superheterodyne having an intermediate frequency between 415 and 700 kc. Receiver must also be able to supply power for an additional tube filament. Just three wires toconnect. For 2.5 volt sets, use a 58 tube; a 6D6 with 6.3 volt sets. Unit is of the electron coupled type. Control rod varies the pitch of the note. Entire assembly on metal chassis 7x2¾x7". Full instructions included. Shipping weight 7 lbs.

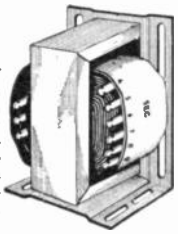
No. 9606—Oscillator, Less Tube
Net Price $7.50

UNIVERSAL AUDIO TRANSFORMER

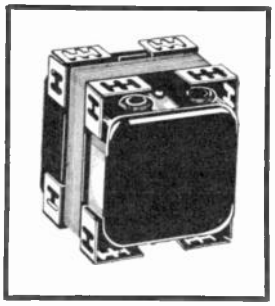


Suitable for either straight audio or push-pull interstage transformer. Fully shielded in black finished metal case, vacuum wax impregnated. Primary for any single or p.p. triode (27, 56, 76, 6C5, etc.); secondary for any single p.p. stage regardless of type. Response from 30 to 10,000 c.p.s. An extremely useful unit for experimental and service work. 2x2⅜x2⅞". Shipping weight 3 lbs.
No. 9632—List Price $2.00

UNIVERSAL OUTPUT TRANSFORMER



Matches the output of all existing output tubes to any voice coil of from 1 to 15 ohms. Primary impedances 1000 to 20,000 ohms. Flat response from 30 to 10,000 c.p.s Baked varnish impregnation. Lug terminals. 2⅜x2¼x2". Variable mounting centers. Shipping weight 3 lbs.
No. 7852—List Price $1.75
Similar to above, but shielded in cadmium plated case with Bakelite terminal board. For tropic use. Shipping weight 3 lbs.
No. 7853—List Price $2.35



RCA UNIVERSAL "FITZALL" POWER TRANSFORMERS

FOR 5-9 TUBE SETS

Part No. 9553. Mounting centers 1⅛" to 2", 4⅛" high, 3⅝" wide. Primary: 115 volts, 50-60 cycles a.c. Secondaries: high voltage 750 volts c.t. at 80 ma.
(1) 5 volts c.t. at 3 amps.
(2) 5 volts tapped at 2.5/1.25/1.25 volts at 5 amps.
(3) 2.5 volts tapped at 1/1.5 volts at 7.5 amps. Shpg. wt. 7 lbs.
List Price $4.75

Part No. 9556. For Midget 4-tube sets (not illustrated).
List Price $2.00

FOR 10-12 TUBE SETS

Part No. 9551. Mounting centers 1⅛" to 2½", 4⅛" high, 3⅝" wide. Primary: 115 volts, 50-60 cycles a.c. Secondaries: high voltage 750 volts c.t. at 110 ma.
(1) 5 volts c.t. at 3 amps.
(2) 2.5 volts at 3.5 amps.
(3) 5 volts tapped at 2.5/1.25/1.25 volts at 5 amps.
(4) 2.5 volts tapped at 1/1.5 volts at 10.5 amps. Shpg. wt. 8 lbs.
List Price $5.50

FOR CLASS "B" SETS

Part No. 9552. Mounting centers 1⅛" to 2½", 4⅛" high, 3⅝" wide. Primary: 115 volts, 50-60 cycles a.c. Secondaries: high voltage 165-310-165-310 volts at 115 milliamperes.
(1) 2.5 volts c.t. at 3 amps.
(2) 2.5 volts at 3.5 amps.
(3) 5 volts tapped at 1.25/1.25/2.5 volts at 5 amps.
(4) 2.5 volts tapped at 1/1.5 volts at 7.25 amps. Shpg. wt. 9 lbs.
List Price $6.00
Above units may be used for low-powered transmitters.

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SOUND EQUIPMENT

RCA PORTABLE SOUND SYSTEM
12 WATT—CLASS "A" AMPLIFIER
110 VOLTS—50-60 CYCLES

HERE IT IS—the standard PG 98 set up ready for operation. More than ample special flexible indestructible cable is supplied.

Two electro-dynamic speakers are of special design—insure faithful reproduction. When combined with the amplifier section shown they provide a very handsome carrying case.

Note how neat and compact the RCA PG 98 Portable Sound Equipment appears when made ready for transporting from place to place.

MICROPHONE — Genuine RCA Velocity Microphone. 50 to 10,000 cycles Frequency Range. Table Stand.

AMPLIFIER—12 watts, Class A, undistorted output. 25 watts max.



These new RCA Portable Sound Systems embody all the splendid qualities that have been built into sound amplification equipment. Numerous prospects are anxiously awaiting demonstrations of this, the finest Portable Sound Equipment available; Political Meetings, Orchestras, Amusement Parks, Auditoriums, Cabarets, Gymnasiums, Hotels, Resorts, Swimming Pools and many other outlets which will immediately suggest themselves to you. The power output of the PG 98 will furnish sufficient volume of sound for auditoriums with seating capacities up to 1600.

Overall gain, 110 db. Extremely low hum level. Controls easily accessible. Tone Control. Volume Control. Music-Speech Switch. Radio and Phonograph inputs.

SPEAKERS — 2 special Electro-Dynamic Speakers. Completely enclosed baffles. Speaker cases treated with Ozite acoustic material. Attractive, hand-rubbed, walnut baffle plaques, with decorative grille. Suspension eyelets for hanging speakers.

TUBE COMPLEMENT—3 RCA-42, 1 RCA-75, 1 RCA 6-C-6, 1 RCA 5-Z-3.

FINISH—Durable black leatherette.

SIZE—Complete unit ready for transportation: Length, 21¼"; Height, 21¼"; Depth, 10".

Model PG 98, $179.50 List Price Complete with RCA Radiotrons, All in One Case





RCA DeLUXE PG62-E





20 WATT PORTABLE SOUND SYSTEM CLASS "A" AMPLIFIER
110 VOLTS—50-60 CYCLES

And here is the DeLuxe PG 62-E ready to demonstrate its superiority over all competition. Here again a generous supply of cable is furnished between the units.

These two exceptionally efficient and faithful electro-dynamic speakers are triangular in shape and fit together into a compact carrying case.

THIS DELUXE PORTABLE SOUND SYSTEM has a power output of 20 watts, which is sufficient to meet the average requirements in auditoriums with seating capacities up to 3,000. Brings speech or music to the listener with the clearness and brilliance of the original sound.

THE DELUXE PG-62-E has all the qualifications to meet these requirements.

This equipment is particularly adapted for use in night clubs and tap rooms. Modern entertaining technique demands its use in connection with orchestras and floor shows.

A Portable Sound System of superb quality, and extremely attractive appearance.

MICROPHONE—Genuine RCA Velocity Microphone. 50 to 10,000 cycles Frequency Range. Adjustable Banquet Stand.

AMPLIFIER—20 watts, Class A, undistorted output. 35 watts maximum. Overall gain, 108 db. 250-500 ohms input. Extremely low hum level. Music-Speech Switch. Separate voltage amplifier with volume control. Microphone Volume Control. Master Volume Control. Tone Control. Phonograph and Radio Inputs. Ample gain for RCA Velocity Lapel Microphone. Provision for mixing voice with musical background.

SPEAKERS—Two extra large Electro-Dynamic Speakers. Completely enclosed baffles. Speaker cases treated with Ozite acoustic material. Attractive, hand-rubbed, walnut baffle plaques, with decorative grille. Suspension eyelets for hanging Speakers.

TUBE COMPLEMENT—1 RCA-57, 2 RCA-56, 1 RCA-59, 2 RCA 2-A-3, 1 RCA-80 and 1 RCA-83.

FINISH—Durable black leatherette.

SIZE—Complete unit ready for transportation (both cases same measurements): Length, 17¾"; Height, 21"; Depth, 12".

PG62-E $299.50 List Price Complete with RCA Radiotrons, in Two Cases



RCA AMPLIFIER MI-4283

RCA 12 WATT AMPLIFIER MI-4283

Specially designed for general sound re-enforcement purposes, such as the amplification of Public Address, Radio and Phonograph programs. This four stage amplifier has an input impedance of 16,000 ohms for use with MI-4010A Velocity microphone or equivalent. The output impedances are 15, 7½ and 40 ohms. Field excitation for two 1000 ohm electro dynamic speakers in series is provided. A built-in power supply forms a part of the unit. It is capable of delivering 12 watts (25 watts Max.), Class A, undistorted output and has an overall gain of 110 db. The frequency range is from 50 to 10,000 cycles. Power supply 110 volt—50/60 cycle A.C.

Equipped with tone control, volume control, music-speech switch, radio and phonograph inputs. Specially designed input plug furnished with amplifier. Complete in every detail, except Radiotron tube complement.

TUBE COMPLEMENT—3 RCA-42, 1 RCA-75, 1 RCA 6-C-6, 1 RCA 5-Z-3, Code; SCABM.

List Price (less RCA tubes) **$76.95** Set of RCA Tubes $5.84

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SOUND EQUIPMENT

RCA VELOCITY MICROPHONE



MI-4010-A—This is the highest quality, low cost Velocity Microphone ever made available to sound engineers. The frequency range is so excellent that this microphone is rapidly replacing other types of microphones in use today. Highly favorable directional characteristics; high sensitivity and faithfulness of response.

Frequency Range—50 to 10,000 cycles. **Impedance**—250 ohms and 16,000 ohms. **Dimensions**—2⅝" wide, 2⅜" deep, 6⅞" long. **Net Weight**—2 pounds; shipping weight, 4 pounds. **Finish**—Durable Baked Wrinkled Gunmetal. **Shielded Cable**—30 feet with plug. **Average Operating Level**, —68 db.

LIST PRICE **$43.50**

MICROPHONE STANDS

These Microphone Stands are of excellent quality, and are very attractively priced:

STUDIO FLOOR STAND MI-4068—Its modernistic design makes it especially suited for Public Address or Studio work. The weight of the heavy base precludes all possibility of its being knocked over while in use. The height of the stand is adjustable from 37" to 67". An easily operated positive locking device holds the microphone at any desired height. Finished in statuary bronze; the base is of brown crackle.
LIST PRICE **$18.75**

ADJUSTABLE BANQUET STAND MI-4065—Finished in statuary bronze. Adjustable from 11" to 16".
LIST PRICE **$55.55**

TABLE STAND MI-4069—Gun-Metal finish, 11" in height.
LIST PRICE **$1.60**

MI-4056—Heavy, substantial Program Stand, bronze finish. Adjustable in height from 56" to 81". Dashpot device permits lowering the microphone smoothly and without jolting when the catch is released, and can be pocked in position.
LIST PRICE **$55.55**

COLLAPSIBLE STAND MI-4059—Collapsible Microphone Stand for portable use. Weighs only three pounds, finished in oxidized bronze. Length: collapsed, 31"; extended, 72".
LIST PRICE **$44.45**

RCA PERMANENT FIELD DYNAMIC SPEAKER MI-6240-B



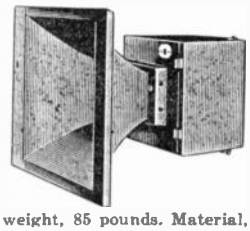
Ruggedly designed, with a sensitivity far greater than that of any similar type Commercial Sound Speaker on the market. 5 watts input. 15 ohm voice coil. Input impedances ranging from 225 to 5,000 ohms.

Dimensions: 10¼" diameter, 5¼" deep. Shipping Weight, 14 pounds. Net Weight, 11 pounds.

Code TALAR**LIST PRICE** **$12.55**

RCA DIRECTIONAL SOUND PROJECTOR

MI-1453/1425-A:



Wide angle projector, designed for high reverberation conditions. Excellent voice reproduction, with low frequency cut-off. Specially designed for public address work. Ruggedly constructed, and highly efficient. Delivers large acoustic outputs. Requires minimum amount of space—only 25". Efficiency, 25%. Distribution angle, 60°. Length 25", width 25", height 25". Net weight, 50 pounds. Shipping weight, 85 pounds. Material, wood. Finish, black.

LIST PRICE, Complete with MI-1425-A Speaker Mechanism **$88.90**



SPEAKER MATCHING TRANSFORMER, MI-4603

For matching variable types and numbers of speakers. Over 20 combinations possible. Designed to handle the full output of any amplifier up to 40 watts. No frequency loss between 35 cycles and 14,000 cycles. Dimensions, 5" x 5⅛" x 5¾". Net weight, 9 pounds. Shipping weight, 15 pounds.

LIST PRICE **$30.00**

8¼" ELECTRO-DYNAMIC SPEAKER, MI-6245



An especially good 8¼" Dynamic Speaker. Will safely handle 10 watts of power continuously. Field coil, 1,000 ohms. Voice coil impedance, 2 ohms. Net weight, 3¾ pounds. Shipping weight, 5 pounds. Dimensions, 8½" in diameter, 4" deep. Specially suited for use with new RCA Baffle MI-4428 shown below.

LIST PRICE **$6.45**

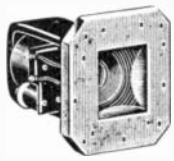
12¼" ELECTRO-DYNAMIC SPEAKER, MI-6243

Special Dynamic Speaker with aluminum voice coil, with greatly increased frequency range. 12-ohm voice coil connected to a matching transformer, having a number of taps, making it possible to obtain matching impedances ranging from 800 to 8800 ohms. Field coil is enclosed in a metal housing, which also forms a base for mounting. Will safely handle 10 to 15 watts of power continuously. Excellent low-frequency response, together with a smooth overall response. Field, 100 to 140 volts, 100 M.A. Dimensions, 12⅛" diameter x 12½" high x 8¾" deep. Finish, black wrinkled. Dust shielded. Net weight, 21½ pounds. Shipping weight, 25 pounds. Specially suited for use with RCA Baffle MI-4428 shown below.



LIST PRICE **$22.50**

RCA HIGH-FIDELITY SPEAKER MECHANISM MI-1425-A

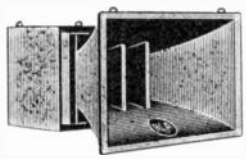


This standard powerful, ruggedly constructed Dynamic Speaker unit was developed for use in theatres, auditoriums, and other large institutions where the true, lifelike reproduction of sound is essential. A tremendous demand for this speaker has been experienced. For that reason, RCA has developed several baffles which can be used in conjunction with this unit, thereby permitting wide-spread use of this, the most faithful reproducer.

In order to obtain a greater frequency range, a special aluminum voice coil is used. To reduce the length of the directional projector required, the cone was reduced to 6" in diameter, and loaded with a 4" square aluminum throat.

Voice Coil Impedance—15 ohms. **Cone with Aluminum Throat**—6" in diameter. **Overall Dimensions**—8" x 8" x 8". **Field Excitation**—10 to 18 watts. **Field Voltage**—100 to 140 volts. **Field Current**—100 MA. **Input**—10 watts continuously. Net weight—26 pounds. Shipping weight—30 pounds.

LIST PRICE **$44.45**

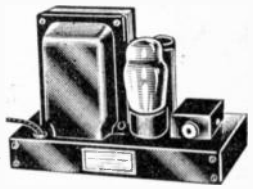


MI-4428 WOOD BAFFLE

A new RCA development. Semi-weatherproof wood baffle, with high-frequency equalizers. Will house either 8" or 12" Dynamic Speakers, and has a distribution angle of 90° horizontal and 50° vertical. Bell mouth size, 27¾" x 17¾". Depth of baffle, 27" overall. Bell, 15" deep. Speaker housing, 12" x 14½" x 14½". Acoustically treated. Finish, baked durable gray crinkle. Net weight, 28 pounds. Shipping weight, 53 pounds. Mounting, substantial eyelets provided.

LIST PRICE **$22.50**

LOUD SPEAKER FIELD SUPPLY, MI-6230



Provides field supply for three 1,000 ohm, 1/10 ampere speaker fields connected in series. Thoroughly filtered. Provided with 6-ft. power cord. Output, 340 volts, 112 M.A. Dimensions, 4¾" x 8½" x 6¼". Tube complement, 1 RCA-80. Net weight, 8½ pounds. Shipping weight, 14 pounds.

LIST PRICE (Less Tube) **$48.00**
RCA 80 ..... $0.59

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REPLACEMENT CARRON SPEAKER CONES

"A CARRON CONE IMPROVES THE TONE"

Our No.		O. D.	List
	ATWATER KENT		
1000	Pt. No. 15142, for Models 43, 46, 55, 60, 64, 66, 67 Speaker F4	10¾"	$2.00
1002	Pt. No. 19465, for Models 80, 82, 84, 82D, 84D, 82Q, 83, 85, 85Q, 90, 90F, 469Q, 558D, 558Q, 627, 246, 266, 525, 427, 467, 287, 425, 465, 206, 376, 735, 356, 184, 225, 337, 545, 856, 435, 135Z, 376 (st Type)	8½"	1.75
1004	Pt. No. 20737, for Models 83, 85, 87, 89, 89F, 87D, 94, 94F, 96, 96F, 99, 188, 188F, 260F, 469, 469F, 469D, 480, 448, 408, 310, 510, 788, 808, 325, 376, 559, 318, 376 (2nd Type), 475, 286, 328, 649, 215Z	10¾"	1.75
1271	Pt. 25603, for Models 275, 534, 825 (Utah 6L)	6½"	1.75
	BEST		
1006	Used in Freshman AM28	6¾"	1.75
1159	D5, used in Majestic 371, 373	5"	1.50
1160	D65, used in Majestic 331	6½"	1.75
1273	D45, D450, D45W	5"	1.50
	BOSCH		
1007	Models 48, 58	9⅝"	2.75
1008	Models 31, 73, 20J, 19, 36, 38	9⅝"	2.75
1009	Models 5A, 39A	7"	1.75
	BRUNSWICK		
1012	Model D, 11, 12	9"	2.50
1013	Model 881, 882, 81, 82, 21, 31, 821, 831	12"	2.90
1016	Models 881, 882, 81, 82, 21, 31, 821, 831	12"	2.90
	CLARION		
1017	Models 60, 80, 81, 85, 90, 91, 100, 120, 25-60	8¾"	2.50
1019	Models 85, 120, 94, 25 94, 160, 24-160	9¼"	2.50
1020	Models 220, 260, 95 260, 470	6½"	2.00
	COLONIAL		
1098	Model 36 (Symington)	9⅝"	2.50
1099	Model 33, 38 (Symington)	12¼"	2.90
1182	Model 250	5"	1.50
1208	Model 37, 44, 52, 85, 62, 97, 51, 53	9⅝"	2.50
	CROSLEY		
1027	M15, Models 262, 425, 625, 408, 308, Dynacoil	8¾"	2.50
1212	Model 167, 103	6¼"	1.50
	FADA		
1029	Model KO-C, 10 Serie, Shallow	8½"	2.75
1030	Model 20, 32, 15, 25, 15B, 15C, 15 Series, Deep	8½"	2.75
1133	Model KU45, 65, 41, 412, 42, 422, 44, 46, 47, 12A 12B	10½"	2.90
	FREED-EISEMAN		
1031	Model NR 85, 300, used in Earl 31, 41, 21, 30, 32, 275, D13	10"	2.90
	GRUNOW		
1213	Model 700, Speaker 8A1	8"	2.50
1254	Model 650, 651, 750, 661, 670, Speaker 8A3, 8A4, 8C4, 8C6	8⅛"	2.50
1255	Model 450, 660, 662, Speaker 8B1, 8B2	7¾"	2.25
1256	Model 901, 902, 1101, Speaker 12A1, 12A2	12"	2.90
	JENSEN		
1034	D4, D5	9¾"	2.90
1035	D7, D8—Used in: Dayton Navigator, Sparton 737, 921; Silver Marshall "C", etc.; Air Line 29-55; Howard "Green Diamond"; Gulbransen 797; Grebe AH1, SK4; Edison R7; Kennedy 22, etc.; Sentinel 104	11¼"	2.90
1037	D9 Inside Spider—used in: Zenith AH, RH, CH, 690, 90, 91, 92, V8; Crosley 124, 127; Kennedy 50, etc.; Silver Marshall A, B, C; Air-line 89, 24	11¼"	2.75
1038	D10, D11, used in: Airline 83; Kenedy 42	8½"	2.40
1137	D12, D14, used in: Silver Marshall 782; Lyric "J" Jr.; Air Line 11,000, 33-35	8½"	2.40
1039	D15 used in: Sparton 600 Series; Airline 24; Kennedy 52, 56; Lyric S6, S7; Zenith LP	8½"	2.25
1040	D16, used in: Majestic 311; Kennedy 52A	8"	2.25
1041	DA5, DA6, Auditorium	13"	5.00
1042	J1, J2, used in Stewart Warner 206A	6½"	1.75
1218	K3, K4, used in: Zenith 705, 706, 707, 711, 750, 712; Crosley 173	6¼"	1.75
1286	Series "R"	5"	1.50
1285	Series "R"	6"	1.75
1138	T1, T2, used in Freshman 275	5"	1.40
1043	T3, used in Crosley 175, 343	5"	1.40
	KOLSTER		
1141	K70, K20, K60	8"	2.25
1045	K90, K43, K44, K45, K18, 920	11½"	2.90
	LYRIC (All-American Mohawk)		
1047	Model D No. 9	10¾"	2.50
1143	Model S80	8"	2.25
1144	Model S8	10"	2.50
	MAGNAVOX		
1048	D7, D8, D6, D80, D90, 100, used in: Sparton 737, 931; Newcomb Hawley N110; Everready 30, 40; Bosch 29A, Kellogg 523	8⅝"	2.75
1049	130, 136, used in: Airline 360; Crosley 269, Buddy Boy; Zenith A, B, C, D	8½"	2.50
1050	130, 135, 138, used in: Crosley 249; Columbia 110; Audiola 31; Sparton 600; Jackson Bell 68, 88, 89, 89A, 99	8½"	2.50
1053	140, 144, 287, used in Crosley 124	7¼"	2.25
1200	154D, 158, 168, 254PM, 2 pt., used in: Motorola Twin 8; Crosley 325-4	8"	2.50
1056	101, 105, 107, 109, 201, 401, 403, in: Motorola Twin 8; Crosley 325-4 405 (shallow type)	11½"	2.90
1221	152X, 252PM, 160, 170, used in Crosley 170	10"	2.75
1185	158,165,M44, used in Motorola 44	5"	1.50
1242	195	5"	1.40
	MAJESTIC		
1058	G1 for Models 71, 72	9"	1.95
1059	G2 for Models 71,72,91,92,181	9"	1.95
1060	G3 for Models 90, 91, 93, 101, 102	10"	2.00
1062	G5 for Models 131, 132, 233, 61, 62	12"	2 90
1064	G7 for Model 21	9¾"	2.50
	G8 for Model 22	13"	2.90
	G9 for Model 23	12"	2.90
1067	G10B, G10C, G10D, G10E for Models 151, 153, 154, 155, 156	7½"	2.00
1068	G11B, G11C for Models 251, 253, 254, 201, 203, 204, 211, 214	10"	2.40
1069	G13B, G13C for Models 353, 215	12"	2.25
1070	G14, G14B, G14C, G14D, G14E, G14F for Models 351,353,223,221,407	12"	2.00
1071	G19A, G19B, G19C, G19F, G19G for Models 201,203,204,303,304,324,314	10"	2.00
1072	G22A, G22B, G22C, G22D, G22E, G22K for Models 336,344,363,393	12"	2.00
1156	G24 for Models 116, Ford auto 411, 413, 411A, 413A	6"	1.50
1158	G26A, G26C Ford models 371, 373,	5"	1.45
	OPERADIO		
1172	Used in Sentinel 560; Tructone; Airline 96, 98, 104; Arvin 10; Wells Gardner 05Z	5"	1.40
1222	Used in Mills Novelty	10"	2.75
1204	2 pt. Long Spider, used in Sentinel 600; Arvin 20A; Zenith 808, 809, 805, 845; 829, 829A	6½"	1.75
	OXFORD		
1074	Models 23, 31, 59, 24, used in Airline 11,000, 33 35	8¼"	2.25
1076	Models 23,31,59,24, used in Wells Gardner No. 9; Gulbransen 62; Airline AE10; Erla 22A	9¾"	2.50
1077	Models 70, 72, 67, used in Zenith 52, etc.	11¾"	2.90
	OXFORD RADIO CO., Chicago		
1288	Model 6A	6"	1.40
1289	Model 8A	8"	1.75
1303	Model 11MB	10½"	2.00
	PHILCO		
1078	Pt. 36-3170, Models 40, 41, 42, 65, 76, 77, 87, 90, 95, 96, 111, 112	10⅞"	1.40
1079	Pt. 02996 Models 3, 20, 21, 46, 70, 90, 470, 490	8⅝"	1.25
1203	Pt. 02861 Models 5, 48, 50, 80, 81, 52	5¾"	1.00
1243	Pt. 36-3000 Model 53	5¾"	1.00
1244	Pt. 36-3029 Models 54, 57	5¼"	1.00
1245	Pt. 36-3159 Models 6, 7, 8, 9, 10, 12, 14, 15, 19, 43, 47, 71, 89, 91	7½"	1.00
1247	Pt. 2898A Model 86	9"	1.50
1248	Pt. 02025 Models 14, 15, 44, 91	10⅞"	1.40
1249	Pt. 36-3061 Models 16, 17	10⅞"	1.40
1269	Pt. 02887 Models 36, 37, 50, 51	8"⅝	1.25
1343	Model C32 Ford Philco	5"	1.00
1345	Model 805	6½"	1.00
	QUAM-NICHOLS		
1198	Used in Motorola 34; Emerson A; Spartan 62; Tiffanytone 66	5"	1.50
1267	Used in Sentinel 510	6"	1.50
	RCA-VICTOR		
1164	Pts. 7442, 7236, 8021, 8829, 8962, Model R4, R25DC, R5, R5DC, R5X, R24, R71, M30, 131, M32	7½"	1.25
1089	Pt. 8601, Model R6, R7, R7A, R7DC, R9DC, R7LW, R8, R8DC, R9, R10, R10DC, R11, R12, RE16, RE16A, RE18, RE19, R21, RO23, RAE26, R43, R48	10¼"	1.50
1134	Pt. 7598, Model R18W, R27	5"	1.00
1236	Pt. 8987, Models R22S, R22W, R28, R28P, RE40, RE40P, R100, R101, R110, R111, 114, 115, M116, 300, 301	5"	1.00
1088	Pt. 8558, Models RE20, Victor R35, R39, RE57, RE73, 46, R50, R55, RAE 59, 62, 64, 65, 67, RAE68, RAE79, 80, 82, 86	10½"	2.00
1165	Pt. 8935, Pt. 9432, Models R24A, R70, R70N, R73, R74, R75, R76, R77, RE80, RE80SW, RE81, 210, 211, 221, 223, 224, 224E, 225, 226, 322, 322E, R51B, R53B, 253B	10¼"	1.65
1313	Pt. 8969, Model R24A, R90P, 140, 140E, 141, 141E, 220, 222, 240, 242, 261, 262, 263, 280, 321, 327, 330,331,340,340E,341,380,380HR	10¼"	1.50
1091	Pt. 9023, Model 34, M105	5"	1.00
1225	Pt. 9428, Pt. 9492, R37, R37P, R38, R38P, 112, 121, 122, 124, 126B, 310, 320, 241B, M107, 118, M123, ACR136	6½"	1.00
1163	Pt. 8916, Model R78, RAE84	10½"	1.65
1087	Nos. 104, 105	8"	2.00
1090	Photophone	7¼"	2.90
1124	Pt. 10801, Models R32, R35, E35, RE45, R52, R75, E135, E152, RE154, RE156	9"	1.75
	ROLA		
1167	F4, used in Crosley 167; De Wald; Emerson U4B; Wells Gardner; Belmont	5"	1.40
1081	F5, used in Lyric S-50; General Motors 1907	6¼"	1.75
1083	F6, F8, used in Sparton 10, 14, 15, 56, 72; Air Line 33, 35; Kolster K60	7½"	2.00
1084	D90, D110, Old Model "J" used in Silver Marshall 850; Day Fan; General Motors 120	9½"	2.75
1227	F5B, used in United Motors 4037, Chevrolet 4037	6½"	1.50
1282	DP4, used in Emerson U5A, J; Coronado; Belmont 670	5"	1.50
1315	G12	12"	2.90
1085	K, used in Sparton 410; General Motors "Little General"	7¾"	2.50
	SILVERTONE (Sears-Roebuck & Co.)		
1228	Model 175	9⅝"	2.50
1099	Models 111, 1124, 109 (Symington)	12¼"	2.90
	STEINITE		
1093	2 Pt. used in Motor	10"	2.90
	STEWART WARNER		
1094	200A, 445A, 565A, 440, 201, 900, 950 Series, 2 Pt. Spider	9"	2.75
1095	445A, 260A, 565A, 440, 900, 950 Series, 3 Pt. Spider	9"	2.75
1096	R206, R207, R204A, R110, 102A, 104A	8"	2.50
1097	R202A	8"	2.50
1283	R123, R224, R118, Models 1231 to 1239, 1181, 1182, 1183	6"	1.75
1190	R203A, R101A, R101B	6"	2.00
	STROMBRG-CARLSON		
1229	Models 10, 11, 12, 14, 19, 20, 25, 26, 27, 641, 642, 846	12"	2.90
	SYMINGTON		
1098	LL18, used in Colonial 36; Silverton 111, 1322; Sonora 30	9⅝"	2.50
1099	LL18 used in Colonial 33, 38; Sonora 30; Silvertone 109, 111, 1125; Zenith 52, 53, 54, 57, 60, 61, 62, 64, 67, 71, 72, 73, 77, 712, 722, 732, 742	12¼"	2.90
	TEMPLE		
1102	Auditorium Speaker	14"	4.00
	UTAH		
1114	Cub, 6C, 2 pt. Spider, used in Airline 1420; Zenith 705	6"	1.50
1117	Large Cub No. 2, 2 pt. Spider, used in Crosley 124; Airline 52, 45, 47, 70, 72, 84, 94, 79, 49, 76	7¾"	2.25
1118	Large Cub No. 3, 3 pt. Spider used in Crosley 125; Airline 52, 45, 47, 70, 72, 84, 94, 79, 49, 76; Zenith 210, 220, 250, 260, 272, 215, 216, 230, 475, 760, 970, 975	7¾"	2.25
1119	Little Giant No. 1, inside Spider, used in Isodyne, 700, 749; Zenith LH, WH, 2022, BH; Airline 33-25, 62,000, 11000; Kennedy 50, 63, 64	7¾"	2.00
1121	Little Giant No. 3, 3 pt. Spider	7¾"	2.25
1122	A100, D200, used in Airline 28-22, 28-95, 10,000, 6200, 14000; Balkeit	9"	2.75
1123	Stadium 66A, 66B, used in Airline 29-55,3065	11¼"	2.90
1230	12B, 3 pt. Spider 16 ohm VC, O D.	12"	2.90
1201	5D, used in Motorola 44; Emerson KS38; Atwater Kent 155; Grunow 501, 550	5"	1.50
1205	62E, used in Zenith 462, 650, 808	6½"	1.75
1271	6L, used in Atwater Kent 666; Motorola Super 6	6½"	1.75
1295	10C, used in Zenith MH, 2022, 530, 531, 533, 770, 775, 780, 476, 476A, 410, 411, 420, 520, 521, 770B, 775B, 476B	10"	2.50
1319	219B, used in Grunow 520; Crosley 515	5"	1.50
	U. S. APEX GLORITONE		
1104	Model 26, Speaker 2286	8¼"	2.00
1105	Model 26 A, Speaker 2467	7¾"	2.00
1107	Model 26P, Speaker 2995	7¾"	2.25
1110	Model 8A, Speaker 2801	7¾"	2.25
1111	Model 10B, Speaker 2802	10"	2.50
	VICTOR		
1124	R32, R35, E35, RE45, R52, R75, E135, E152, RE154, RE156	9"	1.75
	WRIGHT DECOSTER		
1125	Model 155, used in Motorola 6, 61, 88	6¼"	2.00
1126	Model 107	12"	2.90
1128	Model 345, used in Motorola 88, 61	8"	2.50
1129	Model 107	10"	2.75
	ZENITH		
1099	Pt. 49-27, Models 52, 53, 54, 57, 60, 61, 62, 64, 67, 71, 72, 73, 77, 712, 722, 732, 742 (Symington)	12¼"	2.90
1077	Pt. 49-27 for above models (Oxford)	12"	2.90
1295	Pt. 49-47, Model 410, 411, 420, 520, 521 (Utah 10C)	10"	2.50

FOR AUTOMOBILE SPEAKER REPLACEMENT CONES, ASK FOR COMPLETE CARRON CATALOG

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FIELD COILS — CARRON — ACCESSORIES

"A CARRON CONE IMPROVES THE TONE"

REPLACEMENT FIELD COILS

Our No.	Mod.	Spkr.	I.D. (Inches)	O.D. (Inches)	L. (Inches)		List
APEX GLORITONE							
3001	26	2286	1¼	2⅝	1½	11,500T	$2.75
3002	26A	2467	1	2¼	1¾	11,500T	2.75
3004	26P	2925	⅞	2¼	1	11,500T	2.75
3006	27	1936	1¼	2¼	1½	11,000	2.75
3008	8A	2801	⅞	2¼	1	6,600T	2.75
3009	10B	2802	1⅛	2¾	1⅜	6,600T	2.75
3011	24	.....	1⅛	2⅜	1	2,500	4.40
AIRLINE (Montgomery-Ward)							
3181	61-72					12,500T	4.00
ATWATER-KENT							
3017	Models 46, 53, 47 (Speaker F2) Early, Late 55K					1,700	6.00
3018	(Speaker F4) Early and Late, 55, 60					1,100	6.00
BOSCH							
3021	Model 48					2,000	6.00
3023	Model 5A					2,000	4.00
BRUNSWICK							
3024	Model D11, 12, 16, 18, 33					2,400	4.20
CROSLEY							
3041	Model M45					1,500	4.40
3042	Model M45					2,500	4.80
3043	Model 269					10,000	4.00
3246	Model 167 Type 335-3					1,200	2.25
3249	Model 167 (Magnavox)					1,100	2.80
GRUNOW							
3198	5A, Model 500, 504					1,850	4.00
JENSEN							
3058	Models D7-D8					1,500	4.40
3059	Models D7-D8					2,500	5.00
KENNEDY							
3072	Model 52A					2,500	3.50

Our No.	Mod.	Spkr.	I.D. (Inches)	O.D. (Inches)	L. (Inches)		List
LYRIC							
3073	Model No. 9					5,000	7.00
3074	Model 70, 73, 85					10,000	4.50
MAGNAVOX							
3075	9 in. (Medium) D7, D8					2,500	6.50
MAJESTIC							
3084	Model G1					3,100	8.00
3085	Model G2					2,730	8.00
3086	Model G3					2,730	7.50
3088	Model G5					7,650	8.00
3093	Model G10B					1,750	4.00
3110	Model G19F					710	2.70
3111	Model G19G					710	2.70
PHILCO							
3129	Model 20					3,100	2.00
3130	Models 86, 87, 65, 95, 76, 96, 77					3,200	4.50
3195	Model 70					3,600	2.00
RCA-VICTOR							
3132	Model 66					7,000	4.75
3134	Model 106					6,000	5.00
ROLA							
3140	Model F4					3,000	2.75
3137	Model K					4,700	4.00
3274	Model G12					2,500	6.00
SILVERTONE (Sears-Roebuck & Co.)							
3143	Model 117					800	4.00
3144	Model 1408					1,650	4.50
STEWART-WARNER							
3149	Model 950					10,000	8.00
3150	Model R202					10,000	4.00
TEMPLE							
3163	(All Models)					2,250	7.00
VICTOR							
3167	Model R32, 45, 75					2,950	5.80



CARRON SPEAKER CONE CEMENT

Made Particularly for Speaker Work. Fast Drying, Quick Adhesion.

This cement is of the all-purpose type, and can be used in many of your repair jobs.

List Price 42c



CARRON RADIO REPAIR CEMENT KIT

Carron Radio Repair Cement Kit manufactured expressly for speaker repair work. Kit consists of one two-ounce metal can of cement, one two-ounce metal can of thinner, together with brush. Used for cementing leads, voice coil, R.F. coils, chokes, etc. The thinner is used for loosening wires, breaking down cemented parts, etc. If cement hardens mix thinner with it, and the cement will become as efficient as ever.

This cement and thinner is the same as that used by many of the leading speaker manufacturers in the country. For efficiency in your speaker repair work, use Carron Cement Thinner, and avoid the difficulties which accompany all experimentation.

List Price.....$0.62½ per Kit

CARRON PERMEABILITY COIL DOPE

To increase inductance of low coils, or for matching odd coils, just smear it on.

A very effective medium of solving many of your coil difficulties. On tubular coils, apply dope to inside of form.

List Price $0.42





CARRON MIDGET SOLDERITE KIT

Smallest Electric Soldering Iron on the Market

Length 7 inches overall. Weight 5½ ounces including cord and plug. Operates on either AC or DC Current. Handy. Compact. Practical. Heats instantly. Stays hot. Full 20 watt rating—with special patented design for concentrated heat that permits work of bigger soldering irons.

No. 105—110 Volt AC or DC.....List $1.25

No. 106—For 6 Volt Battery, Especially For Farm Use .....List 1.25

CARRON SPEAKER CENTERING SHIMS



In order to properly hold the speaker diaphragm in place while it is being glued or screwed into the speaker, it is absolutely necessary to have the proper thickness shim, to guard the voice coil from moving around during this operation.

Carron Speaker Centering Shims are made of very flexible celluloid, in four different thicknesses and four distinct colors. Each size and thickness has its own compartment in a specially constructed leather case, and is so marked on the case.

No serviceman, doing speaker work, can possibly get along without one of these inexpensive and convenient cases. **List Price $0.60**



CARRON TUNING WAND

With Genuine Cat-Gut Shaft

For checking alignment in all wave receivers without disturbing the trimmer adjustments. . . . An extremely flexible rod, made of genuine catgut, with a brass cylinder colored yellow on one end, and a special powdered iron core, colored grey, on the other end. . . . By inserting the brass cylinder, colored yellow, into a coil, the inductance is lowered. Inserting the iron core, colored grey, inductance is increased. . . . Because of the genuine catgut shaft in this wand, it is possible to make adjustments in coils mounted on side, or in other positions inaccessible to a less flexible wand, as this can be bent practically in half without damage. . . . Packed in specially designed tubular container, wand can be carried in vest pocket, ready for use while out on a service call. .....**List $1.00**

MAGNETIC COILS

RCA 100, Western Electric 540-AW, RCA Model 30. Per pair .....**List $0.75**
RCA 100A, 100B, 103, used in RCA receivers 30A, 50 and 51. Per pair .....**List $0.75**

UTAH ORTHOVOX COILS For High Impedance Tubes

Types 10, 12A, 18, 19, 20, 31, 33, 38, 41, 42, 46, 47, 79, 59, 89, 2A5, 6A4, LA, 6A6 in push-pull and single types 38, 49, 12A7. For any type of Output tubes in single or push-pull having a total primary load impedance of 12,000 to 18,000 ohms. .....**List $0.75**

For Medium Impedance Tubes

Types 43, 45, 71A in push-pull and single types. 10, 12A, 18, 19, 20, 31, 33, 38, 41, 42, 43, 46, 47, 49, 59, 89, 2A5, 6A4, 6A6, 12A5, LA, GA, PZ. For any type of output tube in single or push-pull having a total primary load impedance of 7000 to 12,000 ohms. .....**List $0.75**

For Low Impedance Tubes

Types 48, 2A3 in push-pull and single types 43, 45, 59, 71A, 12A5. For any type of tube in single or push-pull having a total primary load impedance of 3000 to 6000 ohms. .....**List $0.75**

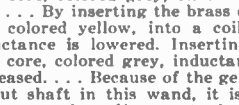
FOR UTAH ORTHOVOX SPEAKERS Used with P. A. Amplifier

500 ohm impedance coil. 1000 ohm impedance coil .....**List $0.75**

BEST KINEMATIC COILS

For High impedance tubes .....**List $0.75**
For Medium impedance tubes .....**List .75**
For Low impedance tubes .....**List .75**

Classification of Output Tubes Above—We can furnish any other magnetic coil made to exact physical and electrical dimensions if we have the original to rewind.



CARRON DIALUMINATOR

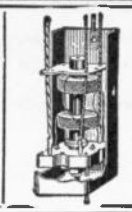
A dial Lite Coloring Kit, consisting of five ¼ oz. jar type bottles, having large opening for easy dipping. Four colors: red, green, blue and brown. One bottle of solvent.....**List $0.50**

YOU CAN OBTAIN THE COMPLETE CARRON CATALOG FROM US.

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EXACT DUPLICATE CARRON REPLACEMENT COILS

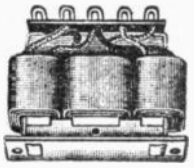
"A CARRON CONE IMPROVES THE TONE"



These coils are exact duplicates of the original in physical and electrical characteristics. All coils are thoroughly impregnated to withstand any and all atmospheric conditions.

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.	Mfrs. Part No.	Model	List Price
APEX GLORITONE			
D4151		Model 7A-99 1st I. F. & Oscillator Complete	2.50
D4161		Model 24 Chassis 400 Autodyne 1st I. F. & Osc	3.00
BELMONT			
D4003		Part No. C119 Model 50C, 1st I. F. & Oscillator complete	2.50
D4005		Model 50, Preselector Coil	1.00
CLARION			
D4125		Model 220, 1st I.F. and Oscillator complete	2.50
D4074		Model 220, Output I.F. Coil only	1.00
D4128		Model 32b, 1st I.F. and Oscillator complete	2.50
D4129		Model 320, 2nd I.F. Coil complete	1.50
D4130		Model 320, Preselector Coil	1.25
CROSLEY			
D4083	W21322	Model 58, R.F. Coil only	1.30
D4081	W20445	Model 53, 54, 57, R F. Coil only	1.00
D4082	W20444	Model 53, 54, 57, Ant. Coil only	1.00
D4084	W21323	Model 58, Ant. Coil only	1.00
D4087	W22603	Model 124, 1st I.F.T. complete	1.75
D4143		Model 124, 2nd I.F.	.75
MAJESTIC			
D4035	4428	Model 15-15B, 1st I.F.T. and Oscillator	2.50
D4083	4429	Model 15-15B, 2nd I.F.T. complete	1.50
D4121	3968	Model 20, 1st I.F. Coil complete	2.50
D4122	3960	Model 20, 2nd I.F. Coil complete	3.00
D4157	5768	Model 35, 1st I.F. Coil complete	2.50
D4148	5771	Model 35, 2nd I.F. Coil complete	1.50
D4094	4339	Model 60-160, 1st I.F. Coil complete	3.00
D4095	4267	Model 60-160, 2nd I.F. Coil complete	3.00
D4078	4724	Model 120, 1st I.F. Coil complete	2.25
D4909	4727	Model 120, 2nd I.F. Coil complete	2.25
D4049	6984	Model 120B, 1st I.F. Coil complete	2.50
D4048	6824	Model 200, 2nd I.F. Coil complete	2.00
D4111	10148	Model 460, 1st I.F. Coil complete	1.50
D4112	10253	Model 460-800, 2nd I.F. Coil only	.85
D4113	10843	Model 500, 1st I.F. Coil complete	2.75
D4114	11705	Model 500, 2nd I.F. Coil complete	2.00
D4115	10852	Model 1500, 3rd I.F. Coil complete	4.00



MAJESTIC REACTANCE DIMMER ASSEMBLY

S561 7785 Pt. 7785, used in Majestic Model 300, 300A, 320, 340 and other models using pilot light dimmer circuit. Complete ready to install. Uses heavier built primary than original. Will outlast original 1.50

PHILCO			
D4262	06662	Model 19, R.F.	.55
D4318	32-1153	Model 57, 58, R.F.	.60
D4314	32-1412	Model 66, R.F.	.85
D4326	03082	Model 70, 35, 470, R.F.	.75
D4329	03091	Model 70, 470, I.F.	.90
D4331	04190	Model 70, 71, I.F.	.50
D4333	32-1030	Model 84, R.F.	.60
D4331	32-1310	Model 84, R.F.	.40
D4335	32-1313	Model 84 I.F.	1.05
D4347	04409	Model 90, Osc.	.80
R. C. A.			
D4081	8557	Models 80, 82, 86, RAE 68, 1st I.F. Coil only	1.00
D4055	8556	Model 80, 82, 86, RAE 68, 2nd I.F. Coil only	1.00
D4056	8565	Model 80, 82, 86, RAE 68, 3rd I.F. Coil only	1.00
D4057	3636	Model M34, M105, 1st I.F.	.80
D4058	3637	Model M34, M105, 1st I.F.	.80
D4153	2992	Model R7, R7A, R9, 10DC, RAE 16, 2nd I.F.	1.00
STEWART-WARNER			
D4078		Model R116, Ant. Coil, Complete	1.00
D4154		Model 1231, R123A, 2nd I.F. Coil only	.75
ZENITH			
D4159		Model 91, R.F. Coil	1.00
D4160		Model 91, 1st I.F. Coil, complete	1.50



IRON CORE COILS

Our No.		List Price
S535	R.F. Coil	1.00
S536	Antenna Coil Gain and selectivity double that of ordinary coils. Midget size. Litz secondary high impedancy primary. Complete in can. 1⅝x1¾. We recommend these coils unqualifiedly.	1.00
S542	451 KC. I.F.T. Double tuned in square can, 1⅝x1¾x3. Double gain and selectivity of similar size air core type. May be used to replace 1st I.F. in any type 456 K.C. superheterodyne to improve performance.	2.00
S564	Same as above, except for output use	2.00

Our No.		List Price
MAJESTIC PAPER SECTION COILS ONLY		
P4428	Model 15, 15B, 150, 1st I.F.	.60
P4429	Model 15, 15B, 150, 2nd I.F.	.70
P5326	Model 25, 1st I.F.	.70
P5337	Model 25, 2nd I.F.	.90
P5602	Model 25B, 1st I.F.	.90
P5601	Model 25B, 2nd I.F.	.70
P6306	Model 55, 1st I.F.	.70
P6384	Model 55, 2nd I.F.	.90
P10589	Model 66, 1st I.F.	.70
P10058	Model 66, 2nd I.F.	.70
P7643	Model 114, 2nd I.F.	.70
P6355	Model 116, 1st I.F.	.70
P6351	Model 116, 2nd I.F.	.70
P6987	Model 120B, 2nd I.F.	.70
P6250	Model 200, 1st I.F.	.70
P6254	Model 200, 2nd I.F.	.90
P6119	Model 210, 1st I.F.	.70
P6123	Model 210, 2nd I.F.	.70
P6 27	Model 210, 3rd I.F.	.70
P6558	Model 220, 1st I.F.	1.00
P6572	Model 220, 2nd I.F.	.70
P6572	Model 220, 3rd I.F.	1.00
P7205	Model 290-300, 1st I.F.	.70
P7230	Model 290-300, 2nd I.F.	.90
P7821	Models 301A, 310B, 330, 800, 1st I.F.	.70
P7812	Models 301A, 310B, 330, 800, 2nd I.F.	.80
P9094	Model 320, 2nd I.F.	.70
P9069	Model 400, 1st I.F.	.70
P10148	Model 460, 1st I.F.	.70
P10253	Model 460, 2nd I.F.	.85
P10843	Model 500, 1st I.F.	.70
P11705	Model 500, 2nd I.F.	.70
P11014	Models 520, 800, 2nd I.F.	.90
P8729	Antenna Choke	.50
P8857	R.F. Choke	.50

STANDARD R.F., ANTENNA, PRE-SELECTOR, OSCILLATOR COILS

S519	R.F. Coil	$0.80
S523	Antenna Coil Litz wound, high impedance primary, complete in round can, 1⅞x2¼. This is a very selective type of coil, used in the popular 4-tube AC midget sets.	.80
S520	R.F. Coil Enameled wire, high impedance primary, complete in round	.75
S525	Antenna Coil can, 1⅞x2¼. Used in popular AC 4-tube midget sets.	.75
S521	R.F. Coil	.70
S524	Antenna Coil Litz wound, high impedance primary, with mounting brackets, unshielded. Recommended for use in the popular AC-DC midget sets.	.70
S522	R.F. Coil	.60
S526	Antenna Coil Enamel wire, high impedance primary, with mounting brackets, unshielded. Used in the popular AC-DC sets. Will perform well, but not as effectively as Litz wire coils, our S521 and S524.	.60
S530	R.F. Coil	.60
S531	Antenna Coil Litz wound, low impedance primary, complete in round can, 1⅞x2¼. Recommended for replacement purposes in sets now using this type of coil.	.60
S532	R.F. Coil	.75
S533	Antenna Coil Litz wire, midget size, 5 pie, high Q winding, high impedance primary, with mounting brackets, unshielded. Size 1½x¾. Gives excellent results where space is limited.	.75
S534	Antenna Coil. Dowel Type With terminal strip and mounting brackets. Duo-lateral wound Litz secondary. Size ½x1¼. Is used in majority of 5-tube, 456 K.C. superheterodyne sets.	.85
S517	Pre-selector Coils 550 to 1700 K.C., complete in square can 2x2x3". Can be used to replace the solenoid type of pre-selector coil used in many sets.	1.00
S527	Oscillator and 1st I.F. Combination For sets using pentagrid tubes, complete in square can, 1⅝x 2x3½. Specify I.F. frequency.	1.75
S528	Oscillator, Duo-Lateral Coil 175 K.C., for use with pentagrid tube. Wound on dowel, ½x1". Color coded terminal strip. For use with .001 padder.	.85
S529	Oscillator, Duo-Lateral Coil 456 K.C., for use with pentagrid tube, wound on dowel ½x1." Color coded terminal strip. For use with .0005 padder.	.85

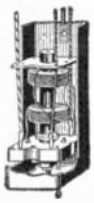
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SPECIALTY CARRON COILS

"A CARRON CONE IMPROVES THE TONE"

STANDARD I. F. TRANSFORMERS



Our No.		List Price
S501	175 K.C. double tuned, complete in round can, 1¼x2¾	$1.25
S502	175 K.C., double tuned, with tapped secondary, complete in square can, 2x2x3"	1.75
S507	175 K.C. double tuned, complete in square can, 1⅜x1⅜x3. Used in practically all types of auto sets	1.25
S509	456 to 465 K.C., single tuned, complete in square can, 1⅜x1⅜x3	1.20
S510	456 to 465 K.C., double tuned, complete in square can, 1⅜x1⅜x3	1.25
	diode tubes	1.50
S543	456 K.C., coil only. Duo-lateral Litz winding on treated wood dowel, ⅝x2½"	.75
S537	175 K.C., coil only. Duo-lateral Litz winding on treated wood dowel, ⅝x2½"	.75

BEAT FREQUENCY OSCILLATOR



MICA TUNED

Our No.		List Price
S540	Used with any superheterodyne receiver. Can be furnished in any frequency from 175 to 525 K.C. (specify frequency). Diagram furnished	1.75

AIR TUNED

S559	Used with any superheterodyne receiver. Can be furnished in any frequency from 175 to 525 K.C. (specify frequency). Diagram furnished	4.00



SLIP OVER TYPE SECONDARY WINDINGS

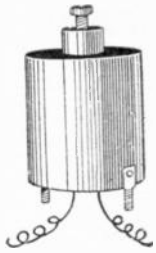
Carron replacement secondaries of all types are wound with Litz wire unless otherwise listed. The inductance is purposely made higher than necessary in any case and must be altered by removing turns to match circuit conditions. In case too many turns are removed accidentally, the inductance can, in most cases, be brought up by the proper application of permeability coil dope.

Our No.		List Price
S738	Two bank winding, 10-41 litz on treated paper tube size ⅞"x2½", may be used for either R. F. or antenna secondary	$ .50
S739	Single layer No. 30 P.E. wire on bakelite tube 1¼" x 2½", may be used for either R.F. or Antenna secondary	.45
S740	Duo-lateral winding on paper tube, made to slip over ½" wood dowel, size: O.D. ⅞" I.D ½", width 3/16", used in dowel type antenna and preselector coils	.30
S741	Duo-lateral two pie winding made to slip over ½" wood dowel, size of winding ⅝"x½"	.45

KIT OF REPAIR PARTS

S752 12 pieces most generally used by the service man, consisting of the following: 2—Antenna primary windings, our S701. 1—Antenna primary winding, our S706. 2—Antenna primary windings, our S703. 2—R.F. Plate primary coils, our S725. 1—175 K.C. I.F.T. winding, our S731. 1—175 K.C. I.F.T. winding, our S732. 1—175 K.C. I.F.T. winding, our S733. 1—456-500 K.C. I.F.T. winding, our S736. 1—Bank wound R.F. secondary coil, our S738 complete kit 4.25

I. F. INTERFERENCE SIGNAL REJECTOR PERMEABILITY TUNED



Our No.		List Price
S568	450-490 K.C.	$2.50
S569	150-200 K.C.	2.50
S570	250-280 K.C.	2.50

Very effective for eliminating interference coming in through the Antenna High "Q" tuned circuit. Tuned by an iron core. Much more efficient than old condenser tuned type.

NOISE SUPPRESSOR I.F. TRANSFORMERS

No.		Price
S560	Designed for use in the new noise suppression circuit as described in Q.S.T. Single tuned with center topped secondary	1.50

CARRON COIL TEST SET

AN EXCLUSIVE CARRON DEVELOPMENT

Makes Coil Matching and Testing As Easy as Testing a Tube



Patent Pending

1—Instantly determines the frequency of an unknown I.F. transformer, and the size trimmer necessary to tune it.

2—Permits exact matching of any unknown R.F. or I.F.T. winding with other coils.

3—Identifies oscillator coil for 456, 175 and other frequencies.

4—Coupling (mutual inductance) may be set or matched accurately on any R.F. transformer.

5—Permits comparison of coil efficiency (Q factor) of any winding, a quick convincing method of demonstrating the difference in "Pep," sensitivity and selectivity of the various types of windings, such as duo-lateral and bank litz windings, enameled wire single layer windings, iron core coils, etc.

This instrument includes a stable test oscillator with six switch selected test frequencies; a calibrated air condenser, and a sensitive bridge type vacuum tube voltmeter, employing a high grade 0-1.5 milliampere foundation meter. This vacuum tube voltmeter alone is worth more than we ask for the complete set.

No batteries are required. Designed for use on 110-120 volts, either AC or DC.

Complete with R.C.A. tubes, and complete instructions ... **List $32.50**

No service shop or laboratory can be complete without this instrument.

CARRON INTER-OFFICE 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 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.

The entire system, complete, consisting of amplifier with tubes, two station units, and 50 feet of transmission cable equipped with plugs for instant installation **List $32.50**
For use on either AC or DC, 110-120 volts, any cycle.
Extra station units and additional cable lengths, at nominal charge. Prices on request.

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WRIGHT DeCOSTER

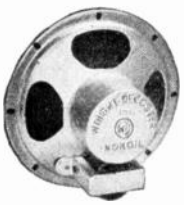
PERMANENT MAGNET
NO FIELD COIL

NOKOIL

DYNAMIC REPRODUCERS
NO FIELD DRAIN

Twelve Months Ago The Word Nokoil Was Used to Introduce The Small P. M. (Permanent Magnet) Speaker.
No Heat Being Generated In The Fields, The Voice Coils In The Nokoil Reproducers Will Handle More Power.

NOKOIL 82 SERIES



6" P. M. Reproducer

82 Series NOKOIL Models are splendid for improving radio reproduction. Voice coil ¾". Power handling capacity 3½ watts. Voice coil impedance 5.43 ohms at 400 cycles. Diameter of cone bracket 6⅜". Depth 2⅝". Shipping weight 2¼ lbs. Universal transformer matching all output tubes is standard.

Model 582... Code: WADLE ... **List $5.82**



8" P. M. Reproducer

Due to the tremendous coercive force of the material in the magnet of the Nokoil, it has long lasting efficiency. Voice coil ¾". Power handling capacity 3½ watts. Voice coil impedance 5.43 ohms at 400 cycles. Diameter of cone bracket 8¼". Depth 3⅛". Shipping weight 2¾ lbs. Universal output transformer matching all output tubes is standard.

Model 682 ..... Code: WAYER..... **List $6.82**

PLAY SAFE
USE THE WORD
NOKOIL
WHEN ORDERING
P. M. SPEAKERS

5" P. M. REPRODUCER



For auto radio and inter-communication talk-back systems. Voice coil ¾". Power 3½ watts. Voice coil imp. 5.43 ohms at 400 cycles. Univ. trans. matches all tubes. Cone bracket 5". Depth 2½". Weight 2 lbs. Code: WORLF.

Model 482... **List $4.82**

NOKOIL 80 SERIES

6" P. M. Reproducer

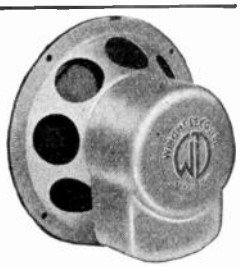
80 Series NOKOILS all have permanent magnets and transformers completely shielded. Voice coil 1". Power handling capacity 7½ watts. Voice coil impedance 5.05 ohms at 400 cycles. Diameter of cone bracket 6⅜". Depth 4¼". Shipping weight 2¾ lbs. Universal transformer matching all output tubes is standard.



Model 880....Code: WELDT... **List $8.80**

8" P. M. Reproducer

The 80 Series have sensitivity and power handling capacity which makes these units perfect for small indoor sound installations. Voice coil 1". Power handling capacity 7½ watts. Voice coil impedance 5.05 ohms at 400 cycles. Diam. cone bracket 8¼". Depth 4¾".wt. 3¼ lbs. Universal transformer matching all output tubes is standard.

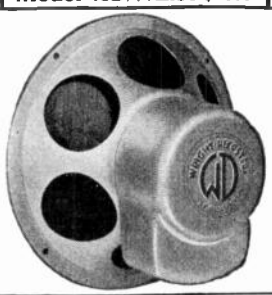


Model 980... Code: WEMBR... **List $9.80**

10" P. M. REPRODUCER

This small magnet is less susceptible to loss from touching outside metal than other magnets, yet due to its size we are able to perfectly shield it with a non-magnetic metal covering. Voice coil ¾". Power handling capacity 3½ watts. Voice coil impedance 5.43 ohms at 400 cycles. Diameter of cone bracket 10⅛". Depth 5 1/16". Shipping weight 4½ lbs. Universal output transformer matching all output tubes, is standard.

Model 782... Code: WHOPS... **List $7.82**



10" P. M. REPRODUCER

The Model 1180 is adapted to indoor sound installations and full console radios where power handling capacity and sensitivity are both required. Voice coil 1". Power handling capacity 7½ watts. Voice coil impedance 5.05 ohms at 400 cycles. Diameter of the cone bracket 10⅛". Depth 5 1/16". Shipping weight 5 lbs. Universal transformer matching all output tubes is standard.

Model 1180...Code: WEPRO... **List $11.80**

12" P. M. REPRODUCER

An Ultra-Sensitive Speaker for Radio Receivers

A splendid, sensitive 12" speaker for improving radio sound reproduction. Voice coil ¾". Power handling capacity 3½ watts. Voice coil impedance 5.43 ohms at 400 cycles. Shipping weight 7½ lbs. Universal output transformer matching all output tubes is standard.

Model 982..Code: WANDS.. **List $9.82**



12" P. M. REPRODUCER

Ideal for Record Playing Devices, Radio or Indoor Sound Installations

Suitable for high power radio, electric record playing devices and any type of indoor sound application. Voice coil 1". Power handling capacity 7½ watts. Voice coil impedance 5.05 ohms at 400 cycles. Shipping weight 8 lbs. Universal output transformer matching all output tubes is standard.

Model 1380..Code: WATKI.. **List $13.80**

SUPER SENSITIVE
MODERATE PRICE

Dust-Proof **Rust-Proof**

SUPER POWER
HIGHEST QUALITY

Weather-Proof **Fool-Proof**

For Public Address work. Voice coil 1½". Power handling capacity 15 watts. Voice coil impedance 5.5 ohms at 400 cycles. Shipping weight 8½ lbs. Diameter of cone bracket 12⅛". Depth 7". Width at back 6½". Universal transformer matching all output tubes is standard.

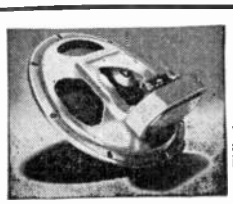
Model 1984 ..... Code: WILOT..... **List $19.84**

HYFLUX

● METAL DUST-PROOFING

Model 400—6". Impedances: A—7000 ohms for single output tubes; B—10,000 ohms for push-pull and class B; C—500-1000 ohms for P. A. use. Any impedance furnished at no extra cost. A—7000 ohms furnished standard. Diameter of cone bracket 6½". Depth 2⅝". Wt. 1⅝ lbs.

Model 400.....Code: WESEL.....**List $4.00**



REPRODUCERS

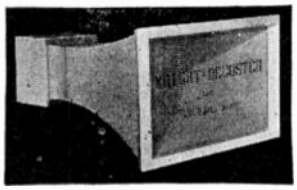
● BAKELITE COIL FORM

Model 450—8". Same as Model 400—6" except for size. Diameter of cone bracket 8". Depth 2⅜". Shipping weight 2¼ lbs. Schools equipped with Hyflux Reproducers are assured of clear, distinct reproduction which can always be easily understood by the pupils.

Model 450.....Code: WEARD.....**List $4.50**

WRIGHT-DeCOSTER "WEATHER-PROOF" HORNS

SILVER HORN and SPEAKER



COMPLETE WITH SPEAKER UNIT

An inexpensive reproducer and weather proofed horn for use in hotels and small auditoriums. Field resistance 2500 ohms. Special field resistance furnished, no extra charge. Field dissipation, max. 12 watts, min. 6 watts. Voice coil impedance 5 ohms. Length 27¼"; Bell opening 22¼"x14". Weight: 15 lbs. Transformer furnished to match any impedance.

Model 2050—Less Transformer **List $20.50**
Code: WEEDS

Model 2300—With Transformer **List $23.00**
Code: WEEPS



WOOD "CABINETTE"

The CABINETTE is designed to satisfy the most exacting critic. The dark walnut finish, with lace edges of base and top black walnut creates a most effective contrast. The CABINETTE may be hung on the wall without any mounting shelf. 10¾" high, 12½" wide, 5½" deep. Weight: 6½ lbs.

Model 1026—Cabinet only.....**List $10.26**
Code: WILKE

Hyflux Equipped

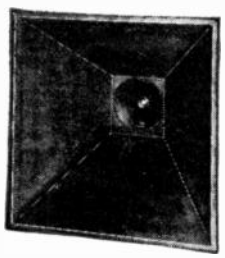
Model 1296—8" Code: WACER **List $12.96**

Nokoil Equipped

Model 1526—8" Code: WHIPS **List $15.26**
Model 1626—10".....**List $16.26**
Code: WHAME

Electro-Dynamic Equipped

Model 1436—8" Code: WAVER **List $14.36**
Model 1536—10" Code: WODEL **List $15.36**



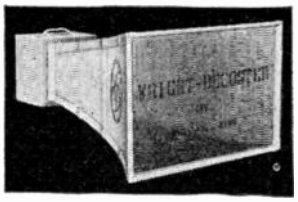
DIRECTIONAL BAFFLE

PATENTED

Hardwood interior surface for adequate high frequency transmission. Soft insulating exterior prevents vibration. Baffle opening for 12" speaker. 37½" wide, 37½" high, 20½" deep.

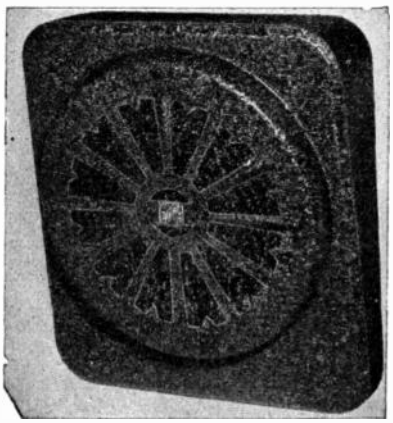
Model 2750..Code: WRUNG..**List $27.50**

SILVER "STADIUM" HORN



For "Stadium" Speakers. Reinforced and bound with metal. Guaranteed weather-proof. Screen across opening excludes all foreign substances. Length 48"; Bell opening 30"x21½". Wt. 91 lbs.

Model 5000...Code: WAGER...**List $50.00**



ILLUSTRATING THE APPEARANCE OF THE MODEL 586 ON THE WALL

Ideal for centralized sound installations in schools, hotels, etc. Furnished with or without mounting holes for volume control and selector switch. The Model 576 provided with metal conduit box and Model 586 provided with walnut finished wooden mounting trim for installation.

Flush Wall Mounting Cabinet—12" wide, 14" high, 5½" deep, incl. conduit box. Wt. 6¾ lbs.
Surface Wall Mounting Cabinet—Height 13¾", width 12¼", top depth 4½", otton depth 1¾". Weight: 5 lbs.

Model 576—Flush Cabinet only....**List $5.76**
Code: WERST

Model 586—Surface Cabinet only..**List $5.86**
Code: WISTE

Hyflux Equipped

Model 916—Flush 8".....**List $9.16**
Code: WOMPS

Model 926—Surface 8".....**List $9.26**
Code: WOLKS

Nokoil Equipped

Model 1146—Flush 8".....**List $11.46**
Code: WHITE

Model 1156—Surface 8".....**List $11.56**
Code: WIELD



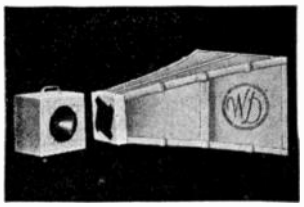
"PORT-A-CASE" MODELS

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" high, 14⅝" wide, 10½" deep. Weight: 12 lbs.

Model 1176—Port-A-Case only.....Code: WHORT.....**List $11.76**
Model 1556—Equipped with 10" Model 690.....Code: WADDY.....**List $15.56**
Model 1646—Equipped with 10" Model 782.....Code: WERRE.....**List $16.46**
Model 1846—Equipped with 12" Model 982.....Code: WINLE.....**List $18.46**
Model 1856—Equipped with 12" Model 990.....Code: WAFLE.....**List $18.56**
Model 2356—Equipped with 12" Model 1490.....Code: WROME.....**List $23.56**
Model 2456—Equipped with 12" Model 1590.....Code: WILST.....**List $24.56**
Model 2856—Equipped with 12" Model 1990.....Code: WILPS.....**List $28.56**

SILVER "PORT-A-HORN"



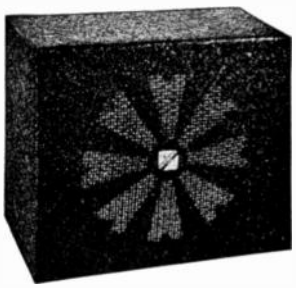
COMPLETE WITH SPEAKER UNIT

Baffle or horn at a moment's notice. Completely reinforced and weather-proofed. Three input impedances—500, 1500, and 4000 ohms. Field resistance 6000 ohms.

One Model 1614 Field Supply handles 1 to 3 Port-A-Horns. One Model 514 Field Supply operates 1 Model 6000 Port-A-Horn with 1700 ohm field.

Length 39¼"; Bell opening 28"x18½"; Unit housing 10¼"x7¼". Weight: 77 lbs.

Model 6000...Code: WAVES...**List $60.00**



MULTI-PURPOSE METAL CABINET

A high quality, high efficiency separate speaker for use by "Hams", amateurs, experimenters, and sound engineers. 10" wide, 9" high, 5" deep. Weight: 3¾ lbs.

Model 426—Cabinet only.....**List $4.26**
Code: WINCE

Hyflux Equipped

Model 756—6" Code: WOPER **List $7.56**
Model 806—8" Code: WALER **List $8.06**

Nokoil Equipped

Model 936—6"..Code: WIDEN..**List $9.36**
Model 1036—8".Code: WHILE.**List $10.36**

Electro-Dynamic Equipped

Model 846—6" Code: WEARY **List $8.46**
Model 946—8" Code: WAIFS **List $9.46**



VEHICLE CABINETS

The ideal method of properly installing separate speakers in automobiles, sound trucks, etc. Electro-dynamic speakers have 6-volt, 9-watt fields. 9½" high, 9½" wide, 4" deep. Weight: 2¾ lbs.

Model 226—Cabinet only.....**List $2.26**
Code: WHISH

6-Volt Electro-Dynamic Equipped

Model 646VS—6", 6-volt.....**List $6.46**
Code: WELSH

Model 746VS—8", 6-volt.....**List $7.46**
Code: WRECK

Nokoil Equipped

Model 736VS—6" Code: WIGAN **List $7.36**
Model 836VS—8" Code: WHIPT **List $8.36**

Jensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality



The New Jensen 18-inch Speakers

. . . The Largest . . . Most Powerful . . . and Most Capable Speakers ever offered . . . Completely Dust and Dirt Proofed . . .

The size and unusual performance ability of these speakers might classify them as special purpose speakers but certainly only in the sense that their use will be demanded where the absolute in performance is the essential requirement. In all models amplitude distortion has been reduced to a minimum never before reached; middle frequency response has been improved, and power handling and efficiency factors increased beyond any point previously available in loud speakers. The High Frequency Models (HF) provide remarkable extended range performance out to 9000 cycles. The Standard Fidelity Models (M) do not have the extended range performance and are particularly recommended for more general applications, the high frequency range extending to approximately 5500 cycles. V Models are especially recommended where the reproduction of voice is the principal requirement, since they have rising efficiency in the middle and upper frequency range. L Models are specifically for use in wide range systems and provide greatly improved low frequency response with sharp attenuation above 3000 cycles.

GENERAL DESIGN DATA

Frequency Response . . . Frequency response varies in accordance with the discussion above. For more specific information write to our Engineering Department. **Power-Handling Capacity . . .** From 25 to 40 watts. Distortion products at the minimum value are exceptionally low and even at the maximum value less distortion is introduced than that generally present in so-called "high power" loud speakers. **Efficiency . . .** The highest degree of conversion efficiency ever attained in electro-dynamic cone speakers is incorporated in these new 18-inch models. The actual efficiency of course depends on the frequency selected for the measurement, but in all cases these speakers are several hundred percent more efficient than 12-inch speakers of conventional design. **Voice Coil Impedance . . .** All voice coils have a nominal impedance of 8 ohms at 400 cycles. **Field Coil Wattage . . .** Maximum 33; normal 26; minimum 20. **A.C. and D.C. Designs . . . Weight Packed . . .** A.C. models 78 lbs.; D.C. models 68 lbs.

MODEL		Less Input with 8 ohm voice coil Type	With 500 ohm input Type	With 4400 ohm center tapped input Type	LIST PRICE With Input	LIST PRICE Less Input
FOR A.C. OPERATION						
L-18A.C.	110v.-60 Cy.	5701	5704	5707	$89.50	$86.50
	110v.-25 Cy.	5702	5705	5708	96.50	93.50
M-18A.C.	110v.-60 Cy.	5801	5804	5807	89.50	86.50
	110v.-25 Cy.	5802	5805	5808	96.50	93.50
V-18A.C.	110v.-60 Cy.	5901	5904	5907	89.50	86.50
	110v.-25 Cy.	5902	5905	5908	96.50	93.50
HF-18A.C.	110v.-60 Cy.	6001	6004	6007	92.50	89.50
	110v.-25 Cy.	6002	6005	6008	99.50	96.50
FOR D.C. OPERATION						
L-18D.C.	110v. Field	5710	5713	5716	$64.50	$61.50
	220v. Field	5711	5714	5717	64.50	61.50
	Field for FS-1	5712	5715	5718	64.50	61.50
M-18D.C.	110v. Field	5810	5813	5816	64.50	61.50
	220v. Field	5811	5814	5817	64.50	61.50
	Field for FS-1	5812	5815	5818	64.50	61.50
V-18D.C.	110v. Field	5910	5913	5916	64.50	51.50
	220v. Field	5911	5914	5917	64.50	61.50
	Field for FS-1	5912	5915	5918	64.50	61.50
HF-18D.C.	110v. Field	6010	6013	6016	67.50	64.50
	220v. Field	6011	6014	6017	67.50	64.50
	Field for FS-1	6012	6015	6018	67.50	64.50

Auditorium Speakers

. . . Undeniably the Best Known and Respected High Quality Loud Speakers available . . . Second only to the New Jensen 18-inch Speakers in Performance, Efficiency, and Power-Handling Ability . . . Recommended for every use where Efficiency and Accuracy of Reproduction are Prime Requirements . . .



In efficiency, response characteristics, and a high degree of all-around excellence, Jensen Auditorium Speakers have consistently set the highest standards. Three types of response characteristics are offered. Series M Speakers are generally used where good overall performance is required, such as for the reproduction of both voice and music. Series V Speakers provide predominant efficiency in the middle high frequency range and are to be preferred where voice reproduction is the chief requirement. Series L Speakers provide predominant efficiency in the low frequency range and are not used except as a part of Jensen Full Range Installations in conjunction with suitable filters and high frequency reproducers. HF Models provide extended range performance with uniform response out to 8000 cycles

MODEL		With Regular Input Type	With 500-ohm Input Type	Less Input with 8-ohm V.C. Type	LIST PRICE With Input	LIST PRICE Less Input
M-10A.C.	110v.-60 Cy.	3001	3009	3005	$76.50	$73.50
	110v -25 Cy.	3002	3010	3006	83.50	80.50
M-20D.C.	110v.-D.C.	3051	3057	3054	51.50	48.50
	220v.-D.C.	3052	3058	3055	51.50	48.50
M-20D.C.	Field for FS-1 or FS-2	3060	3062	3063	51.50	48.50
V-10A.C.	110v.-60 Cy.	3101	3109	3105	76.50	73.50
	110v.-25 Cy.	3102	3110	3106	83.50	80.50
V-20D.C.	110v.-D.C.	3151	3157	3154	51.50	48.50
	220v.-D.C.	3152	3158	3155	51.50	48.50
V-20D.C.	Field for FS-1 or FS-2	3160	3161	3162	51.50	48.50
L-10A.C.	110v.-60 Cy.	3901	3904	3907	76.50	73.50
	110v.-25 Cy.	3902	3905	3908	83.50	80.50
L-20D.C.	110v.-D.C.	3951	3955	3959	51.50	48.50
	220v.-D.C.	3952	3956	3960	51.50	48.50
L-20D.C.	Field for FS-1 or FS-2	3954	3958	3962	51.50	48.50

GENERAL DESIGN DATA

Frequency Response . . . In accordance with the description above. Write to our Engineering Department for further information about response characteristics. **Power-Handling Capacity . . .** 18 watts continuously; peaks of 25 watts and very little objectionable distortion is introduced by the speaker at even higher levels of input power. Physically the moving structure will handle up to 40 watts except at sustained low frequencies. **Efficiency . . .** About 400 percent more efficient than conventional speakers having equivalent cone area. **Voice Coil Impedance . . .** 8 ohms at 400 cycles.

A.C. AND D.C. DESIGNS

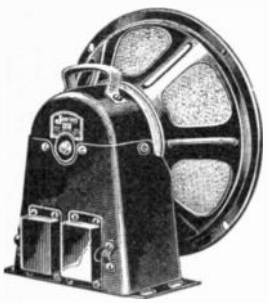
All models available for A.C. or D.C. operation in accordance with the following description: Any D.C. operating value may be specified with some delay in delivery. A.C. models for special voltage values are available at an increase in price. **Field Coil Wattage . . .** Maximum 33; normal 26; minimum 20. **Baffle . . .** Minimum, flat baffle recommended 4 ft. x 4 ft. Maximum necessary, 10 ft. x 10 ft. **Dimensions . . .** Cone housing diameter 13.. inches. **Weight Packed . . .** A.C. models 56 lbs. D.C. models 46 lbs.

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Jensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality



CONCERT SPEAKERS

with Adjustable Impedance Matching Transformers

. . . For Fine Radio and Musical Instruments . . . Monitoring and Audition . . . Theatre and Public Address . . . in fact for any purpose where exceptional power-handling ability and high-quality performance are essential at moderate cost.

MODEL A-12 . . Jensen Model A-12 Concert Speakers are available in two designs, High Fidelity, and Standard. The High Fidelity design is recommended where operating and listening conditions permit the reproduction of extended high frequencies. In this design good response is maintained out to 7500 cycles. Standard Fidelity designs have the more conventional response characteristics with high frequency cutoff at approximately 4500 cycles. Both designs are uniformly capable in the middle and low-frequency range. Model A-12 Jensen Speakers are well known throughout the Industry as an outstanding achievement in fine quality designing and manufacturing at a moderate price

GENERAL DESIGN DATA . . **Fidelity Characteristics . . .** Typically Jensen, uniform and brilliant, with striking degree of presence and exceptionally good low frequency performance. **Power-Handling Capacity . . .** 12 watts continuously, peaks of 18 watts. Distortion even at the 15-watt level is less than that usually present in many 12-inch speakers. **Efficiency . . .** Unusually high, second only to the well-known and highly-efficient Jensen Auditorium Speakers. **Voice-Coil Impedance . . .** 8 ohms at 400 cycles. **Field-Coil Wattage . . .** Maximum 18; normal 14; minimum 10. **Weight Packed . . .** 21 lbs. **Dimensions . . .** Cone housing diameter 12⅛"; baffle opening 10¼".

MODEL B-12X . . Similar in performance characteristics to the standard design of Model A-12 Concert Speakers, except that efficiency and power-handling capacity is somewhat less. The cone housing diameter is 12⅛"; the voice-coil impedance is 8 ohms; and the weight packed is 14 lbs. Field coil wattage, maximum 12, minimum 8.

STANDARD FIDELITY DESIGNS . . (High Frequency Cutoff Approximately 4500 Cycles)

Stock No.	Input Impedance	List Price	Field Coil Resistance	Stock No.	Input Impedance	List Price
ST-199	8 ohm v.c.	$19.75	860 ohms	ST-198	500 ohms	$21.50
*ST-199Y	Adjustable	22.00	860 ohms	*ST-199X	Adjustable	22.00
ST-202	8 ohm v. c.	19.75	2500 ohms	ST-201	500 ohms	21.50
*ST-202Y	Adjustable	22.00	2500 ohms	*ST-202X	Adjustable	22.00

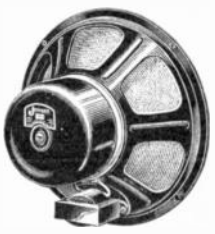
HIGH FIDELITY DESIGNS . . . . (High Frequency Cutoff Approximately 7500 Cycles)

ST-208	8 ohm v. c.	$19.75	860 ohms	ST-207	500 ohms	$21.50
*ST-208Y	Adjustable	22.00	860 ohms	*ST-208X	Adjustable	22.00
ST-211	8 ohm v. c.	19.75	2500 ohms	ST-210	500 ohms	21.50
*ST-211Y	Adjustable	22.00	2500 ohms	*ST-211X	Adjustable	22.00

MODEL B12-X . . . 12-Inch Stock Model

Stock No.	Input Impedance	List Price	Field Coil Resistance	Stock No.	Input Impedance	List Price
ST-184	8 ohm v. c.	$15.00	2500 ohms	ST-183	500 ohms	$16.50
*ST-184Y	Adjustable	17.25	2500 ohms	*ST-184X	Adjustable	17.25
ST-188	8 ohm v. c.	15.00	1250 ohms	ST-187	500 ohms	16.50
*ST-188Y	Adjustable	17.25	1250 ohms	*ST-188X	Adjustable	17.25

Concert Model Permanent Magnetic Speakers



MODEL A12-PM . . This Speaker is even more of an innovation than the other new Jensen PM Speakers. For convenience, economy and high performance ability it is unsurpassed in the public address and centralized sound field. We know of nothing more convincing to say about the efficiency, power-handling capacity and response characteristics of this new speaker than to point out that it is the equal of the well-known Jensen A-12 Concert Speaker. It is the same speaker with permanent magnet substituted for field coil and other improvements added, such as dirt and dust proofing.

SPECIFICATIONS . . The High-Frequency Cutoff in Standard Fidelity designs is 4500 cycles; in High-Fidelity Design 7500 cycles. Non-magnetic Covers for magnetic structures are included in list price.

MODEL A12-PM . . . 12-Inch Stock Models; Order by ST Number

STANDARD FIDELITY DESIGNS				HIGH FIDELITY DESIGNS			
A12-PM	ST-255	500 ohms	$36.50	A12-PM	ST-258	500 ohms	$36.50
A12-PM	ST-257	8 ohm v. c.	34.75	A12-PM	ST-260	8 ohm v. c.	34.75
A12-PM	*ST-257Y	Adjustable	37.00	A12-PM	*ST-260Y	Adjustable	37.00
A12-PM	*ST-257X	Adjustable	37.00	A12-PM	*ST-260X	Adjustable	37.00

* See footnotes on page D-23 for description of Model "X" and Model "Y" Transformers.

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Jensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality

WITH ADJUSTABLE IMPEDANCE MATCHING TRANSFORMERS

For Radio Receivers and Centralized Sound Applications

Ruggedly Constructed . . . Brilliant in Performance

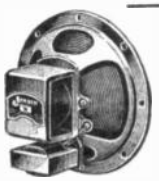


MODEL F5R—5 INCH

Exceptionally good small speakers for use in radio receivers and similar applications. Not to be confused with the usual cheaply made inefficient five-inch Speakers. Cone housing diameter 5 inches.

Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-104	5 ohm v.c.	3000 ohms	$3.10
*ST-104X	Adjustable	3000 ohms	4.00
ST-108	5 ohm v.c.	2500 ohms	3.10
*ST-108X	Adjustable	2500 ohms	4.00

All above models equipped with 12″ connector cords and bucking coil.

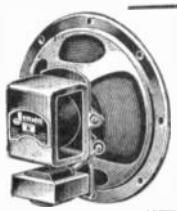


MODEL E6R—6 INCH

Ruggedly constructed, good quality speakers with cone housing having diameter of 6⅝ inches.

Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-116	5 ohm v.c.	2500 ohms	$4.25
*ST-116X	Adjustable	2500 ohms	5.40
ST-120	5 ohm v.c.	1800 ohms tapped at 300	4.25
*ST-120X	Adjustable	1800 ohms tapped at 300	5.40
ST-124	5 ohm v.c.	1000 ohms	4.25
*ST-124X	Adjustable	1000 ohms	5.40

All above models equipped with 18″ connector cords and bucking coil.



MODEL D8R—8 INCH

An unusually good 8-inch speaker for better class of small radio receivers, or low power public address.

Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-132	5 ohm v.c.	2500 ohms	$5.50
*ST-132X	Adjustable	2500 ohms	6.65
ST-136	5 ohm v.c.	1800 ohms tapped at 300	5.50
*ST-136X	Adjustable	1800 ohms tapped at 300	6.65
ST-140	5 ohm v.c.	1000 ohms	5.50
*ST-140X	Adjustable	1000 ohms	6.65

All above models equipped with 18″ connector cords and bucking coil.

For Radio Receivers and Public Address

Highly Efficient . . Unusual Power-Handling Ability

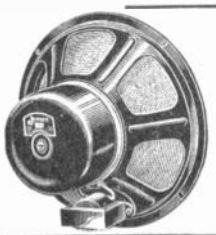
All speakers are with 18″ connector cords and bucking coil. All models have cover for field coil structure. Voice coil diam. 1¼″.



MODEL C8R—8 INCH

This is a highly efficient 8-inch model for the better class radio receivers and is particularly recommended for amateur and short-wave receivers. The power-handling capacity is approximately 6 watts.

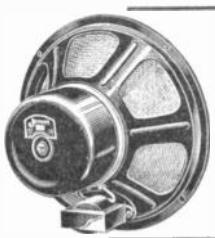
Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-148	8 ohm v.c.	2500 ohms	$6.25
*ST148X—*ST-148Y	Adjustable	2500 ohms	7.75
ST-152	8 ohm v.c.	1250 ohms	6.25
*ST-152X—*ST-152Y	Adjustable	1250 ohms	7.75
ST-156	8 ohm v.c.	1800 ohms tapped at 300	6.25
*ST-156X—*ST-156Y	Adjustable	1800 ohms tapped at 300	7.75



MODEL C10R—10 INCH

This 10-inch speaker is widely used in good quality radio consoles and for public address applications. Power-handling capacity is approximately 8 watts.

Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-160	8 ohm v.c.	2500 ohms	$6.75
*ST-160X—*ST-160Y	Adjustable	2500 ohms	8.25
ST-164	8 ohm v.c.	1250 ohms	6.75
*ST-164X—*ST-164Y	Adjustable	1250 ohms	8.25
ST-168	8 ohm v.c.	1800 ohms tapped at 300	6.75
*ST-168X—*ST-168Y	Adjustable	1800 ohms tapped at 300	8.25



MODEL C12R—12 INCH

An outstanding value in a 12-inch speaker for good quality radio console and public address use. Considering the price, we know of no other speaker which compares favorably with Model C12-R. Approximate power-handling capacity 9 watts.

Stock No.	Input Impedance	Field Coil Resistance	List Price
ST-172	8 ohm v.c.	2500 ohms	$9.25
*ST-172X—*ST-172Y	Adjustable	2500 ohms	10.75
ST-176	8 ohm v.c.	1250 ohms	9.25
*ST-176X—*ST-176Y	Adjustable	1250 ohms	10.75
ST-180	8 ohm v.c.	1800 ohms tapped at 300	9.25
*ST-180X—*ST-180Y	Adjustable	1800 ohms tapped at 300	10.75

● ***Model "X" Transformers . . .** Model "X" Adjustable Impedance Transformers are designed to match conventional "Plate" Impedance Values, and the following values have been selected: 4500 ohms, 7000 ohms, 10,000 ohms and 14,000 ohms. A center tap is provided at all these values for use with tubes connected in pushpull. Stock numbers including an "X" specify Transformers of the kind just described.

● **Model "Y" Transformers . . .** Stock numbers including a letter "Y" specify an Input Transformer designed to match conventional "Line" Impedance Values, the values selected being 500 ohms,1000 ohms, 1500 ohms and 2000 ohms, with no center tap.

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Jensen

FULL RANGE SOUND EQUIPMENT

Known all over the world for predominating high quality



PERMANENT MAGNETIC SPEAKERS

WITH ADJUSTABLE IMPEDANCE TRANSFORMERS

. . . These new Jensen PM Speakers eliminate the field coil used in conventional electro-dynamic speakers . . . The substitute is a heavy, permanently magnetized, newly discovered metal alloy . . . In performance ability they fully equal the best energized types of electro-dynamic speakers . . . Their sensitivity and efficiency is startling . . . Their cost surprisingly low . . . and they have positive protection against dust and dirt.

The C Models are the most highly efficient and should be used where there is a particular premium on sensitivity, either in radio or centralized sound installations. In response characteristics they fully equal the best quality energized speakers, and they are 25 percent more efficient than energized speakers of similar size with six watts in their field coils.

The E Models are somewhat less efficient than C Models, but will substantially increase the acoustic output of Battery Type Radio Receivers. And of course the quality of reproduction from the receiver will be improved tremendously. In fact, so far as the speaker is concerned, the quality will be fully equal to A.C.-operated sets.

SIX-INCH MODELS

Model	Stock No.	Input Impedance	List Price
PM6-C	ST-235	500 ohms	$9.25
PM6-C	ST-238	6 ohm v. c.	8.00
PM6-C	*ST-238X	Adjustable	9.50
PM6-C	*ST-238Y	Adjustable	9.50
PM6-E	ST-239	500 ohms	8.00
PM6-E	ST-242	3 ohm v. c.	7.00
PM6-E	*ST-242X	Adjustable	8.15
PM6-E	*ST-242Y	Adjustable	8.15

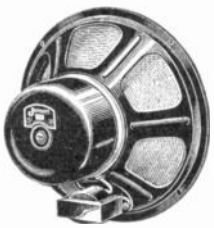
EIGHT-INCH MODELS

Model	Stock No.	Input Impedance	List Price
PM8-C	ST-227	500 ohms	$9.75
PM8-C	ST-230	6 ohm v. c.	8.50
PM8-C	*ST-230X	Adjustable	10.00
PM8-C	*ST-230Y	Adjustable	10.00
PM8-E	ST-231	500 ohms	8.50
PM8-E	ST-234	3 ohm v. c.	7.50
PM8-E	*ST-234X	Adjustable	8.65
PM8-E	*ST-234Y	Adjustable	8.65

The C Models in the 10 and 12-inch sizes are particularly recommended for Radio Receivers, Public Address and Centralized Sound. Their efficiency and performance ability is fully equal to such superlative and well-known energized Jensen speakers as Models C12-R and C10-R when they are provided with normal excitation in their field coils. The high performance ability of these speakers and their low cost eliminates all necessity for A.C.-operated speakers with their attendant service troubles and higher costs.

The B Models are available in only the 12-inch size, and these speakers are recommended where power-handling requirements and efficiency make them desirable as compared to C Models. They are fully equal to Jensen Model B12-X as described on another page.

The voice-coil impedance of 10 and 12-inch C Models is 6 ohms and of 12-inch B Models 8 ohms at 400 cycles. Cone Housing diameter—10-inch models, 10 inches; 12-inch models 12⅛ inches.



TEN-INCH MODELS

Model	Stock No.	Input Impedance	List Price	Model	Stock No.	Input Impedance	List Price
PM10-C	ST-243	500 ohms	$13.50	PM10-C	*ST-246X	Adjustable	$13.75
PM10-C	ST-246	6 ohm v. c.	12.25	PM10-C	*ST-246Y	Adjustable	13.75

TWELVE-INCH MODELS

Model	Stock No.	Input Impedance	List Price
PM12-C	ST-247	500 ohms	$15.50
PM12-C	ST-250	6 ohm v. c.	14.25
	STANDARD FIDELITY DESIGNS		
PM12-B	ST-251	500 ohms	24.50
PM12-B	ST-254	8 ohms v. c.	23.00
PM12-B	*ST-254Y	Adjustable	25.25
PM12-B	*ST-254X	Adjustable	25.25
	STANDARD FIDELITY DESIGNS		
A12-PM	ST-255	500 ohms	36.50
A12-PM	ST-257	8 ohm v. c.	34.75
A12-PM	*ST-257Y	Adjustable	37.00
A12-PM	*ST-257X	Adjustable	37.00

Model	Stock No.	Input Impedance	List Price
PM12-C	*ST-250X	Adjustable	$15.75
PM12-C	*ST-250-Y	Adjustable	15.75
	HIGH FIDELITY DESIGNS		
PM12-B	ST-279	500 ohms	24.50
PM12-B	ST-282	8 ohm v. c.	23.00
PM12-B	*ST282-Y	Adjustable	25.25
PM12-B	*ST-282X	Adjustable	25.25
	HIGH FIDELITY DESIGNS		
A12-PM	ST-258	500 ohms	36.50
A12-PM	ST-260	8 ohm v. c.	34.75
A12-PM	*ST-260Y	Adjustable	37.00
A12-PM	*ST-260X	Adjustable	37.00

ADJUSTABLE IMPEDANCE SEPARATE TRANSFORMERS

These Transformers may be ordered separately and attached to speakers when the speakers are ordered "less input transformer." All such speakers have brackets for mounting the transformer. Note that many different speakers will take the same transformer.

MODEL X

Adjustable to 4500, 7000, 10,000 or 14,000 ohms; a center tap is available for values.

Stock No.	Size	For Use on Model	List Price With Speaker	List Price Less Speaker
ZX-1000	½x ⅝	F5-R Only	$1.15	$1.50
ZX-1001	⅝x ¾	E6-R and D8-R	1.15	1.50
ZX-1002	¾x ¾	C8-R, C10-R, and C12-R	1.50	2.00
ZX-1003	⅝x ¾	PM6-E and PM8-E	1.15	1.50
ZX-1004	¾x ¾	PM6-C, PM8-C, PM10-C and PM12-C	1.50	2.00
ZX-1005	⅞x ⅞	A12, A12-PM, B12-X and PM12-B	2.25	3.00
†ZX-3000	1x1¼	For any 8-ohm voice coil		10.00

See foot-notes on page D-23 for description of Model "X" and Model "Y" Transformers.

MODEL Y

Adjustable to 500, 1000, 1500 and 2000 ohms; with no center tap.

Stock No.	Size	For Use on Model:	List Price With Speaker	List Price Less Speaker
ZY-2000	⅝x ¾	PM6-E and PM8-E	$1.15	$1.50
ZY-2001	¾ x ¾	PM6-C, PM8-C, PM10-C and PM12-C	1.50	2.00
ZY-2002	¾x ¾	C8-R, C10-R and C12-R	1.50	2.00
ZY-2003	⅞x ⅞	B12-X, A12, PM12-B amd A12-PM	2.25	3.00
†ZY-4000	1x1¼	For any 8 ohm voice coil		10.00

†For use where the highest efficiency is required; particularly recommended for Jensen Auditorium, 18-inch, and other such speakers, although it will naturally improve the performance of any speaker when it replaces a smaller and less efficient transformer. This adjustable transformer is sealed in a metal case and fully protected against the effects of moisture. Available for 8-ohm voice coils only and NOT suitable for mounting on the frame of speaker. No soldering required to make impedance adjustments.

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ATLAS TRUMPETS

To the average layman ALL horns and trumpets appear to be alike. To manufacture horns of the proper acoustics, require accurate engineering and skilled manufacturing. Otherwise, the lack of this experience will result very definitely in poor frequency response of the units, breakage of diaphragms, voice coil burn-outs and in general, low efficiency and poor sound projection. A poorly designed trumpet will also have bad resonance peaks. The Atlas Engineers have had years of experience and have kept up with the trend of development in the public address field, with the results that every Atlas trumpet produced today will give the best frequency response and eliminate deficiencies or breakdowns in driver units. DON'T EXPERIMENT OR GAMBLE WITH OTHER HORNS — USE ATLAS PRODUCTS WITH 100% PROTECTION.



ATLAS 6 FT. PROJECTOR TRUMPET

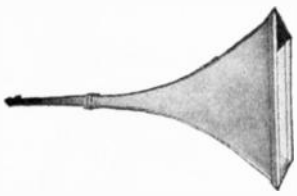
GUARANTEED WEATHER PROOF IN ALL CLIMATES

STURDY DEMOUNTABLE EFFICIENT
DURABLE CONVENIENT ATTRACTIVE

These trumpets are the last word in a high quality low priced trumpet. They are shipped partly assembled permitting great ease in handling. To completely assemble this trumpet requires only the use of a small spintite wrench or pliers. The finish is a lustrous and durable aluminum. The horn material is a non-resonant, all-weather material guaranteed 100% weather proof in all climates. Will not rattle or resonate when driven with high power. The 2½ foot tone arm is removable to facilitate installation and handling. Shipping weight 25 lbs. Shipping size 53x28x5 inches.
CODE WORD YVOKS

Model KD-6 ..... **List Price $25.00**

Atlas Square-Mouthed Trumpets



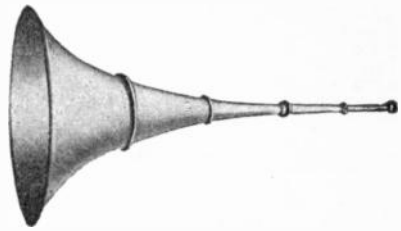
These trumpets present the last word in trumpet design. They are especially suited for sound-truck and outdoor work, due to their ease of mounting. They are constructed of a special all-weather material which will withstand the most severe usage to which it may be subjected. These horns have a solid brass welting and an aluminum demountable tone arm with a standard thread for the reproducer unit.

Model S-6 ..... **List Price $42.50**
Bell 30x30 in., length, 6 ft.; color, bright aluminum; weatherproof. Net Weight, 20 lbs.
CODE WORD YNACN

Model S-54 ..... **List Price $35.00**
Same as above, length 54 in., finish aluminum. Net Weight, 14 lbs.
CODE WORD YNABV

Model S-43 ..... **List Price $30.00**
Same as above, length 43 in., finish aluminum. Net Weight 12 lbs.
CODE WORD YNAAC

6 Ft. All-Aluminum Exponential Trumpet



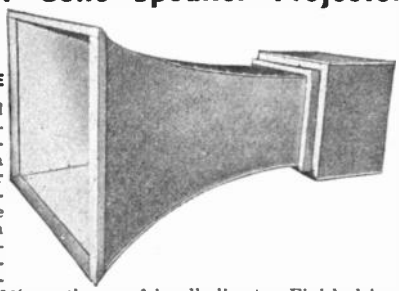
Atlas all aluminum trumpets are so designed mechanically that the resonant conditions often noticed with metal trumpets is eliminated. The heavy gauge metal used for the spinning is well reinforced and carefully machined. The unusually long two section cast aluminum throat is accurately constructed greatly assisting the trumpet to perform uniformly and efficiently over a wide range of frequencies. The horn is easily demountable into four sections permitting ease in handling. They are beautifully finished in a natural aluminum and are absolutely 100% weatherproof in all climates. A special loose coupling is supplied for attaching driver units having a standard 1⅜ in.—18 thread. Length 6 ft., bell opening 32 in. Shpg. wght., 15 lbs.
CODE WORD YNIEK

Model RA72 ..... **List Price $55.00**

Model RA-42—3½ Ft. ALL ALUMINUM EXPONENTIAL TRUMPET
Same mechanical construction as RA-72. Demountable into two sections. Length 3½ feet, bell opening 23 inches. Shpg. wght. 8 lbs.
CODE WORD YNICH
List Price $30.00

Atlas Giant Cone Speaker Projector Horn

FLARED EXPONENTIAL SIDE



This horn is ideal for long range indoor and outdoor application. With a good cone speaker sound can be projected over extreme distances. This horn can be easily demounted for storage and transportation. Guaranteed 100% weatherproof in all climates. Finished in a brilliant aluminum. Will accommodate all speakers having 10, 11 or 12-inch cones. Bell opening 24x36 in. Total length as shown, 4 ft. Shpg. Size (demounted) 37x25x3½ in. Shpg. Wt. 24 lbs.

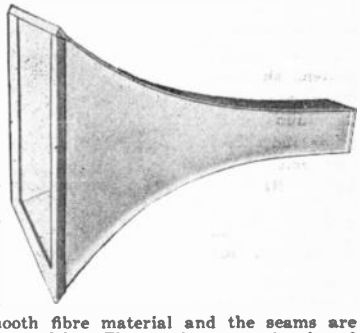
Model UP (less Cone Housing) ..... **List Price $14.50**
CODE WORD YNGLE

Model UP (with UB Housing as illustrated) **List Price 19.50**
CODE WORD YNGMI

Directional Power Cone Trumpet

AT-5

For 5 inch Power Cones



These exponential trumpets are for use with the five inch power cone speakers that are becoming popular for certain P.A. application. These horns flare on all four sides and will distribute sound over a large area. Absolute resistance to weather is guaranteed and they will withstand considerable shock and strain. When mounted on sound trucks, etc. They are constructed of a smooth fibre material and the seams are joined by a one piece brass welting. The speaker mounting board is actually a part of the trumpet and its placement raises the acoustic efficiency of the horn to a great extent. Finished in brilliant aluminum. Overall length, 4 feet; Bell opening 30x30 in. Shipping weight, 25 lbs.
CODE WORD YNIAM

List Price $25.00

ATLAS BAFFLES

ATLAS FLOOR STAND AND MOUNTING FIXTURE



MODEL MF-10

The ideal method of supporting all models of aluminum parabolic deflectors. The stand, weighing 36 lbs., offers a stable and convenient method of support. The special three point base will adjust itself to set evenly on all surfaces. The double locking telescope arrangement permits the stand to be adjusted to a height of from 5 to 9 feet. The adjustable fixture permits tilting the baffle to any angle. Finish, durable black crackle.

Model MF-10 (stand and fixture, less baffle) Shipping weight 36 lbs.
CODE WORD YNHUE

List Price $15.00

MOUNTING FIXTURE SA-10

This fixture is the same as supplied with the floor stand. It offers a simple method of mounting the aluminum baffles on sound trucks, stadiums, etc. A standard plumbing pipe fitting is fastened to this fixture permitting a support and designed with inexpensive standard pipe fittings. This fixture is adjustable and its angle securely locked by tightening the large special bronze wing nut. Finish, black crystalline. Shipping weight 3½ lbs.
CODE WORD YNHOS

Model SA-10 ..... **List Price $4.50**

WALL SURFACE SPEAKER HOUSING



A speaker housing for school-room, hospital installation, inter-office call system, ship state-rooms, etc. These housings are spun from heavy gauge aluminum and beautifully finished in a weather-resistant, natural aluminum color. The cone opening is protected with a strong metal screen and grill cloth covering.

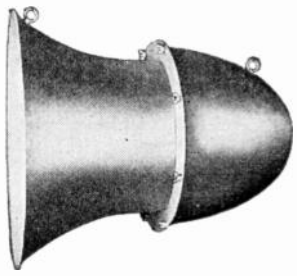
Dimensions: Cone opening diam., 5½ in.; inside depth, 4½ in.; smallest inside diam., 8 in. Shipping weight, 1½ lbs.
CODE WORD YNFLU

Model SH-5 ..... **List Price $4.00**

Dimensions: Cone opening diam., 7 in.; inside depth, 5¼ in.; smallest inside diam., 10½ in. Shpg. Wt., 2 lbs.
CODE WORD YNFNE

Model LH-7 ..... **List Price $5.00**

ORIGINAL ATLAS ALUMINUM DEFLECTOR BAFFLE



The latest development in all-aluminum, 100% weatherproof, directional baffles. The Atlas Baffle features: heaviest gauge metal, snap-on weatherproof cover, heavy metal grill cloth, protective screen, acoustic felt lined speaker housing, all hardware for mounting cone speaker, etc. Overall length 20 in., diameter bell 17 in. Will accommodate all 10, 11, 12 inch speakers. Finish, brilliant aluminum. Shpg. Wt. 6 lbs.
CODE WORD YNDAB

MB-10 ..... **List Price $15.00**

This model is identical in size, shape and finish to the above model. The metal gauge is somewhat lighter and it does not include the cover, screen or felt lined housing.
CODE WORD YNDOK

Model AM-10 ..... **List Price $9.00**

GIANT ALL ALUMINUM PARABOLIC DEFLECTOR

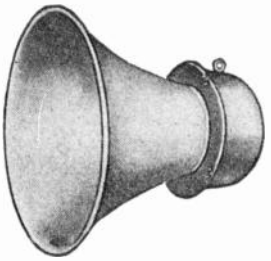


This baffle is ideal for use with high powered cone speaker reproducers. Its large size offers sufficient loading to permit the speaker to reproduce very low frequencies. Bell opening 22 in., total overall length, 26 in. Spun of heavy gauge aluminum and finished in a brilliant natural color. Shipping weight 8 lbs.
CODE WORD YNIFO

Model P-16 ... **List Price $13.50**

ALUMINUM DEFLECTOR BAFFLE

MODEL AM-8



This model is constructed and finished in the same manner as the larger models. The dimensions are proportionately smaller. This model will accommodate all speakers having an outside ring diameter of from 8 in. to 10½ in. Overall length 16 in., bell diameter 15 in. Shipping weight 5 lbs.
CODE WORD YNIIG

Model AM-8 ..... **List Price $8.00**

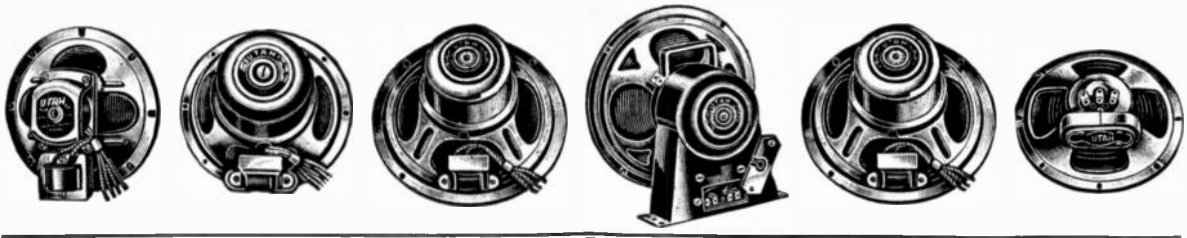
MODEL AM-6

Identical to the AM-8 but proportionately smaller. Will accommodate all speakers having an outside cone ring diameter of from 6 in. to 8½ in. Overall length 15 in. Bell opening 15 in. Shipping weight 4 lbs.
CODE WORD YNIHF

Model AM-6 ..... **List Price $7.50**

UTAH High Fidelity SPEAKERS

6½" Dynamic | 8" Dynamic | 10" Dynamic | 12" Dynamic | Utaflux | Orthovox



PUBLIC ADDRESS DYNAMICS

Utah Dynamic Speakers have been standard in the industry for years. Only the finest of materials and workmanship are ever used in Utah products. Any of the speakers listed may be purchased less output transformer by deducting 75c from the 6", 1.00 on the 8", 10" and 12" speakers.

** Type	Field Resistance	Output Transf.	Ship. Wt.	Price	Code
6½"—6 WATT					
C6U25	2500 Ohms	Universal	4½ Lb.	$6.00	CAB
C6U6	6 Ohms	Universal	4½ Lb.	6.00	CAD
C6U18	1800 Ohms Tapped 300	Universal	4½ Lb.	6.00	CAL
8"—8 WATT					
E8U25	2500 Ohms	Universal	6 Lb.	$7.25	CAM
E8U100	10,000 Ohms	Universal	6 Lb.	7.25	CAR
E8U4	4 Ohms	Universal	6 Lb.	7.25	CAT
E8U18	1800 Ohms Tapped 300	Universal	6 Lb.	7.25	CAW
8"—10 WATT					
F8U25	2500 Ohms	Universal	7 Lb.	$8.75	CUT
F8U100	10,000 Ohms	Universal	7 Lb.	8.75	COT
F8U4	2.5 Ohms	Universal	7 Lb.	8.75	COB
10"—9 WATT					
E10L25	2500 Ohms	Universal Line	10 Lb.	$8.00	CUD
E10L4	4 Ohms	Universal Line	10 Lb.	8.00	CUP
10"—11 WATT					
F10L25	2500 Ohms	Universal Line	11 Lb.	$9.75	CUR
F10L2	2.5 Ohms	Universal Line	11 Lb.	9.75	CAP
12"—10 WATT					
E12L25	2500 Ohms	Universal Line	12 Lb.	$10.00	COY
E12L4	4 Ohms	Universal Line	12 Lb.	10.00	CUE
12"—12 WATT					
F12U25	2500 Ohms	Universal	14 Lb.	$11.50	CARE
F12L25	2500 Ohms	Universal Line	14 Lb.	11.50	CAPE
F12U2	2.5 Ohms	Universal	14 Lb.	11.50	COOP
F12L2	2.5 Ohms	Universal Line	14 Lb.	11.50	COVE
F12UAC	110 v. 60 cy. AC	Universal	20 Lb.	19.00	CAST
F12LAC	110 v. 60 cy. AC	Universal Line	20 Lb.	19.00	CAUL
12"—25 WATT					
H12C25	2500 Ohms	4400 Ohm Center Tap	19 Lb.	$26.25	CUBE
H12L25	2500 Ohms	Universal Line	19 Lb.	26.25	CULL
H12C2	1.6 Ohms	4400 Ohm Center Tap	19 Lb.	26.25	CORD
H12L2	1.6 Ohms	Universal Line	19 Lb.	26.25	COOL
H12LAC	110 v. 60 cy. AC	Universal Line	23 Lb.	36.25	CELL
H12CTAC	110 v. 60 cy. AC	4400 Ohm Center Tap	23 Lb.	36.25	CARP

REPLACEMENT SPEAKERS

Suitable for light P. A. work and all Radio Set replacements. All equipped with Universal output transformer. Available in 1000, 1500, 2000 and 2500 ohm fields. Specify which.

R 500 Series 5" .....$ 3.75 **R 1000 Series 10"** .....$ 8.25
R 600 Series 6" ..... 5.35 **R 1200 Series 12"** 10.25

**Peak watts approximately 50% more than recommended input.

PERMANENT MAGNET DYNAMICS

Not to be confused with inferior quality so-called permanent magnet dynamics. These speakers are in every case equal to or better in performance than regular dynamics of equivalent rating.

Type	Output	Wt.	Code	Price
6½ INCH—4 WATT				
6UP	Universal	4 Lb.	PER	$7.00
6LP	Universal Line	4 Lb.	PET	7.00
8 INCH—6 WATT				
8UP	Universal	5 Lb.	PEP	8.50*
8LP	Universal Line	5 Lb.	PIN	$8.50*
8 INCH—8 WATTS				
F8UP	Universal	6 Lb.	PRO	$12.50
F8LP	Universal Line	6 Lb.	PAR	12.50
10 INCH—9 WATT				
10UP	Universal	10 Lb.	PEN	$14.50
10LP	Universal Line	10 Lb.	PIT	14.50
12 INCH—10 WATT				
12UP	Universal	13 Lb.	PAD	$17.50
12LP	Universal Line	13 Lb.	POD	17.50

*60c additional for pot cover.

UTAH ORTHOVOX SPEAKERS

Ideal for service where field current is difficult to provide. Amazingly true tone, rugged construction, and long life.

Type	Power Handling Capacity in Watts Max.	Input Impedance	Approx. Shipping Weight	List Price	Code
5 INCH					
25004	1½	High Imp.	2 lb.	$3.75	DIP
25005	1½	Medium	2 lb.	3.75	DOT
25006	1½	Low	2 lb.	3.75	DOE
25007	1½	5C Line	2 lb.	3.75	DEN
25009	1½	1M Line	2 lb.	3.75	DEW
6 INCH					
26043	2	High Imp.	3 lb.	4.00	DART
26044	2	Medium	3 lb.	4.00	DOLE
26045	2	Low	3 lb.	4.00	DIRE
26046	2	5C Line	3 lb.	4.00	DINE
26053	2	1M Line	3 lb.	4.00	DARE
8 INCH					
28045	3½	High Imp.	4 lb.	4.50	DOME
28046	3½	Medium	4 lb.	4.50	DOTE
28047	3½	Low	4 lb.	4.50	DULL
28048	3½	5C Line	4 lb.	4.50	DOZE
	3½	1M Line		4.50	DELL
12 INCH					
212009	6	High Imp.	5 lb.	7.00	DANE
212010	6	Medium	5 lb.	7.00	DAME
212011	6	Low	5 lb.	7.00	DICE
212012	6	5C Line	5 lb.	7.00	DOOR
212013	6	1M Line	5 lb.	7.00	DIAL

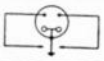
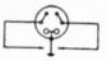
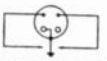
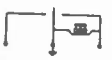
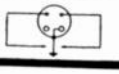
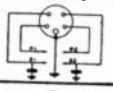
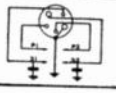
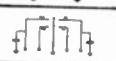
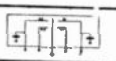
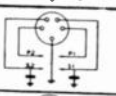
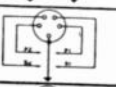
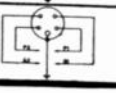
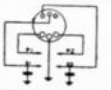
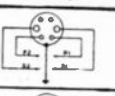
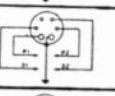
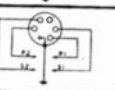
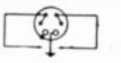
For Class B operation, connect a one-watt resistor across the two outside speaker terminals. The resistance value in ohms should be at least 5 times the total plate to plate load impedance.

*First letter in Type No. indicates in pounds amount of wire available in field.

A-.3 lb., B-.4 lb., C-.5 lb., D-.7 lb., E-1.2 lb., F-2.0 lb., G-3 lb., H-5 lb.

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UTAH Replacement Vibrators

Type	Wiring Diagram	Price	Code
NP4		4.50	ACE
NP6		4.50	ACT
NP41		4.00	ADA
NL3		4.50	ADD
NL3U See Note		3.75	ADE
NP42		4.50	ADO
NP43		4.50	ADZ
SP51		5.25	AFT
SP52		5.25	ALA
SL5		5.25	ANY
SL51		5.50	APE
SP53		5.50	ALE
SP5		5.00	ALF
SP55		5.00	ALL
SP61		6.50	ALP
SP62		5.00	AND
SP66		5.00	ANN
SP6		5.00	ANT
SLH		5.50	APT
32NP61		5.00	ARC

The new Utah Replacement Vibrator line offers the advantages of meeting all requirements for all makes of automobile radios with but 18 vibrators. Listed here are a number of popular makes of automobile radios and the Utah vibrator that will serve each particular model. A catalog containing complete listings for all makes, including farm radios will be send on request.

ARVIN
7-17A-17B-17C-27-37-18-28-33 ..... NP4
10A-16-20A-30A-30B-15-25-35-45-2nd Series NL3
15-25-35-45-45 1st Series NP6

ATWATER KENT
666-776-926-936 ..... NP6
126-136-416-446 ..... NP4
424-534-816 ..... SL5

AUDIOLA (Fairbanks-Morse)
23S7-33S6, 5 leads ..... SLH
S6-S7 (3 leads) NL3
33-A6 ..... SL5
345-346-347 (6 prong) NP6
346-347-C6-64-74 ..... NP4

BELMONT
(Freshman)—660 ..... NL3
566-666-668-670A NP4

BOSCH
524-634-634A-79-2nd Series 536-636-637-736-737-738-838 ..... NP4
140-2nd-3rd Ser., 150-1st-2nd Ser., 160-45 Sync. SP53
45 Non-Sync.-78-79 1st Ser. NP6

CROSLEY
98-99-102-103-119-5A1 ..... SL5
4A1-5A3-6B1 ..... SP6

DETROLA
1100-1100A-6A NL3
1934-1935-3 lead models NL3
1935 Plug-in-6M NP4
1935 Sync. SP5

EMERSON
1A NP6
2A-5A-6A NP4
5A-Sync.-De Luxe SP62
667-965 ..... NP6
678-1, 678-2 1933 Models SL5

ERIA-SENTINEL
602-603-600 ..... NL3
5500-7M-10M-11M NP4

FIRESTONE
1332-1314 Travler NP4

FORD—MAJESTIC NL3
FORD—PHILCO NP41
FORD—LINCOLN NP6
FORD—ZENITH NP6

GENERAL ELECTRIC
B40-B52-C41 (C61-old) SL51

GENERAL ELECTRIC—Continued
C60-N60-D72 ..... NP4
D50-D51-D52 ..... SP62
C61-Plug-in-123 DeLuxe SP61

GOODYEAR (Wings)
5 tube-880 ..... NP4
6-prong NP6

HOWARD
670A NP6
HA6 .....

HUDSON-TERRAPLANE
Majestic-Zenith-1933-1934 Models NL3
Zenith-1935 Models NP42

HUDSON—RCA—H6 ..... NP4

KARADIO
65-66-88-Sheriff NP4
150-160-180 ..... NP6

MAJESTIC
Lead Type Pack NL3
Plug-In Pack NP6

MOTOROLA
34-Dual 6-Twin 8-57-75-100-F57-F75-F100-GM57-GM75-GM100-62-79-110 ..... NP4
50-60-80-Golden Voice NP42
44-55-55A-77 ..... SLH
66-116-116A-Ford-Hudson Terraplane NL3
44A-66-77A SP53
44A-66-77A SP53

PACIFIC
101-102 ..... NL3
1936 Models NP42

PHILCO
All Models to 1936 ..... NP41
1936 Models 817-818-818K-819 ..... NP4
816 ..... NP41

RCA VICTOR
RS-63-1-109-M107-H6 ..... NP4
M34-M105-M116-De Luxe SL51
M101-104-108-166-5M-6M-6M2 ..... SP62

SIMPLEX
T-TA NL3
5-DB-1935T-1936-PB Series SP55
TA-1st and 2nd Series SP62
Q NP4

SPARTON
33-33A NL3
36 ..... SL5

SPARTON—Continued
296-333 ..... NP6
D686-H686-S676 ..... NP42

STEWART WARNER
R1112-1121-1122 ..... NL3
1112-1171-1172-1181-1182-1183-R117-R117-R1311-1312-1313-1314-1315-1316-1317-1318-1319-131-133 ..... NP4
R132-1322 ..... SP62
1112-DeLuxe 1936 Models NP43

TRUETONE (Western Auto)
6R-Z6Z1-062-3rd Series NL3
6U-6S-R131-131R-S743 ..... NP4
5Y-25Y1 ..... SP62

UNITED MOTOR SERVICE
Buick-Olds-Pontiac-Division
393884-85-405045-046-405057-062-063-544245-246-267-268-289-290-291-297-298-982006-007-008-983506-507-1291344-345 ..... SP51
980507-508-509-525 ..... SP52
980393 ..... NL3
980441-455-459 ..... SL5

G.M.S. Chevrolet Division
364441 ..... NL3
600153-566-249-565 ..... SL5
601038-176-177-525-574-586-662-814-985400 ..... SP51
985300 ..... SP52
9985100-200 ..... NP42

G.M.S. Delco Division
626-627-628-629-634-635 ..... SP51
630-631-632-633-500 ..... NP42
634-635 ..... SP52
2035-4036 ..... NL3
4037-4038 ..... SL5

WELLS-GARDNER
6U-6S-26U1-26S1-6N NP4
6R-61 ..... NP42
O6W1-O6W2-O72-O72A-O6X SL51
V6Z2-Z6Z1-Z6W1 ..... NL3
5Y Ser.-25 Y1 ..... SP62

ZENITH
7-460-462-650HD-651HE-660TD-661TE NL3
Jr7-Ford NP6
664-666-668-5M90-6M92-6M91-6M90-7M91-680-All 1935 Models NP42
4V31-4V59-6V27-6V62 ..... SP66

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VELOCITY AMPERITE MICROPHONES

AMPERITE OFFERS A COMPLETE LINE OF VELOCITY MICROPHONES FEATURING:

1. High fidelity reproduction of the finest quality.
2. No mechanical sounding peaks.
3. Eliminates acoustic feedback.
4. Triple shielding eliminates inductive hum.
5. First to use new Nickel Aluminum Magnets.
6. Hand-hammered ribbon will withstand even a 40-mile gale.
7. No background noises. Not affected by temperature, pressure or humidity or rain.

NOTE: If unopened, Amperite Velocity Microphones will give many years of uninterrupted service without any loss of efficiency. No ribbon changing or servicing required.

GUARANTEED FOR 3 YEARS AGAINST ANY MANUFACTURING DEFECTS



New! Studio Models SR80 and SR80-H

Feature the ring core transformer—the ideal transformer! Its low distributed capacity decreases the high frequency attenuation to an absolute minimum, resulting in more brilliant reproduction. Inductive pickup is reduced to an absolute minimum.

The SR80 is electrically and mechanically accepted as the very best in microphones. Used by leading broadcast studios throughout the world. Frequency response 30-14,000 c.p.s. Output 64 db (open line); hand-hammered ribbon not affected by even a 40-mile gale. Obtainable 25, 50, 200 and other output impedances. State impedance required.

Model SR80-H — High Impedance—Operates directly into grid of tube. New design permits running ¼" cable up to 125 ft.
Shipping Weight—8 lbs.

	Gunmetal	Chrome
List Price. SR80 or SR80-H	$80.00*	$82.00*
Call Letter Plate. List Price		5.00*



NEW!

A specially designed microphone built to Amperite 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 wt. 5 lbs.

	Gunmetal	Chrome
Model RAL (200 ohms) 8 ft. of cable. List Price	$22.00	$23.00
Model RAH (2000 ohms) High Impedance, with 12 ft. of cable. List Price	22.00	23.00

NEW! AMPERITE VELOCITY RBHn – RBMn – RBSn – RSHn

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. **6 db higher output.**
4. **Triple shielded.**
5. **Switch.**
6. **New cable clamp.**



Available with built-in cable connector having a locking device.

RBHn (High Impedance) 2000 ohms. Excellent for speech and music. Permissible cable length up to 125 ft. Output —64 db. Frequency response 40-11,000 c.p.s. Complete with shock absorber, switch, 25 ft. cable. Obtainable without switch upon request.

RBMn (Low Impedance) 200 ohms. Other impedances obtainable at no extra charge. Permissible cable length up to 2000 ft. Can be used with high gain amplifier in conjunction with Amperite cable type transformer Model LGP. No preamplifier necessary. 40-11000 c.p.s.. Output —64 db.

RBBn 200 ohms. Low impedance type for very unusual feedback conditions. Output 3 db lower than RBM. Frequency range 40-11,000 c.p.s.

Shipping Weight—5 lbs.

LIST PRICE	Gunmetal	Chrome
Models RBHn, RBMn, RBBn, RB-BHn, with 25 ft. cable, Switch	$42.00	$43.00
With built-in female cable connector, male plug and 25 ft. cable	44.00	45.00

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 ft.—or low impedance input with D.C.S. cable lengths up to 2000 ft. Just plug in the proper cable.

Shipping Weight—5 lbs.

List Price. Model RB-DIn $45.00

NEW! Excellent all-around microphone for speech and music. Similar in appearance but slightly lower output and frequency range than RBMn and RBHn.

MODEL RSHn—2000 ohms (High Impedance)

Output —68 db. Frequency range 60-7500 c.p.s. Permissible cable length 100 ft. Cable supplied 12 ft.

MODEL RBSn—200 ohms (Low Impedance)

Output —68 db. Frequency range 60-7000 c.p.s. Permissible cable length 2000 ft. Cable supplied 12 ft.

Shipping Weight—5 lbs.

List Price. Model RSHn or RBSn $32.00
With built-in male cable connector, female plug and 12 ft. cable 34.00
With switch, add $1.00 List Extra.
Chrome finish, add $1.00 List Extra.

NOTE

Special custom microphones Special requirements, such as microphones with increased low or high frequencies or special impedances, are obtainable at no extra charge from the factory.

Cable lengths Any additional lengths attached to microphone or plug are obtainable at 3c net per foot. Charge made for additional cable only. Prompt service.

Certified measurements only are given for frequency range. Wherever output in db is given, only certified measurements are used (reference 10 bars pressure). Not to be confused with measurements given at one foot normal speech volume.

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VELOCITY AMPERITE MICROPHONES

NEW AMPERITE MICROPHONE STANDS!

Positive, Non-Sliding ball-bearing clutch. Will never wear out . . . never require adjustment. Will not "Creep." Tightens with only one-eigth turn of clutch. Microphone can be rotated without loosening clutch. Smooth pneumatic-like action up and down. Stands are furnished in polished gunmetal offset with a chrome clutch. Also available in all chrome finish at slight additional cost.



AMPERITE BOOM STAND (MODEL FSB)

Adjustable in any direction. Noiseless operation permits adjustment while in action. Adjustable counterweight and friction clutch provide smooth and easy operation. Boom can be lowered or raised by mere pressure of hand without requiring any locking devices. Microphone height can be varied from 36 in. to 96 in. Length of Boom arm, 28 in.

Model	Description	Base Weight	Base Spread	Height Range	Thread	Shipping Weight	Gunmetal	Chrome
*FS-8M	Floor Stand	9 lb.	11″	42-60″	5/8-27	15 lb.	$14.00	$15.00
FS-13M	Floor Stand	13 lb.	11″	42-60″	5/8-27	19 lb.	16.00	17.00
FS-25M	Studio 3-legged floor stand	21 lb.	17″	42-69″	1/2″ pipe	25 lb.	26.00	28.00
DS-M	Comb. desk and banquet	6 lb.	7½″	16-24″	5/8-27	11 lb.	10.00	11.00
DS	Desk only	6 lb.	7½″	3″	5/8-27 & 1/2″ pipe	11 lb.	5.00	6.00
FSB	Boom	21 lb.	17″	36-96″	1/2″ pipe	43 lb.	50.00	55.00

ADAPTER for microphone having ½″ pipe thread to be used on 5/8-27 stand; **Model B-P, List Price** $0.80

*NOTE: The FS-8M is similar in appearance as the FS-13M, but lighter and easy to move and shift about. Recommended for use in Night Clubs, Theatres, etc.

Amperite A.C. Operated Pre-Amplifier

Model PAC6



An unusually excellent A.C. operated 2-stage pre-amplifier with high impedance input. Can be used with low impedance microphone in conjunction with Amperite cable type transformer LGP. Output impedance 200, 500 and high imp. Balanced wound power transformer reduces inductive hum to absolute minimum. Frequency response 40-10,000 cycles (1 db.) Gain 56 db. Metal Tubes. **Pre-Amplifier and Power Supply in one unit**; size 5 x16″x6″ high. Shpg. Wt., 18 lbs.

Model PAC6. List Price (less tubes) $50.00
Brackets for panel mounting. List Price 2.00

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 60-7500 c.p.s. Size 2⅛x1¾x¾ in. **Models 7J (200 ohms) or 7-JH High Impedance** with 25 ft. cable; shpg. wt., 2 lbs.

List Price $30.00

INPUT TRANSFORMER (CABLE TYPE) LGP



Enables the use of low impedance microphone and cable lengths up to 2000 ft. with amplifiers having high impedance input. Hum trouble is entirely eliminated by special balanced windings. Extra heavy case; will withstand mechanical abuse. Not to be confused with ordinary input transformers. Can be used with 25, 50 or 200 ohm microphones. Output connects directly to the high impedance input of amplifier. Shipping weight, 3 lbs.

	List Price
Model LGP (Standard) 60-8000 c.p.s.	$ 5.00
Model LGP (Laboratory) 40-14,000 c.p.s.	10.00

INPUT AND OUTPUT TRANSFORMERS	List Price
Model LG (Line-to-Grid) Standard	$ 5.00
Model PL (Plate-to-Line) Standard	5.00
Model LG (Laboratory Grade) (Ring Core)	12.00
Model PL (Laboratory Grade)	10.00

AMPERITE SELF-ADJUSTING LINE VOLTAGE CONTROL

Amperites—110 Volts—A.C. Sets

How to Determine Proper Amperite

No. of Tubes in Set	Use Amperite No.
4 or 5	5-A-5
6 or 7	7-A-5
8, 9 or 10	9-A-5
11 or 12	11-A-5

A.C. Set Replacements

Brunswick 14, 21, 31	9-20
G.E. B-86	5-16
Duresite 98, 105, 106	9-20
Duresite 110	11-20
Majestic 70, 71, 72	70
Majestic 90, 91, 92	90
RCA 876 ($2.50 net)	876
RCA R-223	5-16
Scott Raider	12-20
Victor R32, 52	10v10
Victor R35, 39	9v10
List Price, any type	$2.10
Socket. List Price	.25

Replacement Regulators for AC-DC Sets

Will control line voltages of 85 to 140 volts.

Amperite KL-45 octal base—will replace:

42A	M45R	K49B	K55C	L55D	L49B
49A	K42B	K49C	K55D	L42B	L49C
55A	K42C	K49D	L55B	L42C	L49D
M50R	K42D	K55B	L55C	L42D	

Amperite 4P-45 4 Prong base — will replace:

185R	185L8	165R44	140R4	140L44
185R4	185L44	165L4	140R8	300
185R8	165R	165L8	140R44	50X3
185R44	165R4	165L44	140L4	5B
185L4	165R8	140R	140L8	



Amperite 50-AB octal base—will replace:

55A1	55B2	49A2	42A1	42B2
55A2	49A1	49B2	42A2	21R212

List Price, any type $1.25

Replacement Regulators for 2-Volt Battery Sets

2H1	(1D1)*	for .25 amp.	10AB	(5H1)*	for .55 amp.
1B1		" .36 "	1K1	(5H1)*	" .55 "
1G1		" .42 "	6-1	(1J1)*	" .62 "
1E1	(5E1)*	" .48 "	1F1	(7-1)	" .72 "
5E1	(1A1)*	" .50 "	7H1	(1C1)*	" .76 "
6AA	(5E1)*	" .50 "			

*Either type can be used

30	(1A2)	
31	(1B2)	
52	(1C2)	
1R1G	(1T1G)†	for .54 amp.
1S1G		" .66 "

†Octal base

List Price, any type $1.25

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SHURE MICROPHONES
for Every Application

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". Net weight, ½ lb. Shipping weight, ¾ lb.
Model 3B. Two-Button. Code: **Ruciv.**
List Price..... **$5.50**

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, 8⅞". Net weight, ¾ lb. Shipping weight, 1 lb. Complete with 6 feet of three-conductor cable and 4 "Quickway" Hooks. Code: **Rucor.**
List Price..... **$10**



Model 10BS. Convertible Hand Microphone. Same as Model 10B but includes a concealed switch which automatically cuts off the microphone when it is placed in a horizontal position. Code: **Rucos.**
List Price..... **$11.50**

Model 11B Two-Button Hand Microphone



High quality two-button "close-talking" hand microphone. Especially suitable wherever the level of "crowd" or background noise is high. Modern chrome-finished case; rubber-black handle. Suspension eye at top. Case diameter 3 1/16". Length 9". Net weight, 1¼ lb. Shipping weight, 1¾ lbs. Complete with 6 ft. color-coded three-conductor cord.
Model 11B. Code: **Rudil.**
List Price..... **$15**

Model 11BS. Same as 11B, but with push-button switch. Code: **Ruhas.** List Price..... **$16.50**

Model 11C. A "non close-talking" type two-button hand microphone. Code: **Rubom.** List Price..... **$15**

Model 11CS. Same as Model 11C, but with "press-to-talk" switch in handle. Code: **Rubot.** List Price..... **$16.50**

Model A35A. Suspension Adapter. Chromium plated. ⅝" —27 thread. Shipping weight, ¼ lb. Code: **Rudem.**
List Price..... **$1.50**



Model W10A. Carbon Granules. Recommended for experimental work only. Packed in capsule or vial. Code: **Rugun.** List Price..... **$1**

Model 5B Two-Button



A full-size two-button microphone (diameter overall 3¾", thickness 1 1/16", weight 15½ 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, 1¼ lbs.
Model 5B. Code: **Rucit.**
List Price..... **$10**

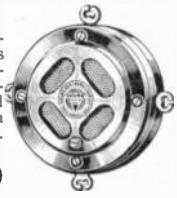
Model 22B Two-Button

Embodies refinements formerly found only in more costly instruments. Genuine cathode-sputtered gold-spot diaphragm, carefully stretched and scientifically damped. Chromium plated. Net weight, 1 lb. Shipping weight, 1½ lbs.
Model 22B. Code: **Rudip.**
List Price..... **$25**

Model 27N Two-Button

Professional type two-button microphone in every respect. Beautiful case, richly finished in chromium plate. Thickness 1⅜". Diameter overall 3¾". Net weight, 1½ lbs. Shipping weight, 1¾ lbs.
Model 27N. Code: **Rubal.**
List Price..... **$37.50**

Model 33N Two-Button



The most highly developed two-button microphone. Used in Broadcast Stations because of its excellent frequency response, ruggedness and dependability. Massive brass frames. Dural diaphragm with genuine cathode-sputtered gold spots, carefully stretched and aged. Chromium plated. Thickness 1 11/16". Diameter overall, 4 3/16". Net weight, 2½ lbs. Shipping weight, 3 lbs.
Model 33N. Code: **Rulit.**
List Price..... **$50**

Rings and Springs



Model R20B. Standard Ring. A sturdy full-size, 6" ring for carbon microphones. Attractive bevel-edge design. "Quickway" Hooks for quick mounting. Chromium plated. Complete with 8 rustproof springs. Shipping weight, 1 lb. Code: **Ruket.** List Price..... **$2.50**

Model R10A. Ring. A light 5" ring for small carbon microphones. Chromium plated. Shipping weight, ¾ lb. Complete with 8 rustproof springs. Code: **Rujes.** List Price..... **$2.25**

Model R10B. Ring. Same as R10A but bright nickel plated. Code: **Rujam.** List price..... **$2**

The above Rings are protected by U. S. Patent Des. 100,928

Model A30A. Springs. Medium length for R20B Rings. Rust-proof. Code: **Rukis.** Set of eight. List Price..... **$1**

Model A31A. Springs. Short length for R10 Rings. Rust-proof. Code: **Rukop.** Set of eight. List Price..... **$1**

Microphone Repair Service *All microphones require occasional repairs. Carbon microphones need reconditioning at least once a year to maintain sensitivity and quality. "Microphone Headquarters" maintains a special repair department for repairing and reconditioning all types and makes of microphones. Write for quotations.*

4-WAY UTILITY MICROPHONES
4 Microphones in *One!*



DESK

Now a new economical microphone convenience—4 Microphones in *One*! A special handle and base with coupling permits instant change from Hand Type to Desk Type . . . or Desk Microphone to Hand Instrument without tools or bother. The same microphone may easily be mounted on a Floor Stand or Spring-Suspended in a Carbon Ring.

Shure 4-WAY UTILITY Microphones are available in General-Purpose Crystal, "Communications-Type" Crystal and Two-Button Carbon Types.



STAND

Crystal and Carbon Types



HAND

Model 70HK. General-Purpose Crystal Microphone. For high quality life-like reproduction of Music and Speech and for General applications. Complete with microphone, 25 ft. single-conductor shielded cable, special handle, adapter, 4 "Quickway" Hooks and chrome plated base. Code: **Rurat.**
List Price..... **$27.50**

Model 70SK. "Communications-Type" Crystal Microphone. Specially designed for effective communications service in Police Radio, Amateur Radiophone, and High-Efficiency P.A. voice-announcement systems. Complete with microphone, 7 ft. two-conductor shielded cable, special handle, adapter, 4 "Quickway" Hooks, and chrome plated base. Code: **Rurep.**
List Price..... **$26**

Model 10BK. Two-Button Microphone. Advanced engineering and design makes it possible to offer this most economical 4-WAY UTILITY Unit for low-cost P.A. and Amateur use. Complete with microphone, 4 "Quickway" Hooks, special handle, adapter, 6 ft. three-conductor cable and nickel plated base. Code: **Rucol.**
List Price..... **$12**



Ring Suspension

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SHURE Crystal MICROPHONES

NEW "ULTRA" Wide-Range CRYSTAL MICROPHONES

"Ultra" WIDE-RANGE

8 Exclusive Features!

These new Shure "ULTRA" Wide-Range Crystal Microphones bring you amazingly life-like reproduction . . . plus new "Highs" in utility and dependability . . at remarkably low cost. This outstanding performance has been attained by Shure Engineers through these exclusive advanced features :

(1) "Ultra" Wide-Range reproduction from 40 to 10,000 cycles. (2) Dual-Drive, High-Capacity Grafoil Crystal. (3) Complete Barometric Compensation. (4) Internal Screen-Protected Cartridge. (5) Crystal "Moisture-Sealed" by new exclusive special process. (6) High output level through new Shure "Cruciform" Crystal Mounting. (7) New acoustically-correct single high-efficiency Curvilinear Diaphragm. (8) Beautifully styled new semi-nondirectional and semi-directional models in Spherical, Swivel and "Grille-Type" case designs.

And remember—only Shure "Ultra" gives you all 8 great performance-insuring features!

Model 700A. A small compact unit with swivel arrangement for use where "tilting" of microphone head is desired. Cable may be run inside or outside stand tubing. Finished in bright polished chromium plate overall. Diameter, 2⅜". Complete with 7 ft. single-conductor shielded cable. Code: **Ruret.**
List Price..... **$25**

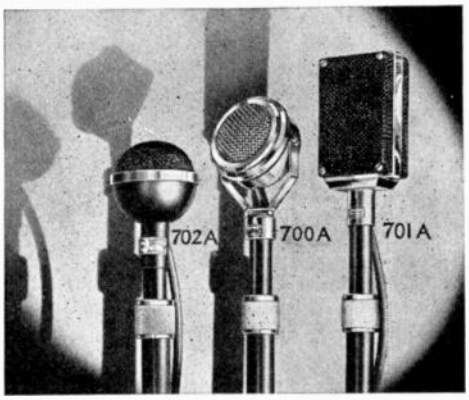
Model 700A-25 FT. Cable length, 25 ft. Code: **Rurel.** List Price..... **$26.80**

Model 701A. A "Grille-Type" Microphone, styled to meet the most critical taste and designed to give outstandingly high-quality reproduction. Attractive rubber-black screens with contrasting chromium fittings. 3 11/16" high, 2⅛" wide, 1¼" deep. Complete with 7 ft. single-conductor shielded cable. Code: **Rurev.**
List Price..... **$25**

Model 701A-25 FT. Cable length, 25 ft. Code: **Rured.** List Price..... **$26.80**

Model 702A. A small Spherical Microphone with Semi-nondirectional pickup . . . a feature which is especially valuable because it permits placement of a group around the Microphone without frequency discrimination. Beautiful rubber-black finish with circular chromium band. Diameter, 2¾". Complete with 7 ft. single-conductor shielded cable. Code: **Rurez.**
List Price..... **$25**

Model 702A-25 FT. Cable length, 25 ft. Code: **Rureg.** List Price..... **$26.80**



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. Convertible to a Hand Microphone with A40A Handle. Complete with removable "close-fitting" ring, 4 "Quickway" Hooks and shielded single-conductor rubber jacketed cable.

Model	Cable Length	Code	Shpg.Wt.	List
70H	7 feet	**Rurab**	1½ lbs.	**$22.50**
70H-25FT.	25 feet	**Rurov**	2 lbs.	**$24.30**

Model 70HP. "Push-Pull" Crystal Microphone. Same as 70H except cable is two-conductor shielded. Recommended for amplifiers with push-pull input.

Model	Cable Length	Code	Shpg.Wt.	List
70HP	7 feet	**Rulev**	1½ lbs.	**$22.50**
70HP-25FT.	25 feet	**Rulex**	2¼ lbs.	**$25.20**

Model A40A (formerly 71BH). Handle. Removable handle which fits 70H Crystal Microphone for hand use. Shipping weight, ¼ lb.
Code: **Rurij.**
List Price..... **$1.50**

70H-79AC Demountable



A complete unit consisting of the 70H Crystal Microphone with plug attachment, and Stand Receptacle. Instantly installed! Instantly removable for safekeeping or use elsewhere. Cable Strain Relief included. Net weight, 1 lb. Shipping weight, 1½ lbs. No cable furnished.

Model 70H-79AC. Code: **Ruram.**
List Price..... **$25**

Model 73A Lapel Type



A light, highly efficient lapel microphone which faithfully reproduces the speaker's voice. Free from "background" noise and vibration pickup. Only 2" in diameter and less than 2 oz. in weight . . . small, light and inconspicuous. Also useful for general microphone applications and for hearing-aid devices. Rubber-black finish. Equipped with special spring clip and 25 ft. shielded single-conductor black mercerized cotton-covered cable. Shipping weight, ¾ lb.

Model 73A. Code: **Rulap.**
List Price..... **$25**

Model 70S "Communications-Type"



Specially designed for high-efficiency voice communication in Commercial and Amateur radiophone transmitters. Highly recommended for high-intelligibility voice-announcement P.A. systems. Doubles power on important intelligibility speech frequencies . . . produces clear, crisp, powerful signals that cut through noise and static. No transmitter or amplifier changes . . . connect as you would an ordinary crystal microphone. Finished in polished chromium plate and baked rubber-black enamel. Complete with integral Desk Mount and 7 feet of shielded two-conductor, rubber-jacketed cable. Net weight, 2 lbs. Shipping weight, 2½ lbs.

Model 70S. Code: **Rurak.**
List Price..... **$25**

Model 70SP. Same as 70S, but without Desk Mount. Includes 7 ft. two-conductor shielded cable and 4 "Quickway" Hooks. Code: **Rural.**
List Price..... **$22.50**

Model 70SH-25FT. Same as 70SP but with 25 feet of single-conductor shielded cable. Code: **Rurap.** List Price..... **$24.30**

Shure Model 71AS Crystal Hand Microphone



"Close-Talking" type. Handsome chrome-finished case with rubber-black handle. "Push-to-talk" switch in handle. 7 ft. of special shielded, single conductor cable. Diameter of case 3 1/16". Overall length 9". Shipping weight, 1¾ lbs.

Model 71AS. Code: **Rurec.**
List Price..... **$26.50**

Model 71A. Crystal Hand Microphone. Same as Model 71AS but without switch. Code: **Rureb.**
List Price..... **$25**

Model 71BS. Crystal Hand Microphone. Non-"Close-talking" type. "Push-to-talk" switch in handle. 7 ft. of special cable. Code: **Rurih.**
List Price..... **$25.50**

Model 71B. Crystal Hand Microphone. Same as 71BS but without switch. Code: **Rurig.**
List Price..... **$24**

Model A80A Stand Switch



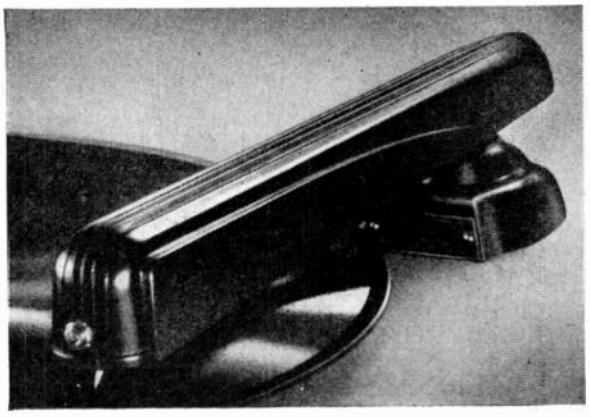
New handy stand-mounting on-off switch which can be used with any type microphone. Small attractive cast-aluminum case, with rubber-black enamel finish. Standard 5/8"-27 thread fits all Shure Stands. Overall height, 2½". Shipping weight, ¼ lb.

Model A80A. Stand Switch. Code: **Rudam.**
List Price..... **$2.50**

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SHURE Crystal DEVICES

THE NEW ZEPHYR Balanced-Tracking CRYSTAL RECORD REPRODUCER



Now for the first time—a crystal record reproducer that combines more accurate, more life-like reproduction of the recorded original . . . lower record wear . . . and new modern "aero-stream" beauty. The new ZEPHYR accurately and faithfully reproduces a frequency range even wider than that of modern high quality recordings. Its response is smooth and free from distortion-producing peaks throughout the entire frequency range.



"Balanced-Tracking"

The illustration at the left shows how accurately the ZEPHYR "tracks" the groove across a 12" record. The enlarged views at the top (looking down at the record) compare the relation of needle to groove for the ZEPHYR pickup (solid line) and conventional pickup (dotted line) at the start (1), half (2), and finish (3) of the record. Shure "needle-tilt" Balanced-Tracking keeps the needle true to the groove . . . makes records last longer . . . gives finer reproduction.

These features, too, are important: "High-lift" arm for easy needle changing. Shock-proof assembly, Double Precision Ball Bearing pivot, Counter-balanced non-resonant arm, Permanent centering, Positive cone-grip needle-chuck, Genuine Brush bimorph torsion crystal. Output voltage approximately 1 volt at 1,000 cycles. Connects direct to grid of tube. Plays 10" and 12" records.

Model 99A. Shure ZEPHYR "Balanced-Tracking" Crystal Record Reproducer. Black Bakelite Molded. Overall Dimensions: 10⅝" long, 2 3-16" high, base 2" wide. Radius of arm: 8". Shipping weight 1½ lbs. Complete with 3½ ft. shielded cord, mounting screws and motor board drilling template. Code: **Ruzef.**

List Price..... **$12**

Model 66A Stethophone



A new improved, non-acoustic piezo-electric device for pickup of heart and chest sounds for reproduction or recording. High output level achieved through basically new design principle. Small, light, compact. Size: 1 5-16" by 15-16". Net weight, less cable, under 3 oz. Beautiful chromium finish. Complete with 7 ft. shielded single-conductor cable. Ship. Wt., ¾ lb.

Model 66A. Stethophone. Code: **Rutal.**
List Price..... **$35**



Model 60C Contact-Type Crystal Microphone

For sound and vibration pickup in studies of machine noise and vibration, reproduction of stringed musical instruments, interception of sound through walls in criminal investigation work, and many other applications. Size: 1 ¾" by 1" by ¾". Mounting lugs provided. Chrome plated. Complete with 7 ft. single-conductor shielded cable. Ship. Wt. 10½ oz.

Model 60C. Code: **Rutac.** List Price..... **$22.50**

Crystal Microphone Cable

Good cable is essential for proper operation of crystal microphones. Shure cables are specially designed for low capacity and high insulation resistance, and are manufactured to rigid standards.

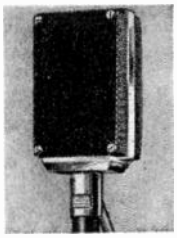
Available in bulk, any length, or in standard convenient trimmed lengths (7, 25 and 50 ft.) at no extra charge. All cable is shielded and has an overall rubber jacket. A special fabric-covered cable is also available on special order.

Model C10B. Single-conductor type. Diameter 7-32". Wt. 3 lbs. per 100 ft. Code: **Rurim.** List Price, per foot..... **10c**

Model C20B. Two-conductor type. Diameter ¼". Wt. 4 lbs. per 100 ft. Code: **Rubat.** List Price, per foot..... **15c**

Shure Crystal Devices are licensed under patents of the Brush Development Company. Shure patents pending.

Model 85A High-Fidelity Sound-Cell Type Crystal Microphone



A true High-Fidelity non-directional microphone with a response characteristic within a total range of only 5 db from 30 to 10,000 cycles. Meets the most critical requirements for highest quality sound production. "Grille-Type" case, finished in rubber-black and chrome. Case measures 3 11-16" by 2 5-16" by 1¼ in. Ship. wt., 1 lb. Complete with 7 ft. single-conductor shielded cable.

Model 85A. Code: **Ruleb.** List Price.. **$45**



Volume Controls for Crystal Microphones

Speakers, soloists, and announcers can now control the volume of a crystal microphone **at the microphone** . . . smoothly . . . noiselessly . . . with complete freedom from unwanted "tone-control" effects! Small compact unit (4" by 2" by 2") that mounts on any Shure Stand. Rubber-black and chrome finish. Convenient ON-OFF switch. Volume Controls are supplied in two types: "Demountable," with receptacle for 70H-79AC Microphones, and "Coupling" type threaded ⅝"-27 for Models 70H, 700A, 701A and 702A. For best results the cable should not be lengthened or shortened—use the full length supplied with the unit.

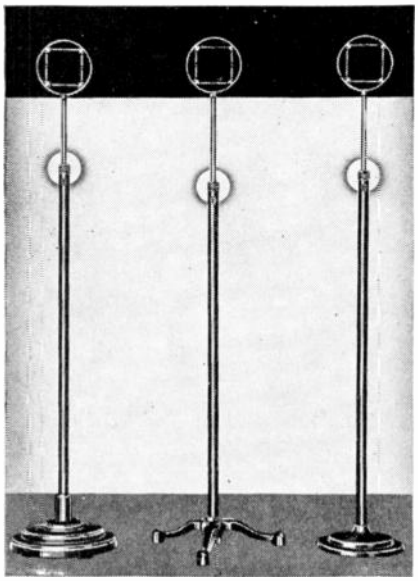
Model 70H-V11A. 70H Crystal Microphone with Volume Control and 25 ft. of shielded cable. Ship. Wt., 3¾ lbs. Code: **Rugow.**
List Price..... **$35**

Model V11A. Volume Control only. "Coupling" type with 25 ft. cable. Code: **Rugap.** List Price..... **$12.50**

Model V21A. Volume Control only. "Demountable" type with 25 ft. cable. Code: **Rugos.** List Price..... **$12.50**
Volume controls also available with 50 ft. cable.

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SHURE STANDS and Accessories



S58A S57B S56A

Shure Stands, designed by microphone specialists familiar with every phase of microphone service, have become the accepted standard due to their convenience, distinctive modern design, rugged construction and moderate cost. A complete range of types and styles solves every microphone mounting problem.

FLOOR STANDS

All Shure Floor stands have the exclusive "Automatic Friction Lock." You simply raise, lower or turn the microphone . . . no thumb screws or wing nuts . . . no rattling or sudden dropping! The proper degree of friction is adjusted by rotating the chromium collar at the top of the barrel. Cables may be run through tubings, or outside with a P50A Side Cable outlet. Effective height adjustment 43" to 68". Finish is standard rubber-black with chromium plated trim. Standard 5/8"—27 thread. **Rings are not included, and must be ordered separately.**

Model S56A. Floor Stand. "Round" Base. Base diameter, 10¼". Net weight, 11 lbs. Shipping weight, 12½ lbs. Code: **Ruvos.**
List Price..... **$13.50**

Model S57B. Floor Stand. 3-leg "Tri-Ped" Base, Leg spread, 15½". Net weight, 13¾ lbs. Shipping weight, 15¾ lbs. Code: **Rugart.**
List Price..... **$15.50**

Model S58A. Floor Stand. Large, heavy "Modernistic" round base. Base diameter, 12½". Net weight, 14¼ lbs. Shipping weight, 16 lbs. Code: **Ruvim.**
List Price..... **$17.50**

Model S59A. Floor Stand. Modernistic extra-heavy base, with space in base for pre-amplifier or power supply. Effective height adjustment, 48" to 73". Base diameter, 15". Net weight, 29¼ lbs. Shipping weight, 33½ lbs. Code: **Rudal.**
List Price..... **$36.50**

Model S54B. Floor Stand. A light weight Utility stand with three extensible sections. Modernistic base, 10⅜" in diameter, finished in black "Wrinkle" enamel. Height adjustment, 25½" to 62½". Net weight, 7½ lbs. Shipping weight, 8¾ lbs. Code: **Rucov.**
List Price..... **$10**



S54B

DESK and BANQUET STANDS



Model S30B. "Special" Desk Stand. A small desk unit for Carbon Microphones complete with 5" ring. Modern bevel-edged design, beautifully finished in chromium plate overall. Cord entrance in base. Complete with 8 rust-proof springs. Base diameter, 4¼". Height overall, 7". Net weight, 1 lb. Shipping weight, 1¼ lbs. Code: **Runep.**
List Price..... **$3.50**

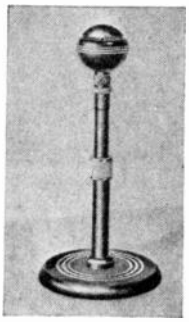
Model S31A. Desk Mount. A short, non-adjustable, desk-type mount of proper height for operating table. Cord entrance in base. Rubber black finish overall. Base diameter 4¼". Height, 6¾". Net weight, 1 lb. Shipping weight, 1¼ lbs. Code: **Rujab.**
List Price..... **$3**



Model S41A. Banquet Stand. A lightweight "utility" stand, finished in polished nickel plate. Non-adjustable. Cord entrance in base. Base diameter, 4¼". Height, 10". Net weight, 1 lb. Shipping weight, 1¼ lbs Code: **Rujak.**
List Price..... **$3.50**

Model S32C (formerly 51DC). Modernistic Desk Stand. A new adjustable desk stand with the exclusive Shure "Automatic Friction Lock!" Beautiful modern design, with three chromium circles on base contrasting with the rich rubber-black finish. Base diameter, 6". Height, adjustable from 7" to 11". Net weight, 3½ lbs. Shipping weight, 3¾ lbs. Code: **Rudes.**
List Price..... **$6.50**

Model S42C (formerly 52DC). Modernistic Banquet Stand. A companion unit to Model S32C listed above, useful where greater height is needed. Height range, 15" to 22". Net weight, 3¾ lbs. Shipping weight, 4¼ lbs. Code: **Rukof.**
List Price..... **$7.50**



S32C

Plugs and Receptacles



Model P10B. Plug. Three-conductor type. Threaded locking ring and water-proof strain-relief gasket cap. May be used to convert "non-demountable" microphones to demountable type. Chromium plated. Shipping weight, ¼ lb. Code: **Rulab.**
List Price..... **$1**



Model P20B. Receptacle. Three-Conductor type, complete with water-proof strain-relief gasket cap. Fits P10B Plug. Chromium plated. Shipping weight, ¼ lb. Code: **Rulam.** List Price.. **$1**

Model P41A. Receptacle. Three-Conductor type. Mounts in 13/16" hole on chassis or panel. Fits P10B Plug. Nickel plated. Shipping weight, ¼ lb. Code: **Rutop.** List Price..... **50c**

Model 79P. Plug. Two-Conductor Telephone type. Fully shielded. Chromium plated. Shipping weight, ¼ lb. Code: **Rurik.**
List Price..... **$2.25**

Model 79R. Receptacle. Fully-shielded cable-connector type receptacle for 79P Plug. Chromium plated. Shipping weight, ¼ lb. Code: **Ruril.**
List Price..... **$2.50**

Cable Fittings



Model P40C. Stand Receptacle. Locking three-conductor, fully shielded type. Mounts on any Shure Stand. Useful for converting "non-demountable" microphones to "demountable" type. A P51A Strain Relief (See description below) is included. Standard rubber-black finish. Shipping weight, ¼ lb. Code: **Rulir.** List Price..... **$1.25**

Model P51A. Strain Relief. Used with Stand Receptacle when cable is run inside tubing. Prevents terminal strain. Cadmium plated. Code: **Rupat.** List Price..... **25c**





Model P52A. Cable Guide. Holds cable neatly beside stand. Attached to tubing near base. Rubber-black finish. For S54B Floor Stand. Shipping weight, ¼ lb. Code: **Rujov.**
List Price..... **$1.00**

Model P53A. Cable Guide. For S56A, S57B, S58A and S59A. Floor Stands. Code: **Rujor.** List Price..... **$1.00**



Model P50A. Side Cable Outlet. Brings cable outside stand. Self strain-relief feature. Rubber-black finish. Code: **Rupak.**
List Price..... **75c**

Stand Adapters

Model A20A. Adapter. For mounting microphones with ½" Pipe Thread on any Shure Stand (5/8"—27 thread). White nickel plated. Shipping weight, ¼ lb.
Code: **Rudap.** List Price..... **$1.00**

Model A21A. Adapter. For mounting microphones with ½" Pipe Thread on any Shure Stand (5/8"—27 thread). Chromium plated. Code: **Rujec.**
List Price..... **$1.00**

Flexible Coupling

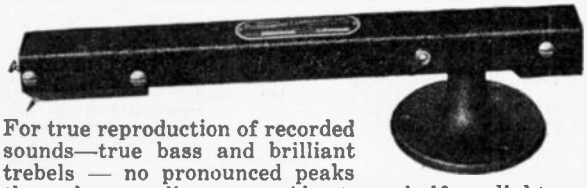
Model A10A. Flexible Coupling. Reduces pickup of shock and vibration. Installed between microphone and any Shure Stand. Code: **Ruvor.** List Price..... **$1.00**

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KNOWN THE WORLD OVER

ASTATIC

CRYSTAL MICROPHONES AND PICKUPS



For true reproduction of recorded sounds—true bass and brilliant trebels — no pronounced peaks throughout audio range. About one-half as light on the record as conventional magnetic pickup, therefore extremely kind to life of recordings. Only 2¾ ounces pressure on needle point.

Fully Guaranteed

Types S-8 ..... **List Price $12.00**
Types S-12 ..... **List Price 15.00**

HIGH FIDELTY PICKUP

The remarkable efficiency of the Astatic Bimorph Crystal element in the faithful reproduction of actual sounds through the medium of the microphone, has been adapted as successfully to the reproduction of recorded sounds through the now internationally accepted Astatic Crystal Pickup. Where normally records are weakest, in the bass, it is strongest. Finished black wrinkle with chromium plated trimmings. Two models: S 8 for 10 and 12-inch records; S-12 for 16-inch records.

FOR CONCEALED PLACEMENT



MODEL 218

A single diaphragm type crystal microphone having wide angle unidirectional pickup—especially designed to be used for effective ickup in places where microphone is to be concealed. 2⅛" in diameter by ⅞" thick, flat back with domed screen front. Output level is approximately—56 D.B., using a 5.0 meg. load. Interior assembly is cushion mounted, permitting use under adverse conditions of vibration. Provided with 8 ft. single wire rubber covered cable—(longer length on request). So designed that long cable may be used without serious loss of output. Provided with spring clip for attachment.

Fully Guaranteed

List Price $22.50



An Astatic special purpose crystal microphone, replacing the stethoscope in the medical profession.

MODEL CP-104

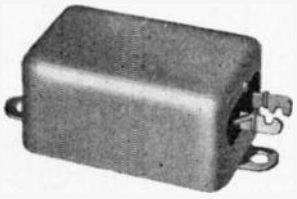
CARDIAPHONE

The Astatic Cardiaphone is a super sensitive instrument for determining and studying heart and lung conditions. Its greater range and precision in this field open up wider possibilities for this type of investigation.

Fully Guaranteed.

List Price $25.00

SCRATCH FILTER



MODEL 5-M

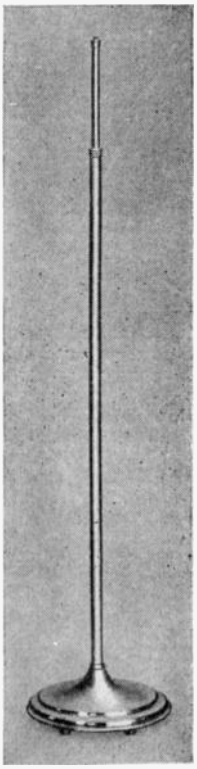
Metallic container, size 1x1¼x2 inches—thoroughly sealed and tuned to resonate at the point of greatest scratch intensity.

Fully Guaranteed.

List Price $1.50

LICENSED UNDER PATENTS OF BRUSH DEVELOPMENT CO. — Astatic Patents Pending

ADJUSTABLE MICROPHONE STANDS



Astatic microphone stands are beautifully finished in triple chrome plate. No objectionable thumb screws; adjusted to desired elevation by simply raising or lowering rod; remains in any position until manually changed. Equipped with cast iron base and rubber feet. Threaded for Astatic Microphones.

FLOOR STAND
List Price **$12.50**
BANQUET STAND
List Price **$7.50**
TABLE STAND
List Price **$3.00**

PIONEER MANUFACTURERS OF QUALITY CRYSTAL DEVICES

Copyright 1936 by U.C.P. Inc.

KNOWN THE WORLD OVER

ASTATIC

CRYSTAL MICROPHONES AND PICKUPS



STUDIO MODEL K-2

The broadcasting station type K-2 is built with two separate units of the DUAL DIAPHRAGM construction (a distinctly new microphone advancement exclusively controlled by Astatic) functioning on GRAFOIL BIMORPH CRYSTALS, the most highly perfected element of its kind—producing a NON-DIRECTIONAL, dependable, clear-toned crystal microphone that broadcasting and P.A. engineers are installing to replace now outdated, bulkier, more erratic devices. Frequency response substantially flat from 30 to 6000 c.p.s. with rising characteristics to 10,000 c.p.s.; output level of —64 decibels (conservatively rated). Bright chromium finish; monel metal protecting screen; 8 ft. of two-wire shielded rubber covered cable (longer length on request) for use with either single tube or push pull input.

Threaded ⅝" x 27 threads per inch for stand mounting.

Fully Guaranteed

List Price $37.50



LAPEL MICROPHONE MODEL L-1

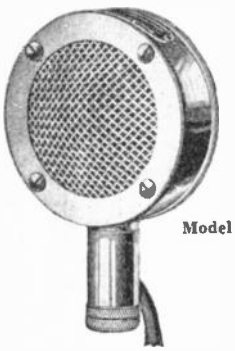
Only 1½" in diameter and ⅛" thick — clamps tightly and neatly to lapel, cord back over shoulder. Not sensitive to frictional noise. Output level — 68 DB.

Ideal for singers, speakers and moving announcers — freeing them from limitations of ordinary mike—so true in pickup and so inconspicuous that neither listeners nor performers are conscious of its presence. A NON-DIRECTIONAL quality crystal microphone with a frequency response substantially flat from 50 to 6000 c.p.s., utilizing the exclusive Astatic DUAL DIAPHRAGM principle functioning on a single genuine GRAFOIL BIMORPH CRYSTAL element. Furnished with 25 ft. single wire braid covered cable — longer length on request.

Fully Guaranteed

List Price $25.00

"SPEECH RANGE" TYPE



Model D-104

Low in price, built rugged for long service, giving quality "speech range" performance under all conditions, the D-104 has become the favorite of veteran amateurs the world over. Frequency response especially appropriate. Ask the 'ham' who owns one! No background noise of any kind. Performance not affected by moving or handling. Comes equipped with 8 feet of one-wire shielded rubber covered cable (longer length on request)—adapted threaded ⅝" x 27 threads for stand mounting.

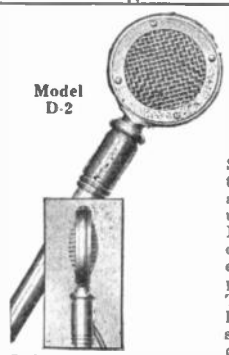


Model D-104HS

Three inches in diameter, one inch thick—delicate parts suspended within. Furnished with handle, handswitch as illustrated above or relay switch. All four models listed below.

Fully Guaranteed

Model D-104	**List Price $22.50**
Model D-104H	**List Price $25.00**
Model D-104HS	**List Price $25.50**
Model D-104RS	**List Price $27.50**



Model D-2

Only 2½" diameter and ½" thick —finished entirely in chromium.



PUBLIC ADDRESS CRYSTAL MICROPHONE
WATCH CASE MODEL

Shaped and styled like a watch, the D-2 is the latest achievement of Astatic engineers and has won the hearts of every microphone user wherever public appearance is made. Not only beautiful to look at but does not obstruct the performer's face. Utilizing the exclusive Astatic DUAL DIAPHRAGM principle on a GRAFOIL BIMORPH CRYSTAL element, it is essentially a NON-DIRECTIONAL unit with a frequency response substantially flat from 50 to 6000 c.p.s.; an output of —60 decibels and a definitely reduced feed back tendency — recommended for P.A. systems. Built to stand shock far beyond ordinary.

Fully Guaranteed

LIST PRICES

Equipped with 8 feet of single wire shielded rubber covered cable (longer length on request); adapter threaded ⅝" x 27 threads for stand mounting.

Model D-2 ..... **$25.00**

Same as above, furnished with handle.

Model D-2H **$27.50**

Same as D-2, furnished with handswitch (illustrated opposite).

Model D-2HS **$28.00**

Same as D-2, furnished with relay switch.

Model D-2RS **$30.00**

PIONEER MANUFACTURERS OF QUALITY CRYSTAL DEVICES

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ELECTRO-VOICE MICROPHONES



"V" SERIES VELOCITY

Heavy woven wire housing eliminates cavity resonance and side-wall reflection. Maintains true directivity for all frequencies. Thoroughly hum-free—it can be operated as close as 18 inches to a power supply. Impervious to rough handling, moisture, temperature changes. Frequency response: 30 to 14,000 c.p.s. Internal shock-absorber provides totally shock-free action. Case made of machined cast aluminum, finished in black and chromium. Available in either high or low impedance output.

Model V-2—One of America's most popular Public Address microphones. Output: —68 DB. Equipped with 20-ft. cable, locking cradle.

List Price **$35.00**

Model V-3—Designed particularly for Broadcast but excellent for P.A. Output: —66 DB. Equipped with 20-ft. cable, swivel, locking cradle and shielded plug.

List Price **$50.00**

Model V-4—Accurately calibrated and adapted to highest quality pick-up. Output: —66 DB. Equipped with 20-ft. cable, locking cradle, swivel and shielded plug.

List Price **$75.00**

"K" SERIES VELOCITY

Modern in every detail, inside and out, and made to withstand more than average handling, the new "K" Series provides high quality in the low price field. True Velocity characteristics greatly reduce feed-back and reverberation pick-up. Installations have better quality and stability with increased volume. Streamline housing, relatively high output, integral shock-absorber and sturdy construction make it excellent for Public Address applications.

Model K-20—Finished in black with chromium trim. Equipped with locking cradle, shock-absorber, and 8-ft. cable. Output: —68 DB. (Standard output impedance: direct-to-grid.)

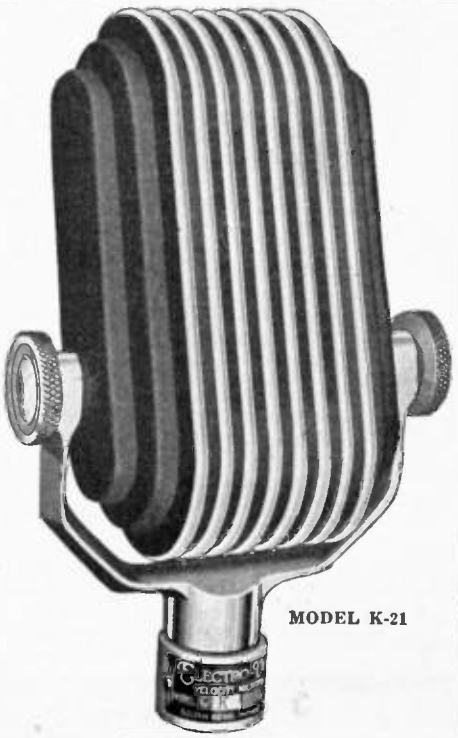
List Price **$19.50**

Model K-21—Finished in black with chromium bars and trim. Equipped with locking cradle, shock-absorber, and 8-ft. cable. Output: —66 DB. (Standard output impedance: direct-to-grid.)

List Price **$24.50**

Model K-21—Finished in all chromium. Equipped with locking cradle, shock-absorber and 8-ft. cable. Output: —66 DB. (Standard output impedance: direct-to-grid.)

List Price **$29.50**



MODEL K-21

ADDITIONAL SPECIFICATIONS FOR "V" AND "K" LINES

Standard output impedance: Direct-to-grid. Low impedances of 50, 200, 500 ohms available on special order at no extra cost.

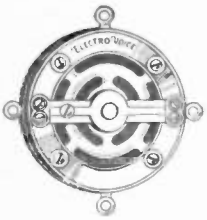
Special colors available on special order at slight extra charge.

Standard coupling thread: ⅝-in.—27. Other sizes or threads available on special order at no extra charge.

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ELECTRO-VOICE MICROPHONES

ELECTRO-VOICE—MODEL 100



The qualities of smoothness, brilliance and stability characterize this microphone. Proved dependability under all conditions. Adaptable to voice and music for public address and communication. Double button. Response: 40-6,000 c.p.s. Size: 2½" x 1". Shipping weight: 1 pound.

Standard Model **100D**
Medium damped Model **100B**
Code BLET—List Price **$10.00**

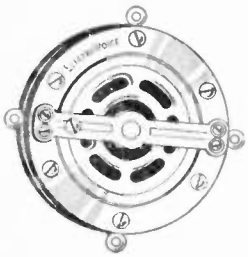
ELECTRO-VOICE—MODEL 77



Designed for high-fidelity speech and music "pick-up." Adaptable to broadcast, public address and general communication work. Speech is clean cut and music is rich and brilliant. Double-button. Removable buttons allow easy repacking. Accurately stretched duralumin diaphragm. Attractive, symmetrical appearance. Response: 35-6,500 c.p.s. Size: 2¾" x 1½". Shipping weight: 1½ pounds.

Code: BILGE—List Price **$18.00**

ELECTRO-VOICE—MODEL 88



The last word in microphone design. This new model "88" incorporates every engineering feature. (It not only possesses a uniformly flat and wide response but maintains CORRECT WAVE SHAPE.) Music and speech are accurately reproduced with all the shadings and overtones. Double button. Removable buttons. Stretched duralumin diaphragm. Response: 30-7,000 c.p.s. Size: 3½" x 2". Shipping weight: 4 pounds.

Code: BLACK—List Price **$25.00**

ELECTRO-VOICE—MODEL 201-D



Developed for hand microphone service, having ALL the necessary requisites. Inherent high frequency compensation is accomplished to allow a rising frequency characteristic. Close talking is natural and life-like—free from the usual "boom." Furnished with a five-foot cable. Response: 50-5,000 c.p.s. Size: 7½" x 1⅜". Shipping weight: 1¼ pounds.

Model 201-S (single-button) List Price **$10.00**
Model 201-D (double-button) List Price **$15.00**
Code: BLAZE

COMET MICROPHONE



A double-button microphone adaptable to medium quality sound and communication work. Dependable and rugged. Chrome finish. 200 ohms per button. Response: 50-4,500 c.p.s. Pure 24-Kt. gold contacts. Low hiss level. Smooth characteristic but not recommended for music pick-up.

Code: BLINK—List Price **$5.00**

ELECTRO-VOICE MICROPHONE STANDS

WITH PUSH-BUTTON RELEASE



Model 416 — Floor Stand particularly designed for Velocity Microphones. Merely push a convenient button to raise or lower. Cannot slip or fall. Requires no tension adjustment. One-second action. Microphone may be rotated without affecting height adjustment. All adjustments made with one hand. Heavy 16 pound base. Finished in black wrinkle and chromium. Standard ⅝"—27 thread.

Code: BLISS—List Price **$15.00**

Model 417—Banquet Stand. Same general features as Model 416 but adaptable for banquet table use.

Code: BLOAT—List Price **$10.00**

Model 418—Desk Stand. Ideal for mounting a Velocity Microphone for announcing purpose. Non-adjustable.

Code: BLOCK—List Price **$2.50**

Model 419 — Carbon Microphone Ring. ⅝"—27 thread. Will fit any of the above stands. Especially desirable for mounting large, heavy Carbon Microphones, such as, ELECTRO-VOICE Model 88. Complete with springs.

Code: BLOOD—List Price **$2.50**

CARBON MICROPHONE STANDS

Model 419—Desk Stand—Modernistic base finished in black wrinkle. 6-in. ring for average size microphone. Complete with springs.

List Price **$3.00**

Model 420—Floor Stand—A smart appearing, well built stand. Locking ferrule for height adjustment is noiseless and positive in adjustment. 6-in. ring. Complete with springs.

List Price **$10.00**

MICROPHONE ACCESSORIES

Model 440—Boom Mounting Bracket—For suspending velocity microphones in inverted position. Standard ⅝-in.—27 thread.

List Price **$0.50**

Model 441—Suspension Eye—For suspending microphones or microphone rings in inverted position. Thread optional.

List Price **$0.35**

Model 315—Set of eight microphone springs, loop ends.

List Price **$0.40**

Model 316—Granular carbon, general purpose, No. 80 mesh.

List Price **$0.80**

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GENERAL INDUSTRIES
PHONOGRAPH MOTORS

The General Industries Company's Motors are the result of long years of experience and exhaustive experimental and scientific study. The General Industries types of Motors have been manufactured continuously since 1915, and many millions are in constant use giving permanent and positive satisfaction.

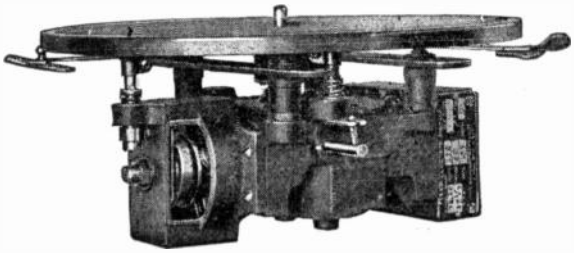
GREEN FLYER TWO-SPEED, GOVERNOR CONTROLLED, ELECTRIC MOTOR, 33-1/3 and 78 R.P.M.

Model D with 12" Turntable Speed Regulator, Speed Change Lever and Plate.

Model H for 16" Records

Furnished for use on all voltages and frequencies, also supplied for:
110 volts D.C. or 220 volts D.C.
110 volts A.C. and D.C. Universal
220 volts A.C. and D.C. Universal
6 volts D.C. Single and Two-Speed
Please Specify the voltage and frequency required.

Accessories—10" or 12" turntable Dial and Pointer Speed Regulator.
Speed Change Pointer.
Speed Change Escutcheon Plate.



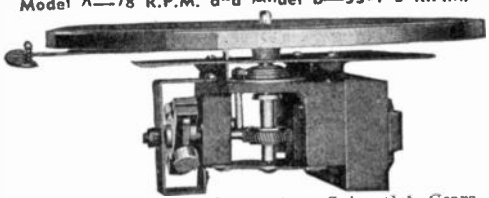
Model "D"—110 Volts A.C., 60 Cycles **List Price, Each**	**$16.50**
Model "D"—110 Volts D.C. **List Price, Each**	**21.50**
Model "H"—110 Volts A.C., 60 Cycles. (Recommended for 16" records) **List Price, Each**	**17.75**

Add $1.75 to list price for weighted 12" turntable.
Add $1.25 to list price for Automatic Stop.
Deduct $.50 from the list price for standard 10" turntable.

Hardware in Nickel, Oxidized, Brass, Gold Lacquer, or Statuary Bronze finish.
Automatic Stops are optional.
Specially designed for playing the new records recorded at 33⅓ R.P.M. and records recorded at 78 R.P.M.
The shift from one speed to the other is accomplished by simply moving a lever.
All gears are completely enclosed and run in oil.
Silent Spiral-Cut Gears made from Laminated Bakelite.
Long over-size self-lubricating bearings.
Absolute uniformity of speed under severe variation of voltage and record drag.
Will not overheat in closed Cases and Cabinets.

SIZE
Length—8" Width—5¾"
Depth — 3¾" from Mounting Strap to Bottom

Green Flyer Governor Controlled Electric Motor
Model A—78 R.P.M. and Model B—33-1/3 R.P.M.



Furnished for use on all voltages and frequencies, also supplied for:
110 volts D.C. or 220 volts D.C.
110 volts A.C. and D.C. Universal
220 volts A.C. and D.C. Universal
Please Specify the voltage and frequency required.
Furnished complete mounted on plate ready for installation.
Open construction allowing perfect ventilation.
Absolute uniformity of speed under severe variation of voltage and record drag.
Long over-size self-lubricating bearings.
Silent Spiral Cut Gears made from Laminated Bakelite.
Will not overheat in closed Cases and Cabinets.
Finished in handsome green enamel.
Accessories—10" or 12" turntable.
Dial and Pointer Speed Regulator.
Hardware in Nickel, Oxidized, Brass, Gold Lacquer, or Statuary Bronze finish.
Automatic Stops are optional.

SIZE
Length—6" Width—3¼"
Depth — 3⅛" from Mounting Plate to Bottom

Single-Speed Green Flyer Electric Phonograph Motor with standard 12" turntable and speed regulator.

	List Price
Model "A"—78 R.P.M. (110 Volts A.C., 60 Cycles) ea.	$13.00
Model "B"—33⅓ R.P.M. (110 Volts A.C., 60 Cycles) ea.	14.00
Model "A"—78 R.P.M.—(110 Volts D.C.) ea.	18.75
Model "B"—33⅓ R.P.M. (110 Volts D.C.) ea.	19.75

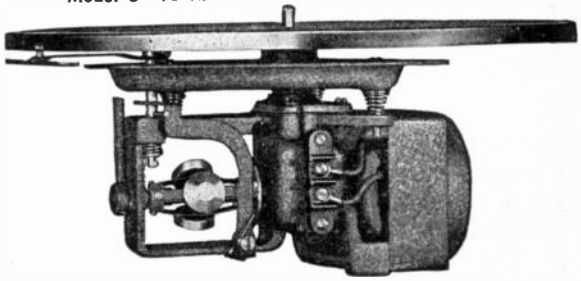
Add $1.75 to list price for weighted 12" turntable.
Add $1.25 to list price for Automatic Stop.
Deduct $.50 from the list price for standard 10" turntable.

SIX VOLT D.C. MOTORS

	List Price
78 R.P.M. each	$21.50
33⅓ R.P.M. each	21.50
78 and 33⅓ R.P.M. each	24.00

Add $1.75 to list price for weighted 12" turntable.
Add $1.25 to list price for Automatic Stop.
Deduct $.50 from the list price for standard 10" turntable.

Blue Flyer Governor Controlled Electric Motor
Model E—78 R.P.M. and Model F—33-1/3 R.P.M.



A very fine and powerful Motor for Combination Radios and Phonographs and Cabinet Machines.

Furnished for use on all voltages and frequencies. Please Specify the voltage and frequency required.
Furnished complete mounted on plate ready for installation.
Open construction allowing perfect ventilation.
Absolute uniformity of speed under severe variations of voltage and record drag.
Long oversize self-lubricating bearings.
Silent spiral-cut gears made from Laminated Bakelite.
Will not overheat in closed cases and cabinets.
Finished in handsome blue cracklin enamel.
Accessories—10" or 12" turntable.
Dial and Pointer Speed Regulator.
Hardware in Statuary Bronze, Oxidized, Brass, Nickel or Gold Lacquer finish. Automatic Stops are optional.

Length—7¼" Width—3¼"
Depth—4⅜" from Mounting Plate to Bottom.

Single-Speed Blue Flyer Electric Phonograph Motor with standard 12" turntable and speed regulator.

	List Price
Model "E"—78 R.P.M. (110 Volts A.C., 60 Cycles) ea.	$14.75
Model "F"—33⅓ R.P.M. (110 Volts A.C., 60 Cycles) ea.	15.75

Add $1.75 to list price for weighted 12" turntable.
Add $1.25 to list price for Automatic Stop.
Deduct $.50 from the list price for standard 10" turntable.

UNIVERSAL PHONOGRAPH MOTORS

	List Price
Model "N"—33⅓ and 78 R.P.M. Two-Speed Universal Motor, 110 volts A.C. and D.C., with 12" turntable, speed regulator and speed change lever and escutcheon plate each	$22.50
Model "G"—78 R.P.M. Single Speed Universal Motor, 110 volts A.C. and D.C., with 12" turntable and speed regulator each	19.50
Model "J"—33⅓ R.P.M. Single-Speed Universal Motor, 110 volts A.C. and D.C., with 12" turntable and speed regulator each	19.50

Add $1.75 to list price for weighted 12" turntable.
Add $1.25 to list price for Automatic Stop.
Deduct $.50 from the list price for standard 10" turntable.

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GENERAL INDUSTRIES
PHONOGRAPH RECORD CHANGERS
A PRODUCT OF GENERAL INDUSTRIES CO.

AUTOMATIC RECORD CHANGER – MODEL "K"
PLAYS EIGHT 10-in. RECORDS AUTOMATICALLY

This Model K Automatic Record Changer is a very efficient, compact and simple unit. It will play standard 78 and 33⅓ R.P.M. records. The improved two-speed motor is very quiet in operation and remarkable for its simplicity. The pick-up is damped thereby bringing out the best tone quality of the records. The entire unit requires a small space for mounting. Size: Length across front of base plate 12 in.; Width: (front to back of base plate) 12 in.; Height: above plate 5 in.; Depth: below plate 3¼ in.

FEATURES

Plays eight 10 in. Records Automatically. . . . Plays 12 in. Records Manually. . . Any Record may be repeated. . . . Repeats last record. . . . Records may be rejected. . . . Simple change for playing manually. . . . All steel Construction. . . . Finish—Statuary Bronze. . . . Furnished for all voltages and frequencies, also for direct current, and for Universal A.C.-D.C. Operation.



Automatic Record Changer with master switch, high impedance pickup with volume control and 110 volt A.C. 60 Cycle, two-speed motor.
No. 8—LIST PRICE **$45.00**

Same as No. 8, except less Volume Control.
No. 7—LIST PRICE **$44.25**

Same as No. 8, except less Master Switch.
No. 6 LIST PRICE **$44.50**

Same as No. 8 except less volume control and master switch.
No. 5—LIST PRICE **$44.00**

Same as No. 8, except with Automatic Stop Switch (especially for Funeral Chapel or similar use where remote control is desired).
No. 9—LIST PRICE **$50.00**

For 110 Volts A.C. & D.C. Univ. Motor..... **Add $8.00 to list price**
For 110 Volts D.C. only ..... **Add $7.00 to list price**
For 6 Volts D.C. ..... **Add $8.50 to list price**
For 110 Volts A.C. 25 Cycles ..... **Add $1.25 to list price**

NOTE: We are furnishing as standard either the Webster Electric Co. high impedance magnetic pickup or Astatic crystal pickup. Please specify which one you prefer. The Webster pickup may be had with 200 or 500 ohm impedance at no extra charge.

AUTOMATIC RECORD CHANGER – MODEL "L"
PLAYS EIGHT 10-in. RECORDS OR SEVEN 12-in. RECORDS AUTOMATICALLY

This efficient record changer is compact and simple in construction. It will play 78 or 33⅓ R.P.M. standard records. The new and improved type of two-speed motor is very quiet in operation. There are no intricate working parts to get out of order. It uses a flat type, flexible damped pickup which will reproduce fine tone quality. The complete unit requires very small space for mounting. **Length:** across the front of base plate 14 inches. **Width:** front to back of base plate 15 in. **Height:** above plate 5 in. **Depth:** below the plate 3¼ in.



FEATURES

Plays seven 12 in. or eight 10 in. Records automatically. . . . Any Record may be repeated. . . . Records may be rejected. . . . Repeats last record. . . . Simple change for playing manually. . . . Simple change for 10 in. or 12 in. Records. . . . All steel Construction. . . . Finish—Statuary Bronze. . . . Furnished for all voltages and frequencies, also for direct current, and for Universal A.C.-D.C. Operation.

Record Changer mounted on 14 in. x 15 in. Plate with On-and-Off Switch, Pickup and Volume Control, 110 Volt A.C., 60 Cycle Two-Speed Motor.
No. 18—LIST PRICE **$52.50**

Record Changer, same as No. 18, less Volume Control.
No. 17—LIST PRICE **$51.75**

Record Changer, same as No. 18, less On-and-Off Switch.
No. 16—LIST PRICE **$52.00**

Record Changer, same as No. 18, less Volume Control and On-and-Off Switch.
No. 15—LIST PRICE **$51.50**

Same as No. 18, except with Automatic Stop Switch (especially for Funeral Chapel or similar use where remote control is desired).
No. 19—LIST PRICE **$57.50**

For 110 Volts A.C. & D.C. Univ. Motor..... **Add $8.00 to list price**
For 110 Volts D.C. only ..... **Add $7.00 to list price**
For 6 Volts D.C. ..... **Add $8.50 to list price**
For 110 Volts A.C. 25 Cycles ..... **Add $1.25 to list price**

NOTE: We are furnishing as standard either the Webster Electric Co. high impedance magnetic pickup or Astatic crystal pickup. Please specify which one you prefer. The Webster pickup may be had with 200 or 500 ohm impedance at no extra charge.

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Measuring TRIPLETT Instruments

PANEL INSTRUMENTS



223 & 323-D.C.
233 & 333-A.C.



221, 321 & 521-D.C.
231, 331 & 531-A.C.

TRIPLETT D. C. INSTRUMENTS are the D'Arsonval type with an extra light moving coil and reinforced strong parts. TRIPLETT A. C. INSTRUMENTS are the movable iron repulsion type. All are air damped. Have extra light moving parts. Both A.C. and D.C. instruments have: Sapphire jewel bearings. Finest workmanship to assure dependable performance. White enameled metal scales. Molded zero adjusters. Accuracy within 2%. Portable models 525-535 with mirror scales and knife-edge pointers are accurate within 1%.



324, 328 & 524-D.C.
334, 338 & 534-A.C.



326 & 421-D.C.
336 & 431-A.C.

DIMENSIONS OF A. C. AND D. C. MODELS

Model No. D. C.	Model No. A. C.	Code D. C.	Code A. C.	Body	Flange	Body Depth	Type Case	Scale Length D. C.	Scale Length A. C.	Case
221	231	THROW	THRAM	2¼" diam.	2⅝" diam.	1⅜"	Flush	1 23/32"	1 35/64"	Molded
223	233	TOAST	TRUCE	2 1/16" diam.	5/16" diam.	1¼"	Clamp-on	1 23/32"	1 35/64"	Metal
323	333	TACIT	TOBIT	3¾" diam.	3 3/16" diam.	1¼"	Clamp-on	2⅜"	2 9/64"	Metal
321	331	TRIPE	TROUT	2¾" diam.	3⅛" diam.	1¾"	Flush	2⅜"	2 9/64"	Molded or Metal
324	334	TIGER	TROWL	2¾" diam.	3 1/16" diam.	1⅝"	Projection	2⅜"	2 9/64"	Metal Case—Molded Base
326	336	TRZAZ	TRUUL	2¼" diam.	3⅛"X2 15/16"	1 1/32"	Flush	2⅜"	2 9/64"	Molded
328	338	TROQE	TRTTH	3" diam.	3⅛" diam.	1 21/32"	Projection	2⅜"	2 9/64"	Metal
421	431	TOOTH	TRINE	3¾" diam.	4¼"X4"	1 15/16"	Flush	3⅛"	2⅞"	Molded
521	531	TREES	TRIMS	4⅜" diam.	5¼" diam.	1¼"	Flush	3⅛"	2⅞"	Molded
524	534	TALOS	TUTOR	4⅜" diam.	4¾" diam.	1⅝"	Projection	3⅛"	2⅞"	Molded
TWIN	TWIN	(See page F-6)		1⅞"X2⅞"	5¼"X3⅝"	1⅜"	Flush			

Molded cases furnished unless metal specified, except Models 223, 233, 323, 333, 334, 325, 335, 328 and 338. Metal cases—Code—METAL

D. C. VOLTMETERS—125 OHMS PER VOLT

Range	Code	Models 221-223	Model 321	Model 324	Model 326	Model 421	Model 521	Model 524
0-5	TRCXC	$ 4.50	$ 5.75	$ 5.75		$ 7.50	$ 8.25	$ 8.25
0-10	TRDWD	4.50	5.75	5.75	$ 5.75	7.50	8.25	8.25
0-15	TREVE	4.50	5.75	5.75				
0-25	TRFUF	4.50	5.75	5.75		7.50	8.25	8.25
0-50	TRGTG	4.50	5.75	5.75		7.50	10.00	10.00
0-100	TRHSH	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-150	TRIRI	4.50	5.75	5.75	8.25	9.75	12.00	12.00
0-300	TRLOL	6.50	8.25	8.25		11.00		
0-500	TRMNM	7.75	9.25	9.25		19.25		20.00
0-2,000	TRPKP	16.00	17.50	17.50				

D. C. VOLTMETERS—1000 OHMS PER VOLT

Range	Code	Models 221-223	Model 321	Model 324	Model 326	Model 421	Model 521	Model 524
0-10	TAIGA	$ 6.50	$ 8.25	$ 8.25	8.25	9.75	11.75	11.75
0-150	TAINE	7.75	8.75	8.75	8.75	10.00	12.75	12.75
0-300	TRULL	8.75	10.00	10.00	10.00	11.50	14.25	14.25
0-500	TUBAL	10.00	11.00	11.00		12.75		
0-1,000	TURIN	14.25	16.00	16.00		18.50		

D. C. MILLIAMMETERS

Range	Approx. Res.	Code	Models 221-223	Model 321	Model 324	Model 326	Model 421	Model 521	Model 524
0-1	33	TRAAN	$ 5.75	$ 7.00	$ 7.00	$ 7.00	$ 9.00	$10.00	$10.00
0-15	2	TRFFS	4.50	5.75	5.75				
0-25	1.2	TRGGT	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-50	.6	TRHHU	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-100	.3	TRJJW	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-150	.23	TRKKX	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-200	.15	TRLLY	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-250	.12	TRMMZ	4.50	5.75	5.75	5.75	7.50		
0-300	.1	TRNNA	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-500	.06	TROOB							

D. C. MICROAMMETERS

Range	Approx. Res.	Code	Models 221-223	Model 321	Model 324	Model 326	Model 421	Model 521	Model 524
0-200	360	TARDY	$10.50	$12.00	$12.00	$12.00	$14.00	$17.25	$17.25
0-500	156	TWIRL	7.75	9.25	9.25	9.25	10.75	12.75	12.75

D. C. AMMETERS

Range	Approx. Res.	Code	Models 221-223	Model 321	Model 324	Model 326	Model 421	Model 521	Model 524
0-1	.05	TALUS	$ 4.50	$ 5.75	$ 5.75		$ 7.50	$ 8.25	$ 8.25
0-10	.005	TROCK	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-25	.002	TANGS	4.50	5.75	5.75	5.75	7.50	8.25	8.25
30-0-30	.0016	TAPIR	4.50	5.75	5.75				

A. C. VOLTMETERS

Range	Approx. Ohms per V.	Code	Models 231-233	Model 331	Model 334	Model 336	Model 431	Model 531	Model 534
0-5	10.7	TERSE	$ 4.50	$ 5.75	$ 5.75	5.75	7.50	8.25	8.25
0-10	16	TRUMP	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-15	16	TURCO	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-150	110	TOYTE	5.75	7.00	7.00	7.00	9.00	10.00	10.00
0-300	166	TWEAK	7.25	8.25	8.25	8.25	9.75	15.75	15.75

A. C. AMMETERS

Range	Approx. Res.	Code	Models 231-233	Model 331	Model 334	Model 336	Model 431	Model 531	Model 534
0-3	.02	TULIP	$ 4.50	$ 5.75	$ 5.75		7.50	8.25	8.25
0-5	.01	TEUCH	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-10	.005	TEHEE	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-25	.001	TELEO	5.75	7.00	7.00	7.00	9.00	10.00	10.00

A. C. MILLIAMMETERS

Range	Approx. Res.	Code	Models 231-233	Model 331	Model 334	Model 336	Model 431	Model 531	Model 534
0-10	1950	TEETH	$ 4.50	$ 5.75	$ 5.75		$ 9.00	$10.00	$10.00
0-15	1125	TOUSY	4.50	5.75	5.75				
0-50	85	TEMPT	4.50	5.75	5.75		7.50	8.25	8.25
0-100	23	THARM	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-250	4	THEEK	4.50	5.75	5.75	5.75	7.50	8.25	8.25
0-500	.8	THEOS	4.50	5.75	5.75	5.75			

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Measuring TRIPLETT Instruments

POCKET VOLT-OHM-MILLIAMMETER



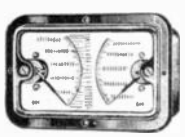
Model 666

An actual pocket-size Volt-Ohm-Milliammeter in black molded case with A.C. and D.C. voltage ranges, D.C. milliamperes range and a selector switch for all instrument readings. Has low and high ohms scales for testing resistances. . . . Small enough to be carried conveniently in the coat pocket yet has all the advantages of larger multimeters. Provides measurements for every requirement of the serviceman—in the home or shop. Also an indispensable extra-utility instrument for laboratory experimenters, radio amateurs and manufacturers. . . . Scale length corresponds in size to that of Triplett three inch instrument. Ranges: D.C. 10-50-250-500-1000 volts at 1000 ohms per volt; 1-10-50-250 M.A.; A.C.. 10-50-250 500-1000 volts at 1000 ohms per volt; Low ohms ½ to 300; High ohms to 250,000. Provisions for external batteries for higher resistance measurements. Sturdy black molded case, 3⅛x5⅝x2⅛ in. high. Panel is modernistic silver and black. Battery and test leads with alligator clips included. Shipping wt., 4 lbs.

Code—TRYMA

Model 666 ..... **List Price $22.50**

TWIN INSTRUMENTS



THE TWIN is furnished in any combination of A. C. or D. C. instruments. Both are included in the special rectangular molded case that requires a minimum of space. Permits simultaneous readings on both instruments when connected in the same or separate circuits. Instrument scales are side by side making possible two distinct readings at a glance. Used to balance loads in three-wire circuits; detect line fluctuations when load readings are taken; measure antenna and modulation current; determine filament and plate voltages and similar applications.

To determine List Price of Twin Instruments take the sum total list price of both instruments as supplied in Models 321 or 331.

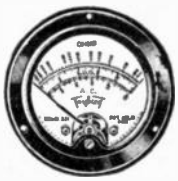
MODEL 1200-A KIT

Enables the engineer to build his own Volt-Ohm-Milliammeter. Has No. 120 Triplett Twin Instrument with scale reading: D.C. 10-50-250-500-1000 volts at 2000 ohms per volt; 1-10-50-250 milliamperes; ½ to 500 low ohms by back up circuit; 1500 ohms; 1.5 and 3 megohms. A.C. 10-50-250-500-1000 volts. Also included in the kit are mounted resistors and shunts for the above readings; No. 121 Special Triplett Selector Switch; No. 124 .5 MFD Condenser for output measurements; No. 125 Rheostat Assembly; Complete set of diagrams and instructions; Hook-up wire; Complete set of hardware; Marked panel plate; Test leads.

Model 1200-A Kit—Complete. Code: TRIPS. **List Price $25.00**

No. 120 Twin Instrument only (for above kit.) ..... **List Price $15.50**

UNIVERSAL A.C.-D.C. METER
(COPPER-OXIDE TYPE)



D. C. 2% Accuracy. A. C. 5% Accuracy. The A.C. scale has 75 divisions marked 0-15 in red. The D. C. scale is similar but printed in black. The ohm scale reads 0-1500 in black and 0-1.5 megohms in red. With multipliers, scale readings are 15-150-750 volts, A. C. or D. C. at 1000 ohms per volt resistance. D. C. Milliampere readings are 15-150. The copper-oxide unit is employed in what is regarded as the most advanced circuit, minimizing losses in rectification. This unit with a D. P. D. T. toggle switch for A. C. or D. C. is housed with shunts for the 0-.4 milliam meter in a separate case suitable for panel mounting and having four connections, 2 each for A. C. and D. C. A 12" lead connects to meter.

Universal Model 321 Meter (0-.4 M. A.) with copper-oxide unit and switch complete. Code—TRIOS. **List Price $15.00**

Model 1127 Kit consisting of mounted resistors and shunts for all above readings, selector switch, rheostat, jacks, panel, bar knobs, batteries—22.5 and 1.5 v. and hook-up wire, complete less meter.

Model 1127 Kit. Code—TRUNK. **List Price $20.00**

C-4—Copper-oxide Rectifier (full-wave). Code—TAKER **List Price $ 4.00**

B-2—Copper-oxide Rectifier (half-wave). Code—TIMON **List Price $ 2.00**

VOLT-OHM-MILLIAMMETERS

The Following Three Instruments are 0-1 Milliammeters With 100 Ohms Internal Resistance, Equipped with Knife-edge Pointers

Model 321—(Scale for reading, 30-300 600 volts, 30-300 milliamperes, 100,000 ohms). Shpg wt. 3 lbs.
Code—TRIES. **List Price $ 7.50**

Model 321—(Scale reads 10-50-250-500 volts, 10-50-250 milliamperes, 100,000 ohms). Shpg. wt. 3 lbs.
Code—TABOR. **List Price $ 7.50**

Model 521—(Scale reads 10-50-250-500 volts, 10-50-250 milliamperes, 100,000 ohms). Shpg. wt. 5 lbs.
Code—TRILL. **List Price $10.50**

(Wiring diagrams furnished with each instrument)

SHUNTS AND RESISTORS FOR ABOVE THREE INSTRUMENTS

No. 30—Resistors mounted on Bakelite for 30-300-600 volts.
Code—TRICK. **List Price $7.25**

No. 31—Shunts mounted on Bakelite for 30-300 milliamperes.
Code—TRULY. **List Price $2.00**

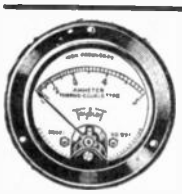
No. 64—Current Limiting Resistor for 100,000 ohms.
Code—TRGGU. **List Price $1.00**

No. 10—Resistors mounted on Bakelite for 10-50-250-500 volts.
Code—TRIST. **List Price $7.50**

No. 11—Shunts mounted on Bakelite for 10-50-250 milliamperes.
Code—TRIGG. **List Price $2.75**

No. 12—Current Limiting Resistor for 100,000 ohms.
Code—TRIPP. **List Price $1.00**

THERMO AMMETERS ‡ High Frequency. Accuracy 2%



Triplett Thermo Ammeters are supplied in Models 241, 341, 346, 441 and 541. These models correspond in size, etc., to corresponding D.C. models. All have molded cases. Have external couples which withstand 50% overload connected to meter with 2 ft. leads. Couples are easily replaced when necessary.

‡Write for special discounts—regular Triplett discounts do not apply to Thermo Ammeters.

Eternal Couples only, for any Model. List Price ..... $ 6.40

Range	Approx. Res.	Model 241 Code	List	Model 341 Code	List	Model 346 Code	List	Model 441 Code	List	Model 541 Code	List
0-1 Amps.	.35	TORUS	$14.50	TONGA	$16.00	TRUST	$16.00	TUBER	$21.00	TACHE	$21.00
0-1.5 Amps.	.21	TITHE	14.50	TIZZA	16.00	.....	.....	TONIC	21.00	TOTAL	21.00
0-2.5 Amps.	.13	TODDY	14.50	TESTA	16.00	TWILL	16.00	TONUS	21.00	THANK	21.00
0-5 Amps.	.06	TOLYL	14.50	TOUGH	16.00	TWIST	16.00	THEOR	21.00	TOUCH	21.00

OUTPUT METER



The Triplett Output Meter has 3 ranges—2.5-5-50 volts. Copper-oxide rectifier type. Contain condenser for blocking the D. C. component. Four marked binding posts or pin jacks and meter are mounted on substantial molded base. Test leads with clips and break-in adapter furnished. Shipping Wt. 31 lbs.

With Tip Jacks.
Code—TRALL. **List Price $16.75**

With Binding Posts.
Code—TREEK. **List Price $16.75**

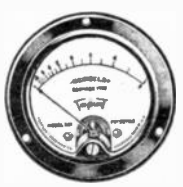
SENSITIVE RELAYS

Highly sensitive Triplett relays are of the D'Arsonval Moving Coil type, carefully designed to give dependable, satisfactory performance. Fixed contacts of instruments are set in adjustable screws, allowing a wide adjustment of upper and lower limits of contact. Contacts furnished are Hardy metal; also platinum, silver, and platinum-iridium are supplied according to applied current and voltages. These relays are generally used in connection with polarized relays when current draw exceeds 50 M.A. Magnetic clutch type with manual release can also be had.

Since relays cover such a wide field and most of them are made to special order, no standard models are listed. Each application should be accompanied with information specifying maximum and minimum currents and voltages which will pass through relay coil and contact points. All data should be included before prices can be quoted. Relays are usually furnished in Model 325 Portable cases but can be had in other case mountings. Connections can be attached to suit.

CODE—TRYKE

POWER LEVEL INDICATORS



Used to measure sound or noise levels in amplifiers for Public Address, Theaters, Broadcasting Studios, Broadcasting Station Equipment, etc. The Decibel Meter permits the operator to make instant adjustments to prevent sound blasting or distortion. Furnished in two ways—either standard or highly damped. Standard range furnished reads up 6 and down 10 decibels, zero decibel at 1.73 volts, 500 ohm lines, 6 milliwatts. Standard damping furnished, unless highly damped is specified. Other ranges to order only.

Model 321—Up 6 down 10 Decibel Meter. Code—TAINT. **List Price $18.00**

Model 221—Up 6 down 10 Decibel Meter. Code—THUMB. **List Price $16.50**

DECIBEL METERS AND KITS

Kits are now available to increase range of Power Level Indicators. Readings advance in steps of 4 decibels up to 22 decibels.

Easily assembled Triplett Decibel Meter Kit are supplied for either constant or non-constant impedance, 500 ohm input line.

Model 150 Decibel Meter Kit—(Non-constant Impedance)—includes: Triplett Model 321 Decibel Meter, Selector Switch, 9 Wire-wound Multipliers on Bakelite Mounting Board, Hook-up Wire, Diagrams and Instructions. Code—TILTH. **List Price $30.00**

Model 200 Decibel Meter Kit—Constant Impedance (includes—same parts as Model 150 Kit, except it has Model 321 Constant Impedance Meter.) Meter has four studs allowing movement to be shunted without altering impedance over 50 ohms. Code—TIMOD. **List Price $32.75**

We also distribute a complete line of TRIPLETT Multipliers, Shunts, Ring Shunt Assemblies, Multi-Deck Selector Switches and Bar Knobs.

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Radio RANGER EXAMINER Instruments

RANGER COMBINATIONS

FREE POINT TESTER AND MULTIMETER



Model 640-740

Combination Volt-Ohm-Milliammeter and Free Point Tester; adaptable for every purpose in voltage, current or resistance testing, by the free point direct contact and the plug-in methods.

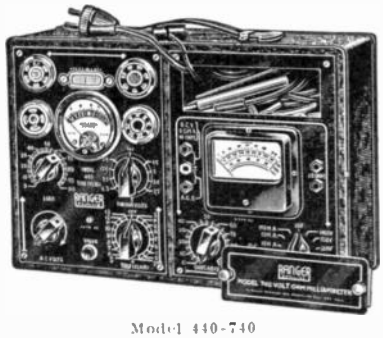
The 740 Volt-Ohm-Milliammeter unit has a Triplett precision instrument. Scale readings: 10-50-250-500-1000 A.C. and D.C. volts. Rheostat adjustment will take care of 15 volts for ohms readings up to 2.5 **megohms.** Batteries may be added, permitting readings in 250,000 ohms steps. Low ohms reads to ½ ohms, the 25 ohms portion being in center of scale. 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 same as model described opposite. **Code RENAN**

Model 640-740 ..... **List Price $45.00**
U.S.A. Dealer's Net Price **27.00**



Model 440-540



Model 440-740

SIGNAL GENERATOR AND MULTIMETER



Model 540-740

With the 740 Volt-Ohm-Milliammeter the serviceman can locate most of the troubles common to radio receivers. This unit is the same as Model 740 described opposite, with Triplet precision instrument.

The 540 Direct Reading Signal Generator has plug-in type coils. Five frequency bands from 110 to 20,000 Kc., all fundamentals. Guaranteed accuracy is 1% from 110 to 3000 Kc.; 2% for higher frequencies.

Completely shielded for static and magnetic fields. Strong signals, both modulated and unmodulated, are furnished. Sturdy metal case with built-in compartments, snap-on covers, for accessories. Electro black baked enamel finish, silver and black panels—size 11-7/16" x 7⅜" x 4⅛". All batteries and two type 30 tubes included with necessary accessories.

Code RECTO

Model 540-740 ..... **List Price $60.00**
U.S.A. Dealer's Net Price..... **$36.00**

MODEL 440-540 TUBE TESTER AND DIRECT READING SIGNAL GENERATOR

Another of the popular Ranger-Examiner Combination instruments adaptable for either the laboratory work bench or portable field servicing.

Model 440 is a quality tube tester of advanced design and is engineered to test any type tube speedily and accurately. Condition of tubes under test are noted on direct reading GOOD-BAD scale of the Model 221 Triplett precision instrument. Proper load values are applied to tubes being checked. Four flush mounted sockets provide for all glass, metal-glass or metal 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 is connected to power supply. The tester circuit is designed to indicate all inter element shorts and leakages. Up-to-date tube charts furnished as new tubes are available.

Model 540 is a direct reading R.C. Signal Generator with plug-in type coils, the same as described above. Each coil is individually calibrated by an exclusive method of peaking, with trimmer condensers built as an integral part of the coil. **Completely shielded.** Attenuation and stability are outstanding features.

Model 440-540 Combination..... ..... **List Price $56.00**
U.S.A. Dealer's Net Price... .... **33.60**

Consisting of Model 440 Quality Tube Tester and Model 740 Volt-Ohm-Milliammeter.

Model 440-740 Combination ..... **List Price $62.50**
U.S.A. Dealer's Net Price **37.50**

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 all essential requirements of the serviceman on home calls and is suitable for extra utility use in the shop and laboratory.

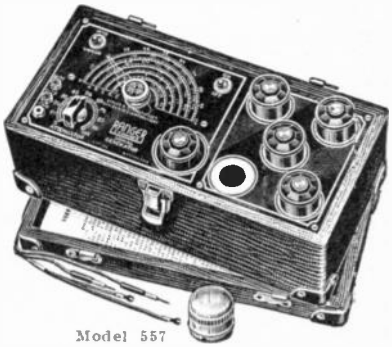
Ranges are 15-150-750 volts; 1.5-15-150 M.A.; ½-1,000 low ohms; 0-100,000 high ohms at 1.5 volts. External batteries may be used for higher resistance measurements.

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, 3-1/16" x 5¾" x 2¼" high. Attractive silver and black panel. Battery and test leads with alligator clips are included. Approximate shipping weight, 3 pounds, 4 ounces. **Code REGAL**

Model 735 ..... **List Price $18.00**
U.S.A. Dealer's Net Price **10.80**

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 12" x 6½" x 5¾". Approximate shipping weight 12 pounds. **Code RAGEE**

Model 557 ..... **List Price $30.00**
U.S.A. Dealer's 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. Code—RADIO. Shipping weight 12 pounds.

Model 554-A ..... **List Price $24.00**
U.S.A. Dealer's Net Price **14.40**

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Readrite TEST INSTRUMENTS Readrite EQUIPMENT

DIRECT READING TUBE TESTER



Model 430

An up-to-the-minute 1937 tube tester, 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. 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 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. Shipping weight 10 pounds.

Code: REPLY

Model 430 — **List Price $30.00**
U.S.A. Dealer's Net Price — **18.00**

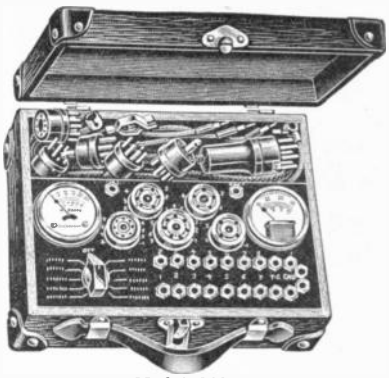
Model 431 — **List Price $24.00**
U.S.A. Dealer's Net Price — **14.40**

Same as Model 430, but with Readrite meter having GOOD-BAD Direct Reading Scale. Shipping weight 10 pounds. **Code RENEW**

MODEL 430 FEATURES

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.
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.

POINT-TO-POINT TESTERS



Model 720-A

Designed for speedy and efficient servicing. Equipped to handle sets using glass or glass-metal tubes. Measures resistance, capacity and continuity; checks voltage of any tube circuit. Has two meters—D.C. scale reading 15-150-300-600 volts, 15-150 milliamperes; A.C. scale reading 10-25-150 and 750 volts. Complete set of instructions, charts and accessories; black leatherette covered case which measures 11" x 8" x 4¾" when closed. Shipping weight 10 pounds. **Code: READY**

Model 720-A ..... **List Price $25.00**
U.S.A. Dealer's Net Price **15.00**

Model 730-A ..... **List Price $31.00**
U.S.A. Dealer's Net Price **18.60**

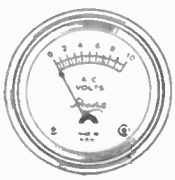
Similar to 720-A, but has three meters. Shipping weight 10 pounds. **Code: ROBOT**

Model 710-A ..... **List Price $27.50**
Dealer's Net Price **16.50**

Same as 720-A, but has Triplett 223 D.C. voltmeter with scale reading 15-150-300-600 volts at 1000 ohms per volt. Shipping weight 11 pounds. **Code: REIGN**

Model 712-A ..... **List Price $37.00**
Dealer's Net Price **22.20**

Same as 710-A, but has Triplett 1000 ohm per volt D.C. voltmeter; scale 15-60-300-600. Shipping wt., 11 pounds. **Code: REMIT**



Model 55



Model 65

Readrite PANEL METERS



Model 75



Model 85

READRITE instruments are economical, ruggedly constructed, and dependably accurate. D.C. are the polarized vane, solenoid type. A.C. are double vane repulsion type. Easy reading black lithographed on white, metal plates. Model 55, flush mounted clamp-on type, requires a 2-5/64" hole; has narrow rim and is furnished in full nickel; this model will be furnished unless other types are specified. No. 65-A flange ring is used to convert Model 55 into Model 65 wide flange type (Dealer's net price $0.09).

Range	Code	List Price	Dealer's Net
D. C. VOLTMETERS			
0-1	Royal	$1.00	$0.60
0-3	Ridge	1.00	.60
0-5	Rive	1.00	.60
0-6	Rite	1.00	.60
0-8	Road	1.00	.60
0-10	Roam	1.00	.60
0-15	Roar	1.00	.60
0-50	Rod	1.00	.60
0-100	Roil	1.50	.90
0-150	Roll	1.75	1.05
0-150	Romp	3.25	1.95
0-300	Rood	3.25	1.95
0-500	Roof	4.50	2.70
0-60-300	Rook	4.50	2.70
D. C. AMMETERS			
0-1	Repel	$1.00	$0.60
0-5	Rot	1.00	.60
0-10	Rote	1.00	.60
0-25	Ridd	1.50	.90
0-50	Rokk	2.00	1.20
20-0-20	Rud	1.00	.60
30-0-30	Ryky	1.50	.90

Range	Code	List Price	Dealer's Net
D. C. MILLIAMMETERS			
0-5	Ratio	$2.25	$1.35
0-10	Rue	2.00	1.20
0-15	Ruff	1.00	.60
0-25	Rug	1.00	.60
0-50	Razor	1.00	.60
0-100	Rump	1.00	.60
0-150	Run	1.00	.60
0-200	Rung	1.00	.60
0-300	Runt	1.00	.60
0-400	Ruse	1.00	.60
0-20-100	Raven	2.00	1.20
0-15-150	Rebel	2.00	1.20
A. C. MILLIAMMETERS			
0-25	Raff	$2.75	$1.65
0-50	Rum	2.75	1.65
0-100	Rome	2.75	1.65
0-250	Rong	2.75	1.65
0-500	Roost	2.75	1.65
D. C. POCKET TYPE			
40 Amp.	Rise	$1.00	$0.60
50 Volts	Risk	1.00	.60
40 A.—50 V.	Rustle	1.50	.90

Range	Code	List Price	Dealer's Net
A. C. VOLTMETERS			
0-6	Rale	$2.75	$1.65
0-10	Ram	2.75	1.65
0-15	Ramp	2.75	1.65
0-150	Rath	4.50	2.70
0-300	Rase	5.50	3.30
0-750	Reck	7.75	4.65
0-10-140	Rural	4.50	2.70
A. C. AMMETERS			
0-1	Rant	$2.75	$1.65
0-3	Ritz	2.75	1.65
0-5	Route	2.75	1.65
0-10	Rast	2.75	1.65
0-50	Rouge	3.25	1.95

SELECTOR SWITCHES

Six Double Pole Positions. List Price $1.25. Net Price **$0.75**
Code: RACED

Single Pole, 13 Positions. List Price $1.25. Net Price **$0.75**
Code: RALLS

Double Pole, 12 Positions. List Price $1.75 Net Price **$1.05**
Code: RADDS

We also distribute the complete line of READRITE Selector Switches, Bar Knobs, Precision Resistors and Multipliers, Ohmmeters, Resistance Meters, Induction Ammeters, Air-Cell Testers and TUNING METERS.

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JACKSON

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" wide—38" 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.

FULL SPECIFICATIONS

COMPLETE CATHODE RAY OSCILLOGRAPH is identical with the Jackson Model 520 Oscillograph. This instrument is equipped with complete horizontal amplifier and complete vertical amplifier. The oscillograph is provided for portable use should the necessity arise to remove it from the laboratory.

Sensitivity—The maximum input sensitivity to both horizontal and vertical plates is .75 volts R.M.S. per inch of deflection. This exceptional sensitivity is secured by means of high gain amplifiers having flat response characteristics up to 100 kilocycles. **HORIZONTAL SWEEP**—A horizontal time axis "saw-tooth" oscillator provides a frequency from 10 to 20,000 cycles. Frequencies up to 100,000 cycles may readily be inspected, resulting in a five-pattern image. Timing switch is marked directly in frequency.

Calibrated Screen—A special calibrated screen is furnished. This screen is marked directly in kilocycles band width and is invaluable in all work which requires visual resonance curves. The Model 520 is complete with one 906 Cathode Ray Tube, two type 57, one type 885, one type 879 and one type 80.

FREQUENCY MODULATED TEST OSCILLATOR—This unit is basically a high grade test signal generator with a built-in "Frequency Modulator." Frequency sweep is **constant band width** at all frequencies. **FREQUENCY RANGE** is 100 kilocycles to 70 megacycles—all direct reading.

Large Glass Enclosed Scale—Total effective scale length is 72 inches. Knife edged pointer is attached directly to condenser shaft. Condenser drive is slow motion type.

SIGNAL OUTPUT—Either 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.

Frequency Modulation—For securing visual resonance curves in connection with a standard oscillograph. The frequency modulation is accomplished by the electronic method and 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.

DYNAMIC OUTPUT 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. Test each diode plate separately—also both sections of dual class B tubes and both plates of all rectifiers. Special tests for pentagrid converter types. **SHORTS LEAKAGE TESTS**—All tests made with tube heated in operating condition. This assures indication of Cathode-heater leakage if present. The shorts indicator is a large size neon lamp and the shorts system is properly sensitive for modern tubes.

COMPLETE SET TESTER AND UNIVERSAL RANGE METER— This unit is provided with an extra large 5½" meter which has a direct reading tube test scale. In addition there are other scales for A.C. and D.C. volts, megohms, low resistance, microfarads and decibels. All meter ranges are selected by means of a special 18-position switch. This method assures rapid adjustment of the instrument to the desired range.

Meter Ranges—D.C. Volts—0—7.5/75/150/300/750/1500. D.C. Milliamperes—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.

Circuit Analysis—In addition to point to point tests, the Model 580 may be used for socket analysis of any radio receiver. The instrument has a complete set of sockets and "cut-in" jacks for this purpose. These jacks are numbered to standard R.M.A. tube base pins. A standard 8-wire analysis cable plug and adapter kit is furnished for connection to the radio receiver. **CONSTRUCTION**—Main panel is one piece cast aluminum 19 inches long, 10½ inches wide. Control panels are etched metal having a white background and black characters.

The Model 500 is a modern, accurate and complete instrument assembly. All units are installed on a standard 20-inch relay rack. Every conceivable receiver alignment and test operation may be performed. Also, the Type 500 is especially versatile since individual units may be removed from the rack if desired.

THE "SERVICE-LAB" is unquestionably the finest complete equipment installation ever offered at the amazingly low price of $199.50. A careful examination of the specifications and the illustration will reveal many superior and valuable features.

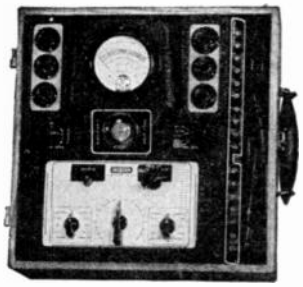
Model 500 Complete "Service-Lab" (Net to Dealer) **$199.50**

NET

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JACKSON RADIO TEST INSTRUMENTS

JACKSON "DYNAMIC OUTPUT" TUBE TESTERS



Cast Aluminum Panel—Etched metal control plates—solid oak case dimensions 12¾"x 13¼"x 6" overall. Weight, 13 lbs.

MODEL 535 FEATURES

1. Dynamic Output Test—the most perfect method devised for accurate determination of tube condition.
2. Tests ALL tubes announced up to date. 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.

COUNTER STYLE in Attractive Metal Case Model 535-C

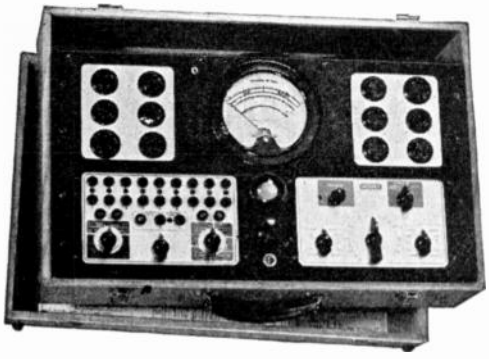


MAKES A COMPLETE, ACCURATE test on EVERY tube. Tests over 200 different types, including the new metal and metal-glass octal base tubes. Tests each diode plate separately, also both sections of Dual Class B tubes and both plates of all rectifiers. Special tests for Pentagrid Converter types.

DIRECT READING METER RANGES—VOLTS, OHMS, MILLIAMPERES. D.C. Volts—0–7.5, 0–75, 0–150, 0–300, 0–750, 0–1500. Milliamperes—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.

MODEL 535 PORTABLE TESTER—NET PRICE..... $39.50

Model 535-C Counter style—Net Price..... $43.50



MODEL 580 DYNAMIC ANALYZER

The Model 580 is a complete "Dynamic Output" tube tester which also includes full provision for radio set testing. It is provided with an extra large 5½ inch meter which has a direct reading tube test scale. In addition there are other scales for A.C. and D.C. volts, megohms, low resistance, microfarads and decibels. All meter ranges are selected by means of a special 18-position switch. This method assures rapid adjustment of the instrument to the desired range.

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.

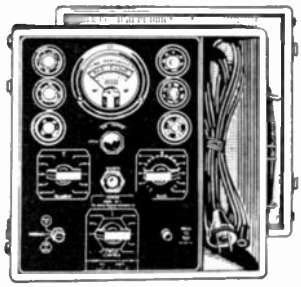
METER RANGES—D.C. Volts—0–7.5/75/150/300/750/1500. D.C. Milliamperes—0–7.5/75/150. A.C. Volts—0–15/150/1500. Ohms—0–100/100,000/1 meg/10 meg. Microfarads—.001 to .15/.01—1.5/1.–15. Decibels— —10 to +18. All ranges are direct reading and any desired range can be instantly selected by the "Meter Selector" switch.

CIRCUIT ANALYSIS—In addition to point to point tests, the Model 580 may be used for socket analysis of any radio receiver. The instrument has a complete set of sockets and "cut-in" jacks for this purpose. These jacks are numbered to standard R.M.A. tube base pins. A standard 8-wire analysis cable plug and associated adapters may be used to connect to the radio receiver. This plug and adapter set is **not** furnished with the instrument.

CONSTRUCTION—Main panel is one piece cast aluminum 19 inches long, 10½ inches wide. Control panels are etched metal having a white background and black characters. Case is genuine oak, measuring 19¾ inches by 13¼ inches by 6 inches.

PRICE Model 580 (less 8-wire cord and plug) (Net to dealer).....$59.50

MODEL 427-A TESTER NET.... $29.50



SPECIFICATIONS

DIRECT READING METER with colored dial. Meter is 3¼".

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 11"x 11"x5". Weight 9 lbs.

Model 427-A—Tube Tester—Net Price.....$29.50

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JACKSON
RADIO TEST INSTRUMENTS

MODEL 520 CATHODE RAY OSCILLOGRAPH

The Jackson Oscillograph incorporates every valuable feature necessary for visual voltage and current examination. It is easy to operate and is designed to secure stability. The illustration indicates the control arrangement.

The control panels are separated into three distinct functions. First, the vertical amplifier control (upper left panel); second, the horizontal amplifier control (upper right panel); third, the linear timing control panel. This design is a very important step in simplifying the use of the instrument.



CALIBRATED SCREEN—The shield hood is recessed to accommodate a special calibrated screen which is furnished with the instrument. This screen is marked directly in kilocycles band width and is invaluable in all work which requires visual resonance curves.

The Model 520 is provided with a cast aluminum main panel and a protection hood for viewing the trace on the screen. All controls are mounted on the main panel and adjustments are clearly indicated.

SPECIFICATIONS

SENSITIVITY—The maximum input sensitivity to both horizontal and vertical plates is .75 volts R.M.S. per inch of deflection. This sensitivity is secured by means of high gain amplifiers having flat response characteristics up to 100 kilocycles.

HORIZONTAL SWEEP—A horizontal time axis "saw-tooth" oscillator provides a frequency from 10 to 20,000 cycles. Frequencies up to 100,000 cycles may readily be inspected, resulting in a five-pattern image. Timing frequency range switch is marked directly in frequency. This feature greatly simplifies the selection of a desired frequency range.

CONSTRUCTION—The main panel and tube hood are cast aluminum. The entire cabinet is heavy gauge welded steel construction. The instrument is attractively finished in black morocco, oven-baked enamel. The control plates are etched metal with white background and black characters. The very finest of materials and construction are employed throughout.

POWER SUPPLY & TUBES—Operates from a 110-volt, 50–60 cycle power supply. The Model 520 is supplied complete with one 906 Cathode Ray Tube, two type 57, one type 885, one type 879 and one type 80. Dimensions are 10¼ x 9¼ x 18¼ inches overall. Net weight 30 pounds.

PRICE (Net to dealer) Model 520 Oscillograph **$79.50**

PRICE (Net to dealer) Model 520 Oscillograph (without tubes) **$54.50**



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 inches. 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—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—11½" x 8¼" x 4¾".

PRICE Complete with all metal tubes and accessories (Net to dealer) **$56.25**

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Net

JACKSON
RADIO TEST INSTRUMENTS

TEST SIGNAL GENERATOR (A. C. Operated) MODEL 441-A

Specifications



A modern, high speed instrument for all receiver alignments, A.F. tests, etc. Excellent for use with Oscillograph equipment. Full sized—carefully engineered—guaranteed accuracy.

Cast aluminum case 11½" x 8¼" x 4¾".

FREQUENCY RANGE—100 kilocycles to 70 megacycles—all direct reading. No skip bands. Six FUNDAMENTAL FREQUENCY bands cover the range from 100 Kc. to 36 Mc., providing for all present day needs. A seventh range extending to 70 Mc. (5 meter band) provides for possible future short wave developments.

SIGNAL OUTPUT—Either modulated or unmodulated. Minimum output is less than ¼ micro-volt. Maximum signal is sufficient for any receiver. Two circuit attenuator provides variable ratio and also vernier control.

MODULATION—Contains separate A.F. modulator circuit (400 cps). Carrier modulated approximately 30%. The A.F. voltage is available for use in amplifier tests, bridge measurements, etc.

CLEAR STEADY SIGNAL—No "fuzzy" or "fade-out" effects.

OSCILLOGRAPH FREQUENCY MODULATOR attachment of any type may be connected to special jack provided in the instrument.

LARGE GLASS ENCLOSED SCALE—Calibrated arcs are drawn on 9-inch diameter (max.). Total effective scale length is 72 inches. Knife edged pointer is attached directly to condenser shaft. Condenser drive is slow motion planetary type.

SHIELDING—Case is one piece cast aluminum—important circuits are isolated by excellent mechanical construction. All control shafts are at ground potential.

GUARANTEED ACCURACY—½ of 1% from 100 to 2000 Kc. 1% from 2 to 15 Mc. 2% from 15 to 70 Mc.

INSTRUCTION BOOK FURNISHED is a complete handbook fully describing various uses of the instrument. Also contains a list of I.F. peak frequencies used in over 2000 models of radio receivers.

PRICE Complete with tubes (110-V-60 cycles) Model No. 441-A **$32.30**

BATTERY OPERATED TYPE (MODEL 441-B)

Model 441-B is identical in every respect with Model 441-A described above, except that it is operated by battery power. Space is provided within the instrument to accommodate two small 22½-volt and one 4½-volt batteries. This instrument is completely self-contained and is ideal for auto radio servicing, rural districts and other areas where no A.C. line power is convenient.

NET PRICE (Complete with tubes and instructions) **$31.00**

NEW UNIVERSAL RANGE - - D. C. MULTI-METER



- D.C. VOLTS—0-5/0-50/0-500/0-1000
- 1000 ohms per Volt.
- OHMS—Two Scales—½ 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 2¾" 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, 5" x 3" x2" 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.

MODEL No. 412

Dealer's Net Price **Only . . . $9.85**

NET

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PRECISION INSTRUMENTS

CLOUGH-BRENGLE

1937 Super-Service Line

MODEL 99 R. F. Signal Generator



OUTPUT CALIBRATED DIRECTLY IN MICROVOLTS

•

VARIABLE PERCENTAGE OF MODULATION

•

100 K.C. TO 60 M.C. ON FUNDAMENTALS

•

DIRECT READING FREQUENCY CALIBRATION

•

FREQUENCY GUARANTEED TO ½ OF 1%

The new **MODEL 99** is the first r.f. signal generator to offer an output accurately calibrated in microvolts, at a cost of less than several hundred dollars.

Now, you can quickly check receiver sensitivity and gain with precision heretofore possible only in a few engineering laboratories. The introduction of this much needed instrument will cause an immediate change in receiver servicing methods, and marks an important forward step in servicing accuracy.

Through a combination of important new oscillating circuit design improvements, that accomplish uniform voltage output over wide frequency ranges, and a new straight line attenuator—it is possible to offer direct calibration of the r.f. output in microvolts.

In addition to this revolutionary improvement, the MODEL 99 offers countless other exclusive features, such as: Percentage of modulation adjustable from 0 to 75%; Hand calibrated reading dial and an accuracy of ½ of 1% at any test frequency from 100 kc. to 60 mc.; A total of one hundred and fifty inches of dial length; The "Roto-Inductor" coil assembly which eliminates wave change switches and the associated losses; and instant adaptability to Cathode-Ray visual alignment by means of the C-B Model 81-A Frequency Modulator.

Furnished complete for operation from 110-volt 50-60 cycle line, with all metal tubes and six hand drawn calibration curves.

MODEL 99

Calibrated R.F. Output Signal Generator, Net Cash

$43.90

(Only $5.00 down and ten monthly payments of $4.44)

Model 99-R, Rack Style, Net Cash $49.30

Improved MODEL OC R. F. Signal Generator



NEW LOW PRICE

•

Wide Frequency Range 100 K.C. to 30 M.C.

•

Accuracy Guaranteed to ½ of 1%

•

Each Instrument Crystal Calibrated

•

Battery and Line Operated Models Available

C-B leads the way to bigger values with this new 1937 instrument! More features, improved performances—yet the price is drastically lowered because of the tremendous sales record this instrument has made.

Some of its outstanding features are: All-wave, continuously variable on fundamentals from 100 kc. to 30 mc. and to 60 mc. on calibrated second harmonic; Accuracy guaranteed to ½ of 1% at every frequency; Twenty-five inch R.F. tuning dial per band for greater ease and accuracy of setting; Modulated, Unmodulated R.F. and 400 cycle sine-wave audio outputs; All metal audio and radio frequency oscillator tubes; Improved dual attenuator with smooth stepless control to less than ½ microvolt.

Adaptable to Cathode-Ray visual alignment without alterations by use in conjunction with the Model 81-A "Inductor-Sweep" Frequency Modulator.

MODEL OC-A

R.F. Signal Generator for operation from 110 volt 50-60 cycle line, complete with tubes and hand drawn calibration curves, net cash.

$29.95

(Only $4.50 Down and Seven Monthly Payments of $4.20)

MODEL OC-B

Identical to above, for operation from 110 volt line, direct current or any frequency, net cash.

$29.95

(Only $4.50 Down and Seven Monthly Payments of $4.20)

MODEL OD-A

New compact battery version of above instrument. Operates from self-contained batteries of light weight and exceptionally long life. Less batteries, net cash.

$29.95

(Only $4.50 Down and Seven Monthly Payments of $4.20)

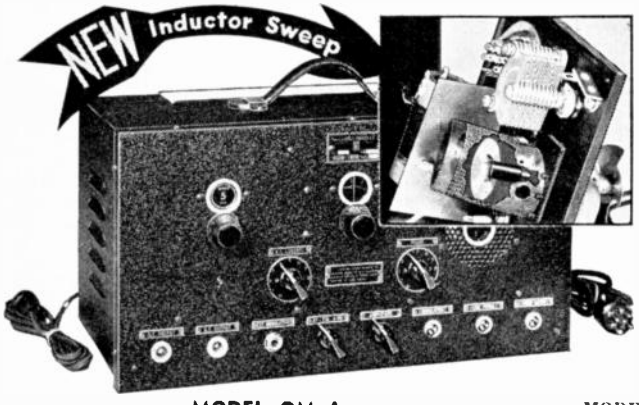
Model OC-AR, Rack Style, Net Cash $33.95

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NET

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New "INDUCTOR-SWEEP" Cathode-Ray Alignment



ELIMINATES ROTATING CONDENSERS, ELECTRON DISCHARGE CIRCUITS, ETC.

This new method for securing the "wobble" necessary for cathode-ray alignment, eliminates rotating condensers and unstable electron discharge ("electronic") circuits. Instead, these models employ a totally new sweep method offering the choice of both single and double trace curves. To secure this "wobble," a small copper disc is rotated by an oversize synchronous motor in the field of an inductance coil. As this disc turns, the frequency of the oscillating circuit is varied due to change of the coils' inductance over a range of plus or minus 20 kc.

This is secured the exclusive C-B "Fixed-Width" selectivity curve which is calibrated directly in kilocycles.

MODEL OM-A

Improved Frequency Modulated R.F. Generator

Range: 100 k.c. to 30 mc. continuously variable on fundamental output over six bands, each tuned by a micro-vernier dial 25 inches long.

Single or Double Trace Curves: An exclusive feature of C-B Cathode-Ray equipment provides both single or double trace selectivity curves. Since a uniform "wobble" of plus and minus 20 k.c. is secured, the selectivity curve is accurately calibrated by means of a pyroxalin chart supplied for placement over the Cathode-Ray tube screen.

Use with any Oscillograph or Output Meter: The Model OM-A may be used with any standard cathode-ray oscillograph, or, with the frequency modulator shut off, as a standard oscillator for output meter measurements.

Accuracy Guaranteed to ½ of 1%: Each instrument is hand calibrated against crystal controlled master signal standards of the greatest precision modern science can devise.

Metal Tubes: Employs a type 6C5 as variable r.f. oscillator, a type 6C5 as "wobbled" oscillator, a type 6C5 as audio frequency oscillator, a type 6C7 as mixer and a 5Z4 rectifier, all metal.

MODEL OM-A — R.F. Signal Generator, complete with hand drawn calibration charts, tubes and output cable, net cash.

$57.75

(Only $6.50 Down and 10 Monthly Payments of $5.85)

MODEL 81-A

Frequency Modulator

Brings "INDUCTOR-SWEEP" fixed-width frequency modulation to any oscillator, thus adapting it for Cathode-Ray visual alignment without alterations or loss of calibration. Simply connect the output to the receiver. Suitable for use with any oscillograph. Provides single and double trace curves. For operation from 110-volt, 50-67 cycle lines.

MODEL 81-A—Frequency Modulator, complete with tubes and output cable, net cash.

$34.25

(Only $4.00 Down and 10 Monthly Payments of $3.46)

Model OMA-R, Rack Style, Net Cash $74.50

MODEL CRA Cathode-Ray Oscillograph



MODEL CRA

Cathode-Ray Oscillograph

This instrument offers complete facilities for countless problems of receiver circuit study and adjustment. R.F. and I.F. alignment, resistor, condenser, and vibrator tests are made while the receiver is under actual operation.

Flexible Operation: The switching system makes possible instant changeover for any desired test, greatly adding to the ease and simplicity of operation.

Higher Input Sensitivity: Two improved input amplifiers, one for each set of plates, offer the highest sensitivity available on a cathode ray oscillograph, .38 r.m.s. volts per inch of deflection. This extreme sensitivity is an added advantage in servicing receivers of the latest designs.

Wide-Range Sweep: The MODEL CRA has an improved sweep circuit with positive synchronizing control, generating fundamental sweep frequencies up to 20,000 cycles per second, allowing convenient study of wave forms at 150,000 cycles per second or higher.

These and many other features make the MODEL CRA, the outstanding Cathode-Ray Oscillograph value, regardless of price. It has back of it the unequalled experience of the pioneer builder of cathode-ray equipment for high-frequency applications.

MODEL CRA—Cathode-Ray Oscillograph, complete in metal carrying case with all tubes including the type 906 cathode-ray tube, net cash.

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Model CRA-R, Rack Style, Net Cash $99.75

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Model 79-A Beat-Note Audio Oscillator

A newly improved instrument offering a standard of performance not available in combination r.f. and a.f. oscillators. For radio receiver servicing, it has the advantage that it may be used to audio modulate an r.f. signal generator over the entire audible frequency range, for the extremely important frequency characteristic test of the radio receiver. This can not be done with the a.f. oscillators built into the r.f. signal generators.

Continuously variable from 0 to 15,000 cycles, with accurate calibration throughout. Output is 27 volts at 5000 ohms or 150 milliwatts, several times the power obtainable from oscillators using low power tubes.
Has built-in amplifier, type 6E5 electron-eye zero-beat indicator and new air dielectric trimmer condensers. Distortion content less than 5%. Output essentially flat over entire frequency range. Operated directly from 110-volt 50-60 cycle line.



MODEL 79-A Beat-Note Audio Oscillator ..... **Net Cash $53.75**
Complete in Metal Carrying Case with all Tubes.
(Only $6.00 down and ten monthly payments of $5.45)
MODEL 79-AR, Rack Style ..... **Net Cash $59.50**

Model 85-A Unimeter



This low cost point-to-point set analyzer offers every facility for rapid and accurate receiver checking. The large 4-in. fan type meter has D.C. voltage scales of 0-15-150-750 v. D.C. current of 0-; .5-; 5-; 50 ma., A.C. 0-15-150-750 volts and resistance from ½ ohm to 2 megs. on three scales.

The 0-100 ohms scale is of the shunt type, greatly reducing battery drain and increasing accuracy on the important low ohm readings. When tests are made to the output post marked "Receiver," a heavy duty blocking condenser is placed in the circuit to remove the d.c. component from the plate circuit.

With the MODEL 85-A, all ranges are instantly available through the use of a rotary selector switch. The socket cable and adapters of former analyzers have been eliminated as an aid to quick servicing and to prevent needless obsolescence.

MODEL 85-A Unimeter ..... **Net Cash $24.95**
Complete with Test Leads and Battery.
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Model 95 Super-Unimeter

A new analyzer with added ranges to meet the requirements for quick checking of all receiver circuits and components. The first popularly priced instrument to offer direct reading of capacity in all needed values.



Two 4-inch fan-type meters, offer D.C. voltage ranges of 0-5-50-500-1000, D.C. ma. 0-5-50-500, A.C. volts 0 8-40-160-400-800, five resistance ranges from ½ ohm to 20 megs. and capacity from .0025 to 16 mfd., all readings made from self-contained power supply eliminating battery inaccuracies and expense. Rotary switches provide instant selection of all ranges without complicated pin-jack or push button combinations. V.

MODEL 95 Super-Unimeter ..... **Net Cash $53.75**
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As a vacuum-tube voltmeter, the 4-inch fan type meter indicates 1.2 volts for full deflection. Connection is direct to the tube grid giving an input resistance of 10 megs., sufficient to preclude drawing current in any circuit. As a peak voltmeter, ranges of 0-10 and 0-100 volts are offered. The entire unit is housed in a metal carrying case, with the voltmeter tube on a 30-inch extension cable to allow direct connection to circuit under test.



MODEL 88 Vacuum-Tube Voltmeter ..... **Net Cash $42.50**
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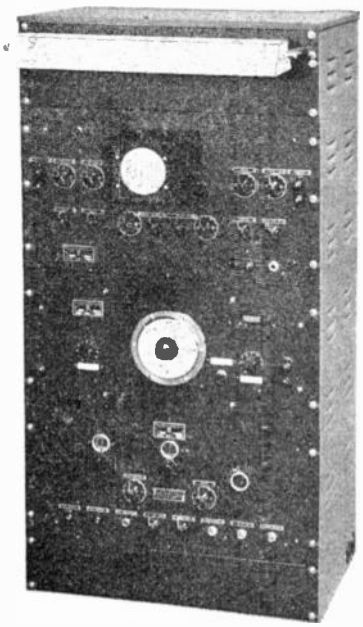
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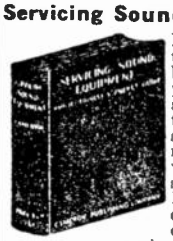


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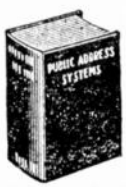
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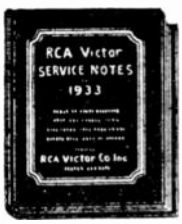


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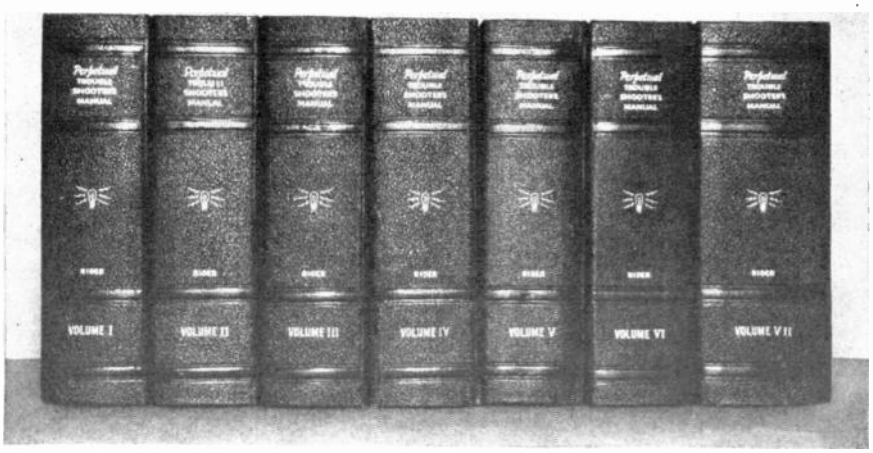
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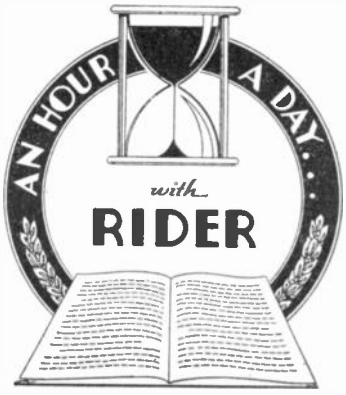
AN HOUR A DAY WITH RIDER

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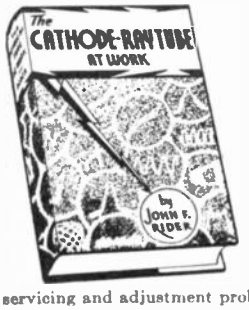
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Automatic volume control has now become a standard feature of every well made receiver. Are you familiar with every type in use and can you recognize one system from another by examining the schematic? Do you know how various types of tubes are used in each circuit? Noise suppression systems, time delay circuits—audio-frequency volume expander systems and other such networks have greatly increased servicing problems. Here is the book which gives you the needed information on A.V.C. in its various forms. This subject has puzzled thousands of servicemen. . . . Remove yourself from that class by reading this new book by Rider, who has written it so that theory and practice are combined.

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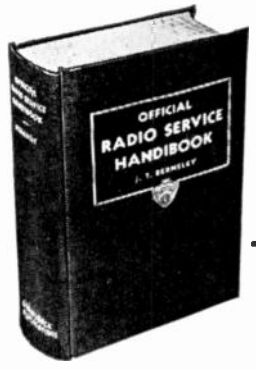
Diagnosing troubles in a receiver quickly is the secret of successful servicing and one way is to know the part that resistance plays in the functioning of any set. Do you know all about the resistance of the various types of transformers—what it should be and what can happen if their resistance is incorrect? Could you take the schematic of any receiver and check all the circuits with an ohmmeter? A full and clear explanation of such procedure is the subject of one chapter and this alone is worth the price of the book, which is illustrated with schematic diagrams that make the contents easy to understand.

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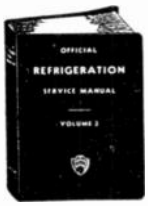
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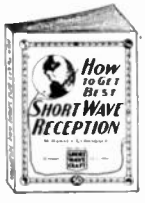
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By M. HARVEY GERNSBACK

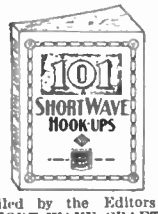
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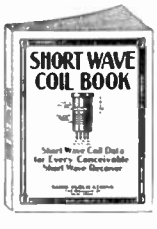
Compiled by the Editors of SHORT-WAVE CRAFT

Here is a worthwhile book that every short-wave listener, every short-wave fan, and every short-wave amateur has wanted for a long time. It gives you the 101 best short-wave hook-ups which have appeared heretofore.

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As every experimenter who has ever tried to build a short-wave set knows only too well by experience, the difference between a good and a poor receiver is usually found in the short-wave coils. Very often you have to hunt through copies of magazines, books, etc., to find the information you require.

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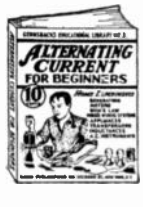
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The editors of SHORT-WAVE CRAFT have selected ten outstanding short-wave receivers and these are described in the new volume. Each receiver is fully illustrated with a complete layout, pictorial representation, photographs of the set complete, hookup and all worthwhile specifications.

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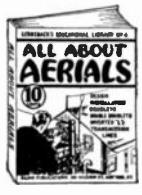
ALTERNATING CURRENT FOR BEGINNERS



This book contains everything to give the beginner a foothold in electricity and Radio. Electric circuits are explained. Ohm's Law, one of the fundamental laws of radio, is explained; the generation of alternating current; sine waves; the units—volts, amperes, and watts are explained. Condensers, transformers, A.C. instruments, motors and generators—all these are thoroughly discussed. Housewiring systems, electrical appliances and electric lamps. 32 pages. 15,000 words.

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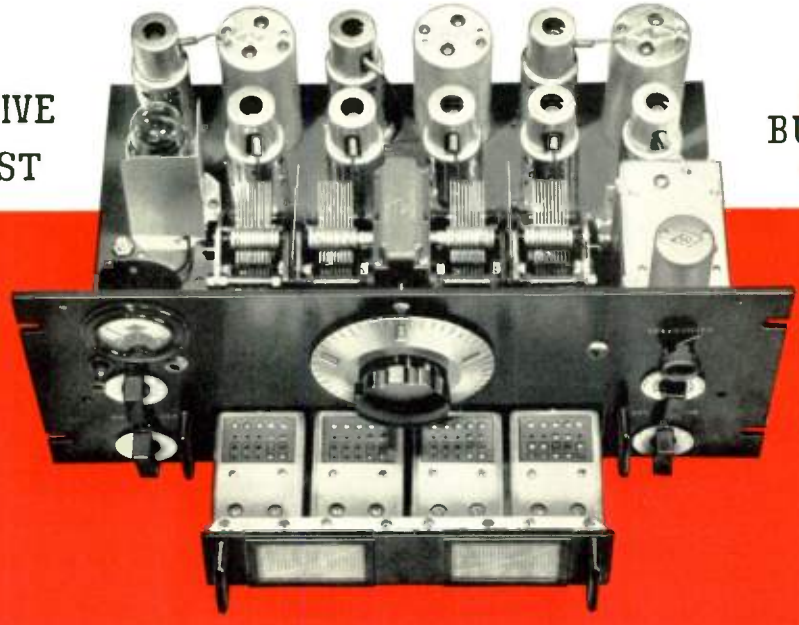
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NATIONAL COMPANY INCORPORATED

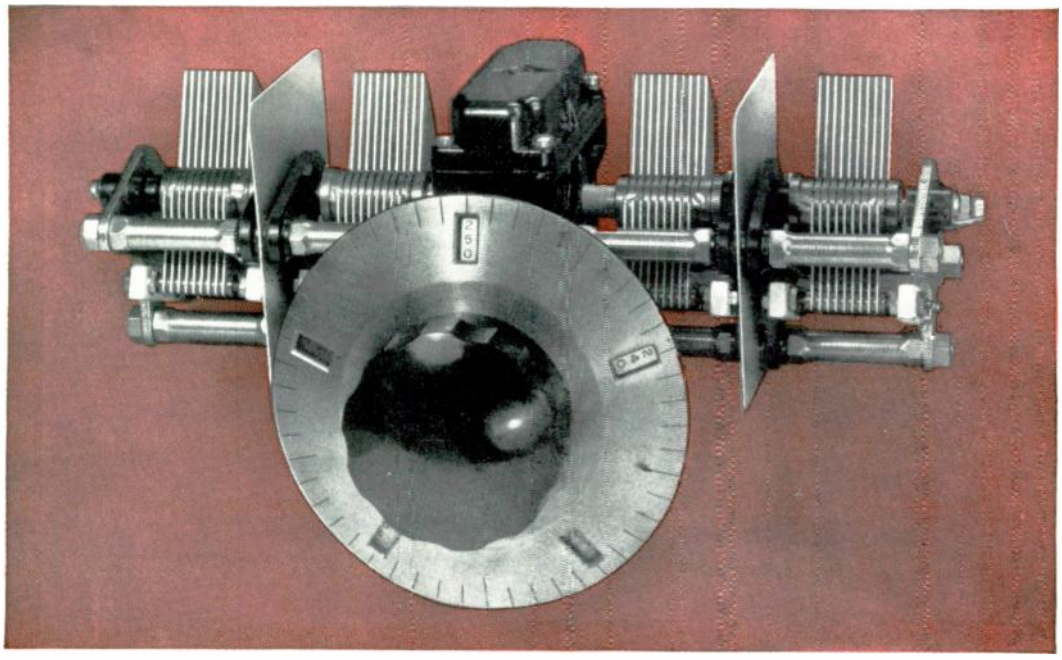
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NATIONAL *Ganged* CONDENSER



PRECISION GANGED CONDENSER

The PW Precision Condenser has been particularly designed for use in H.F. circuits. It is available with 2, 3 or 4 ganged sections for use in receivers, and in a new single section model for use in laboratory equipment. The sizes available are listed at the right.

The condenser is of extremely rigid construction, with four bearings on the rotor shaft. The drive, at the midpoint of the rotor, is through an enclosed pre-loaded worm gear with 20 to 1 ratio. Each rotor is individually insulated from the frame, and each has its own individual rotor contact, of the multi-fingered brush type. Stator insulation is Steatite.

The Micrometer dial is of a new type and reads direct to one part in 500. Division lines are approximately ¼" apart. As is evident from the illustration above, the dial is read in the usual way. However, the dial revolves ten times in covering the tuning range, and the numbers visible through the small windows change every revolution to give consecutive numbering by tens from 0 to 500. As the illustration shows, the numbers rotate with the division lines at the top of the dial, and change rapidly at bottom of the dial where they are out of the operator's line of sight. As the dial has only two moving parts, both rotating, the dial is very smooth in operation and does not interfere with delicate tuning adjustment.

The dial and enclosed worm drive is listed separately, for use in driving transmitting condensers and similar equipment.

SPECIFICATIONS

PW Ganged Condensers are available in 2, 3 or 4 sections, in either 160 or 225 mmf per section. Larger capacities cannot be supplied. The single-section PW condenser is supplied in capacities of 150, 200, 350 and 500 mmf, single spaced. Capacities up to 125 mmf can be supplied double spaced. The rotor is not insulated on the single section model.

Plate shape is straight-line-frequency when the frequency range is 2:1.

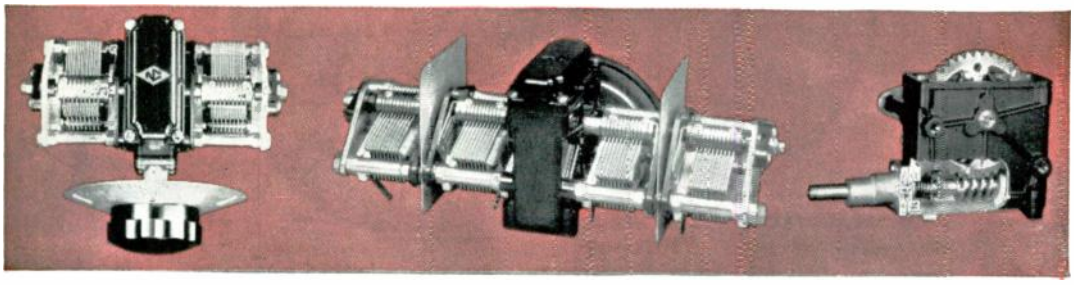
Single Section
PW-1 **List Price $13.50**

Two Section
PW-2 **List Price $17.00**

Three Section
PW-3 **List Price $20.50**

Four Section
PW-4 **List Price $24.00**

Drive Unit with TX-9 Coupling
PW-0 **List Price $13.50**



NATIONAL COMPANY, INC., MALDEN, MASS.

"HRO" & "O" DIALS — FIGS. 1a & 1b

The 1⅝" dia. HRO dial (Fig. 1a) is etched nickel silver and fits ¼" shafts. Reads from 0 to 10 over 180°, numbers increasing with clockwise rotation.

List Price, each $.75

The insulated 3½" dia. O dial (Fig. 1b) is circular-grained German Silver and fits ¼" shafts. Available with 2 scale.

List Price, each $1.50

The type HRK Knob used on the O dial is also available alone. Fits ¼" shafts.

List Price, $.85

"N" & "NW" DIALS — FIGS. 2 & 3

Precision Dials, Type N, have engine divided scales and verniers of solid German Silver. The Verniers are flush, eliminating errors from parallax.

The four-inch Type N dial (Fig. 3) employs a smooth and powerful planetary mechanism with a 5 to 1 ratio. It is available with either 2, 3, 4 or 5 scale.

List Price, each $6.75

The six-inch Type NW dial (Fig. 2) has a variable ratio drive that is unusually powerful at all settings. It is recommended for use on large transmitters and precision instruments. Available with either 2, 3, 4 or 5 scale.

List Price, each $15.00

"A" DIAL — FIG. 4

The original "Velvet Vernier" Dial, Type A, is still an unchallenged favorite for general purpose use. It is exceptionally smooth and entirely free from backlash. The mechanism is contained within the bakelite knob and shell. Ratio 5 to 1. Available with either 2, 4 or 5 scale in 4" diameter. Available with 2 scale in 3⅜" diameter.

List Price, each $3.00

"B", "BM", & "BX" DIALS — FIGS. 5, 6, 7

"Velvet Vernier" Dial, Type B (Fig. 7) provides a compact variable-ratio drive that is smooth and trouble free. The mechanism is inclosed in a black bakelite case, the dial being read through a window. Available with 1 or 5 scales.

List Price, each $2.75

If illuminator is desired, add $.50 to List Price.

The Type BX Dial (Fig. 6) is mechanically identical to the Type B Dial, but is equipped with an etched dial scale and vernier reading to 1/10 division. Available with 4 scale only.

List Price, each $3.50

The Type BM Dial (Fig. 5) is a smaller version of the Type B Dial for use where space is limited. It is similar to the Type B Dial in appearance and mechanism, but does not have the variable-ratio device. Available with 1 or 5 scales.

List Price, each $2.50

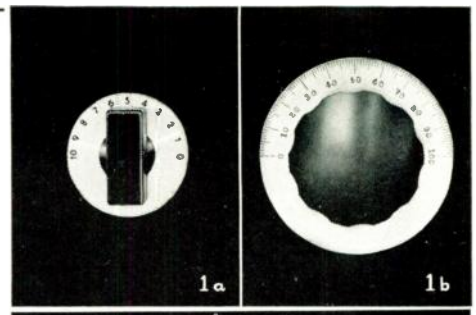
"H" DIAL — FIG. 8

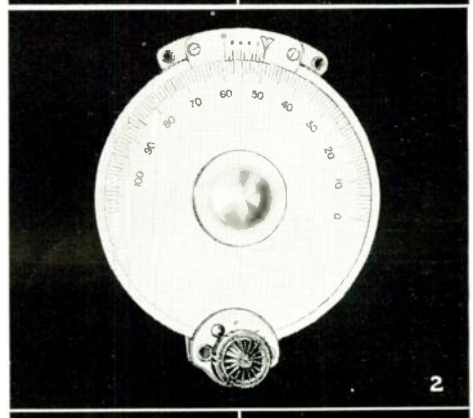
Projection Drum Dial, Type H, employs the proved and popular non-conducting cord drive with spring take-up. The dial scale is optically projected in illuminated figures on a ground-glass screen, considerably enlarged. Parallax is entirely absent. Condenser shaft must be parallel to panel. Available with either 2, 3 or 4 scale.

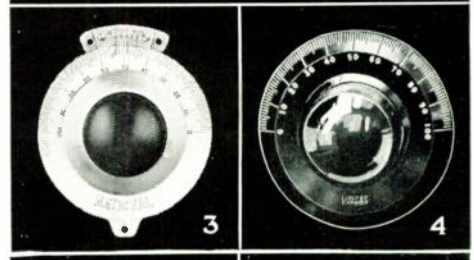
List Price, each $5.50

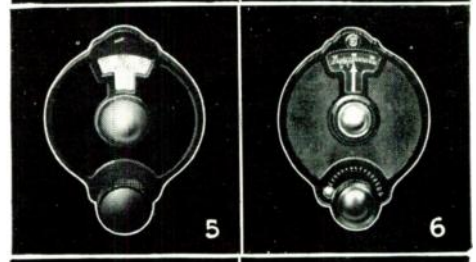
DIAL SCALES

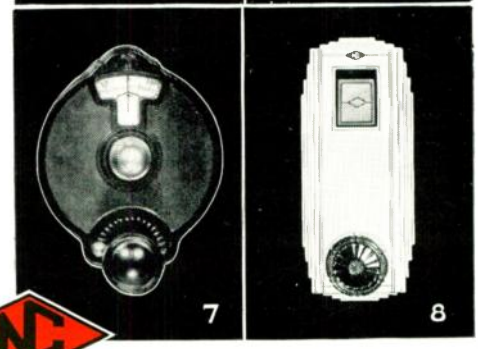
Scale Type	Divisions	Degrees Rotation	Direction of Condenser Rotation for increase of dial reading
1	0–100–0	180°	Either
2	0–100	180°	Counter Clockwise
3	100–0	180°	Clockwise
4	150–0	270°	Clockwise
5	200–0	360°	Clockwise
6	0–150	270°	Counter Clockwise





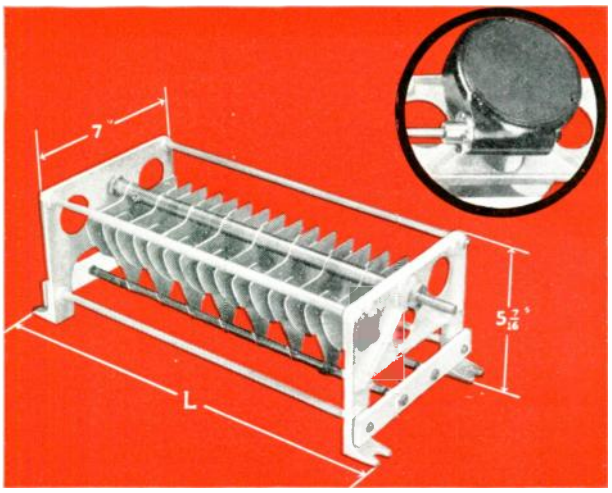






NATIONAL COMPANY, INC.

NATIONAL *Transmitting* CONDENSERS

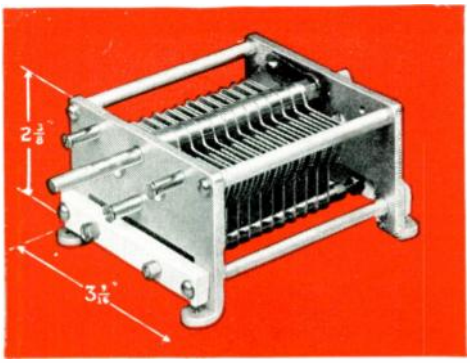


TML *{Heavy Duty, Inexpensive}*

The TML condenser is a 1 KW job throughout. Isolantite insulators, specially treated against moisture absorption, prevent flashovers. A large self-cleaning rotor contact provides high current capacity. Thick capacitor plates, with accurately rounded and polished edges, provide high voltage ratings. Sturdy cast aluminum end frames and dural tie bars permit an unusually rigid structure. Precision end bearings insure smooth turning and permanent alignment of the rotor. End frames are arranged for panel, chassis or standoff mounting. And a PW-type self-locking right-angle drive unit can be easily added to provide precision tuning and convenient parallel-panel mounting.

Type PWL Drive Unit. **List Price, $9.50 extra**

Capacity	Peak V.	Airgap	Length	Plates	Cat. Symbol	List Price
75 Mmf.	20,000	.719"	18½"	17	TML-75E	**$23.50**
150	15,000	.469"	18½"	27	TML-150D	**24.25**
100	15,000	.469"	14 1/16"	19	TML-100D	**21.50**
50	15,000	.469"	8¾"	9	TML-50D	**16.50**
245	10,000	.344"	18½"	35	TML-245B+	**26.25**
150	10,000	.344"	14 1/16"	21	TML-150B+	**23.50**
100	10,000	.344"	11⅜"	15	TML-100B+	**22.50**
75	10,000	.344"	8¾"	11	TML-75B+	**16.50**
500	7,500	.219"	18½"	49	TML-500A+	**32.50**
350	7,500	.219"	14 1/16"	33	TML-350A+	**25.50**
250	7,500	.219"	11⅜"	25	TML-250A+	**23.50**
30–30	20,000	.719"	18½"	7–7	TML-30DE	**24.00**
60–60	15,000	.469"	18½"	11–11	TML-60DD	**26.00**
100–100	10,000	.344"	18½"	15–15	TML-100DB+	**28.50**
50–50	10,000	.344"	14 1/16"	9–9	TML-50DB+	**25.00**
200–200	7,500	.219"	18½"	21–21	TML-200DA+	**32.50**
100–100	7,500	.219"	11⅜"	11–11	TML-100DA+	**26.50**



TMC *{Moderate Power, Compact}*

Also of new design, the TMC is designed for use in the power stages of transmitters, where peak voltages do not exceed 3000. The frame is extremely rigid and arranged for mounting on panel, chassis or stand-off insulators. The plates are aluminum, with buffed edges. Insulation is Isolantite, located outside of the concentrated electrostatic field. The stator in the split stator model is supported at both ends.

Capacity	Peak V.	Airgap	Length	Plates	Cat. Symbol	List Price
50 Mmf.	3000	.077"	3"	7	TMC-50	**$4.00**
100	3000	.077"	3⅛"	13	TMC-100	**4.25**
150	3000	.077"	4⅝"	21	TMC-150	**4.75**
300	3000	.077"	6¾"	39	TMC-300	**5.50**
100–100	3000	.077"	6¼"	13–13	TMC-100D	**7.50**

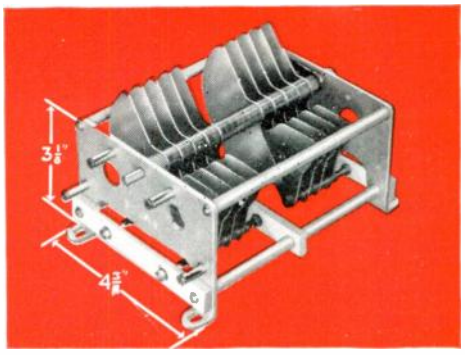
NATIONAL COMPANY, INC., MALDEN, MASS.

Only the most popular sizes of condensers, as carried in stock by our dealers, are listed above. Other sizes can be promptly supplied from standard parts on special order at the same price as the next largest size in the tables above.

A rotor shaft lock can be supplied for either the TMC or the TMA condensers. See page eleven for details.

TMA *{Heavy Duty}*

Newly designed, the TMA is a larger model of the popular TMC. The frame is extremely rigid and arranged for mounting on panel, chassis or stand-off insulators. The plates are of heavy aluminum with rounded and buffed edges. Insulation is Isolantite, located outside of the concentrated field.

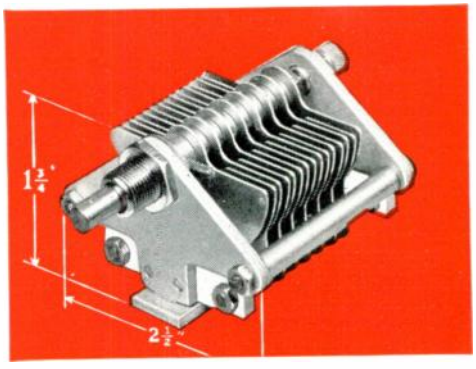


Capacity	Peak V	Airgap	Length	Plates	Cat. Symbol	List Price
300 Mmf.	3000	.077"	4 9/16"	23	TMA-300	$11.00
200–200	3000	.077"	6⅞"	16–16	TMA-200D	13.50
50	6000	.171"	4 9/16"	8	TMA-50A	6.00
100	6000	.171"	6⅞"	17	TMA-100A	9.00
150	6000	.171"	6⅞"	23	TMA-150A	11.00
230	6000	.171"	9 5/16"	35	TMA-230A	14.50
50–50	6000	.171"	6⅞"	9–9	TMA-50DA	10.00
100–100	6000	.171"	9 5/16"	15–15	TMA-100DA	16.00
100	9000	.265"	9¼"	23	TMA-100B	12.00
150	9000	.265"	12½"	35	TMA-150B	15.50
60–60	9000	.265"	12½"	15–15	TMA-60DB	17.00
50	12000	.359"	7⅛"	13	TMA-50C	7.25
100	12000	.359"	12⅞"	27	TMA-100C	13.00
40–40	12000	.359"	12⅞"	11–11	TMA-40DC	12.00

TMS *{Low Power, Compact, Inexpensive}*

Type TMS is a condenser designed for transmitter use in low power stages. It is compact, rigid, and dependable. Provision has been made for mounting either on the panel, on the chassis, or on two stand-off insulators.

Insulation is Isolantite. Voltage ratings listed are conservative.



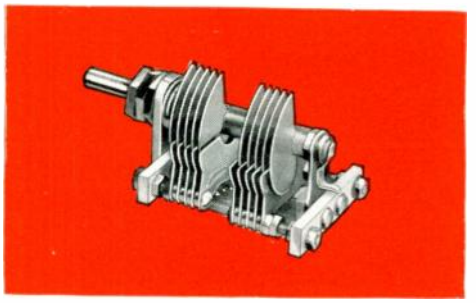
Capacity	Peak V.	Airgap	Length	Plates	Cat. Symbol	List Price
100 Mmf.	1000	.026"	2¾"	10	TMS-100	$2.25
150	1000	.026"	2¾"	14	TMS-150	2.50
250	1000	.026"	2¾"	23	TMS-250	2.75
300	1000	.026"	2¾"	27	TMS-300	3.25
50–50	1000	.026"	2¾"	5–5	TMS-50D	3.50
100–100	1000	.026"	2¾"	9–9	TMS-100D	4.25
35	2000	.065"	2¾"	8	TMSA-35	2.75
50	2000	.065"	2¾"	11	TMSA-50	3.00

NATIONAL COMPANY, INC., MALDEN, MASS.

Only the most popular sizes of condensers, as carried in stock by our dealers, are listed above. Other sizes can be promptly supplied from standard parts on special order at the same price as the next largest size in the tables above.

A rotor shaft lock can be supplied for either the TMC or the TMA condensers. See page eleven for details.

NATIONAL *Receiving* CONDENSERS



ST 180° Straight-Line-Wavelength

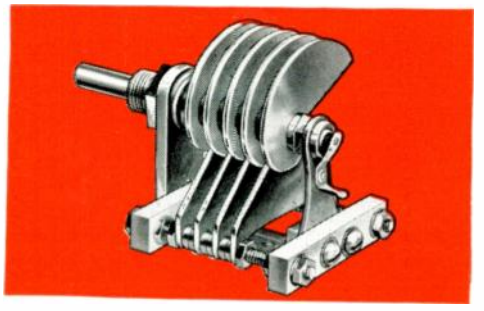
The ST Condenser has 180° Straight-Line-Wavelength plates. General construction is the same as the SE condenser although its overall height is less. For minimum overall length, a single bearing model — the STHS — is offered. All other models are double bearing. Two split-stator models are available.

Capacity	Air Gap	Plates	Length	Cat. Symbol	List Price
15	.018″	3	$1\frac{3}{16}$″	STHS 15	**$1.40**
25	.018″	4	$1\frac{3}{16}$″	STHS 25	**1.50**
50	.018″	7	$1\frac{3}{16}$″	STHS 50	**1.60**
35	.026″	8	2¼″	ST 35	**1.50**
50	.026″	11	2¼″	ST 50	**1.80**
75	.026″	15	2¼″	ST 75	**2.00**
100	.026″	20	2¼″	ST 100	**2.25**
140	.026″	28	2¾″	ST 140	**2.50**
150	.026″	29	2¾″	ST 150	**2.50**
200	.018″	27	2¼″	STH 200	**2.75**
250	.018″	32	2¾″	STH 250	**3.00**
300	.018″	39	2¾″	STH 300	**3.25**
335	.018″	43	2¾″	STH 335	**3.50**
50–50	.026″	11–11	2¾″	STD 50	**3.50**
100–100	.018″	14–14	2¾″	STHD 100	**4.50**

SS 180° Straight-Line Capacity

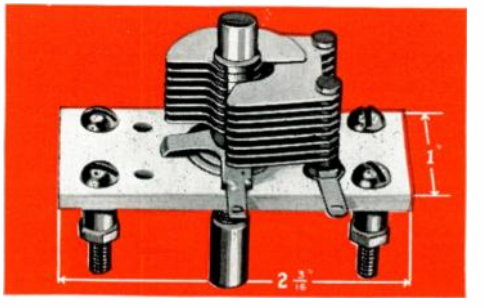
The SS Condenser has 180° Straight-Line-Capacity plates and except for this detail is the same in all other respects as the ST condenser. When ordering, substitute SS for ST under the catalog symbol column in the listing at the right.

Capacity	Air Gap	Plates	Length	Cat. Symbol	List Price
15	.055″	6	2¼″	SEU 15	**$2.50**
20	.055″	7	2¼″	SEU 20	**2.75**
25	.055″	9	2¼″	SEU 25	**2.75**
50	.026″	11	2¼″	SE 50	**3.00**
75	.026″	15	2¼″	SE 75	**3.25**
100	.026″	20	2¼″	SE 100	**3.50**
150	.026″	29	2¾″	SE 150	**3.75**
200	.018″	27	2¼″	SEH 200	**3.75**
250	.018″	32	2¾″	SEH 250	**4.00**
300	.018″	39	2¾″	SEH 300	**4.00**
335	.018″	43	2¾″	SEH 335	**4.25**



SE 270° Straight-Line-Frequency

The SE Condenser has 270° Straight-Line-Frequency plates. Insulation is Isolantite. All models have two rotor bearings, the front bearing being insulated to prevent noise. The rotor contact is through a constant impedance pigtail. The SEU models are suitable for high voltages as their plates are thick polished aluminum with rounded edges. The other SE models do not have this feature.



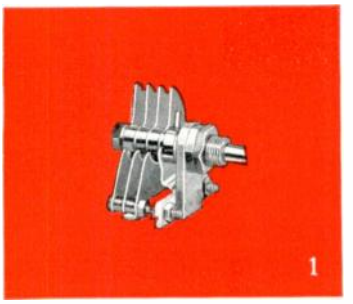
Capacity	Air Gap	Plates	Cat. Symbol	List Price
15 Mmf.	.017″	6	UM- 15	**$1.25**
35	.017″	12	UM- 35	**1.50**
50	.017″	16	UM- 50	**1.60**
75	.017″	22	UM- 75	**1.70**
100	.017″	28	UM-100	**1.90**
25	.050″	14	UMA- 25	**1.85**
25	.017″	4–4–4	UMB- 25	**1.85**

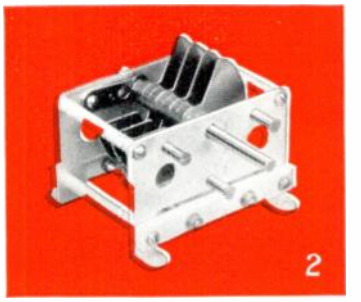
UM (Ultra Midget)

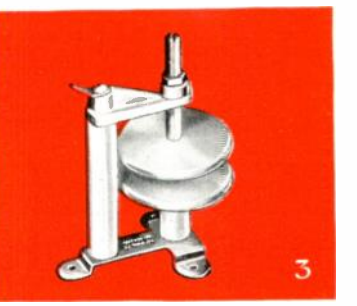
The UM Condenser is designed for ultra high frequency use and is small enough for convenient mounting in our square shield cans. They are particularly useful for tuning receivers, transmitters and exciters. Shaft extensions at each end of the rotor permit easy ganging when used with one of our flexible couplings. The UMB-25 Condenser is a balanced stator model, two stators act on a single rotor. The UM can be mounted by the angle foot supplied or by bolts and spacers, as illustrated.

NATIONAL COMPANY, INC., MALDEN, MASS.

If an extended shaft is wanted for ganging on either the ST or the SS Series of Condensers listed above, add the letter E to the standard catalog symbol. Prices are the same.


1


2


3

NEUTRALIZING CONDENSERS

STN (Fig. 1) A compact, rigid, and efficient condenser particularly suitable for neutralizing 245, 247, 210 and similar tubes in amplifier, buffer or doubler stages. Very low minimum capacity. Isolantite insulation. Maximum capacity 18 mmf. Peak voltage breakdown — 3000v. **List Price, $2.00**

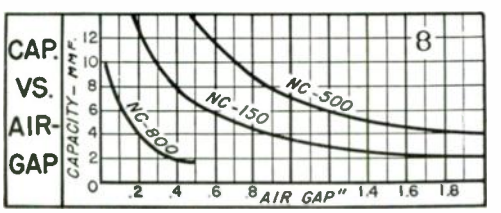
TCN (Fig. 2) A heavy duty neutralizing condenser having a peak voltage rating of 6000 volts. Suitable for use with 203A, 852, 204A and similar tubes. Maximum capacity 25 mmf. **List Price, $3.50**

NC 800 (Fig. 3) A high voltage neutralizing condenser, suitable for use with the RCA-800. Insulation is Isolantite. For capacity-air gap relation see Figure 8. **List Price, $3.00**

NC-150 (Fig. 6) A heavy duty condenser designed to neutralize such tubes as the HK 345, RK 36, 300 T and 852. The NC-500, a still larger condenser, is available for neutralizing the W.E. 251A and similar tubes. See Figure 8 for capacity-air gap relation.

Type NC-150 **List Price, $6.00**
Type NC-500 **List Price, $10.00**


7



8

GENERAL PURPOSE

EMC (Fig. 5) National EMC Condensers have high electrical efficiency, and calibrations may be relied on. Insulation is Isolantite, and Peak Voltage Rating is 1000 volts. Plate Shape is SLW.

Capacity	*No. of Plates*	*Cat. Symbol*	*List Price*
150	9	EMC 150	**$3.00**
250	14	EMC 250	**3.50**
350	18	EMC 350	**3.75**
500	26	EMC 500	**4.00**
1000	56	EMC 1000	**6.50**
Split-Stator Models			
350–350	18–18	EMCD–350	**6.75**

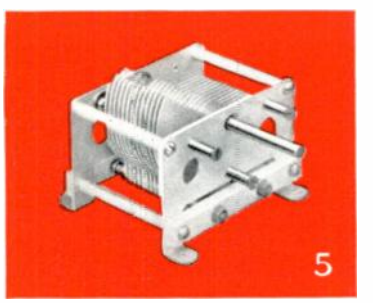
PADDING CONDENSERS

National Air-Dielectric Padding Condensers (Fig. 4) are extremely compact and have a very low temperature coefficient. The aluminum shield is 1¼" diameter by 1¼"–1½" high.

A very small mica Padding Condenser (Fig. 7) is also available, mounted on an Isolantite base and designed to be supported by the circuit wiring. The maximum capacity is 30 mmf., and the overall dimensions are 13, 16" long x 9/16" wide x ½" high.

W 75 (75 Mmf. Air) **List Price, $2.25**
W 100 (100 Mmf. Air) **List Price, 2.50**
M 30 (30 Mmf. Mica) **List Price, .30**


6


5


4

PARTS

R.F. CHOKES



R-100. Isolantite mounting, continuous universal winding in four sections. For pigtail connections or standard resistor mountings. Inductance 2½ m.h.; distributed capacity, 1 mmf.; D.C. resistance 50 ohms; Current rating, 125 M.A. For low powered transmitters and high frequency receivers.

List Price, $.60



R-152, R-154, R-154U. These transmitter chokes have honeycomb coils (0.6 amps. rating) wound on Isolantite cores. The R-152 is designed for the 80 and 160 meter bands; inductance 4 m.h., D.C. resistance 10 ohms. The R-154 and R-154U give maximum impedance on the 20, 40 and 80 meter bands; inductance 1 m.h., D.C. resistance 6 ohms. The R-152 and R-154 are as illustrated. The R-154U does not have the small insulating pillar and the third mounting foot.

R-152 or R-154 **List Price, $2.25**
R-154U **List Price, 1.75**



R-201. A two-section honeycomb-wound choke in R-39 case, suitable for output circuit of second detector in H.F. receivers (475 KC Intermediate Frequency). Inductance, approximately 12 m.h., D.C. resistance approximately 120 ohms.

List Price, $1.25



TWIN DIODE TRANSFORMER

I.F.D. This transformer is designed for use in the new noise silencing circuits, and in detector and a.v.c. circuits where the secondary will be working into a diode detector tube. The primary is tuned by an air dielectric condenser with aluminum plates. The secondary is untuned, closely coupled, for push-pull output. The condenser and coils are mounted on an Isolantite base treated against moisture absorption.

I.F.D., 450–550 KC. **List Price, $3.50**

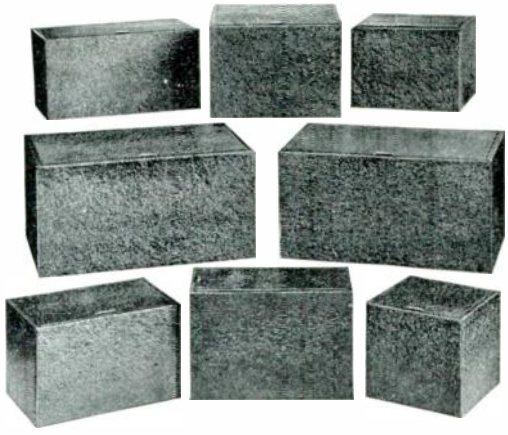
I.F. TRANSFORMER



This new I.F. Transformer has air dielectric condensers (isolated from each other by an aluminum shield) and Litz wound coils mounted on an Isolantite base which is treated against moisture absorption. The aluminum shield can, housing the assembly measures 4⅛" x 2⅜" x 2". These transformers are available with or without Iron Cores in two models 175 K.C. or 450–550 K.C. For Iron Core add $.50 to list price.

Type IFC Transformer (air core) **List Price, $5.00**

Type IFCO Oscillator (air core only) **List Price, $5.00**



STANDARD CABINETS

The National Receiver Cabinets illustrated above, are for use in constructing special equipment. List Prices include sub-bases and bottom covers. Reading left to right:

	Width	Height	Depth	List Price
Top Row				
Type C-HWR	13½"	7"	7¼"	**$5.00**
Type C-FB7	11½"	8"	12"	**7.00**
Type C-SW3	9¾"	7"	9"	**5.50**
Middle Row				
Type C-NC100	17¼"	8¾"	11¼"	**8.50**
Type C-HRO	16¾"	8¾"	10"	**8.50**
Bottom Row				
Type C-One-Ten	11"	7"	7¼"	**4.50**
Type C-PSK	6"	8"	12"	**6.00**
Type C-SRR	7½"	7"	7½"	**3.50**

TUBE AND COIL SHIELDS

The Aluminum Shields shown are from left to right:

Type	List Price
HRO coil shield, 2" x 2⅜" x 4⅛" high	**$.35**
J30 coil shield, 2½" dia. x 3¾" high	**.35**
B30 coil shield, 3" dia. x 3¾" high	**.35**
B30 coil shield, with mounting base	**.50**
TS Tube Shield, with cap and mounting base	**.40**
T58 Tube Shield, with cap and mounting base	**.40**
T78 Tube Shield, with cap and mounting base	**.40**

The T58 and T78 fit such tubes as the 57, 58, 77, 78, etc.



CODE PRACTICE OSCILLATOR



This small audio oscillator is suitable for either code practice, or as an audio signal source for ICW on the Ultra High Frequency Bands.

A type 30 tube is used, and four flashlight cells in the case provide filament and plate current.

Type CPO, without batteries or tube. **List Price, $6.00**



COIL FORMS. These transmitter coil forms of low-loss ceramic are designed for high efficiency and should not be confused with ordinary porcelain forms. A data sheet supplied with each form shows the correct wire turns to use.

XR-10A, 20 or 40 meter — **List Price, $1.50**
XR-12A, 160 meter — **List Price, 2.25**
XR-13, (1¾" dia. x 3½" long.) — **List Price, 1.00**

SCREEN GRID DETECTOR COUPLING UNIT. This impedance coupling unit, when employed to couple the output of a screen grid detector to an audio amplifier tube, will give from two to three times as much amplification as resistance coupling. Plate choke, 700 henries. Coupling condenser, .01 mfd. Grid leak, 250,000 ohms.
Type S-101 — **List Price, $5.50**



RECEIVER COIL FORM. These well-known R-39 forms are machinable, permitting the experimenter to groove and drill them to suit individual requirements. They are available in 4-, 5- and 6-prong types. Length, 2¼". Dia. 1½".
XR-4, XR-5, or XR-6. — **List Price, $.75**



RECEIVER COIL FORM. Smaller in size than the R-39 forms listed above and made of Steatite, these forms are drilled for leads and left unglazed to provide a tooth for coil dope. They have 5 or 6 prongs.
Type XR-20. — **List Price, $.35**

PLUG-IN COIL FORMS. These R-39 coil forms, originally used in the FB-7, are designed for plugging-in through the front panel of a receiver, monitor, etc. A padding condenser mounts inside the coil, and a special bakelite sleeve protects the winding. The coil shield listed is bolted to the back of the panel, and supports the Isolantite socket.



XR-39A Coil Form, Air Tuned. — **List Price, $4.75**
XR-39M Coil Form, Mica Tuned. — **List Price, 3.65**
XCS Coil Shield and Socket. — **List Price, 1.75**

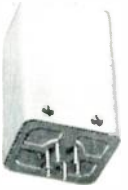


COIL FORM. This Steatite Choke Coil Form is ideally suited for small choke coils and precision resistors. The winding is divided in four sections by partitions. A slot is provided for leading the wire from section, and to the terminals.
Type XT-8. — **List Price, $.50**

GRID GRIPS. This convenient little Grid-Grip is the most simple method of attaching a wire to the metal top-cap terminal of multi-element tubes. Easy to operate, never works loose, makes continuous electrical contact. Eliminates possibility of loosening cap on tube when removing lead. Made in three sizes.



Type 24 — to fit broadcast set tubes. — **List Price, $.05**
Type 12 — to fit large type tubes. — **List Price, .10**
Type 8 — to fit metal tubes. — **List Price, .05**



PLUG-IN BASE AND SHIELD

The low-loss R-39 base has prongs moulded in for easy plug-in mounting. This unit is ideal for mounting condensers and coils when it is desirable to have them shielded and easily removable from a circuit. Four mounting holes that match our UM condenser are provided. The Aluminum Shield can is 2" x 2⅜" x 4 ⅛". Two models are available; 5 or 6 prong.
Type PB-10, (Base and Shield). — **List Price, $.75**
Type PB-10A, (Base only). — **List Price, .40**

COIL DOPE

National Coil Dope is a special Victron base R.F. lacquer prepared to give a low power factor. Used as a cement for holding windings in place, it does not spoil the low-loss properties of the coil form.
Per Can. — **List Price, $1.50**

VICTRON SHEET

The Loss Factor (0.2) of this non-hydroscopic mater al is ⅛ of "Low-Loss" rubber and 1 90 of the usual R.F. insulators. Its Power Factor is .06'¿-.08'¿. Ideal for mounting high frequency gear and it is readily drilled or sawed. In color it is a transparent amber.

12" x 6" x 3 16" thick sheet. — **List Price, $6.00**
12" x 6" x ⅛" thick sheet. — **List Price, 5.00**
6" x 3" x 3 16" thick sheet. — **List Price, 1.50**
6" x 3" x ⅛" thick sheet. — **List Price, 1.25**

LOW FREQUENCY OSCILLATOR COIL. Two separate inductances, closely coupled, in an aluminum shield. It is used in the SRR and other super-regenerative receivers for the interruption-frequency oscillator. Sec. Inductance 6.25 m.h. Tunes to 100 K.C. with .00041 Mfd.



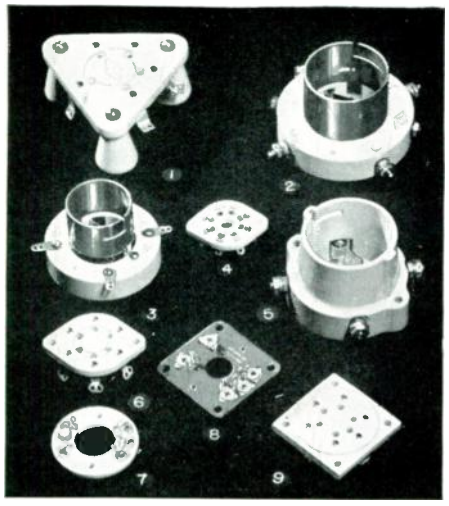
Type OSR. — **List Price, $1.50**

MIDGET COIL FORM. Made of low-loss R-39, these small coil forms are designed with excellent form factor, contributing to high efficiency in H. F. circuits. Diameter, 1"; Length, 1½"; Wall thickness, 1 16". Type XR-1 has four prongs, others are plain.



Type XR-1, four prongs. — **List Price, $.50**
Type XR-2, without prongs. — **List Price, .35**
Type XR-3, 9 16" dia. x ¾" long. — **List Price, .30**

NATIONAL COMPANY, INC., MALDEN, MASS.



LOW-LOSS SOCKETS

The sockets illustrated above will meet every amateur need.

1 is a wafer type Isolantite socket for power Pentodes such as the RK-28 and the RCA-803.
Type JX-100S, as illustrated. **List Price, $3.60**
Type JX-100, as above but without stand-off insulators. **List Price, $3.00**

2 is a fifty watt socket with sturdy side wipe contacts and employs the conventional bayonet-lock metal shell.
Type XM-50. **List Price, $1.75**

3 is a socket, similar in construction to the XM-50, designed for those tubes using the type UX base.
Type XM-10. **List Price, $1.25**

4 is an Isolantite wafer socket for the Octal (metal) tubes.
Type 8 prong. **List Price, $.60**

5 is another 50 watt socket made entirely of low-loss Steatite and is for higher frequencies and voltages than the XM-50.
Type XC-50. **List Price, $3.50**

6 is one of the complete line of National Isolantite Receiving Sockets that fit all standard receiving tubes. Types 4 prong, 5 prong, 6 prong, 7 prong — small, 7 prong — large. **List Price, $.60 each**

7 is an Isolantite socket for the Triode Acorn tube. The socket contacts are of a new design providing very short leads and have a current path nearly independent of tube position.
Type XCA. **List Price, $1.50**

8 is for the Pentode Acorn tube and is assembled, with the same type of contacts as the XCA, on a square copper base with built-in by-pass condensers for stable high frequency operation.
Type XMA **List Price, $1.50**

9 is a square Isolantite coil socket designed to fit National 6 pin coils. A wafer type socket, similar to figure 6, is also available to fit these same coil forms.
Type 6 prong Square Coil Socket **List Price, $.75**
Type 6 prong Wafer Coil Socket **List Price, .60**



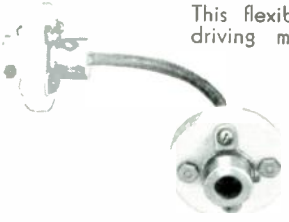
SHAFT COUPLINGS

The small coupling illustrated at the left has Steatite insulation, providing high electrical efficiency when used to isolate circuits.
Type TX-9. **List Price, $1.00**

The small coupling illustrated at the right is well known and liked for its small size and freedom from backlash. Insulation is canvas bakelite.
Type TX-10. **List Price, $.55**



FLEXIBLE SHAFT COUPLING



This flexible shaft, providing a driving means between offset shafts or shafts at angles up to 90 degrees, virtually eliminates mis-alignment problems. Available with either plain hubs or with Isolantite insulation. Hubs fit ¼" shafts.
Type TX-11, hubs not insulated. **List Price, $ .60**
Type TX-12, as illustrated. **List Price, 1.25**

HIGH VOLTAGE COUPLING

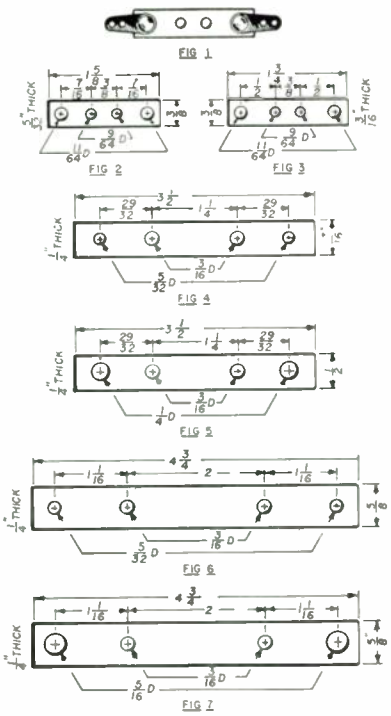


This coupling provides high insulation with compact size. The insulation is glazed Isolantite. TX-1 has a leakage path of 1", and TX-2 a leakage path of 2½".
Type TX-1. **List Price, $1.00**
Type TX-2. **List Price, 1.10**

FIXED TUNED EXCITER TANK

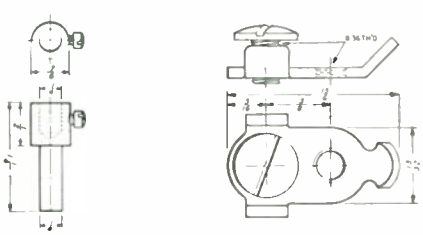


Mounted on the Isolantite base are two 25 mmf. condensers (2000 volts — isolated from each other by an aluminum shield) and an R-39 coil form (1½" x 1" diameter). The assembly is enclosed in an aluminum can, 4" x 2⅜" x 2". This unit is also available with the Plug-In Base shown on page 9 which makes it ideal for conveniently and rapidly changing transmitting frequencies.
Type FXT without plug-in base. **List Price, $4.50**
Type FXTB with plug-in base (either 5 or 6 prong). **List Price, $4.90**

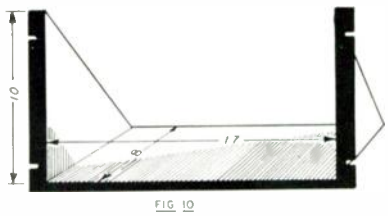


INSULATORS: A number of our standard condenser insulators are shown above. In addition to their obvious use as repair parts they may be used for a variety of other purposes such as supports for coils, spreaders, etc. The insulator shown in Fig. 1 is the same as Fig. 3, but has a metal solder lug riveted to each end. It is useful as a 5-meter lead-in spreader, or as a mounting for 5-meter inductances.

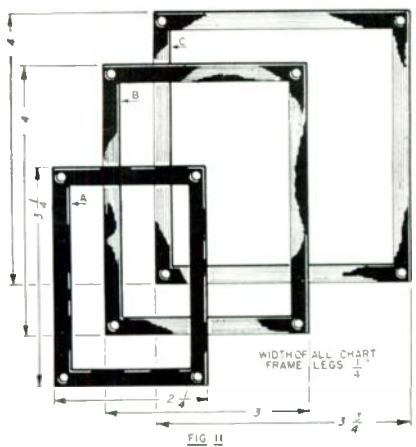
	List Price
Fig. 1.	**$.30**
Fig. 2. (Fits ST Condenser), each	**.15**
Fig. 3. (Fits SE Condenser), each	**.15**
Fig. 4. (Fits TMC Condenser), each	**.30**
Fig. 5. (Fits TMC Condenser), each	**.30**
Fig. 6. (Fits TMA Condenser), each	**.40**
Fig. 7. (Fits TMA Condenser), each	**.40**



SHAFT EXTENSION. **List Price $.25**
SCREW LUG. **List Price $.15**

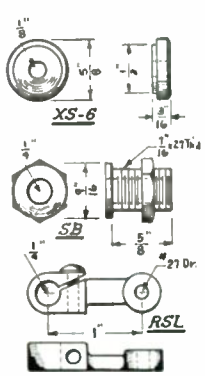


RELAY RACK SHELF: This recessed shelf will fit any standard relay rack, and is particularly useful for supporting portable equipment, instruments, test equipment, etc., Type RRS. **List Price $4.00**



COIL CHART FRAMES: Nickel Silver Chart Frames are available in the sizes shown above. The largest frame is the same as that used on the AGS, the medium frame is the same size as that on the FB-7, and the smallest is the same as the HRO frame. Prices include celluloid sheet to protect the chart.

Size A. **List Price, $.50**
Size B. **List Price, .60**
Size C. **List Price, .70**



H.F. BUSHING: This small Steatite bushing has many uses in Amateur equipment. Type XS-6 **List Price, $.10**

SHAFT BUSHING: A bushing that gives a professional touch to equipment where 1/4" shafts have to be brought through panels. Type SB **List Price, $.25**

ROTOR SHAFT LOCK: This lock is designed to clamp securely either the TMA or the TMC rotor shafts. Type RSL **List Price, $.85**

NATIONAL COMPANY, INC., MALDEN, MASS.

NATIONAL *High Frequency* RECEIVERS



STANDARD HRO RECEIVER

National has built into this receiver every feature the most advanced amateur requires.

The two preselector stages give remarkable image frequency suppression, weak signal response and high Signal-to-Noise Ratio. The two high gain I.F. stages employ Litz-wound coils and are tuned with air condensers. The useable sensitivity and selectivity are exceptional. Other circuit details are automatic and manual volume control, a vacuum tube voltmeter calibrated in "S" units for carrier intensities, a phone jack, a Send-Receive switch and a Lamb Single Signal crystal filter. This filter makes selectivity adjustable over a wide range and the circuits are so precisely balanced that heterodyning signals may be completely phased out.

Most notable among the mechanical details is the PW precision four-gang condenser, described in detail on page 2.

For best performance, a reliable speaker should be chosen with an input impedance of 7000 ohms. The Monitor speaker listed on page 17 is recommended or a similar speaker can be furnished in a cabinet to match the HRO.

OUTSTANDING FEATURES

- **Nine Tubes, not including rectifier**
- **Single Signal (Crystal Filter)**
- **Ganged Plug-in-Coils, each coil shielded**
- **Strictly single control tuning**
- **Four gang PW condenser**
- **Micrometer Dial, tuning over 500 divisions**
- **"S" meter**
- **Two I.F. stages — Litz-wound coils, air condenser tuned**
- **Beat Frequency Oscillator for "Offset" C.W. Tuning**
- **Two Preselector Stages**

STANDARD HRO Receiver, table model, complete with tubes and four sets of coils covering range 1.7 MC to 30 MC, but no speaker or power supply — 2½ volt A.C. or 6 volt battery model.
List Price, $279.50

STANDARD HRO Receiver, relay rack model — 2½ volt A.C. or 6 volt battery model. **List Price, $299.50** Specify Grey or Black finish.

5897 AB Power Supply — less tube — for above receiver. **List Price, $26.50**

Shipping weights: Receiver 62 pounds, power supply 15 pounds.

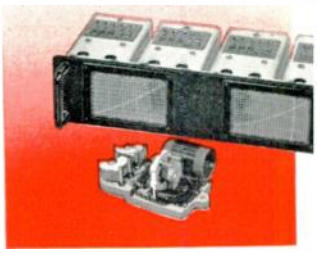
MCS Table-model Metal Cabinet and 8" Dynamic Speaker (P.M. type — requires no power supply) with impedance matching transformer for a single Class A Pentode (7000 ohms). **List Price, $23.50**

NATIONAL COMPANY, INC., MALDEN, MASS.

Other accessories suitable for use with the HRO are described on page 17.

NATIONAL *High Frequency* RECEIVERS

GANGED PLUG-IN COILS — CALIBRATED BAND-SPREAD



The plug-in coils of the HRO are ganged for easy handling and individually shielded for stability. When these coils are used for general coverage, each of the 4 coils includes two amateur bands and the spectrum between. A simple switching device is provided which makes these same coils band-spread their respective amateur bands (except 160) over a span of 400 divisions on the dial. Each set of coils is accurately calibrated at the factory and the complete set of four coils, as supplied with each standard HRO, covers the range from 1.7 MC to 30 MC.

Additional sets of coils are available only as listed below.

100–200 KC	**List Price, $30.00**
175–400 KC	**List Price, 27.50**
500–1000 KC	**List Price, 20.00**
900–2000 KC	**List Price, 20.00**

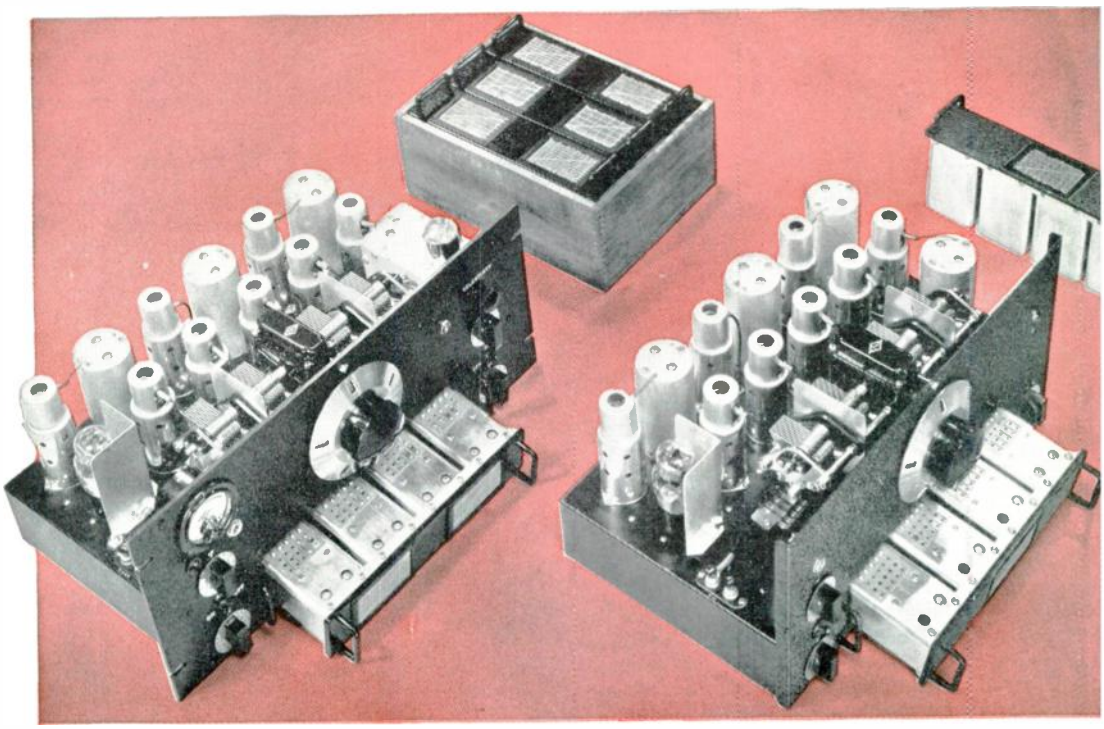
JUNIOR HRO RECEIVER

For those who require the high performance of the Standard HRO but do not need its extreme versatility, the HRO Junior is offered. The circuit and mechanical details of both receivers are identical in every respect, but the lower priced model has been greatly simplified by omitting the Lamb Single-Signal crystal filter, 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 HRO Junior at a very attractive figure.

HRO JUNIOR RECEIVER table model, complete with tubes and one set of coils, 10 to 20 meters (2 amateur bands) but no speaker or power supply — 2½ volt A.C. or 6 volt battery model.	**List Price, $165.00**
Additional HRO Junior Coils (2 amateur bands per coil).	**List Price, 16.50**
5897 AB Power Supply — less tube — for above receiver.	**List Price, 26.50**

THE STANDARD HRO — THE HRO JUNIOR



NATIONAL COMPANY, INC., MALDEN, MASS.

An engineering bulletin describing the above receivers in detail will be mailed on request.

NATIONAL *High Frequency* RECEIVERS



NC-100 RECEIVER

This receiver is a 12 tube superheterodyne covering the range of 540 KC to 30 MC. Except for the speaker, the NC-100 is self-contained in a table model cabinet which is readily adaptable to relay rack mounting by brackets supplied at a slight additional charge.

One stage of R.F. and two stages of I.F. are used. Low-loss insulation and high-Q coils give ample sensitivity and selectivity. The crystal filter built into the NC-100 X models, has variable selectivity and phasing controls. Separate R.F. and Audio Gain Controls permit complete control of the receiver. A 6E5 tuning indicator tube, with provision for signal strength measurement, provides an added convenience. Other controls are Tone, C.W. Oscillator, AVC with amplified and delayed action, a B+ switch, and a Phone Jack. A self-contained power supply provides all necessary voltages including speaker field excitation.

The range changing system is unique in that it combines the mechanical convenience of a coil switch with the electrical efficiency of plug-in coils. The coils are, in effect, automatically plugged in. A twist of the Range Selector Knob brings the desired set of coils into position and plugs them in. This mechanism is well supported by the PW Dial and Drive, direct reading to one part in 500. Station logging is consistent and calibration permanent.

A 10 tube — 6 volt battery model is available with a 10" permanent magnet type of dynamic speaker. This model differs from the A.C. model mainly in that the power supply is eliminated and only one output tube is used. Power output of A.C. model — 10 watts; Battery model — 2 watts.

NC-100 Receiver — complete with tubes and 10" speaker chassis.
A.C. Model. **List Price, $188.33**
Battery Model. **List Price, 172.50**

NC-100 X Receiver — same as NC-100 but with crystal filter.
A.C. Model. **List Price, $225.83**
Battery Model. **List Price, 210.00**

NC-100 S Receiver — same as NC-100 but with 12" Rola G-12 High Fidelity Speaker.
A.C. Model only. **List Price, $210.83**

NC-100 XS Receiver — same as NC-100 X but with 12" Rola G-12 High Fidelity Speaker.
A.C. Model only. **List Price, $248.33**

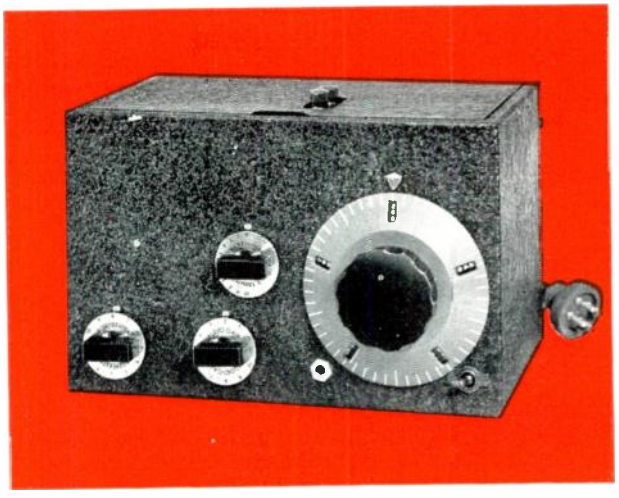
DCS Metal Cabinet for 10" speaker, same finish as receiver. **List Price, $8.50**

RRA Relay Rack Adapters, designed for mounting any of the above receivers in a standard relay rack. **List Price, per pair, $2.50**

NATIONAL COMPANY, INC., MALDEN, MASS.

An engineering bulletin describing the above receivers in detail will be mailed on request.

NATIONAL *Ultra High Frequency* RECEIVERS



ONE-TEN RECEIVER

The One-Ten Receiver fulfills the need of the experimenter for an adequate receiver to cover the immense and ever more valuable field between one and ten meters. Designed chiefly for the experimenter, this receiver has been engineered for maximum sensitivity, high signal-to-noise ratio, a wide frequency range, ease of operation and with particular consideration for the characteristics of experimental high frequency transmitters.

A four tube circuit is used, composed of one tuned R.F. stage, a self-quenching super-regenerative detector, transformer coupled to a first stage of audio which is a resistance coupled to a power output stage. Six sets of plug-in coils are used. The popular PW-0 drive and dial are employed as the main tuning control. Three small dials control detector regeneration, audio gain and alignment of the R.F. circuit. A "B+" switch and a head-phone jack are mounted on the front panel. Voltage dividers are built in, necessitating only one B voltage lead. The receiver is designed for operation from the National 5886 A B power unit. Batteries may be used if desired (Heater 6 volts, B supply 180 volts). Tubes required: 954-R.F.; 955-Detector; 6C5-1st Audio; 6F6-2nd Audio.

Tubes can be supplied at standard prices

Type 110 Receiver and 6 sets of coils, without tubes, speaker or power supply. **List Price, $65.00**

Type 5886 Power Supply for above receiver, less tube. **List Price, $26.50**

Shipping Weights: Receiver 16 lbs., Power Supply 17 lbs.

SW-3 High Frequency RECEIVER

The SW-3 Receivers employ a circuit consisting of one R.F. stage transformer coupled to a regenerative detector and one stage of impedance coupled audio. This circuit, as incorporated in the SW-3, with thorough shielding, grooved R-39 coil forms, Isolantite insulated condensers and tube sockets, etc., provides maximum sensitivity and flexibility with the smallest number of tubes and the least auxiliary equipment. The single tuning dial operates a precisely adjusted two gang condenser; the regeneration control is smooth and noiseless, with no backlash or fringe howl; the volume control is calibrated from one to nine in steps corresponding to the R scale, and is connected in the R.F. amplifier circuit; — the features all contribute to the efficiency and ease of operation so essential to equipment of this type.

The receiver especially suitable for installations where space is limited as in semi-portable or mobile stations, on yachts, etc.

Available in three models — ACSW-3 for AC operation — 6DCSW3 for 6 volt DC operation — 2DCSW3 for 2 volt DC operation. AC Models use "60" Series Coils. DC Models use "10" Series Coils.

Tubes required — 2 Volt AC Model; two 58, one 27 — 6 Volt DC Model; two 36, one 37 — 2 Volt DC; two 32, one 30.

SW-3, any model, without coils, phones, tubes or power supply. **List Price, $32.50**

Shipping weight 17 pounds

5880-AB Power Supply, 115 V, 60 cycle, without 80 Rectifier. **List Price, $26.50**

Shipping weight 18 pounds



General Coverage Coils

Catalog Number	*Range*	*List Price Per Pair*
10 or 60	9. to 15. meters	$5.00
11 or 61	13.5 to 25. meters	5.00
12 or 62	23. to 41. meters	5.00
13 or 63	40. to 70. meters	5.00
14 or 64	65. to 115. meters	5.00
15 or 65	115. to 200. meters	5.00
16 or 66	200. to 360. meters	5.50
17 or 67	350. to 550. meters	5.50

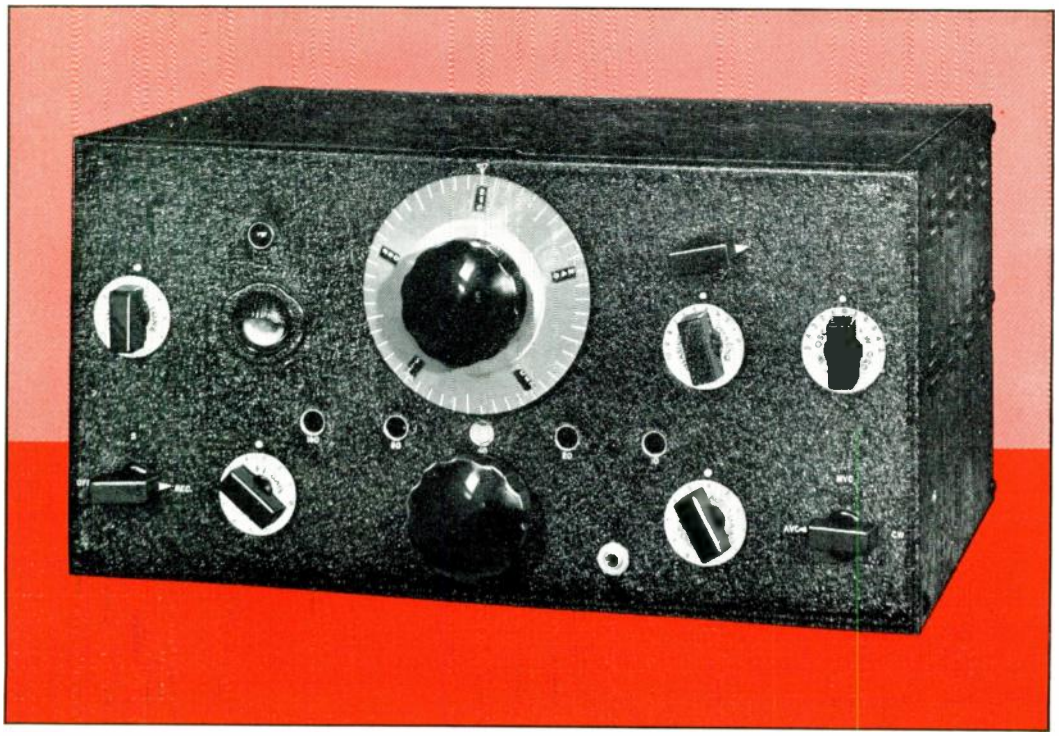
Five additional sets of coils are available to cover up to 3000 meters

Band Spread Coils

10A or 60A —	10 meter band $5.00
11A or 61A —	20 meter band 5.00
13A or 63A —	40 meter band 5.00
14A or 64A —	80 meter band 5.00
15A or 65A —	160 meter band 5.00

NATIONAL COMPANY, INC., MALDEN, MASS.

NATIONAL *High Frequency* RECEIVERS



NC-101 X RECEIVER

Built and designed strictly for the amateur bands, this receiver provides all the necessary features required by this highly specialized field.

Since only these relatively narrow bands are covered, more efficient coupling between high frequency stages is possible which results in greatly improved image ratio and performance at high frequencies over the conventional all-wave receiver. One R.F. and two I.F. stages are employed in the 12 tube circuit which includes the 6E5 tuning indicator tube. The Lamb Single Signal crystal is standard equipment. Separate controls are provided for Selectivity, Phasing, R.F. Gain, Audio Gain, Tone, C.W. Oscillator and AVC.

Quick band change is effected by the same unique coil shifting mechanism as used in the NC-100. Each of the five Amateur bands are spread over 400 divisions on the Dial of the ever-popular PW Condenser. Special S.F.L. condenser plates, double spaced, insure exceptionally low temperature drift. The receiver (self contained except for the speaker) may be readily converted for relay rack mounting with the brackets listed below.

A 10 tube — 6 volt battery model is available with a 10" permanent magnet type of dynamic speaker and differs from the A.C. model mainly in that the power supply is eliminated and only one output tube is used. Power output of A.C. model — 10 watts; Battery model — 2 watts.

FEATURES

- **FIVE BAND SPREAD RANGES**
  - **1.7– 2.0 Megacycles**
  - **3.5– 4.0 Megacycles**
  - **7.0– 7.3 Megacycles**
  - **14.0–14.4 Megacycles**
  - **28.0–30.0 Megacycles**
- **STRICTLY SINGLE CONTROL TUNING**
- **AUTOMATIC PLUG-IN COILS**
- **PERMANENT CALIBRATION**
- **MICROMETER DIAL**
- **TUNING INDICATOR**
- **AMPLIFIED, DELAYED AVC**
- **CRYSTAL FILTER**
- **C.W. OSCILLATOR**
- **TWO I.F. STAGES**

NC-101 X Receiver — complete with tubes and 10" speaker chass s.
A.C. Model. **List Price, $208.33**
Battery Model. **List Price, 192.50**

RRA Relay Rack Adapters designed for mounting any of the NC-101 X Receivers in a standard relay rack.
List Price, per pair, $2.50

DCS Metal Cabinet for 10" Speaker, same finish as receiver.
List Price, $8.50

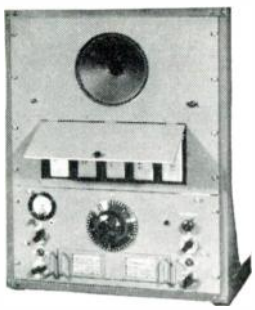
NATIONAL COMPANY, INC., MALDEN, MASS.

An engineering bulletin describing the above receivers in detail will be mailed on request.

RELAY RACKS, OSCILLOSCOPES, POWER UNITS

RELAY RACK UNITS

At the right is a Relay Rack assembly featuring the HRO (see pages 12 & 13). Above the receiver and mounted on one panel is the Combination Unit consisting of: 1, a coil rack for storing five HRO plug-in coils; 2, an 8" dynamic speaker of the permanent magnet type with an impedance matching transformer; 3, a power supply providing all necessary voltages for the HRO.



Type SPC Combination Unit — grey or black finish — less tube. **List Price, $87.50**

The three units described above may be obtained mounted on separate panels. For Power Supply — see Power Units below.

Type HCRP Coil Rack and 7" Panel. **List Price, $27.50**
Type RFS 8" Monitor Speaker and 8¼" Panel. **List Price, $30.00**

Blank 3/16" Aluminum Relay Rack Panels, finished in black leatherette or grey enamel are available in the following sizes:

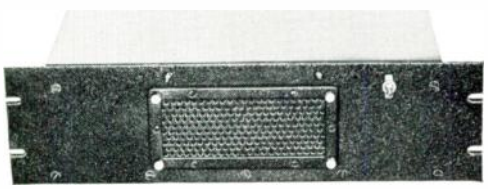
1¾" x 19"	**List Price, $3.25**
3½" x 19"	**List Price, 4.50**
5¼" x 19"	**List Price, 5.75**
7" x 19"	**List Price, 7.00**
8¾" x 19"	**List Price, 8.25**
10½" x 19"	**List Price, 9.50**

RELAY RACKS

These steel racks are drilled and tapped to accommodate, up to their capacities, standard relay rack panels of all sizes.

Type RR Relay Rack built to Government specifications — panel capacity 70⅛", black finish. **List Price $65.00**
Type MRR Table-model Relay Rack — panel capacity 24½", grey or black finish. **List Price, $22.50**

POWER PACKS



These Power Units have exceedingly low inherent hum as a double section filter, using high quality chokes and condensers, is employed. The transformer primary is shielded from other windings and "tunable hums" are eliminated by a built-in R.F. filter. These units are equipped with a receptacle for plugging in the power cable from the set and special filament windings compensate for power cable voltage drop. At the left is shown a rack-mount pack; at the right is a table-model pack.



Type GRSPU Single Pack for rack mount can be supplied with same characteristics as 5897, 5886 or 5880. **List Price, less tube, $49.50**

Type GRDPU Double Pack for rack mount, same characteristics as GRSPU but with two complete and separate power supplies built in. **List Price, less tubes, $79.50**

Type 5897 Table Pack — for 2½ volt tubes, 220 volts, 60 mils. **List Price, less tube, $26.50**

Type 5886 Table Pack — for 6 volt tubes, 180 volts, 35 mils. **List Price, less tube, $26.50**

Type 5880 Table Pack — for 2½ volt tubes, 180 volts, 35 mils. **List Price, less tube, $26.50**

Type 3580 General Purpose B Supply Pack provides three adjustable voltages (22 to 45, 45 to 90, 90 to 135) and 180 volts fixed (35 M.A.). **List Price, less tube, $16.50**

CATHODE RAY OSCILLOSCOPE

These Oscilloscopes give a graphic picture of operating conditions in your transmitter; such as percentage modulation, signal distortion and peak voltage. The units are self-contained, power supply and controls are built in. An audio signal from the transmitter is used as a linear sweep, as the trapezoid pattern thus obtained is more easily interpreted. The conventional linear sweep may be added at any time. A self contained 60 cycle sweep is provided. Two models are available. The larger type CRO is the preferred equipment for the amateur station, but the smaller type CRM will give excellent results where size and cost are important.



Type CRO Oscilloscope 3" Screen — shown at left measures 6" x 8" x 18".
List Price, less tubes, $29.50
Tubes required: One RCA-906, one 80.

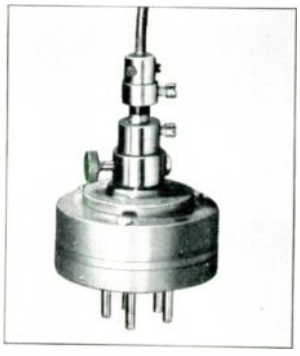
Type CRM Oscilloscope 1" Screen — shown at right measures 4⅛" x 6⅛" x 8".
List Price, less tubes, $18.50
Tubes required: One RCA-913, One 6X5.



NATIONAL COMPANY, INC., MALDEN, MASS.

PARTS

VARI-GAP CRYSTAL HOLDERS



This novel holder permits front-of-panel tuning of the crystal over a range of one part in 600 without loss in output. A controlled frequency range of 6 K.C. on the 80 meter band (and if doubling is used, 12 K.C. on the 40 meter band, 24 K.C. on the 20 meter band and etc.) can be expected of this holder when used with a 3550 K.C. Hollister special cut crystal.

The completely enclosed crystal holder is R-39 with 5 contact prongs molded in for handy plug-in socket mounting. All parts in contact with the crystal are chromium plated. A locking device is provided for fixed frequency operation. Altho not shown in the illustration, the holder is supplied with all parts necessary for front-of-panel control; including a six inch length of flexible shafting, connecting hubs, a 0–10 Dial and Knob, and a thru-panel bushing.

Only specially selected zero temperature coefficient crystals should be used for this application as some crystals will not oscillate satisfactorily under the conditions imposed. X and Y cut crystals cannot be used.

Type CHV (without crystal) **List Price, $9.50**

Type CHV (with 80 meter Hollister Crystal that will double into the 20 Meter Phone Band) **List Price, $32.50**

VERTICAL TYPE CRYSTAL HOLDERS





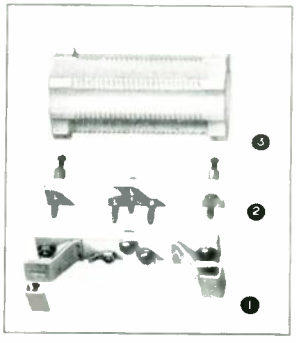
These holders mount the crystal in a vertical position and crystals may be changed readily. The metal cover is used for protection and shielding only. The holder body is R-39 with two prongs molded-in for easy plug-in mounting. The three models available are as follows:

Type CHR, Resonator type, for use in receivers.
List Price, less crystal, $2.50

Type CHS, Pressure-Constant Air Gap type, for use in transmitters.
List Price, less crystal, $2.50

Type CHT, Pressure type (no air gap), for use in transmitters.
List Price, less crystal, $2.50

PLUG-IN COIL FORM AND SOCKET



The new UR-10A Assembly consists of the XR-10A coil form (figure 3) for 20 and 40 meters and the new Isolantite Plug-in Base and Socket (figures 2 and 1 respectively). The Plug has five prongs and is easily attached by two screws to the Coil Form or may be used alone as a base for air wound coils. The socket, with five matching jacks, is supplied with special attachments for mounting directly on the tie bars of our TMA Transmitting Condenser.

Type UR-10A Coil Form Assembly	**List Price, $4.35**
Type XR-10A Coil Form only	**List Price, 1.50**
Type PB-15 Plug-in Base only	**List Price, 1.35**
Type XB-15 Socket only	**List Price, 1.75**



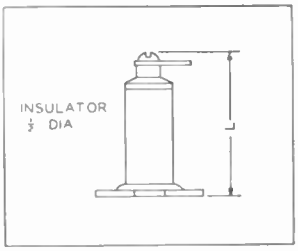
BUFFER COIL FORM AND SOCKET



At the left below is the Buffer Coil Form Assembly. The Isolantite Coil Form (drilled for leads) is 1¼" diameter x 3½" long and may be used as shown or mounted on stand-offs. The upper right figure is the molded R-39 coil plug with five tube prongs for easy wiring and plug-in mounting, designed to be easily attached by two screws to the Coil Form. The Coil Plug may also be used as a base for air-wound plug-in coils, the tube prongs serving as coil anchoring points. The lower right figure is the molded R-39 Socket employing five sturdy side-wipe contacts, three on one side and two on the other for symmetrical wiring of the buffer circuit.

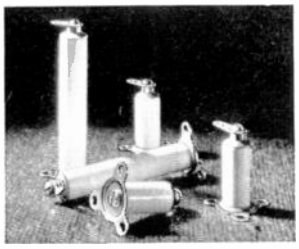
Type UR 13 Buffer Coil Form Assembly	**List Price, $2.25**
Type XR 13 Coil Form only	**List Price, 1.00**
Type PB 5 Plug only	**List Price, .75**
Type XB 5 Socket only	**List Price, .75**

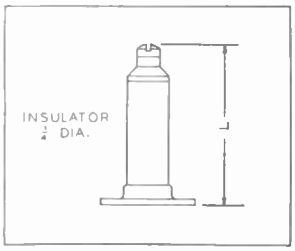
NATIONAL COMPANY, INC., MALDEN, MASS.



STAND-OFF INSULATOR. This well-known little insulator is now offered in two lengths. Long and slender, the larger model is shaped for extreme electrical efficiency. It is an excellent core for H.F. solenoid chokes. (Isolantite)

Type GS-1 (L = 1⅜") . . . **List Price, $ .25**
Type GS-2 (L = 2⅞") . . . **List Price, $ .35**

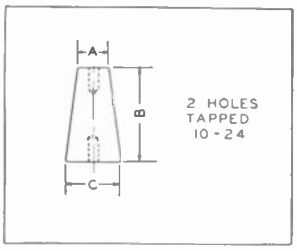




STAND-OFF INSULATOR. Metal mounted like the smaller units, these heavy Isolantite stand-offs combine electrical efficiency with strength and convenience. The insulator is ¾" diameter and is available in two lengths.

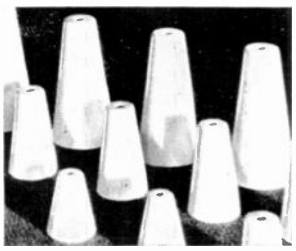
Type GS-3 (L = 2⅞") . . . **List Price, $ .80**
Type GS-4 (L = 4⅞") . . . **List Price, $1.00**

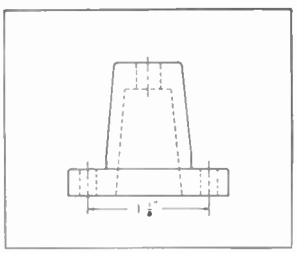




STAND-OFF INSULATOR. This popular style of insulator is offered in three sizes, all of low-loss Steatite. The smallest model is tapped 8-32 each end, the larger 10-24.

Type GS-5 (A = ½", B = 1¼", C = 1") . . . **List Price, $ .25**
Type GS-6 (A = ⅝", B = 2", C = 1⅛") . . . **List Price, $ .35**
Type GS-7 (A = ¾", B = 3", C = 1½") . . . **List Price, $ .65**

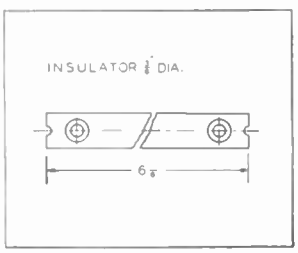




STAND-OFF INSULATOR. Another small insulator suitable for a variety of applications. Being made of Steatite, it is eminently suited for Low Loss H.F. circuits. It is available in a special model with a jack for mounting plug-in inductances.

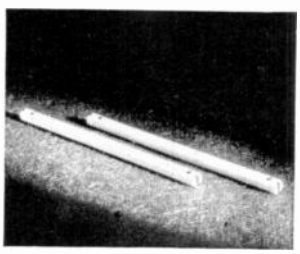
GS-8 . . . **List Price, $ .25**
GS-9 (with jack) . . . **List Price, $ .35**



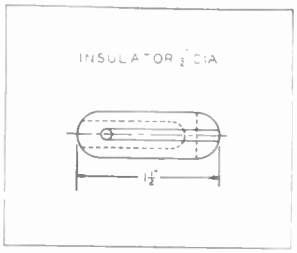


SPREADER: The unusual efficiency of these Steatite spreaders will more than justify their slight extra cost. The six inch line spacing when used with No. 12 wire will give feeders having a surge impedance of 600 ohms.

Type AA-3 **List Price, $. 30**

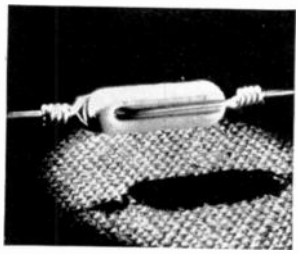


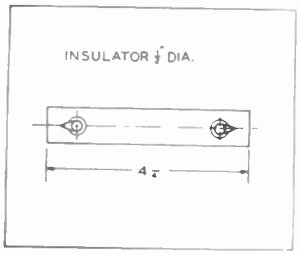
H. F. DIELECTRICS



STRAIN INSULATOR. This aircraft-type insulator, in spite of its short leakage path, has a variety of uses in small portable, mobile and police installations. Being loaded in compression, the insulator provides great mechanical strength.

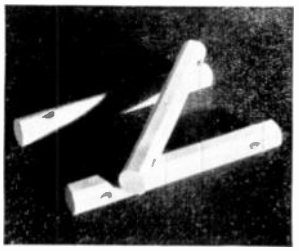
Type AA-5 . . . . . **List Price, $ .20**

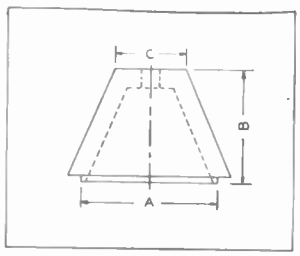




ANTENNA INSULATOR. This insulator is particularly suited for general use by the amateur. Its length provides ample leakage path, while its cross-section provides ample strength for all but the heaviest loads. The use of Steatite assures excellent electrical performance.

Type AA-6 . . . . . **List Price, $ .25**



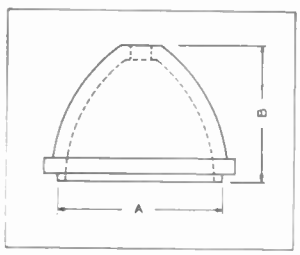


H.F. BUSHING. This small Steatite bushing has a variety of uses in transmitter construction, not only as a neat and efficient means of bringing H.F. leads through partitions, but as a support for coils, etc. Each pair of cones includes suitable metal fittings.

Type XS-1 (A = 1", B = 1 1/16")
per pair . . . . . **List Price, $ .60**

Type XS-2 (A = 1½", B = 1 3/16")
per pair . . . . . **List Price, $ .80**

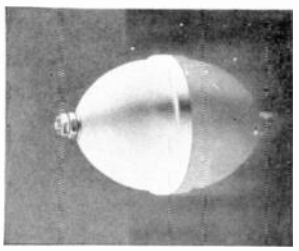


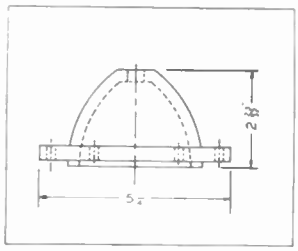


H.F. BUSHING. Larger in size than the bushings described above, and shaped to conform to the lines of electrical stress, these Steatite insulators are suitable for higher H.F. voltages. Prices are per pair, with metal fittings.

Type XS-3 (A = 2¾", B = 2 5/16")
List Price, $ 3.30

Type XS-4 (A = 3¾", B = 2 25/32")
List Price, $ 6.00

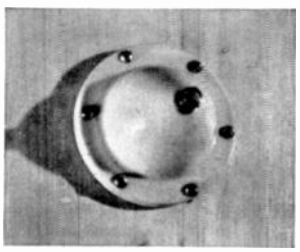




H.F. BUSHING. A heavy bowl-type lead-in, suitable for large transmitters, this Steatite insulator provides a weatherproof joint for antenna lead-in purposes. Leakage Path 3¼".

Type XS-5 each . . . . . **List Price, $ 7.50**

Type XS-5, with fittings, per pair
List Price, $15.50



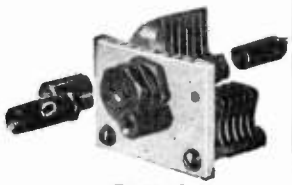
NATIONAL COMPANY
61 SHERMAN STREET MALDEN, MASS.

RP25M
1937

CARDWELL CONDENSERS

FOR EVERY POWER AND PURPOSE





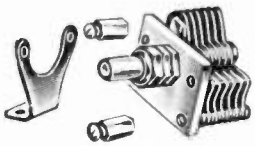
ZR-50-AS

TRIM-AIR MIDGET CONDENSERS

Type	Max. Cap.	Min. Cap.	Plate Edges	Number of Plates	Air Gap (In.)	Plate Thickness (In.)	Depth Behind Panel (In.)	Insulation	Amateur Net Price
ZR- 10-AS	10	1.2	Plain	3	.031	.020	3/4	Isolantite	$ .73
ZR- 15-AS	15	1.5	"	5	.031	.020	1 1/8	"	.73
ZR- 25-AS	25	2.0	"	7	.031	.020	1 3/8	"	.82
ZR- 35-AS	35	2.5	"	11	.031	.020	1 3/4	"	.88
ZR- 50-AS	50	2.8	"	13	.031	.020	1 7/8	"	.94
ZU- 75-AS	75	2.7	"	15	.020	.020	1 7/8	"	1.00
ZU-100-AS	100	3.0	"	19	.020	.020	1 7/8	"	1.03
ZU-140-AS*	140	5.0	"	27	.020	.020	1 7/8	"	1.85
ZT- 30-AS	30	4.0	"	17	.070	.020	2 1/8	"	1.09
ZS- 4-SS	4	1.5	Rounded	5	.150	.040	1 1/4	"	1.09
ZV- 5-TS†	5	1.8	Plain	3	.061	.040	1 5/8	"	.73

(†) Supplied with 2 segment stator, for 5 meter circuits. Extra plate also supplied, easily installed, makes it 3 plate as listed.

(*) Double bearing—two end plates.



TRIM-AIR AND ACCESSORIES

ACCESSORIES FOR TRIM-AIR MIDGET CONDENSERS

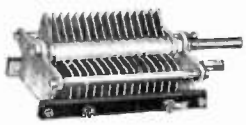
MOUNTING BRACKET, with two screws and nuts..... $ .06
EXTRA EXTENSION SHAFT (Used for ganging)—Plus setting nut..... .04
MOUNTING POSTS (one pair req'd per condenser, with screws and lockwashers..... .06



MT-50-GS

MIDWAY RECEIVING CONDENSERS

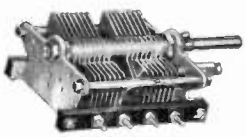
Type	Max. Cap.	Min. Cap.	Plate Edges	Number of Plates	Air Gap (In.)	Plate Thickness (In.)	Depth Behind Panel (In.)	Insulation	Amateur Net Price
MR- 25-BS	25	5.0	Plain	3	.031	.025	2 1/8	Radion	$1.35
MR- 50-BS	50	6.0	"	5	.031	.025	2 1/8	"	1.41
MR- 70-BS	70	7.0	"	7	.031	.025	2 1/8	"	1.50
MR-105-BS	105	8.0	"	11	.031	.025	2 1/8	"	1.56
MR-150-BS	150	9.5	"	15	.031	.025	2 9/16	"	1.62
MR-260-BS	260	11.0	"	25	.031	.025	3 5/8	"	1.65
MR-365-BS	365	13.5	"	35	.031	.025	3 5/8	"	1.94



MT-150-GS

MIDWAY TRANSMITTING CONDENSERS

MT- 20-GS	20	5.0	Rounded	5	.070	.025	2 1/8	Radion	$1.68
MT- 35-GS	35	6.0	"	7	.070	.025	2 1/8	"	1.82
MT- 50-GS	50	8.0	"	11	.070	.025	2 1/8	"	2.06
MT- 70-GS	70	10.0	"	15	.070	.025	3	"	2.32
MT-100-GS	100	12.0	"	21	.070	.025	3	"	2.59
MT-150-GS	150	16.0	"	31	.070	.025	4 1/2	"	3.23
MG-35-GS	35	12.0	"	15	.171	.040	4 1/2	Mycalex	3.53



MR-150-BD

MIDWAY DOUBLE CONDENSERS

Type	Max Cap. Per Sec.	Min. Cap. Per Sec	Plate Edges	Number of Plates Per Sec.	Air Gap (In.)	Plate Thickness (In.)	Depth Behind Panel (In.)	Insulation	Amateur Net Price
MR- 25-BD	25	4.5	Plain	3	.031	.025	2 1/8	Radion	$2.32
MR- 50-BD	50	5.5	"	5	.031	.025	3 1/8	"	2.47
MR- 70-BD	70	6.5	"	7	.031	.025	3 1/8	"	2.59
MR-100-BD	100	7.5	"	11	.031	.025	3 1/8	"	2.70
MR-150-BD	150	8.5	"	15	.031	.025	3 1/8	"	2.82
MR-260-BD	260	11.0	"	25	.031	.025	4 1/2	"	2.94
MO-180-BD	180	15.0	"	29	.050	.025	6 1/4	"	4.70
MT- 20-GD	23	5.5	Rounded	5	.070	.025	3 1/8	"	2.97
MT- 35-GD	35	7.0	"	7	.070	.025	3 1/8	"	3.23
MT- 50-GD	50	9.0	"	11	.070	.025	3 1/8	"	3.44
MT- 70-GD	70	10.0	"	15	.070	.025	4 1/2	"	3.82
MT-100-GD	100	13.0	"	21	.070	.025	6 1/4	Mycalex	4.70

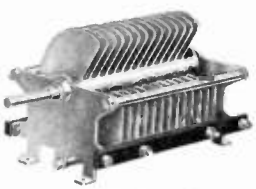
CARDWELL CONDENSERS

FOR EVERY POWER AND PURPOSE

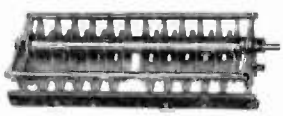




XC-100-XS



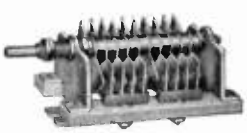
T-TYPE FRAME



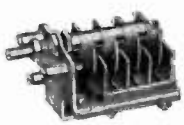
TZ-40-RD



VZ-5-RS



NP-35-GD



NA-14-NS

STANDARD TRANSMITTING CONDENSERS

Type	Max. Cap.	Min. Cap	Plate Edges	Number of Plates	Air Gap (In.)	Plate Thickness (In.)	Depth Behind Panel (In.)	Insulation	Amateur Net Price
XT-220-PS	220	20	Plain	21	.070	.025	4	Radion	$2.35
XT-440-PS	440	40	"	43	.070	.025	5¾	"	4.12
XP- 90-KS	90	16	Rounded	11	.084	.040	3	Mycalex	2.65
XP-165-KS	165	22	"	19	.084	.040	4	"	3.82
XP-290-KS	290	35	"	33	.084	.040	5¾	"	5.59
XP-330-KS	330	37	"	37	.084	.040	6½	Radion	5.88
XE-240-KS	240	30	"	33	.100	.040	6½	"	5.88
XG- 25-KS	25	8	"	5	.171	.040	3	"	1.76
XG- 50-KS	50	14½	"	11	.171	.040	4	"	3.53
XG-110-KS	110	26	"	23	.171	.040	6½	"	5.29
XK- 55-KS	55	19	"	15	.230	.040	5¾	Mycalex	5.88
XC- 18-XS	19	8.5	"	5	.200	.040	2½	"	3.23
XC- 40-XS	40	14½	"	11	.200	.040	4	"	4.41
XC- 65-XS	65	20	"	17	.200	.040	5¾	"	5.59
XC-100-XS	100	28	"	25	.200	.040	7⅜	"	6.76
TJ-150-US	150	28	"	15	.168	.050	5 13/16	"	13.52
TJ-315-US	315	31	"	31	.168	.050	9 5/32	"	18.82
TC-150-US	160	38	"	19	.200	.050	7¼	"	14.11
TC-200-US	200	40	"	23	.200	.050	8¼	"	16.46
TC-300-US	300	42	"	35	.200	.050	11¼	"	18.82
TL- 50-US	50	18	"	7	.294	.050	4 13/16	"	9.70
TL-100-US	100	26	"	15	.294	.050	7½	"	12.94
TL-160-US	160	40	"	25	.294	.050	11	"	17.64
TL-200-US	200	46	"	31	.294	.050	13⅛	"	19.40
TZ- 40-RS	40	15	"	11	.500	.050	8⅜	"	16.46
TZ- 80-RS	80	26	"	21	.500	.050	13⅝	"	23.23

STANDARD DOUBLE TRANSMITTING CONDENSERS

XR-500-PD	500	18	Plain	21	.030	.025	4	Radion	$3.53
XT- 80-PD	80	11	"	9	.070	.025	4	"	2.94
XT-210-PD	210	22	"	21	.070	.025	5¾	"	4.70
XP- 90-KD	95	15	Rounded	11	.084	.040	4½	Mycalex	4.41
XP-165-KD	165	23	"	19	.084	.040	6½	"	6.47
XP-325-KD	325	38	"	37	.084	.040	11¼	"	12.94
XE-240-KD	240	32	"	33	.100	.040	11¼	"	12.35
XG- 50-KD	50	14	"	11	.171	.040	6½	"	5.88
XG-110-KD	110	27	"	23	.171	.040	11¼	"	10.58
TJ-200-UD	200	30	"	21	.168	.050	12	"	21.17
XC- 40-XD	40	14	"	11	.200	.040	7⅜	"	7.64
XC- 75-XD	75	21½	"	19	.200	.040	11¼	"	10.00
TC-160-UD	160	38	"	19	.200	.050	12¼	"	20.00
TC-200-UD	200	40	"	23	.200	.050	14¼	"	22.34
TC-250-UD	250	40	"	29	.200	.050	17¼	"	24.70
TL- 50-UD	45	13	"	7	.294	.050	7	"	14.70
TL-100-UD	94	26	"	15	.294	.050	13	"	20.29
TL-160-UD	160	36	"	25	.294	.050	20¼	"	25.87
TZ- 40-RD	40	15	"	11	.500	.050	14⅞	"	25.28

Max. and Min. Cap. and Number of Plates are Per Section on Double Condensers

NEW ULTRA HIGH FREQUENCY DOUBLE TRANSMITTING CONDENSERS

NP-35-GD	35	5	Rounded	9	.084	.040	4⅛	Isolantite	$3.53
JD-28-GD*	28	5	"	11	.125	.040	6 5/8	Iso. & Myc.	9.55
JP-48-GD*	48	6	"	13	.084	.040	6 5/8	"	9.55

(*) Balanced type, Isolantite End Plates, 4 Mycalex Tie Bars—No metal frame. Designed for high frequency therapy machines.

HIGH FREQUENCY NEUTRALIZING CONDENSERS

VZ- 5-RS*	5	2	Rounded	2	.500	.050	4	Mycalex	$9.70
NA- 4-NS	4	2.5	"	2	Adj.	.040	1⅞	"	2.12
NA- 5-NS	5	2.8	"	3	.218	.040	1⅞	"	2.12
NA-14-NS	14	5	"	8	.218	.040	3 1/16	"	2.94

(*) Air Gap and Capacity adjustable, by movement of threaded rotor bushing.

TRANSMITTING AND SPECIAL PURPOSE TUBES

Type No.	Amateur's Net Price	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	3	125	Filament	10.0
830-B	10.00	Class B Modulator, R-F Power Amplifier, Oscillator	3	60	Filament	10.0
831	265.00	Oscillator, R-F Power Amplifier	3	400	Filament	11.0
840	6.00	R-F Pentode	5	....	Filament	2.0
834	12.50	R-F Power Amplifier and Oscillator	3	50	Filament	7.5
837	8.50	R-F Power Amplifier Pentode	5	12	Heater	12.6
838	16.00	Class B Modulator, R-F Power Amplifier, Oscillator	3	100	Filament	10.0
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	12	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	Phototube (High-Vacuum Type)	2	....	.....	....
920	7.00	Twin Phototube	4	....	.....	....
954	5.80	Detector, Amplifier Pentode (Acorn Type)	5	....	Heater	6.3
955	3.75	Amplifier Detector Oscillator (Acorn Type)	3	....	Heater	6.3
956	5.80	Super-Control R-F Pentode (Acorn Type)	5	....	Heater	6.3
991	.90	Voltage Regulator	2	....	.....	....
1602	2.75	Amplifier Triode (Low-Microphonic Type)	3	15	Filament	7.5
1603	2.25	Amplifier Pentode (Low-Microphonic Type)	5	....	Heater	6.3

Type No.	Amateur's Net Price	RECTIFIERS	Electrodes	Max. Peak Inverse Volts	Cathode Type	Cathode Volts
217-A	$20.00	Half-Wave, High-Vacuum	2	3500	Filament	10.0
217-C	20.00	Half-Wave, High-Vacuum	2	7500	Filament	10.0
836	11.50	Half-Wave, High-Vacuum	2	5000	Heater	2.5
866	1.75	Half-Wave, Mercury-Vapor	2	7500	Filament	2.5
866-A	4.00	Half-Wave, Mercury-Vapor	2	10000	Filament	2.5
872	14.00	Half-Wave, Mercury-Vapor	2	7500	Filament	5.0
872-A	16.50	Half-Wave, Mercury-Vapor	2	10000	Filament	5.0
878	11.00	Half-Wave, High-Vacuum for Cathode-Ray Tubes	2	20000	Filament	2.5
879	3.00	Half-Wave, High-Vacuum for Cathode-Ray Tubes	2	7500	Filament	2.5
885	2.00	Gas-Triode for Cathode-Ray Sweet-Circuit Control	3	300	Heater	2.5

Type No.	Amateur's Net Price	CATHODE-RAY TUBES	Electrodes	Max. Anode No. 2 Volts	Cathode Type	Cathode Volts
903	$97.50	9 in., Electromagnetic Deflection, High-Vacuum	5	7000	Heater	2.5
904	52.50	5 in., Electrostatic-Magnetic Deflection, High-Vacuum	5	4600	Heater	2.5
905	45.00	5 in., Electrostatic Deflection, High-Vacuum	4	2000	Heater	2.5
906	18.00	3 in., Electrostatic Deflection, High-Vacuum	4	1200	Heater	2.5
907	48.75	5 in., Electrostatic Deflection, High-Vacuum, Short Persistence Screen	4	2000	Heater	2.5
908	21.00	3 in., Electrostatic Deflection, High Vacuum, Short Persistence Screen	4	1200	Heater	2.5
909	49.00	5 in., Electrostatic Deflection, High-Vacuum, Long Persistence Screen	4	2000	Heater	2.5
910	21.25	3 in., Electrostatic Deflection, High-Vacuum, Long Persistence Screen	4	1200	Heater	2.5
911	22.50	3 in., Electrostatic Deflection, High-Vacuum (Electron gun of low-magnetic material)	4	1200	Heater	2.5
912	163.40	5 in., Electrostatic Deflection, High-Voltage, High-Vacuum	4	15000	Heater	2.5

Effective Oct. 12, 1936—Prices subject to change without notice.



RCA906



RCA801



RCA800



RCA802



RCA955



RCA852

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AMATEUR EQUIPMENT

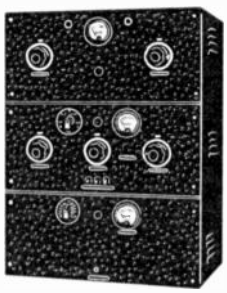
RCA 40-WATT C. W. AND PHONE AMATEUR TRANSMITTER

The complete transmitter consists of three units and a cabinet rack.

ACT-40-A ANTENNA UNIT, designed for use with a resonant transmission line, single-wire non-resonant line, current or voltage-fed antennas.

ACT-40-R R-F UNIT contains the complete Crystal-Controlled Oscillator, which employs an RCA-47 tube; the **Buffer-Doubler,** which consists of an RCA-802 R-F pentode in a conventional circuit; the **Power Amplifier,** which employs two RCA-801 Triode tubes in push-pull, and is capable of delivering 40-watts to the antenna; and the **Power Supply** which employs an RCA-83 Mercury-Vapor Rectifier Tube.

ACT-40-M MODULATOR UNIT contains the high-gain speech amplifier, driver, modulator and power supply circuits. The input stage uses an RCA-57 to work directly from a crystal or any other high-impedance microphone. This first stage is resistance coupled to the next stage which likewise employs an RCA-57. The audio drivers, using a pair of RCA-45 tubes in push-pull are fed by resistance coupling from the speech amplifier.



The power developed by the RCA-45 tubes serves to drive the RCA-801 modulator tubes in a Class "B" circuit. Modulation is High Quality, 100% high-level, plate modulation.

ACT-40-C CABINET RACK, housing the complete transmitter, has a durable black crinkle finish. Measures: 19" wide, 15" deep, 26¼" high.

ACT-40—C.W. Telegraph Only*	$150.50
ACT-40—C.W. Telegraph and Phone*	235.00
ACT-40-A—Antenna Unit	37.50
ACT-40-R—R-F Unit with Integral Power Supply	110.00
ACT-40-M—Modulator Unit with Integral Power Supply	84.50
ACT-40-C—Cabinet Rack	20.75
Extra Coils:	
Crystal Oscillator Coil	$1.50
Buffer-Doubler Coil	1.50
Final Amplifier Coil	7.50

All prices are amateur's net, f.o.b. factory and do not include accessories such as tubes, microphone, key, etc.

*Supplied with coils for one band only. Specify what band desired when placing order.

AMATEUR TRANSMITTER — 200 WATT PHONE — 260 WATT C-W TELEGRAPH

The ACT-200 represents a commercial type Amateur Transmitter, and is made available to the advanced amateur who desires the highest quality transmission, with increased power, at the lowest cost per watt output.

ACT-200-A ANTENNA UNIT employs the RCA "four-way network" circuit and may be used to feed almost any type of transmission line or antenna.

ACT-200-P POWER AMPLIFIER consists of a pair of RCA 838 Triodes in push-pull operating Class "C". Means have been provided for easy neutralization. Rated to deliver 260 watts output on C.W. and 200 watts ouput on phone. Excitation is derived from the ACT-40-R unit. Grid and plate current for tuning adjustments by means of an 0-500 D-C milliampere meter and selector switch. Coils are available in the 20, 40, 80 and 160 meter bands. An auxiliary winding for coupling to antenna circuit provided on final amplifier coils.

EXCITER: The R-F Exciter contains complete crystal-controlled Oscillator employing an RCA-47, Buffer/Doubler stage using an RCA-802 and the Intermediate Amplifier having a pair of RCA-801 tubes operating Class "C" and in push-pull. This unit provides the r-f excitation by means of "link-coupling" to the power amplifier stage. Plug-in coils for 20, 40, 80, 160 meter operation. The power supply is integral and employs an RCA-83 Mercury-vapor Rectifier Tube.

ACT-200-S POWER SUPPLY consists of four RCA-866 tubes in a full-wave rectifier circuit, equalizing reactors, bleeder, oil-immersed capacitor, plate transformer, filament transformer for all tubes except those on the exciter unit. This later transformer also has a high-voltage winding which furnishes, through an RCA 80 Rectifier Tube, the bias voltage for the final amplifier and pre-amplifier plate supply. A switch is provided to remove the high voltage from the Class "B" modulator and final r-f tubes. Another switch reduces the operating plate voltage to the final r-f stage and applies the plate voltage to the pre-amplifier for phone operation. This power supply unit delivers 600 milliamperes at 1250 or 1000 volts. The filament and plate transformers are tapped for 115-125 volt, 60 cycle a-c supply.

ACT-200-M MODULATOR consists of a driver stage using two RCA-45 tubes in push-pull and a modulator stage employing two RCA-838 zero-bias triode tubes operating Class "B". Input to driver stage is designed for use with a 500-ohm line from pre-amplifier. Driver stage is transformer coupled to grid of modulator tubes. An auto-transformer is used to couple output of modulator tubes to r-f load. Output of this transformer is designed for a 3300-ohm load such as is presented by the ACT-200-P Power Amplifier under normal operating conditions. A filter choke and capacitor for speech amplifier and driver stage plate-voltage supply is mounted on unit.



ACT-200-G PRE-AMPLIFIER uses two RCA-6C6 tubes in cascade and two RCA-76 tubes in push-pull. This unit is designed for use on the operating desk and is connected to the input of the modulator unit by a 500-ohm line. The power supply for this unit is obtained from the ACT-200-S power-supply unit.

CABINET RACK: The complete transmitter is housed in a neat metal Cabinet Rack, ACT-200-C, having a durable black crinkle finish. A full-sized rear door allows accessibility to the equipment for adjustments. A safety interlock is attached to the door, removing all high voltage from the circuits when the door is opened. The units are easily removed, being of standard rack design.

ACCESSORIES: Accessories necessary, but not supplied, for C. W. telegraph and telephone operation are as follows. Crystal and holder, telegraph key, standby switch, microphone. The following tubes are required: 2-RCA-801, 1-RCA-802, 4-RCA-838, 1-RCA-47, 1-RCA-83, 2-RCA-6C6, 2-RCA-76, 2-RCA-45, 1-RCA-80, 4-RCA-866.

GENERAL SPECIFICATIONS

Power Source	115/125 V. 50/60 cycles
Total—Power Consumption	900 watts at rated output for C-W 1400 watts for phone at 100% modulation
Rated—Power Output	260 watts (C-W), 200 watts (phone)
Modulation	High quality, high level, plate modulation
Cabinet dimensions	19" wide, 15" deep, 52" high
Weight	325 pounds—complete C-W and phone
ACT-200 C-W Telegraph Only*	Net $375.50
ACT-200 C-W Telegraph and Telephone*	475.00

*Supplied with coils for one band only. Specify band desired when placing order.

PRICES FOR INDIVIDUAL UNITS

ACT-200-A	Antenna Unit	Net $ 49.50
ACT-200-P	R-F Power-Amplifier Unit	99.50
ACT-40-R	R-F Unit with integral power supply	110.00
ACT-200-S	Power-Supply Unit	96 50
ACT-200-G	Pre-Amplifier Unit	27.50
ACT-200-M	Modulator Unit	99.50
ACT-200-C	Metal Cabinet	34.50
ACT-200	Transmitter Coils:	
	Crystal Oscillator Coil	1.50
	Buffer/Doubler Coil	1.50
	Intermediate Amplifier Coil	1.50
	Final Amplifier Grid Coil	1.50
	Final Amplifier Plate Coil	7.50

RCA AMATEUR COMMUNICATION RECEIVER ACR-175

The ACR-175 has been designed to meet the rigorous requirements of receiver performance necessary to maintain communication in the crowded popular amateur bands. An advanced degree of selectivity, sensitivity and ease of operation is now available at a popular price.

CIRCUIT: Superheterodyne, 460 KC., Iron-Core I.F. Transformer; crystal filter and a.v.c

TUBES: 3 6K7 R-F and I-F amplifiers; 2 6J7 oscillators; 1 6L7 first detector; 1 6H6 2nd detector and a.v.c ; 1 6F5 first audio; 1 6F6 audio output; 1 6E5 tuning and signal strength indicator; 1 5Z4 rectifier ALL METAL TUBES except 6E5.



TUNING FREQUENCY: 500 to 60,000 K.C. continuous in four ranges.

BAND CHANGING: By switch. Individual coils for each band.

CONTROLS: (1) Combined Power, Tone Control and Stand-By Switch; (2) Calibrated Signal-Input Control; (3) Selectivity (crystal phasing) Control; (4) a.v.c. "on-off" switch; (5) Dual-Ratio Vernier-Tuning Control; (6) Range Switch; (7) Audio Gain Control; (8) Beat Oscillator "on-off" switch (9) Calibrated Heterodyne Control.

NET Price, Complete with Tubes, Crystal and 8" Electro-dynamic Speaker **$119.50**

NEW RCA V-CUT CRYSTAL AND CERAMIC HOLDER



Temperature coefficient 2 cycles or less per million per degree Centigrade (between 10 and 60°). Accuracy of calibration .005%. Frequencies available from 3.5 to 4.0 M.C. Will be supplied within plus or minus 5 Kc. of frequency specified in this band, or your choice from stock. The ceramic holder uses the pressure-airgap principle. Pressure contact on sides allows free oscillation in center. Electrodes of nickel silver. Standard spring contact pins, ¾" spacing. Springs may be removed so holder fits 5-pin tube socket. Size 1½x3".

TMV-135-A—RCA V-Cut Crystal and Ceramic Holder—Amateurs' NET PRICE.. **$12.00**

Ceramic Holder Only. NET PRICE.....$2.50

ATR-219 TRANSCEIVER

A compact battery-operated transceiver for use in the amateur 56 to 60 megacycle band. Particularly desirable for portable and mobile voice communication service. Simplicity of installation and ease of operation are attractive features of this popular priced transceiver. 56 to 60 megacycles . . . Unity-Coupled Push-Pull Oscillator . . . Class B, 100% Modulation . . . Speech Amplifier to insure 100% Modulation . . . Super-regenerative Receiver Circuit . . . Self-quenched Detector . . . Output matches either headphones or magnetic speaker.



ATR-219 TRANSCEIVER (less Accessories: Antenna, Headphones, Microphone, Batteries and Tubes.) NET PRICE.. **$19.95**

NET

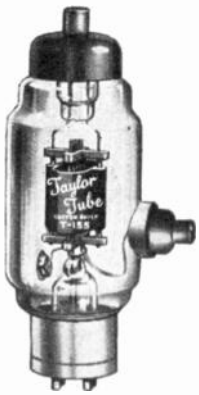
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Taylor HEAVY CUSTOM BUILT DUTY Tubes

"More Watts per Dollar!"

All Taylor Tubes (except 203B and Rectifiers) use the famous Heavy-Duty Heat-Proof Carbon Anodes. Taylor Carbon Anodes can be run at red heat without injury to filament emission. Taylor Tubes are conservatively rated and are thoroughly guaranteed. Each Taylor Custom Built Carbon Anode Tube is individually processed through each stage of manufacture, insuring uniformity, dependability and performance.

TAYLOR HIGH FREQUENCY TUBES



T-155

155 WATTS
PLATE DISSIPATION

High efficiency on all frequencies up to 2 meters

Fil. 10 volts—4 amps.
Plate 2000 volts—300 M. A.
or 3000 volts—200 M.A.
Amp. Factor—20
Grid to Plate—3 mmf.
Max. D.C. Grid Cur.—60 M.A.
Size—9" x 4⅛"
Plate Lead—Top
Grid Lead—Side

The Taylor T-155 is a high-power tube especially efficient as a Class C Amplifier on 5, 10 and 20 meters. The T-155 is very easy to drive and neutralize. The use of high resistance internal Insulators prevents misalignment of elements and adds a sturdiness not found in competitive tubes of this type. The T-155 represents a wonderful value.

Net Price

$19.50



T-55

The Fastest Selling Amateur Transmitting Tube

55 WATTS
PLATE DISSIPATION

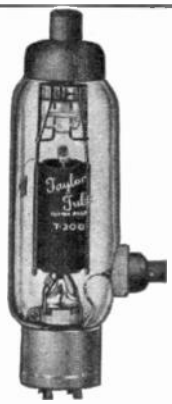
The T-55 is the ideal tube for medium Power Transmitters or Diathermy apparatus work on ultra High Frequencies.

Fil. 7.5 Volts—2 amps.
Plate 1500 volts—150 M.A.
Modulated
Amp. Factor—20
Grid to Plate—2.5 mmf.
Max. D.C. Grid Cur.—40 M.A.
Size—7" x 2⅝"
Isolantile UX Base
Plate Lead—Top

The T-55 is amateur Radio's Favorite Tube due to its outstanding value. Easy to drive—easy to neutralize. In addition to Class C Amplifier, the T-55 makes an ideal buffer or doubler tube for use in high power Transmitters.

Net Price

$8.00



T-200

HEAVY DUTY
200 WATTS
PLATE DISSIPATION

The T-200 is a Heavy-Duty High Frequency Tube. Compare the ratings on the T-200 with competitive tubes and you will discover why the Taylor T-200 is leading in sales.

Fil. 10 to 11 volts—4 amps.
Plate—unmodulated 2500 v.
modulated—2000 volts
—350 M.A.
Amp. Factor—17
Grid to Plate—7 mmf.
Max. D.C. Grid Cur.—80 M.A.
Size—9½" x 3¾"
Plate Lead—Top
Grid Lead—Side

The T-200 is widely used in high-power diathermy apparatus because it can stand up in Heavy Duty operation. The T-200 is the perfect tube for full 1 K.W. Phone Rigs on 20 meters. Easy to drive—Easy to neutralize!

Net Price

$21.50

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Taylor HEAVY CUSTOM BUILT DUTY Tubes

"More Watts per Dollar"

A TUBE FOR EVERY PURPOSE



TAYLOR T-20

20 Watts Plate Dissipation. Efficient performance on all bands from 5 to 160 meters. Fil. 7.5 Volts, 2 Amps. Plate 750 Volts. 75 M.A. Amp. Factor 20.

Net $2.45

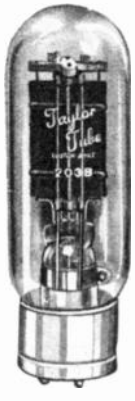


TAYLOR 203-A

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.

Amp. Factor 25

Net $12.50



TAYLOR 203B

Will work on all Standard 203A type Class B Transformers. 200 Watts Audio in Class B. Fil. 10 Volts, 3.25 Amps. Max. Plate Volts 1000. Max. Plate Current 175 M.A.

Amp. Factor 25

Net $7.50

Other TAYLOR Tubes

211 Same general characteristics as 203A except Mu. is lower.

Net $12.50

845 Standard Class A. Amplifier Tube.

Net $12.50

872 –Another famous Taylor Heavy Duty Rectifier Standard characteristics.

Net $12.00

TAYLOR TUBES ARE THOROUGHLY GUARANTEED!



TAYLOR 866

Half Wave mercury vapor rectifier. Fil. 2.5 Volts, 5 Amps. Inverse Peak 7500 Volts. Inverse Current 600 MA. *Multistrand filament construction.

Net $1.65

TAYLOR 866-B

Half Wave Mercury Vapor Rectifier. Fil. 5 Volts, 5 Amps. Inverse Peak Voltage 8500. Inverse Peak Current 1 Amp.

Net $3.00



TAYLOR 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.

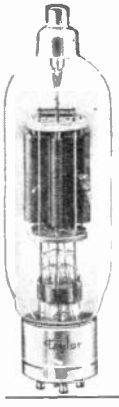
Amp. Factor 8

Net $4.95

756

40 Watts plate dissipation—Fil. 7.5 volts—2.0 amps., 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. Amp. Factor 25

Net $4.95



TAYLOR HD203-A

150 Watts Plate Dissipation. Fil. 10 volts. 4.0 amps. Max. Plate volts 2000. Max. Plate Current 300 M.A. Fine for both Class C. Amp. and Class B Audio Work. A favorite among many amateurs.

Amp. Factor 25

Net $17.50

WRITE US FOR TAYLOR TUBES NEW COMBINED CATALOG AND HAND BOOK FREE



TAYLOR 814

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.

Amp. Factor 12

Net $18.50



TAYLOR 822

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.

Amp. Factor 27

Net $18.50



TAYLOR 211-C

Widely used in Diathermy apparatus. Same general characteristics and appearance as standard 211 except has lower interelectrode capacities. Grid to Plate 9 mmf.

Amp. Factor 12

Net $12.50



TAYLOR 866 JR

Half Wave Mercury Vapor Rectifier for medium Voltages. Fil. 2.5 Volts, 2.5 Amps. Max. R.M.S. AC 1250 Volts. Max. D.C. current per pair (choke input) 250 M.A.

Net $1.00

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TRANSMITTING CONDENSERS — AEROVOX — TRANSMITTING RESISTORS

HIGH-VOLTAGE TRANSMITTING OIL-IMPREGNATED OIL-FILLED CONDENSERS



Round Can
Type 1005—1000 V. D.C.
Type 1505—1500 V. D.C.
Type 2005—2000 V. D.C.



Square Can
Type 608—600 V. D.C.
Type 1008—1000 V. D.C.
Type 1508—1500 V. D.C.
Type 2008—2000 V. D.C.
Type 2508—2500 V. D.C.

Aerovox oil-filled, oil-impregnated, transmitting condensers in sturdy metal cans, either round or rectangular, are designed for that extra measure of dependable service and longer life.

Here is honest quality—inside as well as out. Inside, a thorough engineering job, based on long experience. Round can type includes special reinforcement in the winding process, relieving undue strain and providing added assurance of trouble-free service. Sections in square cans are reinforced with special clamp.

Oil-Impregnated Oil-Filled Condensers in Round Aluminum Cans

Cap. Mfds.	Size-Ins. Dia.-High	Net Price
Type 1005-1000v		
1	2 x 5¼	$1.62
2	2 x 5¼	2.01
4	2½ x 5⅛	2.91
Type 1505-1500v		
1	2 x 5¼	1.71
2	2½ x 5⅛	2.34
Type 2005-2000v		
1	2 x 5¼	2.13
2	2½ x 5⅛	2.85

Mounting rings furnished with all round can units.

Oil-Impregnated Oil-Filled Condensers in Square Metal Cans

Cap. Mfds.	Size-Ins. D. W. L.	Net Price
Type 608-600v		
1	3½x3½x1 $\frac{5}{16}$	$1.65
2	3½x3½x1¾	2.10
4	3½x3½x1⅝	2.70
Type 1008-1000v		
1	3½x3½x1 $\frac{5}{16}$	1.80
2	3½x3½x1¾	2.70
4	3½x3½x2 $\frac{3}{16}$	3.60
Type 1508-1500v		
1	3½x3½x1 $\frac{7}{8}$	2.25
2	3½x3½x2	3.75
4	3⅛x4⅞x2 $\frac{1}{16}$	5.40
Type 2008-2000v		
1	3½x3½x1 $\frac{7}{8}$	3.15
2	3¼x4⅞x1 $\frac{1}{4}$	4.20
4	3⅛x4⅞x3⅛	6.60
Type 2508-2500v		
1	3⅛x4⅞x3	5.40
2	3⅛x4⅞x4½	8.25

AEROVOX "Slideohm" RESISTORS

Wire-Wound
Vitreous-Enameled
100 and 200 Watts



High voltage resistors for use as bleeders or voltage dividers in transmitters. Wire wound with vitreous enamel coating. Ends of wire brazed to terminals. Conservatively rated. All units furnished with horizontal mounting brackets.

Type 957—100 Watts
Sizes ⅞ x 6½ inches.

Resistance Ohms	Net Price
1000	$1.20
2000	1.20
3000	1.20
4000	1.20
5000	1.20
6000	1.35
7500	1.35
10000	1.35
15000	1.35
20000	1.35
25000	1.35
30000	1.50
40000	1.50
50000	1.50
60000	1.65
75000	1.65
100000	1.65

Extra Slider Bands .09 each

Type 958—200 Watts
Size 1⅛ x 8½ inches.

Resistance Ohms	Net Price
1000	$1.80
2500	1.80
5000	1.80
10000	1.80
20000	2.10
25000	2.10
30000	2.10
35000	2.10
50000	2.10
60000	2.10
80000	2.10
100000	2.10

Extra Slider Bands — .09 each

Other Aerovox resistors of this type in 30, 50 and 75 watt ratings also available. Prices will be furnished upon request.

"PYROHM Junior" RESISTORS

Wire-Wound and Vitreous-Enamel Coated

Genuine wire-wound vitreous-enamel resistors reduced to surprisingly compact dimensions. Just the thing for space-saving assemblies, particularly for transmitters and short wave receivers.

Type 930—5 Watts
Size ¼"x1"
Resistances from 100 to 10,000 ohms.
21c Net

Type 931—10 Watts
Size ¼"x1¾"
Resistances from 100 to 30,000 ohms.
24c Net

Type 932—15 Watts
Size $\frac{7}{16}$"x2"
Resistances from 100 to 15,000 ohms.
30c Net
From 20,000 to 70,000 ohms.
39c Net

Type 933—20 Watts
Size $\frac{7}{16}$"x3"
Resistances from 100 to 15,000 ohms.
39c Net
From 20,000 to 75,000 ohms. **45c Net**
100,000 ohms. **60c Net**

With Leads 2" Long



BAKELITE CASE PAPER CONDENSERS

200 and 400 Volts D. C.



Mounted in attractive moulded bakelite cases, these units are ideal for use where a compact, high insulation resistance, non-inductive condenser is required. Bakelite case prevents leakage between the terminals and makes for neatness in a completed apparatus assembly. Widely used in experimental laboratory apparatus and amateur equipment.

Cap. Mfd.	Type 250 200 V.	Type 450 400 V.
.05	$ .39	$ .40
.1	.42	.48
.25	.45	.51
.5	.51	.72
1.0	.69	....

AEROVOX HIGH-VOLTAGE MICA CONDENSERS



Type 1455, 1456 and 1457



Types 1771, 1772 and 1773



Types 1881, 1882 and 1883

Cap. Mfd.	Type 1455 1000v. D.C.	Type 1456 2500v. D.C.	Type 1457 5000v. D.C.	Type 1771 1400v. D.C.	Type 1772 3500v. D.C.	Type 1773 7000v. D.C.	Type 1881 1400v. D.C.	Type 1882 3500v. D.C.	Type 1883 7000v. D.C.
				NET PRICES					
.00005	$ .21	$ .24	$ .42	$1.35	$1.80	$1.95	$3.00	$3.24	$3.60
.00007	.21	.24	.42	1.35	1.80	1.95	3.00	3.24	3.60
.000075	.21	.24	.42	1.35	1.80	1.95	3.00	3.24	3.60
.0001	.21	.24	.42	1.35	1.80	1.95	3.00	3.24	3.60
.0002	.21	.24	.54	1.35	1.80	2.16	3.00	3.24	3.75
.00025	.21	.24	.54	1.35	1.80	2.25	3.00	3.24	3.84
.00037	.21	.24	.66	1.41	1.86	2.55	3.00	3.30	3.84
.0005	.21	.24	.75	1.41	1.86	2.55	3.00	3.30	4.20
.001	.24	.45	.90	1.47	2.10	3.00	3.00	3.60	4.80
.0015	.27	.51	1.17	1.53	2.25	3.60	3.06	3.90	5.40
.002	.27	.57	1.35	1.59	2.55	4.20	3.12	4.20	5.70
.0025	.30	.66	....	1.65	2.55	4.80	3.18	4.50	6.30
.003	.33	.72	....	1.71	3.00	....	3.24	4.80	....
.004	.33	.90	....	1.80	3.45	....	3.30	5.10	....
.005	.33	.90	....	1.86	3.75	....	3.36	5.40	....
.006	.39	1.02	....	1.92	4.05	....	3.42	5.70	....
.008	.45	1.20	....	1.98	4.35	....	3.48	6.00	....
.01	.48	1.41	....	2.04	4.80	....	3.54	6.30	....
.015	.66	....	....	2.10	5.70	....	3.60	7.20	....
.02	.72	....	....	2.16	6.75	....	3.75	8.40	....
.025	.87	....	....	2.40	....	....	4.05	....	....
.03	1.02	....	....	2.52	....	....	4.20	....	....
.04	....	....	....	2.85	....	....	4.50	....	....
.05	....	....	....	3.00	....	....	4.80	....	....
.075	....	....	....	3.75	....	....	5.40	....	....
.1	....	....	....	4.50	....	....	6.00	....	....

Net

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AEROVOX PAPER and MICA CONDENSERS

"USE THE QUALITY STANDARD"

FOR AMATEUR TRANSMITTING AND RECEIVING APPARATUS

TUBULAR PAPER CONDENSERS



Aerovox cartridge condensers are especially desirable for use where high grade units are required at low cost. They are compact, non-inductively wound and sealed in wax impregnated paper tubes with wax filled ends for longer life and protection against moisture.

Cap. Mfd.	Type 484 400v	Type 684 600v	Type 1084 1000v
.001	$0.09	$0.09	$0.12
.002	.09	.09	.12
.003	.09	.09	.12
.004	.09	.09	.12
.005	.09	.09	.12
.006	.09	.09	.12
.008	.09	.09	.12
.01	.09	.09	.12
.015	.09	.11	.12
.02	.09	.11	.15
.03	.09	.11	.17
.04	.09	.12	.18
.05	.09	.12	.21
.06	.12	.14	.23
.075	.12	.14	.24
.1	.12	.15	.24
.15	.15	.18	....
.2	.15	.21	....
.25	.15	.21	....
.3	.18	.27	....
.4	.21	.30	....
.5	.21	.30	....
1.	.30	.30	....

UNCASED PAPER-WOUND CONDENSERS



For Replacement Use In Power Units

These uncased sections are in every respect the same sections used in standard Aerovox metal cased condensers. Non-inductively wound. High grade di-electric paper. Thoroughly impregnated with high melting point compound for protection against heat and moisture. Neatly shaped and wrapped in black varnished paper, ends sealed with pitch, and provided with insulated wire leads. 8 inches long. Ideal units for replacement sections in filter condenser blocks.

Type SU—Short Size Units

200 Volts D.C. Working		
.1	2x¾x¼	$0.18
.25	2x1x⅝	.21
.5	2x1x½	.27
1.0	2x1⅜x1⅛	.36
400 Volts D.C. Working		
1.	2x⅞	.21
.25	2x1	.24
.5	2x1⅛	.30
1.0	2x1⅞	.45
600 Volts D.C. Working		
.1	2x⅛	.24
.25	2x⅛	.30
.5	2x1⅛	.36
1000 Volts D.C. Working		
.1	2x1⅜x½	.36

Type MU—Medium Size Units

400 Volts D.C. Working		
1.0	3¼x1⅞x½	$0.45
2.0	3¼x1⅞x⅞	.69
600 Volts D.C. Working		
1.0	3¼x1⅞x1⅛	.54
2.0	3¼x1⅞x1⅝	.81

Type LU—Long Size Units

200 Volts D.C. Working		
2.0	4⅜x1⅞x½	$0.51
400 Volts D.C. Working		
1.0	4⅜x1½x⅞	.45
2.0	4⅜x1⅞x⅝	.69
600 Volts D.C. Working		
1.0	4⅜x1⅞x1⅛	.54
2.0	4⅜x1⅞x1	.81
4.0	4⅜x1⅞x1⅞	1.50
1000 Volts D.C. Working		
.25	4⅜x1⅛x1⅛	.45
1.0	4⅜x2¼x1	.90
2.0	4⅜x2¼x1⅞	1.50

MICA CONDENSERS Moulded in Bakelite



Type 1460

Popular type mica condenser. Size 1⅝"x⅝". Two soldering lug terminals. Test volts 900.

Cap. Mfd.	Net Price	Cap. Mfd.	Net Price
.00004	$0.09	.00025	$0.12
.00005	.09	.0005	.12
.0001	.09	.001	.15
.00015	.12	.002	.18
.0002	.12		

HIGH-VOLTAGE MICA CONDENSERS



Type 1450

High voltage. 1,000 volts D.C. test. 1¼" square.

Cap. Mfd.	Net Price	Cap. Mfd.	Net Price
.0001	$0.15	.003	$0.24
.0002	.15	.004	.27
.00025	.15	.005	.27
.00037	.15	.006	.33
.0005	.15	.01	.42
.001	.18	.02	.57
.002	.21		

AEROVOX HI-FARAD WET AND DRY ELECTROLYTIC CONDENSERS

COMPACT CARDBOARD BOX CONDENSERS



Convenient size dry condensers. Double section units provided with three leads, and triple section units with four leads, one of which is common negative.

Type PM5—525 Volts Surge Pk. 450 Volts D.C. Working

Single Section Units

Cap. Mfds.	Size-Ins. D. W. L.	Net Price
1	⅝x1⅛x2¼	$0.33
2	⅝x1¼x2¼	.39
4	¾x1⅜x2¼	.45
6	1⅛x1¼x2¼	.54
8	1 1/16x1⅛x2⅜	.57

Double Section Units

4-4	1¼x1¾x2⅝	$0.72
4-8	1¼x1¾x2⅝	.81
8-8	1 7/16x1½x3⅛	.90

Triple Section Units

4-4-4	1 9/16x1⅛x4⅛	$1.08
8-8-8	1½x1¼x3	1.32

INVERTED MOUNTING WET ELECTROLYTIC CONDENSERS

High capacity in minimum bulk, ability to take severe punishment, and complete elimination of certain draw-backs heretofore associated with this type, account for the popularity of Aerovox Wet Electrolytics. These units cost less than other types of electrolytics for given capacity, voltage rating and operating life. Ingenious and exclusive Aerovox vent provides instant escape of any gas pressure, yet effectively seals metal container against leakage of liquid electrolyte. Thus there is no seepage and corrosion to ruin a chassis or assembly, although at all times the condenser is fully vented.



Type WG5—500 Volts D.C.

Cap. Mfds.	Can Size Dia.—High	Net Price
4	1⅜x4¾	$0.70
6	1⅜x4¾	.85
8	1⅜x4¾	.95
12	1⅜x4¾	1.15
16	1⅜x4¾	1.35
20	1⅜x4¾	1.50
30	1⅜x4¾	1.80

Type WG350—350 Volts D.C.

Cap. Mfds.	Can Size Dia.—High	Net Price
8	1⅜x4¾	$0.90
16	1⅜x4¾	1.20
20	1⅜x4¾	1.35
40	1⅜x4¾	2.00

NOTE: We can supply any AEROVOX Electrolytic, Mica or Paper condenser not listed in this Catalog. Send for a complete AEROVOX Catalog.

INVERTED MOUNTING DRY CONDENSERS

These standard size, inverted units are furnished in either grounded negative mounting or insulated mounting. Ideal for use as filter units in transmitters or receivers.



Type G5—525v Surge Pk.—450v D.C. Working

GROUNDED MOUNTING

Cap. Mfds.	Size-Ins. Dia.-High	Net Price
4	1¾x2¾	$0.51
6	1¾x2¾	.60
8	1⅞x4¼	.63
10	1⅞x4¼	.75
12	1⅞x4¼	.84

INSULATED MOUNTING TYPE 1-5

2	1¾x1¾	$0.45
4	1⅞x2¾	.51
6	1⅞x2¾	.60
8	1⅞x4¼	.63
10	1⅞x4¼	.75
12	11⅞x4¼	.84
16	1⅞x5¼	.93

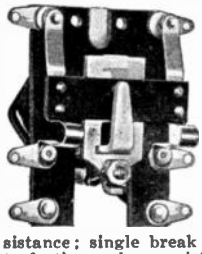
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DUNCO RELAYS FOR AMATEUR USE

"Dunco Means Dependability"

DUNCO RADIO RELAY

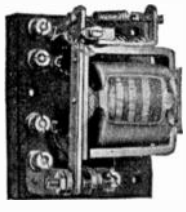


These relays have two isolated contacts for operation in low or high voltage circuits at any frequency. For the first time in an inexpensive relay, the two poles are sufficiently spaced and shielded from each other so that the amplifier input may be handled by one pole and the output from the same amplifier may be handled by the other pole without feed back. Similarly 60-cycle power currents may be handled by one pole and voice frequencies by the other without the introduction of hum. Outstanding features include: low contact resistance; single break contacts are used instead of double break to further reduce resistance; extremely fast operation suitable for bug keying; high voltage and current carrying and breaking capacity; resistance to vibration, making the relay suitable for use on autos, trains, planes, elevators, boats, etc.

Type	Operates on
RA-1	2.5 volts, 60 cycles, A.C.
RA-2	2.5 volts, 25 cycles, A.C.
RA-3	6.3 volts, 60 cycles, A.C.
RD-1	5 to 6 volts, D.C.

Any One Type, Net Price **$2.00**

DUNCO VACUUM TUBE RELAY



Relay type CXB51 is an ultra sensitive unit designed for direct current in the coil circuit and either direct or alternating current in the contact circuit. It has single pole, double throw contacts, making one circuit when the coil is energized and another circuit when the coil is de-energized. The coil has a resistance of 10,000 ohms and it will safely carry currents up to 18 milliamperes. Adjustments are provided that will cause the relay to operate on any desired current value down to one milliampere. This unit is particularly adapted to operation in the plate circuit of small vacuum tubes. Contacts are rated 2 amperes at 110 volts, A.C.

Size: 2⅞" High x 2¼" Wide x 2" Deep
Dunco Relay, Type CXB51

Net Price **$5.50**

DUNCO TIME DELAY RELAY



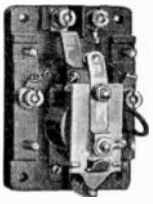


This time delay relay is provided with a snap-on housing and with panel mounting studs for back of panel connections. The input terminals should be connected across the primary of the filament transformer, and the output terminals to the primary of the plate transformer. Power will then be delivered to the plate transformer 30 seconds after the filaments are turned on, greatly increasing the life of tubes, particularly of the hot cathode mercury vapor type. This unit is suitable for use with plate transformers up to 500 watts capacity if the rectifier feeds directly into a condenser or up to 1,000 watts if a choke precedes the first condensers in the filter system.

Size: 3" High x 2⅛" Wide x 2-5/16" Deep
Including Cover
Dunco Relay, Type TD-96

Net Price **$8.80**

DUNCO MIDGET KEYING RELAY

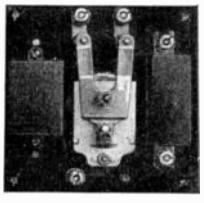


This midget keying relay is suitable for speeds up to 40 words per minute. Contacts are large fine silver buttons assuring long life and may be easily replaced. Coil consumes only 50 milliamperes at 110 volts, 60 cycles, while contacts will interrupt currents of 6 amperes at 110 volts, A.C. The unit is designed for mounting on vertical panel and is recommended for loads up to 660 watts. The contacts are single pole, and close when the coil is energized.

Size: 2¾" High x 1⅞" Wide x 1¾" Deep
Dunco Relay, Type ASBX1

Net Price **$3.85**

DUNCO TEMPERATURE CONTROL RELAY

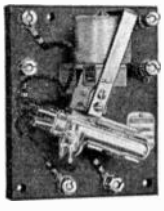


Dunco relay type CS-1022 has been developed for use in conjunction with mercury thermoregulators for accurate temperature control work. For operation on 110 volts, 60 cycles, it will properly control heater units up to 3,300 watts. The resonant circuit employed makes the relay extremely sensitive and resistors are used to limit the current in the thermoregulator to a safe value of about 12 milliamperes and to reduce arcing at the thermoregulator contacts. Relay is designed for vertical mounting.

Size: 5" High x 5" Wide x 3" Deep
Dunco Relay, Type CS-1022

Net Price **$11.00**

DUNCO REMOTE CONTROL RELAY



This power type relay handles loads up to 20 amperes at 220 volts, or 25 amperes at 110 volts. It is of particular service in remotely controlled transmitters, receivers, motors, or other loads of any nature within its rating. Provisions are made so that the mercury contact will make when the coil is energized and break when the coil is de-energized or vice versa. An outstanding feature is that it is completely silent in operation—no humming or chatter occurs when the coil is energized. Another outstanding feature is that due to mercury to mercury contacts there is no sticking or burning of contacts. Sturdy Pyrex enclosed contacts are employed. Standard coils are for operation on 110 volts, 60 cycles, but other coils are available. This unit is designed for vertical panel mounting.

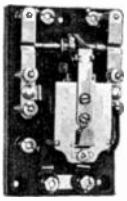
Size: 5" High x 4" Wide x 2⅝" Deep
Dunco Relay, Type CXH-1027

Net Price **$11.00**

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STANDARD DUNCO RELAYS

DUNCO RATCHET RELAY



Energizing the coil of this relay moves a pawl, engaging a rachet which moves cams to open or close the contacts. The contacts remain in the same position until the coil is de-energized and again energized. By factory adjustment of the cams the relay may be made single pole, double break ; double pole, single break ; or single pole, double throw, single break.

This relay may be used for applications where a number of operations must be performed in a given sequence.

Contacts are rated 20 amperes at 110 volts, A.C., non-inductive or ¼ h.p.

Size: 5" High x 3" Wide x 2¾" Deep

Dunco Relay, Type CX-464

Net Price **$16.50**

DUNCO POLARIZED RELAY



This Dunco relay is designed for operation where the direct current in the coils must be kept as low as possible and where a reversal of the current in the coils brings about a reversal in the position of the contacts, but where no contact is made when the coils are not energized.

The relay consists of a permanent magnet and two coils arranged to give a push pull effect on the armature carrying the moving contacts.

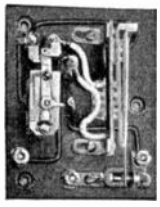
Contacts are rated 2 amperes at 110 volts, A.C., or ¼ ampere at 115 volts D.C., on non-inductive loads. Coil resistances up to 6000 ohms (3000 ohms in each coil are available and satisfactory operation can be secured with a power consumption as low as 1/100 watt, D.C.

Size: 5" High x 3" Wide x 2½" Deep

Dunco Relay, Type PM-101

Net Price **$16.50**

DUNCO TIME DELAY RELAY



This time delay relay is of the immediate recycling type and is compensated for changes in ambient temperature. The recycling feature is obtained by making use of both the heating and cooling times to make up the total time delay.

The timing is adjustable from 30 to 45 seconds (total).

Coil 110 Volts, 60 Cycles

Contacts 110 volts, A.C., 6 Amperes

Size: 5" High x 4" Wide x 1¾" Deep.

Dunco Relay, Type TD-97

Net Price **$12.38**

DUNCO POWER RELAYS



These relays are rated 30 amperes at 110 volts, A.C., or 4 amperes at 115 volts, D.C. (double break types are rated 6 amperes, D.C.) on non-inductive loads. Specify coil voltage and frequency when ordering:

Type	Contact Arrangement	Size	Net Price
ABYT8	SP DB front contact	4¼x3x2⅞	$6.60
ADBT8	DP SB front contact	4¼x3x2⅞	8.80
BBUK8	SP DB back contact	5 x3x3	8.80
BDBK8	DP SB back contact	5 x3x3	11.00
CBBP8	SP DB double throw	6¼x3x3	12.10
CDBP8	DP SB double throw	6¼x3x3	13.20

These relays may be furnished with any desired number of poles.

OTHER DUNCO MIDGET RELAYS

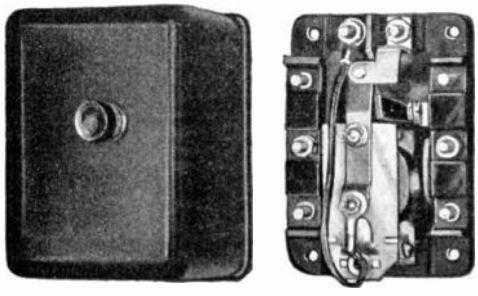
Contacts rated 6 amperes at 110 volts, A.C., 1 ampere at 115 volts, D.C. on non-inductive loads.

Coils up to 50 Volts D.C. or 135 Volts, 60 Cycles

Size: 2¾" High x 1⅞" Wide x 1⅞" Deep

Type	Contact Arrangement	Net Price
ABTX1	SP DB front contact	$3.85
ABTX1P	SP DB front contact with pigtail	4.40
ADBX1	DP SB front contact	4.95
BSBX1	SP SB back contact	3.85
CSBX1	SP SB double throw	4.68
CDBX1	DP SB double throw	6.60

DUNCO OVERLOAD RELAY



This overload relay is designed to pick up and open its contacts when the current in the coil is 5 amperes or more. When the armature picks up, the latch holds the contacts open, breaking the coil circuit. It is then necessary to trip the latch manually to reclose the contacts.

This relay may be used in any circuit where it is desirable to protect against overcurrent of 5 amperes. It is arranged for switchboard mounting with bakelite cover, mechanical latch, manual reset with the reset button extending through the cover.

Size: 3" High x 2⅛" Wide x 2-5/16" Deep

Dunco Relay, Type CS-1846

Net Price **$5.60**

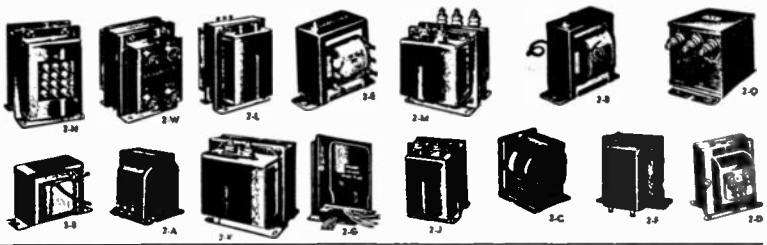
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Transmitter Transformers
Filament Transformers—Chokes

THORDARSON

Rugged heavy construction where it counts. "Power and then some." When you specify Thordarson transformers you insure yourself against shortweight heat producing transformers. The finest line of transmitting and filament transformers ever made. When you "Buy-Thordarson" you save money and get better results.

All Thordarson filter chokes are listed at measured inductances. Heavily insulated to fit service recommended.



AUTO TRANSFORMERS

For increasing or decreasing primary supply voltage. Tapped at 60 V., 80 V., 90 V., 100 V., 110 V., 120 V., 125 V.

Type No.	Capacity V. A.	H	W	D	Mtg. Fig.	Wt. Lbs.	Net Price
T-8211	500	6 1/2	4 1/2	7	2W	13	$ 6.00
T-8212	1000	6 7/8	5 1/2	7 1/4	2M	18 3/4	9.00
T-8213	2000	7 1/2	6 3/4	7 1/2	2M	36	12.00

INPUT CHOKES

These chokes are effectively designed to provide maximum inductance swing at economical cost, yet they sufficiently limit peak rectifier current. For use next to rectifier tubes in choke input filters, mainly in conjunction with mercury vapor rectifier tubes.

5 H. at 80 M. A.—7 H. at 0 m.a.—138 ohms—1600 volt ins.; 2B mtg.; 2"x2"x 2 3/8" high. Wt. 1 lb.
T-5751 ... Net $0.90

Same as T-5751 but 2F mounting.
T-5752 ... Net $1.05

4.2 H. at 120 M.A.—7.8 H. at 0 m.a.—160 ohms—1600 volt ins.; 2F mtg.; 2"x2"x 2 1/2" high. Wt. 1 lb.
T-4991 ... Net $0.81

9.5 H. at 110 M.A.—13.5 H. at 0 m.a.—200 ohms—1600 volt ins.; 2B mtg.; 2"x2 1/2"x 3" high. Wt. 1 3/4 lbs.
T-5753 ... Net $1.20

5 H. at 200 M.A.—10.6 H. at 0 m.a.—80 ohms—1600 volt ins.; 2F mtg.; 2 7/8"x3"x 3 1/2" high. Wt. 3 lbs.
T-6749 ... Net $1.95

Same as T-6749 but 2D mounting.
T-2353-A ... Net $2.10

10 H. at 150 M.A.—30.3 H. at 0 m.a.—200 ohms–2000 volt ins.; 2G mtg.; 3 1/2"x3 3/8"x4 5/8" high. Wt. 5 lbs.
T-7429 ... Net $2.85

12.9 H. at 250 M.A.—26.9 H. at 0 m.a.—121 ohms—1600 volt ins.; 2G mtg.; 3 3/4"x3 7/8"x5" high. Wt. 7 3/4 lbs.
T-7551 ... Net $3.60

Same as T-5753 but 2F mounting.
T-5754 ... Net $1.35

12.3 H. at 280 M.A.—38.4 H. at 0 m.a.—156 ohms—5000 volt ins.; 2J mtg.; 4"x4 1/4"x 6 1/4" high. Wt. 11 lbs.
T-6315 ... Net $5.10

10.4 H. at 380 m.a.—19 H. at 0 m.a.; 93 ohms; 5000 volt ins.; 2J mtg.; 4 3/4"x 5"x6 7/8" high. Wt. 18 lbs.
T-6406 ... Net $7.20

Same as T-7429 but 2D mounting.
T-6405 ... Net $3.80

25.6 H. at 400 m.a.—40 H. at 0 m.a.; 118 ohms; 3000 volt ins.; 2K mtg.; 6 1/4"x 6 7/8"x7 1/2" high. Wt. 33 lbs.
T-5517 ... Net $10.80

8.2 H. at 500 m.a.—17 H. at 0 m.a.; 70 ohms; 5000 volt ins.; 2J mtg.; 5"x 5 1/2"x6 7/8" high. Wt. 23 lbs.
T-6316 ... Net $8.40

8.5 H. at 650 m.a.—22 H. at 0 m.a.; 55 ohms; 5000 volt ins.; 2K mtg.; 6 3/4"x 6 3/4"x7 5/8" high. Wt. 25 lbs.
T-7216 ... Net $9.60

FILAMENT TRANSFORMERS

MULTIPLE SECONDARY

6.3 V. at 2.5 Amp. Tapped at 5 volts and 2.5 volts—1600 volt ins.; 2E mtg.; 2"x2 5/8"x2 1/4" high. Wt. 1 1/4 lbs.
T-6185 ... Net $1.20

7.5 V. at 2.5 and 7.5 V. at 2.5 Amp.—1600 volt ins.; 2E mtg.; 2 3/4"x3"x3 3/4" high. Wt. 3 1/4 lbs.
T-5466 ... Net $1.95

6.3 V. at 3 Amp.—2.5 at 3.5 Amp. and 5 V. at 3 Amp. (no CT)—1600 volt ins.; 2G mtg.; 3 1/4"x3 3/8"x 4 5/8" high. Wt. 4 1/2 lbs.
T-7984 ... Net $2.85

5 V. at 6 Amp. (no CT)—**2.5 V. at 14 Amp. and 2.5 V. at 3.5 Amp.**—1600 volt ins.; 2G mtg.; 3 3/4"x3 1/2"x 4 5/8" high. Wt. 5 lbs.
T-6094 ... Net $2.85

5 V. at 3 Amp. and 5 V. at 3 Amp. for dual 83 rect., etc.—3000 volt ins.; 2D mtg.; 2 7/8"x3"x3 1/4" high. Wt. 4 lbs.
T-7585 ... Net $3.30

5 V. at 3 Amp. and 2.5 V. at 10 Amp. for 83 and 866's, etc.—3000 volt ins.; 2N mtg.; 3 3/4" x3 3/4"x4" high. Wt. 5 lbs.
T-6421 ... Net $3.60

5 V. at 6 Amp.—5 V. at 3 Amp. and 5 V. at 3 Amp. for 83 bridge rectifier—5000 volt ins.; 2N mtg.; 3 3/4"x 4"x4" high. Wt. 6 lbs.
T-7046 ... Net $4.65

7.5 V. at 6.5 Amp.—7.5 V. at 4.5 Amp. and 2.5 V. at 4 Amp.—1600 volt ins.; 2N mtg.; 3 7/8"x4 1/4"x4 5/8" high. Wt. 8 lbs.
T-6417* ... Net $5.40

SINGLE SECONDARY

2.5 V. at 3.5 Amp. — 1600 volt ins.; 2B mtg.; 1 7/8"x2"x 2 3/8" high. Wt. 1 lb.
T-5061 Net $0.90

2.5 V. at 5 Amp. — 1600 volt ins.; 2E mtg.; 2"x 2"x 2 3/8" high. Wt. 1 lb.
T-5469 ... Net $1.20

2.5 V. at 10 Amp. — 1600 volt ins.; 2B mtg.; 2 3/4"x3"x 3 3/4" high. Wt. 3 lbs.
T-5455 ... Net $1.50

Same as T-5455 but 2D mtg.; 2 7/8"x3"x3 3/4" high. Wt. 3 1/2 lbs.
T-6432* ... Net $2.40

2.5 V. at 10 Amp. — 7500 volt ins.; 2D mtg.; 3 3/8"x3 3/4"x4" high. Wt. 5 lbs.
T-6433* ... Net $3.30

5 V. at 4 Amp. —1600 volt ins.; 2D mtg.; 2 1/2"x 3"x3 1/4" high. Wt. 2 1/2 lbs.
T-6399 ... Net $2.10

5.25 V. at 12 Amp. — 1600 volt ins.; 2D mtg.; 3 3/8"x3 1/2"x4" high. Wt. 5 lbs.
T-7423* ... Net $3.00

5.25 V. at 20 Amp. — 1600 volt ins.; 2D mtg.; 3 7/8"x3 1/2"x4 5/8" high. Wt. 6 lbs.
T-7424* ... Net $4.20

5 V. at 25 Amp.—10,000 volt ins.; 2M mtg.; 5 7/8"x6 1/4"x7 3/4" high. Wt. 19 lbs.
T-6420 ... Net $10.80

6.3 V. at 5 Amp. — 1600 volt ins.; 2D mtg.; 2 7/8"x3"x 3 1/4" high. Wt. 3 1/2 lbs.
T-7360* ... Net $2.25

7.5 V. at 2.5 Amp. — 1600 volt ins.; 2D mtg.; 2 1/2"x3"x 3 1/4" high. Wt. 2 1/2 lbs.
T-6413* ... Net $1.95

7.5 V. at 2.5 Amp. — 5000 volt ins.; 2D mtg.; 2 1/2"x3 3/8"x4" high. Wt. 4 1/2 lbs.
T-7525 ... Net $3.60

7.5 V. at 6.5 Amp. — 1600 volt ins.; 2D mtg.; 3 3/4"x3 5/8"x4" high. Wt. 5 lbs.
T-6435 ... Net $3.00

10 V. at 8 Amp. — 1600 volt ins.; 2D mtg.; 3 3/4"x3 5/8"x4" high. Wt. 5 lbs.
T-6414* ... Net $3.30

11 V. at 10 Amp. — 1600 volt ins.; 2D mtg.; 3 7/8"x4 1/4"x4 5/8" high. Wt. 8 lbs.
T-6415* ... Net $4.50

11 V. at 15.5 Amp.—1600 volt ins.; 2L mtg.; 4 1/2"x 4 1/2"x6 1/4" high. Wt. 13 lbs.
T-6419 ... Net $5.40

10 V. at 6.5 Amp.—10 V. at 3.25 Amp.—7.5 V. at 1.25 Amp. and 2.5 V. at 5 Amp.—1600 volt ins.; 2N mtg.; 4 1/2"x4 1/2"x6 1/4" high. Wt. 12 lbs.
T-6416* ... Net $6.90

2.5 V. at 10 Amp.—2.5 V. at 5 Amp. and 2.5 V. at 5 Amp. for 66 bridge rectifier—10,000 volt ins.; 2Q mtg.; 5 1/2"x 7 5/8"x 5 1/2" high. Wt. 15 lbs.
T-8514* ... Net $10.50

All primaries 115 volts 50-60 cycles except those marked with (*), which have primary taps of 105, 110 and 115 volts. All secondaries center trapped unless otherwise noted.

42 H. at 15 M.A.—2100 ohms—1600 v. ins.; 2B mtg.; 1 1/2"x2 3/8"x2" high. Wt. 3/4 lb.
T-7430 ... Net $0.80

22 H. at 35 M.A.—405 ohms—1600 v. ins.; 3B mtg.; 2"x2 5/8"x2 1/4" high. Wt. 1 1/4 lbs.
T-1892 ... Net $1.05

Same as T-1892 but 2F mtg.
T-6888 ... Net $1.20

10 H. at 75 M.A.—266 ohms—1600 v. ins.; 2C mtg.; 1 7/8"x2 1/8"x2 1/2" high. Wt. 1 1/4 lbs.
R-105 ... Net $1.05

12 H. at 75 M.A.—290 ohms—1600 v. ins.; 3B mtg.; 2"x2 5/8"x2 1/4" high. Wt. 1 1/4 lbs.
T-4707 ... Net $1.05

Same as T-6807 but 2A mtg.
R-196 ... Net $1.50

15 H. at 85 M.A.—375 ohms—1600 v. ins.; 2B mtg.; 2"x 2 1/2"x 3" high. Wt. 1 3/4 lbs.
T-6807 ... Net $1.20

12 H. at 80 M.A.—405 ohms—1600 v. ins.; 3B mtg.; 1 1/2"x2 3/8"x2" high. Wt. 3/4 lb.
T-4482 ... Net $0.81

Same as T-6807 but 2F mtg.
T-1607 ... Net $1.35

SMOOTHING CHOKES

For use as first choke with condenser input filter, or as second choke for choke input filters. Inductance is high enough for efficient filtering, while resistance is low as possible to allow good power supply regulation.

12 Henries at 130 M.A.—231 ohms—1600 volt insulation; 2F mounting; 2 7/8"x 3"x3 1/2" high. Weight 3 1/4 pounds.
T-1700B ... Net $1.95

7.2 H. at 120 M.A.—290 ohms—1600 v. ins.; 3B mtg.; 2"x2 3/8"x2" high. Wt. 1 lb.
T-7549 ... Net $0.81

23.6 H. at 280 M.A.—190 ohms—5000 v. ins.; 2J mtg.; 4 1/2"x4 1/2"x6 3/4" high. 13 lbs.
T-6408 ... Net $6.00

Same as 1700B but 2D mtg.
T-1700 ... Net $2.10

19.7 H. at 150 M.A.—275 ohms—2000 v. ins.; 2D mtg.; 3 7/8"x4"x4 1/2" high. 6 3/4 lbs.
T-6409 ... Net $3.30

12.9 H. at 250 M.A.—121 ohms—1600 v. ins.; 2B mtg.; 3"x 3 3/4"x4 5/8" high. 7 1/2 lbs.
T-5458 ... Net $3.00

Same as T-7549 but vertical mtg.; 2"x2"x 2 3/4" high.
T-5319 ... Net $0.81

20 H. at 380 M.A.—160 ohms—5000 v.; ins.; 2K mtg.; 6"x6 3/4"x7 5/8" high. 25 lbs.
T-6407 ... Net $9.60

16.5 H. at 500 M.A.—110 ohms—5000 v. ins.; 2K mtg.; 6 1/2"x6 3/4"x7 5/8" high. 27 lbs.
T-6410 ... Net $10.20

17 H. at 650 M.A.—70 ohms—5000 v. ins.; 2K mtg.; 6 3/4"x 8 1/2"x7 5/8" high. Wt. 40 lbs.
T-7215 ... Net $14.40

Complete Thordarson Amplifier and Power Transformers listed on pages J-27 to J-32 inclusive

THORDARSON Modulation Transformers
Plate Supply Transformers

OUTPUT MODULATION TRANSFORMERS

Thordarson modulation transformers are designed to reflect the correct plate load to the modulator tubes as specified by tube manufacturers. Primary and secondary windings are low resistance and will carry the rated current continuously. Secondaries are made to carry the plate current of the modulated stage; therefore, the cores are exceptionally large to prevent saturation. Only high grade mica is used for insulation, all windings are vacuum impregnated and the large types are sealed in compound.

Type No.	Tube Type	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D. C. Sec. M.A.	Max Audio Pwr. Watts	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-6769	1-19	B	10,000	2,700	50	10	2F	2 3/8	2	2	1	$ 1.65
T-6759	1-53-6A6-RK34	B	10,000	3,000	100	20	2F	3	2 1/2	2 1/2	2	1.80
T-8470	2-6L6 2-35T	AB B	3,800	2,500 5,000 7,500	250 200 150	75	2D	6 1/4	4 3/8	5 1/2	13	6.00
T-7202	2-2A3 2-45	AB AB	5,000	3,000 5,000	125	50	2D	5	4 1/8	4 3/4	5	3.90
T-6426	2-46 or 59 2-250	B AB	5,800	5,000 10,000	100	40	2D	4	3 3/8	3 3/8	5	3.60
T-6699	4-46 or 59 4-250	B AB	2,900	500-3,500 6,250	215	150	2Q	6 1/4	5 1/8	8	20	9.00
T-6425	2-210	B	8,000	5 or 10,000	200	40	2D	4 3/8	3 1/8	4 1/4	8	5.40
T-6424	2-203A-830-B 2-242A	B B	8,000	2,500 10,000	400 200	300	2Q	7 1/4	5 1/8	8 1/2	28	13.20
T-6735	4-203A-4-838	B	4,000	4, 6 or 8,000	500	650	2K	8	6 3/4	8	40	24.00
T-6430	2-204A	B	8,800	5,000	500	700	2P	12 3/4	9 1/4	7 3/8	85	75.00
T-6423	2-800 2-RK18-30-31	B B	12,500	5,000 20,000	200 100	150	2Q	6 1/4	5 1/8	8	20	9.00
T-7084	2-801 2-210 2-35T	B B B	10,000	4,500 6,250 12,500	200	150	2Q	6 1/4	5 1/8	8	20	9.00
T-8225	2-805 2-HD203A 2-822	B B B	8,000	4,000 6,000 8,000	500	650	2K	8	6 3/4	8	40	24.00
T-7511	2-838	B	10,000	2,500 10,000	400 200	300	2Q	7 1/4	5 1/8	8 1/2	28	13.20
T-8208	2-50T	B	6,000	5,000 20,000	200 100	150	2Q	6 1/4	5 3/4	8	20	9.00
T-8209	2-50T	B	20,000	2,500 10,000	400 200	300	2Q	7 1/4	5 3/4	9 1/2	22	14.40
T-8210	2-150T	B	11,000	4,000 9,000	500 330	650	2Q	9 3/4	7 3/8	7 1/8	38	24.00

GRID MODULATION TRANSFORMERS

Designed specially for suppressor or control grid modulation, these Transformers have low resistance secondaries—and vacuum impregnated coils.

Type No.	Modulator Tubes	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D.C. Pri. M.A.	Max. Audio Pwr. Watts	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-6773	1-46 or 59	A	6,300	5,400	32	10	2D	3	2 1/2	2 1/2	2	$ 2.40
T-6774	P.P. 45-2A3	AB	5,000	5,000	60	20	2D	3 1/2	2 1/2	3	3 1/2	3.00

DOUBLE SECONDARY TRANSFORMERS FOR PLATE AND SCREEN MODULATION OF PENTODES

Developed by Thordarson for more efficient modulation of pentode tubes, the double secondary transformers allow complete modulation without wasting a large percentage of the audio and D.C. power in screen resistors.

Type No.	Modulator Tubes	To Plate & Screen of	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. D.C. Sec. M.A.	Max. Audio Pwr. Watts	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-7994	42's or 2A5's Class AB	2-802	8000	5000 plate 800 screen	100 50	40	2G	4 3/8	3 3/8	3 1/2	5	$3.30
T-7861	46's or 59's Class B	1-RK20 or 1-804	5800	13300 plate 532 screen	75 40	40	2D	4	3 3/8	4 1/4	7	4.80
T-7826	801's Cl. B	2-RK20 or 2-804	10000	6600 plate 264 screen	150 120	100	2Q	6 1/4	5 1/8	8	20	9.60
T-7827	800's Cl. B	1-803 or 1-RK28	12500	13300 plate 2130 screen	150 100	200	2Q	7 1/4	5 1/8	8 1/2	28	13.20

MODULATION TRANSFORMERS FOR USE WITH P.A. AMPLIFIERS

Another Thordarson development which makes it possible to use any P. A. amplifier as a modulator, or the regular speech amplifier to modulate a low power stage for local contacts. This is particularly useful for 5 and 10 meter experiments.

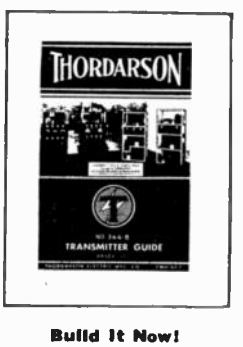
Type No.	Pri. Ohms	Secondary Ohms Load	Max. D.C. Sec. M.A.	Max. Watts	Mtg. Fig.	Dimensions H	Dimensions W	Dimensions D	Wt. Lbs.	Net Price
T-7352	500	5000-6000-7000-8000-9000-10000	215	80	2Q	6 1/4	5 1/2	8	20	$ 9.60
T-8322	500	5000-6000-7000-8000-9000-10000	150	30	2N	4 1/2	3 7/8	4 1/4	8	4.80

PLATE SUPPLY TRANSFORMERS—50-60 CYCLE PRIMARIES

Thordarson plate transformers are rated in D.C. voltages from a 2 section filter, including the voltage drop through the rectifier tubes. If chokes other than those specified in matched power supplies are used, the D.C. voltage may differ from the rating. This rating is for CONTINUOUS SERVICE and may be safely exceeded by as much as 20% in amateur installations where the service is intermittent. All plate transformers rated at 1000 volts D.C. or higher have electrostatic shield between primary and secondary.

Type No.	Sec. A.C. Load Volts	D.C. Volts	D.C. M.A.‡	Pri. Volts	Pri. V.A.	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.	Net Price
T-6280	725-0-725	525	150	110	125	2L	6 1/4	4 1/2	4 1/2	10 3/4	$ 5.40
T-7041	725-0-725	525	250	110	210	2L	6 1/4	4 1/2	5	15	6.00
T-5303	465-0-465	400	150	115	90	2G	5	3 1/2	4 1/2	7 1/4	4.20
T-8460	515-0-515	400§	250	115	190	2G	3 1/4	4 1/2	5	12	5.40
T-6095	545-0-545	450	250	115	140	2D	6 1/4	4 1/2	4 1/2	13 1/4	6.00
T-6257	750-0-750	625	200	115	180	2E	6 1/4	4 1/2	3 5/8	12 1/2	6.00
T-5448	800-0-800	680	150	115	130	2E	6 1/4	4 1/2	3 1/2	10 1/2	4.80
T-7127	800-0-800	600	250	110	240	2L	6 1/4	4 1/2	4 1/4	14 1/2	7.20
T-6412	980-0-980	750	350	110	400	2M	8	6 1/2	6 1/2	29 1/4	10.80
T-6411*	1600-0-1600 1290-0-1290	1250 1000	280	110	520	2M	8	6 3/4	7 1/2	36 1/4	13.80
T-7033*	1620-0-1620 1330-0-1330	1250 1000	500	110	900	2S	11	6 3/4	6 1/2	41 1/2	24.00
T-5489	1270-0-1270	1000	400	115	600	2M	8	6 1/4	6 1/2	32 3/4	13.20
T-6282	1335-0-1335	1000	500	110	750	2S	11	6 1/4	6 1/4	41 1/2	21.00
T-7351*	2275-0-2275 1950-0-1950	1750 1500	500	110	1300	2S	11	6 3/4	7 1/2	53	28.80
T-6283	2350-0-2350	2000	250	110-220†	740	2S	11	6 3/4	6 1/2	41	21.60
T-6284	2420-0-2420	2000	500	110-220†	1500	2S	11	6 3/4	8 3/4	71	33.60
T-6285	3630-0-3630	3000	380	110-220†	1750	2S	11	6 3/4	10	83	39.00
T-7584	710-0-710 710-0-710	525 525	150 150	115	250	2L	6 1/8	4 1/8	4 1/8	15	8.40

§Bias tap at 30 volts. *Variation in secondary voltages obtained by changing primary taps. †Primary for 110 or 220 volts, or 220 volt tap may be used on 110 volts to reduce sec. voltage 50%. ‡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. NOTE—All transformers 60% additional for 25 cycle primary. 30% Additional for 220 Volt, 50-60 cycle primary.



Build It Now!

Now is the time to build that transmitter. Send today for your copy of the Thordarson Transmitter Guide No. 344. Get on the air, with quality and punch, by using one of the many practical hookups shown. It costs you only 15c. Order your copy today. We can supply you.

BLILEY CRYSTAL UNITS

TYPE LD2 MOUNTED CRYSTAL

FOR THE 40, 80, 160 METER BANDS



The type LD2 amateur frequency crystal unit is a mounted, precision, low drift crystal for the 40, 80, or 160 meter amateur bands. The crystal is carefully cut from selected Brazilian Quartz, ground to exacting precision, accurately calibrated and rigidly tested. It possesses unusual activity and has a frequency drift of less than 4 cycles/MC./°C. The mounting is of low-loss molded Bakelite and the crystal is held under constant spring pressure between two stainless steel electrodes. The unit plugs into any standard 5 prong tube socket and may be mounted in any position.

Type LD2—Within 5 KC. of specified frequency or choice from dealer's stock ..... Net **$4.80**

Supplied to exact integral specified KC's. Net **$5.90**

TYPE BC3 MOUNTED CRYSTAL

FOR THE 40, 80 METER BANDS

Here is a moderately priced mounted X cut crystal for the 40 and 80 meter amateur bands. The crystal has been designed for maximum efficiency and is a powerful oscillator. It has a frequency drift of only 23 cycles/MC./°C. and is thoroughly reliable in every respect.

The one-piece molded Bakelite holder is designed to plug into a standard 5 prong tube socket and may be mounted in any position. The cover plate also serves as one crystal electrode. This aids in the dissipation of heat developed by the crystal in oscillating, thereby reducing actual frequency drift.

Type BC3—Within 5 KC. of specified frequency or choice from dealer's stock.

NET

$3.95

Supplied to exact integral specified KC's.

NET

$4.95



TYPE HF2 MOUNTED CRYSTAL

FOR THE 20 METER BAND



A mounted crystal designed especially for high frequency operation. The crystal is highly active, easily excited, and fully dependable. Frequency drift is only 20 cycles/MC./°C.

The complete units are supplied in the full range of 14.0 to 15 MC. for use in the 20 meter band (14.0-14.4 MC.) and also for frequency multiplying to the 10 and 5 meter bands. The mounting is molded Victron G, a material which has extremely low RF losses. The holder plugs into standard 5 prong tube sockets and may be mounted in any position.

Type HF2—14.0 to 14.4 MC., within 15 KC. of specified frequency ..... Net **$6.50**

Within 5 KC. of specified frequency ..... Net **$10.00**

14.4 to 15.0 MC., within 30 KC. of specified frequency ..... Net **$6.50**

Within 5 KC. of specified frequency ..... Net **$15.00**

TYPE CO6 CRYSTAL OVEN

FOR BLILEY HF2, BC3, LD2 UNITS

A compact temperature control unit designed for use with any standard Bliley type HF2, BC3, or LD2 unit where the addition of temperature control is desired for greater frequency stability. For this purpose, the type CO6 oven is ideal as circuit or transmitter changes are not usually required.

In application, the oven is connected by means of flexible wires to either a 6 or 7.5 V. source and is fitted over the crystal holder in the transmitter. The oven is held in position by friction and, because no clamps or screws are required, it can be readily removed and used for other Bliley Crystal Units as desired. The crystal temperature is maintained within a maximum variation of 2° C. from the preadjusted temperature of 50° C.



Type CO6

NET

$3.25

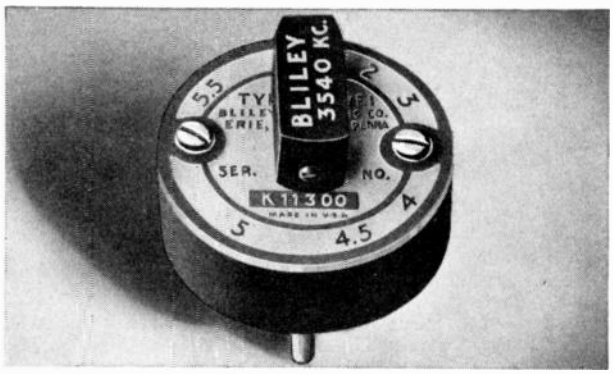
We can also supply Bliley General Communication Frequency Crystals and Mountings for any frequency from 20 KC. to 28 MC. Write regarding your requirements and we will quote promptly.

Copyright 1936 by U C.P. Inc.

BLILEY CRYSTAL UNITS

VARIABLE FREQUENCY CRYSTAL UNIT

TYPE VF1



Here, at last, is an amateur crystal control unit whose frequency can be changed at will. Engineered in the Bliley laboratories, this new unit fills a long felt need in amateur communication. Dependable in every respect and easily installed, the type VF1 unit is indispensable in any amateur station.

The Bliley type VF1 Variable Frequency Crystal Unit contains an 80 meter low drift crystal (drift under 4 cycles/MC./°C.) and provides positive frequency control without appreciable loss of activity or frequency stability. A mere twist of the control knob mounted directly on the holder will change the crystal frequency up to 6 KC., plus, from the fundamental frequency engraved on the crystal knob, 12 KC. when doubling, and 24 KC. when quadrupling to 20 meters. The power output of the type VF1 Unit at its minimum frequency is the same as any Bliley LD2 Unit, while at its maximum frequency the power output is decreased by not more than 20%. The specially designed Bakelite holder plugs into a standard 5 prong tube socket and may be mounted in any position.

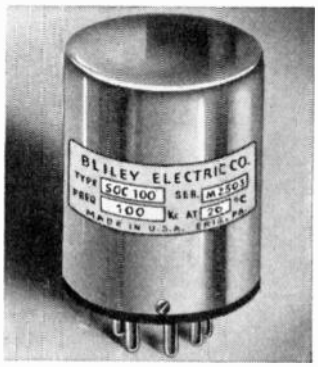
The **Type VF1 Unit** can be used to replace crystal units now in use, the only circuit change recommended being a slightly higher C to L ratio crystal tank than customarily employed. With the average transmitter, no change in tuning will be required over the entire adjustable range of the VF1 Unit.

VF1—Within 5 KC. of specified minimum frequency in the 80 meter band ..... Net **$8.00**

Minimum frequency at exact integral specified KC's. in the 80 meter band ..... Net **$10.00**

STANDARD FREQUENCY CRYSTAL UNIT

TYPE SOC100



A 100 KC. mounted crystal of high precision designed for use in frequency standards. This unit, in a simple circuit, provides reliable accuracy for calibration of frequency meters, test oscillators, radio receivers, or frequency measurements in general.

The rigidly mounted crystal has a frequency temperature coefficient of less than 3 cycles/MC./°C., which value is sufficiently low that temperature control is not necessary for general practice. Included in the aluminum shielded mounting is a tank coil of the proper characteristics for use with this crystal. The complete unit plugs into any standard 5 prong tube socket and may be mounted in any position. Full instructions furnished.

Type SOC100 ..... Net **$18.50**

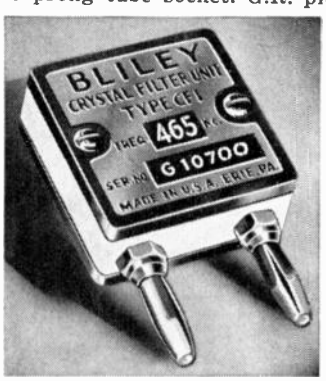
Type SOC100X—Mounted 100 KC. X cut bar, but less tank coil ..... Net **$9.50**

BLILEY CRYSTAL FILTER

TYPE CF1

A scientifically designed, mounted quartz filter crystal for use in the first I.F. stage of short wave receivers. This unit, properly connected into the circuit, makes possible an extremely high degree of selectivity.

Each crystal is ground for maximum efficiency and has no spurious responses within 7 KC. of the fundamental. The low-loss ceramic holder is normally supplied with tube pins for plugging into any standard 5 prong tube socket. G.R. plugs, ¾ inch on centers, are available if desired. Type CF1 units are supplied for I.F. frequencies of 456, 465, 500 and 525 KC. They are excellent for controlling oscillators used for radio set alignment or testing purposes.



Type CF1
NET
$5.50

We can also supply Bliley General Communication Frequency Crystals and Mountings for any frequency from 20 KC. to 28 MC. Write regarding your requirements and we will quote promptly.

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BLILEY CRYSTAL UNITS

TYPE LD2 MOUNTED CRYSTAL

FOR THE 40, 80, 160 METER BANDS



The type LD2 amateur frequency crystal unit is a mounted, precision, low drift crystal for the 40, 80, or 160 meter amateur bands. The crystal is carefully cut from selected Brazilian Quartz, ground to exacting precision, accurately calibrated and rigidly tested. It possesses unusual activity and has a frequency drift of less than 4 cycles/MC./°C. The mounting is of low-loss molded Bakelite and the crystal is held under constant spring pressure between two stainless steel electrodes. The unit plugs into any standard 5 prong tube socket and may be mounted in any position.

Type LD2—Within 5 KC. of specified frequency or choice from dealer's stock.....Net	$4.80
Supplied to exact integral specified KC's. ..Net	$5.90

TYPE BC3 MOUNTED CRYSTAL

FOR THE 40, 80 METER BANDS

Here is a moderately priced mounted X cut crystal for the 40 and 80 meter amateur bands. The crystal has been designed for maximum efficiency and is a powerful oscillator. It has a frequency drift of only 23 cycles/MC./°C. and is thoroughly reliable in every respect.

The one-piece molded Bakelite holder is designed to plug into a standard 5 prong tube socket and may be mounted in any position. The cover plate also serves as one crystal electrode. This aids in the dissipation of heat developed by the crystal in oscillating, thereby reducing actual frequency drift.



Type BC3—Within 5 KC. of specified frequency or choice from dealer's stock.

NET

$3.95

Supplied to exact integral specified KC's.

NET

$4.95

TYPE HF2 MOUNTED CRYSTAL

FOR THE 20 METER BAND



A mounted crystal designed especially for high frequency operation. The crystal is highly active, easily excited, and fully dependable. Frequency drift is only 20 cycles/MC./°C.

The complete units are supplied in the full range of 14.0 to 15 MC. for use in the 20 meter band (14.0-14.4 MC.) and also for frequency multiplying to the 10 and 5 meter bands. The mounting is molded Victron G, a material which has extremely low RF losses. The holder plugs into standard 5 prong tube sockets and may be mounted in any position.

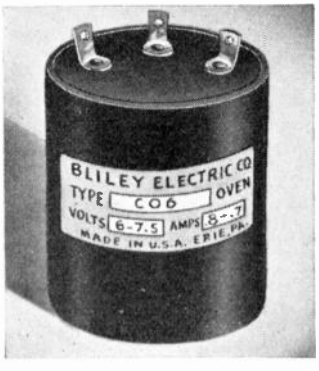
Type HF2—14.0 to 14.4 MC., within 15 KC. of specified frequency .....Net	$6.50
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14.4 to 15.0 MC., within 30 KC. of specified frequency .....Net	$6.50
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A compact temperature control unit designed for use with any standard Bliley type HF2, BC3, or LD2 unit where the addition of temperature control is desired for greater frequency stability. For this purpose, the type CO6 oven is ideal as circuit or transmitter changes are not usually required.

In application, the oven is connected by means of flexible wires to either a 6 or 7.5 V. source and is fitted over the crystal holder in the transmitter. The oven is held in position by friction and, because no clamps or screws are required, it can be readily removed and used for other Bliley Crystal Units as desired. The crystal temperature is maintained within a maximum variation of 2° C. from the preadjusted temperature of 50° C.



Type CO6

NET

$3.25

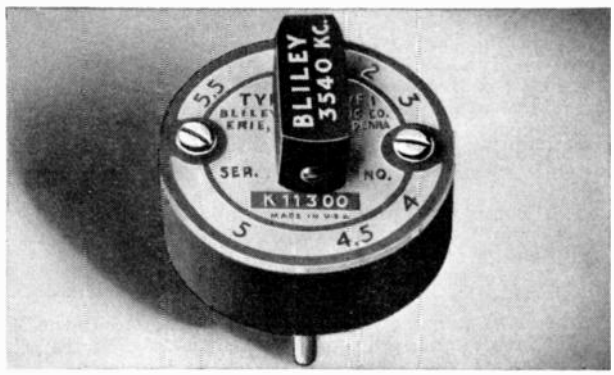
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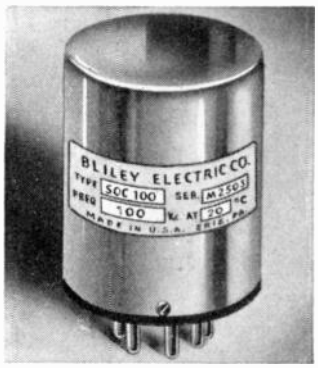
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Type CF1
NET
$5.50

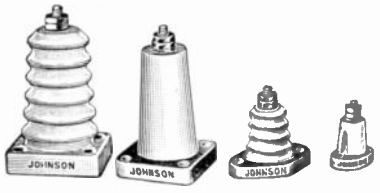
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E·F·JOHNSON·COMPANY

MANUFACTURERS OF *Radio Transmitting Equipment*

STAND-OFF INSULATORS



A B C D

The original Johnson Stand-Off Insulators are characterized by perfection of ceramic design, logical proportions and range of sizes, accuracy, and, most important, a very superior quality of porcelain and hardware. Styles B and C have unbreakable cadmium plated drawn steel bases and as usual mount in very little space. Jack types are available in most sizes.

Cat. No.	Body Height	Hardware	Style	Net Price
20	1 1/8"	10-32	D	$0.07
20J	1 1/8"	74 Jack	D	.09
22	1"	8-32	D	.05
22J	1"	74 Jack	D	.07
24	5/8"	6-32	D	.04½
60	4½"	¼-20	A	.39
62	2¾"	¼-20	A	.18
65	1⅜"	10-32	C	.12
65J	1⅜"	74 Jack	C	.15
66	2¼"	¼-20	B	.21
66J	2¾"	76 Jack	B	.33
67	4½"	¼-20	B	.33
67J	4½"	76 Jack	B	.45

THRU-PANEL INSULATORS



E



F

The carefully worked out line of Johnson Thru-Panel Insulators reflect the same qualities possessed by the Stand-Off types. Low absorption porcelain (highly important in R.F. circuits); smooth glazing; solid brass nickel plated hardware with milled nuts; cushion washers, flat, large area mounting surfaces; longer bottom sections with extended leakage path; soldering terminals on jack types—are features of Johnson design.

Cat. No.	Body Height Top	Bottom	Hardware	Net Price
40	1¼"	½"	10-32	$0.15
40J	1¼"	½"	74 Jack	.18
42	⅞"	⅜"	10-32	.12
42J	⅞"	⅜"	74 Jack	.15
44	5/8"	5/16"	6-32	.08½
45	1⅜"	11/16"	10-32	.18
45J	1⅜"	11/16"	74 Jack	.21
4576J	1⅜"	11/16"	76A Jack	.33
46	2¾"	1"	¼-20	.33
46J	2¾"	1"	76 Jack	.45
47	4½"	1½"	¼-20	.47
47J	4½"	1½"	76 Jack	.60

45, 45J, and 4576J are Style E, others Style F.

HANDLE INDICATORS



Highly attractive solid molded Bakelite controls which enhance the appearance of any equipment. "Window" design makes possible three separate scales if desired. No. 204 has 4" diameter etched scale with polished figures on black background, and fits ¼" shaft. No. 206 is similar, with 6" scale, fits ¼" shaft, and has removable bushing for ⅜" shaft.

	Net Price
No. 204—Handle Indicator	$0.60
No. 206—Handle Indicator	.75

TRANSMITTING TUBE SOCKETS



For many years the accepted "best" for mounting "UX" and "50 Watt" tubes, now also made for 5 prong tubes such as the RK28 and RCA803. All have a heavy polished nickel plated brass shell—a necessity for properly supporting transmitting tubes. Contacts are one piece, of heavy cadmium plated phosphor bronze, and make firm wiping side contact with the tube prongs. Connections may be soldered directly to contact springs. "FB" types are for vertical panel mounting and are enclosed in black finished cast aluminum cases. Bases are of fine quality low absorption porcelain.

Cat. No.	Type of Tube	Net Price
210	"UX" base	$0.60
210FB	"UX" base	1.50
211	"50 watt"	.90
211FB	"50 watt"	2.10
216	5 prong	1.50

"250 WATT" SOCKET SET



A new improved mounting for 204A, 849, and similarly based tubes. Plate terminal has "safety cup," preventing accidental displacement of the tube. White glazed low absorption porcelain bases.

	Net Price
No. 215—"250 Watt" Socket Set	$2.10

PLUGS AND JACKS

"BANANA SPRING" TYPE



74 75 75A 76 76A 77 77A

Johnson perfected design, nickel-silver springs, and high grade nickeled brass screw machine parts with accurate threads and milled nuts, result in superior plugs and jacks of this popular type. Studs extend full length of springs. 77A Plug has long screw for mounting on ceramic coil forms, etc.

Cat. No.	Length	Thread	Net Price
74 Jack	1 1/16"	¼-28	$0.03½
75 Plug	¾"*	6-32	.03½
75A Plug	¾"*	6-32	.03½
76 Jack	1⅜"	⅜-24	.15
76A Jack	1⅜"	¼-20	.15
77 Plug	1¼"*	¼-28	.12
77A Plug	1¼"*	10-32	.15

*Lengths do not include screw thread.

"SPRING SLEEVE" TYPE



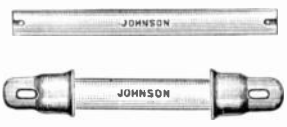
70 71 72 73 73A

A Johnson development, to solve the need for mechanically strong, low resistance plugs and jacks, having no "wobble." Made of brass, brightly nickeled, with phosphor bronze spring giving permanent tension and smooth action. Plugs will fit into copper tubing of same size as body, and have holes in threaded ends for soldering leads. 73A plug has long screw for mounting on ceramic coil forms, etc.

Cat. No.	Length*	Thread	Net Price
70 Jack	1½"	¼-20	$0.21
71 Plug	1¼"	¼-28	.07
72 Jack	1⅛"	10-32	.12
73 Plug	1"	10-32	.03½
73A Plug	1"	10-32	.03½

*Lengths do not include screw thread.

ANTENNA INSULATORS



107 112 120

151 152 153

These insulators are of genuine WET PROCESS porcelain with smooth white glazing. The all-porcelain types are 1" in diameter and will stand 1500 pounds pull. Their long leakage path, low capacity, and freedom from moisture absorption result in exceptional efficiency. The Commercial Type is 1½" in diameter for uses where much greater strength is necessary. The aluminum alloy fittings are non-corrosive.

Cat. No.	Lgth.	Net Price	Cat. No.	Length Net	Length Overall	Net Price
107	7"	$0.41	151	8"	15¼"	$4.20
112	12"	.53	152	12"	19¼"	5.10
120	20"	.88	153	18"	25¼"	7.20

STRAIN INSULATORS

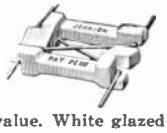




The No. 32 Airplane Strain Insulator is also very useful for light guys and receiving antennas. The new No. 38 "Cruciform" Strain Insulator is specially designed for R.F. applications, having low capacity, long leakage path, light weight. Both are 1½" long, of white glazed low absorption porcelain.

	Net Price
No. 32—Airplane Insulator	$0.04½
No. 38—Strain Insulator	.09

TRANSPOSITION INSULATORS



Much used for both receiving and transmitting feed lines. This original Johnson insulator simplifies installation, weighs very little, does not twist the line, and has high insulating value. White glazed low absorption porcelain.

	Net Price
No. 31—Transposition Insulator	$0.07

FEEDER SPREADERS

Every amateur transmitting and receiving need is supplied by these new 2", 4", and 6" feeder spreaders. ⅜" x ½" cross section, of white glazed low absorption porcelain.

No. 132—2" long. Net Price	$0.07
No. 134—4" long. Net Price	.09
No. 136—6" long. Net Price	.12
No. 146—6" heavy duty. Net Price	.24

ENAMELED COPPERWELD ANTENNA WIRE



Johnson Enameled Copperweld Antenna Wire is the ideal material for transmitting doublets, directional antenna systems, and other applications where the wire must not stretch nor s. g. It has a steel core, welded to a heavy copper exterior and enameled, combining high R.F. conductivity, freedom from corrosion, and almost three times the strength of ordinary enameled copper antenna wire. Supplied in 100, 150, 200, 500 and 1000 ft. coils, or in special lengths.

Cat. No.	B & S Ga.	Ft. per lb.	Strength	Net per 100 ft.
346	8	22	1700 lbs.	$2.40
348	10	34½	1130 lbs.	1.50
350	12	54	720 lbs.	.90
352	14	85	400 lbs.	.60

Note: See other side for ANTENNAS.

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E·F·JOHNSON·COMPANY

MANUFACTURERS OF *Radio Transmitting Equipment*



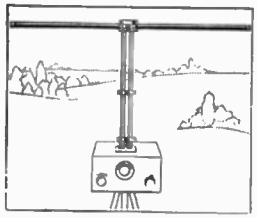
Type "Q" Antenna

TYPE "Q" ANTENNA

The Johnson Type "Q" Antenna has achieved outstanding success in high frequency transmitters throughout the world because of its high efficiency. The special quarter-wave tubing transformer accurately matches line and antenna impedances. Hence the Type "Q" will radiate TWICE as much power as the common unmatched antenna-feeder system.

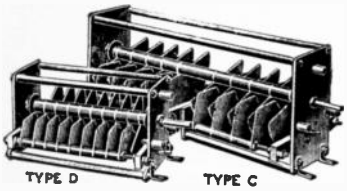
SPECIAL 5 METER "Q" ANTENNA

This special form of "Q" antenna for 5 meters is designed for convenient installation with fixed or portable transmitters. May be mounted directly on the transmitter case, or suspended in the air with a transmission line back to the equipment. The 5QM is a special model, Mycalex insulated in place of porcelain.



5 Meter "Q" Antenna

Catalog No.	5Q	5QM	10Q	20Q	40Q	80Q
Band (meters)	5	5	10	20	40	80
Your Net Price	$3.90	$5.70	$3.75	$5.94	$10.50	$19.65



TYPE D TYPE C

VARIABLE CONDENSERS

Johnson Condensers have been especially designed for high frequency transmitting—not merely adapted from receiving condenser parts. Careful engineering has made possible extreme values of capacity and plate spacing in comparatively small bulk. Heavy construction is used throughout—in the end plates, tie-rods, rotor and stator plates, spacers, insulation, bearings, contacts. Genuine MYCALEX and ALSIMAG 196 Ceramic insulation is used—both the finest money can buy—with long path from stator to frame. The most expensive condensers to manufacture, yet averaging with the lowest in price!

NOTE THESE UNUSUAL FEATURES!

Heaviest plates, edges smoothly rounded . . . **MYCALEX** and **ALSIMAG 196** insulation . . . **Long insulation paths,** few in number . . . **Large laminated rotor brushes** front and rear . . . **Adjustable bi-metallic cone bearings . . . Heavy tie rods** for ample protection and frame rigidity . . . **Large diameter shaft and spacers** properly located for stiffness of rotor and stator assemblies . . . **Shafts extended** both front and rear . . . **Insulated tie-rods** eliminating "short-circuit loops" . . . **High capacities and wider spacings** made possible by Johnson design.

GENERAL SPECIFICATIONS

Material: Aluminum. Plates .051" thick, edges rounded and polished; ends ⅛" thick; tie-rods, ¼" diameter; frame is satin etched finish.

Voltage Ratings: Approximate peak values.

Spacing	.060"	.080"	.175"	.250"	.350"	.500"
Voltage	2500	3500	7000	9000	11,000	13,000

Panel Space: Type "D," 4¼" wide x 4" high; Type "C," 5½" wide x 5⅜" high.

Catalog numbers bearing letters "D" or "DD" are type D condensers; those with "C" or "CD" are type C condensers.

SINGLE SECTION MODELS

Catalog Number	Plate Spacing	Cap. Mmf.*	Net Price
50D35	.080"	46	$3.90
100D35	.080"	100	4.35
150D35	.080"	150	4.80
250D35	.080"	250	5.70
350D35	.080"	350	6.60
500D35	.080"	500	7.95
50D70	.175"	50	4.50
100D70	.175"	100	5.70
150D70	.175"	150	6.90
250D70	.175"	250	9.30
350D70	.175"	350	11.85
500C70	.175"	500	12.60
50D90	.250"	50	5.40
100D90	.250"	100	6.60
150D90	.250"	150	7.80
250D90	.250"	250	10.20
350C90	.250"	350	12.36
50C110	.350"	50	5.40
100C110	.350"	100	7.08
250C110	.350"	250	12.48
50C130	.500"	50	5.94
100C130	.500"	100	8.46

DUAL SECTION MODELS

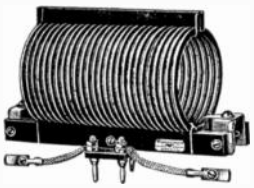
Number Catalog	Plate Spacing	Cap. Mmf.	Net Price
100DD35	.080"	100	$6.60
150DD35	.080"	150	7.50
200DD35	.080"	200	8.40
300DD35	.080"	300	10.20
70DD70	.175"	70	7.50
100DD70	.175"	100	8.85
150DD70	.175"	150	10.95
200DD70	.175"	200	13.20
50DD90	.250"	50	7.95
100DD90	.250"	100	10.35
200CD90	.250"	200	15.20
50CD110	.350"	50	8.22
100CD110	.350"	100	11.58
50CD130	.500"	50	9.33

*Capacities given in table are per section.

"HI-Q" INDUCTORS



Plug-in and stationary types of Hi-Q Transmitting Inductors are ideal for modern amateur transmitters. High electrical efficiency is secured by proper proportions, generous conductor size, and the use of excellent hard rubber insulation correctly applied. Johnson edgewise wound copper (nickel plated) produces inductors unequalled for compactness, rigidity, and ease of adjustment. The flat surface offers excellent contact to the LC4 Clips, which can be accurately placed and readily moved.



The Plug-in series so designed that all amateur bands from 10 to 160 meters may be covered with one variable condenser with a maximum capacity of 100 Mmf. They are equipped with two No. 77 and three No. 75 plugs (two of which attach to flexible leads and LC4 Clips for an integral coupling winding) and mount on two 4576J and three 40J Johnson Insulators.

IMPEDANCE MATCHING INDUCTORS

Inductors No. 610 and No. 611 (formerly 2402HL3 and 2202HL3), while useful for other purposes as well, are designed for use in "pi-section" impedance matching networks for amateur frequencies. For details ask for Johnson Bulletin 130.



INDUCTOR CLIPS

LC4 Inductor Clips should be used with all "Hi-Q" Inductors, since they offer practically zero contact resistance. Made of spring phosphor bronze, nickel plated, with tinned terminal. Should be ordered separately for all except plug-in inductors.

LC4 Inductor Clip, Net Price $0.12

Amateur Band Meters	Tuning Cap. Mmf.	Inductor** Single Unit	Inductor** Two Units
160	100	630	
160	100	620	622
160	200	622	
80	75	632	
80	50	622	624
80	100	624	626
80	200	626	
40	45	634	
40	25	624	626
40	50	626	628
40	120	628	
20	30	636	
20	15	626	628
20	30	628	
10	25	638	

Cat. No.	Mh.	Dimensions L x I.D.		Net Price
STATIONARY TYPES				
610	33	7¾"	2½"	$3.24
611	14	4"	2½"	2.16
620	88	9"	4"	4.05
622	44	6½"	3¼"	3.09
624	21	6"	3¼"	2.52
626	10	5"	2½"	2.10
628	4.4	4¾"	2½"	1.80
†619	20	3¼"	4"	2.05
†623	8.1	2¼"	3¼"	1.65
†627	2.2	1½"	2½"	1.44
PLUG-IN TYPES				
630	74	8"	4"	4.98
632	27	8"	3¼"	3.75
634	12	8"	2½"	3.30
636	4.3	8"	2"	3.06
638	1‡	8"	2"	3.88

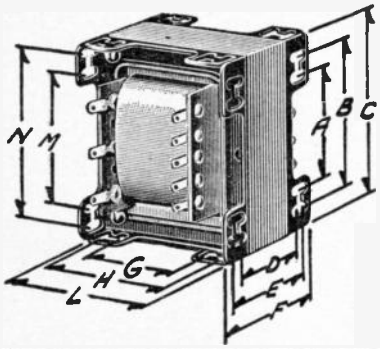
** "Two Units" refers to two coaxial inductors in series, usually with a coupling coil between, as in balanced tank circuits.
† Generally used as coupling coils with tank coils of like diameters.
‡ Variable by means of end clips.

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EXACT DUPLICATES STANCOR REPLACEMENTS POWER TRANSFORMERS

These universal power transformers may be adapted to a wide range of chassis specifications. The mountings are designed to take in a wide variety of mounting requirements. The transformers are available in semi-shielded or fully shielded units. The latter are provided with 2-fibre grommets through which the leads may be brought for wiring above the chassis. Packaged with planograph diagram including standard color code.

Universal Mounting Bracket Replacement Power Transformer

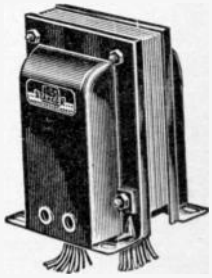


For 110 Volts, 50-60 Cycles — Bracket Dimensions

Trans	A	B	C	D	E	F	G	H	L	M	N
P-841, P-844, P-848, P-929, P-930	2 15/16	3 1/16	4 1/2	2 5/8	3 3/4	4 1/8	2 3/16	3 5/16	3 3/4	3 5/16	4 1/16
P-931	2 15/16	3 1/16	4 1/2	2 1/4	3 1/4	3 5/8	2 9/16	3 5/16	3 3/4	3 5/16	4 1/16

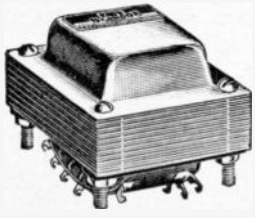
Cat. No.	Plate Volts Ma.	Fil. 1 Volts Amp.	Fil. 2 Volts Amp.	Fil. 3 Volts Amp.	Fil. 4 Volts Amp.	List Price
P-841	1200 ct 150	7½ ct 2½	7½ ct 2½	2½ ct 2	1½ ct 6.3	$6.90
P-844	1200 ct 150	7½ ct 2½	7½ ct 2½	2½ ct 10½	.....	6.95
P-848	570 ct 70	5 ct 3 or 2½ 3	5 ct ½	2½ ct 10½	.....	4.35
P-929	570 ct 70	5 ct 3 or 2½ 3	2½ ct 2	5 ct ½	1½ ct 6.3	3.60
P-930	700 ct 70	5 ct 3 or 2½ 3	2½ ct 1¾	2½ ct 8¾	.....	4.00
P-931	700 ct 110	5 ct 3 or 2½ 3	2½ ct 3½	2½ ct 12½	.....	5.15

The Famous Fully Shielded, Leads - on - Bottom Replacement Power Transformer



Cat. No.	Plate Volts	Plate Ma.	Fil. 1 Volts Amp.	Fil. 2 Volts Amp.	Fil. 3 Volts Amp.	Fil. 4 Volts Amp.	Fil. 5 Volts Amp.	List Price
P-1501	600	60	5 ct 3 or 2½ 3	1½ ct 1	1½ 4	2½ ct 4	5 ct ½	$4.40
P-1502	700	70	5 ct 3 or 2½ 3	2½ ct 1¾	2½ ct 9	.....	.....	5.00
P-1503	700	120	5 ct 3 or 2½ 3	1½ ct 1	1½ 5	2½ ct 4	2½ ct 3½	6.25
P-1504	700	120	5 ct 3 or 2½ 3	2½ ct 12½	.....	.....	.....	5.85
P-1505	700	120	5 ct 3 or 2½ 3	2½ ct 4	2½ ct 9	2½ ct 3½	.....	6.05
P-1570	700	85	5 ct 3 or 2½ 3	6.3 ct 3	.....	.....	.....	5.50

The "Half - Shell" Power Transformer Used Almost Universally Today In All Sets



This group of replacement power transformers was originally developed for the midget or mantel type of receiving sets. However, as developments in chassis in general occurred, these units have found increasing favor where the flush mounting is desirable. In installation, they are workmanlike in appearance, cover a wide range of usefulness, and are thoroughly satisfactory in operation. Each is accompanied by a planograph diagram and standard color code for wiring.

FOR 115-VOLTS, 50-60 CYCLES

FOR 2.5-VOLT TUBES

4 TUBES
Plate.....650 Volts C.T. @ 40 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....2½ Volts C.T. @ 3¾ Amps
Mtg. Area: 2½"x3" Mtg. Centers: 2"x2½"
Cat. No. P-2750.....List Price $1.95

4 OR 5 TUBES
Plate.....650 Volts C.T. @ 40 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....2½ Volts C.T. @ 4½ Amps
Mtg. Area: 2½"x3" Mtg. Centers: 2"x2½"
Cat. No. P-2770.....List Price $2.25

4 OR 5 TUBES
Plate.....650 Volts C.T. @ 40 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....2½ Volts C.T. @ 1¾ Amps
Fil. 3.....2½ Volts @ 3½ Amps
Mtg. Area: 2½"x3" Mtg. Centers: 2"x2½"
Cat. No. P-2868.....List Price $2.45

5 OR 6 TUBES
Plate.....700 Volts C.T. @ 50 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....2½ Volts C.T. @ 1¾ Amps
Fil. 3.....2½ Volts @ 5¼ Amps
Mtg. Area: 2⅝"x3⅜" Mtg. Centers: 2¼"x2⅝"
Cat. No. P-2869.....List Price $3.15

6 OR 7 TUBES
Plate.....700 Volts C.T. @ 70 Ma.
Fil. 1.....5 Volts @ 3 Amps
Fil. 2.....2½ Volts C.T. @ 3½ Amps
Fil. 3.....2½ Volts @ 7½ Amps
Mtg. Area: 3⅛"x3¾" Mtg. Centers: 2½"x3⅛"
Cat. No. P-2859.....List Price $3.45

8 OR 9 TUBES
Plate.....700 Volts C.T. @ 90 Ma.
Fil. 1.....5 Volts @ 3 Amps
Fil. 2.....2½ Volts C.T. @ 3½ Amps
Fil. 3.....2½ Volts @ 9 Amps
Mtg. Area: 3⅞"x4½" Mtg. Centers: 2¾"x3⅜"
Cat. No. P-2860.....List Price $4.00

10 OR 12 TUBES
Plate.....700 Volts C.T. @ 110 Ma.
Fil. 1.....5 Volts @ 3 Amps
Fil. 2.....2½ Volts C.T. @ 3½ Amps
Fil. 3.....2½ Volts @ 14 Amps
Mtg. Area: 3¾"x4½" Mtg. Centers: 3"x3¾"
Cat. No. P-950.....List Price $5.50

FOR 6.3-VOLT TUBES

4 TUBES
Plate.....650 Volts C.T. @ 40 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....6.3 Volts C.T. @ 1.6 Amps
Mtg. Area: 2½"x3" Mtg. Centers: 2"x2½"
Cat. No. P-2751.....List Price $1.95

4 OR 5 TUBES
Plate.....650 Volts C.T. @ 40 Ma.
Fil. 1.....5 Volts @ 2 Amps
Fil. 2.....6.3 Volts C.T. @ 2 Amps
Mtg. Area: 2½"x3" Mtg. Centers: 2"x2½"
Cat. No. P-2771.....List Price $2.25

5 OR 6 TUBES
Plate.....675 Volts C.T. @ 70 Ma.
Fil. 1.....5 Volts @ 3 Amps
Fil. 2.....6.3 Volts C.T. @ 2½ Amps
Mtg. Area: 3½"x3¾" Mtg. Centers: 2½"x3½"
Cat. No. P-948.....List Price $3.60

7 TO 10 TUBES
Plate.....700 Volts C.T. @ 120 Ma.
Fil. 1.....5 Volts @ 3 Amps
Fil. 2.....6.3 Volts C.T. @ 3 Amps
Mtg. Area: 3¼"x4⅛" Mtg. Centers: 2¾"x3½"
Cat. No. P-949.....List Price $3.90

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STANCOR TRANSFORMERS



Audio Replacement Transformers

For Interstage and Pushpull Stages. Semi-shielded with cadmium-plated frames and bottom plates.

Cat. No.	Type	Ratio	List Price
Size: 2" H., 1⅝" D., 2⅜" L.			
A-64	Interstage	4 : 1	$1.40
A-64-C	P.P.	4 : 1	1.50
Size: 2" H., 1⅝" D., 3⅝" L.,			
A-72	Interstage	2 : 1	1.70
A-72-C	P.P.	2 : 1	1.80
A-73	Interstage	3 : 1	1.70
A-73-C	P.P.	3 : 1	1.80
A-74	Interstage	4 : 1	1.70
A-74-C	P.P.	4 : 1	1.80
Size: 2" H., 2⅛" D., 3⅝" L.			
A-74-Y	Interstage	4 : 1	2.00
A-74-YC	P.P.	4 : 1	2.10

Cat. No.	Type	Ratio	List Price
Size: 2¼" H., 1⅞" D., 3⅛" L.			
A-82	Interstage	2 : 1	$2.30
A-82-C	P.P.	2 : 1	2.40
A-83	Interstage	3 : 1	2.30
A-83-C	P.P.	3 : 1	2.40
A-84	Interstage	4 : 1	2.30
A-84-C	P.P.	4 : 1	2.40
Size: 2⅝" H., 2" D., 4⅛" L.			
A-102	Interstage	2 : 1	2.70
A-102-C	P.P.	2 : 1	2.80
A-103	Interstage	3 : 1	2.70
A-103-C	P.P.	3 : 1	2.80
A-104	Interstage	4 : 1	2.70
A-104-C	P.P.	4 : 1	2.80

Output Transformers

To Feed Into 6 to 15-Ohm Voice Coils



Cat. No.	Tubes	List Price
Size: 2" H., 1⅝" D., 2⅜" L.		
Single Tube		
A-2203	43, 45, 48, 59, 71	$1.10
Push-Pull Tubes		
A-2220	43, 45, 48, 59, 71	1.20
Size: 2" H., 1⅝" D., 3⅝" L.		
Single Tube		
A-2200	43, 45, 48, 59, 71	1.40
A-2227	210, 41, 112, 231	1.40
A-2313	2A5, 49, 42, 33, 47	1.40
A-2347	38, 89	1.40
Push-Pull Tubes		
A-2201	43, 45, 59, 71	1.50
A-2231	210, 41, 112, 231	1.50
A-2312	2A5, 49, 42, 33, 47	1.50
A-2348	38, 89	1.50

Cat. No.	Tubes	List Price
Size: 2⅝" H., 2" D., 4⅛" L.		
Push-Pull Tubes		
A-2235	2A3, 43, 45, 48, 50, 59, 71	$2.15
A-2285	43, 45, 48, 59, 71	2.15
Size: 2¼" H., 1⅞" D., 3⅛" L.		
Single Tube		
A-2234	2A3, 43, 45, 48, 50, 59, 71	1.70
Push-Pull Tubes		
A-2211	2A3, 43, 45, 48, 50, 59, 71	1.80

Output Chokes

To Feed Into Magnetic Speaker

Size: 2" H., 1⅝" D., 3⅜" L.

Cat. No.	Tubes	List Price
Single Tube		
C-1003	112, 171, 247	$1.25
Push-Pull Tubes		
C-1034	112, 171, 245, 247	1.00

A.C.-D.C. Chokes

For 4 and 5-Tube Sets

Size: 1½"x2⅜"x1⅝" High
15 Henries, 40 M.A.

Cat. No.	Ohms	List Price
C-1080	200	$1.00
C-1325	250	1.00
C-1277	300	1.00
C-1227	350	1.00
C-1279	400	1.00
C-1333	450	1.00
C-1215	500	1.00
C-1362	550	1.00

Filter Chokes

Size: 2" H., 1⅝" D., 3⅜" L.

Cat. No.	M.A.	List Price
C-1003	50	$1.25
Size: 2¼" H., 1⅞" D., 3⅛" L.		
C-1002	75	1.55
Size: 2⅝" H., 2" D., 4⅛" L.		
C-1001	110	1.85



Universal Input, Output and Choke Units

Dimensions: 2"x2⅛"x2⅝" with Universal mounting covering a wide variety and range of hole centers and mounting areas.

Universal Interstage, Tapped P.P. or Straight Audio

Cat. No.		List Price
A-4155	For either A.C. or D.C.	$2.20
Universal Tapped Output		
A-2855	For P.P. or straight audio; 1 to 30 ohms voice coils	1.60
Filter Choke		
C-1355	Resis.—275 ohms. Induc.—20 henries. Mils—100	1.20

Microphone and Universal Line Matching Transformers



Horizontal Cadmium-plated Frame

Leads to lugs. Mounting centers 2⅝"; core: ¾"x¾"; dimensions: 2"x3⅛"x2" high.

Microphone or Universal Line to Universal Line

Cat. No.	Specifications	List Price
A-4350	4 sectionalized windings tapped for universal input transformer. From: Single or double button microphone, 50, 125, 200, 333 or 500 ohms. To: 50, 125, 200, 333 or 500 ohms	$2.00

Microphone or Universal Line to Single Grid

A-4351	Primary consists of 2 sectionalized windings. From: Single or double button microphone, 50, 125, 200, 333 or 500 ohms. To: Single grid of 27, 37, 56, 76, etc.	2.00

Microphone or Universal Line to Push-Pull Grids

A-4352	Primary consists of 2 sectionalized windings. From: Single or double button microphone, 50, 125, 200, 333 or 500 ohms. To: P.P. Grids of 2-27's, 2-56's, etc.	2.00

Velocity or Ribbon Microphone to Universal Line

A-4353	Secondary consists of 2 sectionalized windings. From: ¾ ohm velocity microphone. To: 50, 125 200, 333 or 500 ohms	2.00

Single Plate to Universal Line

A-3250	Secondary consists of 2 sectionalized windings. From: Single 10,000 ohms plate of 1-27, 1-37, 1-56, etc. To: 50, 125, 200, 333 or 500 ohms	2.00

Push-Pull Plates to Universal Line

A-3251	Secondary consists of 2 sectionalized windings. From: P.P. 10,000 ohm plates of P.P.-27's, P.P.-37's, P.P.-56's, etc. To: 50, 125, 200, 333 or 500 ohms.	2.00

Tube Checker Transformer

Cat. No.	Specifications	List Price
P-1834	**Primary:** Tapped for 105, 115, 125 volts, 50-60 cycle. **Secondary:** Tapped for 1.1, 1.5, 2.0, 2.5, 3.0, 3.3, 5.0, 6.3, 7.5, 12, 25 and 30 volts. 12" coded leads—core 1"x1". **Bracket Dimensions:** Hght. 2⅝", depth 2", lgth overall 4⅛". Hole centers 3⅝"	$3.20

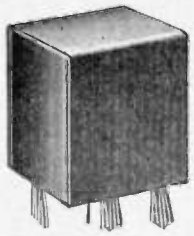


In addition to the above listings of semi-shielded units, Stancor also manufactures a complete line of fully-shielded audio replacement transformers, input and output transformers and chokes. Call or write for a complete STANCOR Catalog.

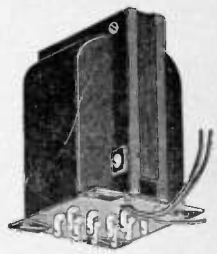


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EXACT DUPLICATES STANCOR REPLACEMENTS POWER TRANSFORMERS



Stancor exact duplicate replacement transformers are known the world over for their dependability and fine engineering and construction qualities. These transformers have been designed with a higher safety factor and better insulation, yet match exactly the physical and electrical characteristics of the originals. No further drilling in necessary; simply remove your old transformer and replace with a Stancor Exact Duplicate Unit and be assured of trouble-free service.



Radio Model	Cat. No.	List Price
AIRLINE (Mont. Ward)		
AE-10, 62-2600, 62-2622, 62-2655, 62-2775	P-1478	$7.45
62-20	P-1136	6.00
62-520, 62-1420	P-1070	4.30
62-626, 62-726, 62-2026, 62-2126	P-1358	3.90
62-060, 62-070, 62-1800	P-1405	3.90
62-60	P-1404	4.50
62-030, 62-232, 62-3235	P-1291	5.05
62-1238, 62-1838	P-1479	5.40
62-1355, 62-1955	P-1016	6.05
62-20, 62-25	P-1561	5.25
62-21, 62-22, 62-30	P-1461	5.25
62-68, 62-49	P-1495	5.75
62-010	P-1438	6.20
ATWATER-KENT		
37, 37C, 38	P- 716	5.35
55-Early, 55C-Early	P- 918	6.30
55-Late, 55C-Late	P- 913	6.40
60-1st type, 60-2nd type, 60C-1st type, 60C-2nd type	P-1066	6.05
60-3rd type, 60C-3rd type	P-1500	4.80
66 Early & Late—Plate	P-1213	6.25
70-L1 chassis, 70-L2 chassis, 70-P chassis, 72-H1 chassis, 72-H2chassis,74-L1chassis, 74-L2 chassis, 74-P chassis, 76-L1 chassis,76-L2 chassis, 76-P chassis	P-1068	5.80
80, 83	P-1088	5.80
82, 85	P-1084	5.80
84-Early, 84-Late	P-1086	5.80
87-1st type, 87-3rd type, 89-1st type, 89-3rd type, 89P-1st type, 89P-3rd type	P-1089	6.30
BOSCH		
29, 825	P- 859	7.20
CROSLEY		
40-S, 41-S, 42-S, 45-S, 82-S (73 chassis)	P-1015	5.40
41-, 41-A, 42, 704-B, 706-Show Box Series	P-1472	5.40
146, 146-1 (Unmounted)	P-1563	6.50
GENERAL MOTORS		
110, 180, 190 (Little General MA (chassis)	P-1485	3.80
211 (S-9-A chassis)	P-1271	4.30
220 (S-10-A chassis)	P-1506	3.90
252, 253, 254, 255, 256, 257, 258 (S-3-A chassis)	P-1492	5.30
GRAYBAR		
310, 311	P- 791	5.40
340	P- 715	5.45
500, 550	P- 714	5.95
600	P- 883	6.50
GB-4	P-1493	4.05
GB-8	P-1481	4.85
GB-8-A	P-1482	5.05
GB-9	P-1474	5.60
GB-678	P- 927	6.60
GB-700, GB-770, GB-900	P- 713	5.90
GB-989, GC-14, GT-8	P-1483	5.00
GC-13, GT-7	P-1487	4.80

Radio Model	Cat. No.	List Price
GREBE		
AC-7 (Synchrophase)	P-1475	$5.40
HS-4 (P.P. 45s)	P-1476	5.05
HS-4 (Pentode)	P-1477	5.00
HS-8	P-1489	4.90
MAJESTIC		
21, 22, 23 (Unmounted 20 chassis)	P- 954	4.80
51, 52 (Unmounted 50 chassis)	P- 905	5.45
71, 72 (Plate, 70 chassis)	P- 790	4.90
71, 72 (Fil. 70 and 70B chassis)	P- 798	4.65
71, 72 (Plate 70B chassis)	P-1486	5.05
90, 91, 93 (90B chassis), 102 (100-B chassis), 103 (100-B chassis)	P- 939	4.65
91, 92 (90 chassis), 101 (100 chassis)	P- 757	6.90
130, 131, 132 (130-A chassis) 233 (230-A chassis)	P-1102	7.25
151, 153 (Unmounted 15 chassis), 154 (Unmounted) 15-B chassis), 155 (Unmounted 150 chassis) 156 (Unmounted 15 chassis)	P- 906	3.55
181 (Plate, 180 chassis)	P- 789	7.45
181 (Filament 180 chassis)	P- 805	5.20
211, 214, 215 (Unmounted 210 chassis)	P-1507	5.50
251, 253, 254 (Unmounted 25 chassis), 251-B, 253-B, 254-B (Unmounted 25-B chassis)	P-1168	5.60
291 Madison, 293 Adams, 294 Monroe (290 chassis)	P-1564	7.00
324 (chassis 320)	P-1565	7.85
344 (chassis 340, 340B)	P-1566	8.40
363 (chassis 360)	P-1567	8.00
PHILCO		
20, 220 (chassis 20)	P- 762	5.80
50, 51, 52, 551	P-1460	4.20
65 (chassis 65)	P- 711	5.45
70, 270, 370, 470, 570	P-1119	5.30
76, 77	P- 785	6.05
86 (chassis 86)	P- 786	5.30
87 (chassis 87)	P- 763	6.00
90, 490 (chassis 90, 1-'47)	P-1468	6.60
90, 490 (chassis 90, 2-'47s)	P-1497	6.75
90 (chassis 90, 2-'45s)	P-1469	6.75
91 (chassis 91)	P-1498	6.90
95, 96, 296	P- 787	6.50
111, 211 (chassis 111), 112, 212 (2-'45s)	P- 788	7.25
112, 212 (2-'47s)	P- 882	6.60
511 (511 chassis)	P- 784	5.70
18, 18 (Code 124)	P-1568	6.10
RCA—RADIOLA—VICTOR		
AP-736, AZ-774B, 10-69, 10-51 (above Ser. No. 800), 10-70 (above Ser. No. 2600), 12-15 (above Ser. No. 2600),	P-1473	9.40
AP-736B, 9-16X	P-1430	9.35
AP-777C, R-64, R-67, 9-18X, 0-54	P- 827	18.00
E-35, E-135, E-152, R-32, R-52, RE-45, RE-75, RE-154, RE-156	P- 717	6.80
R-4, R-6	P-1487	4.80

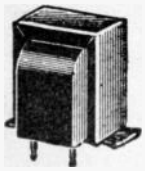
Radio Model	Cat. No.	List Price
RCA—RADIOLA—VICTOR (cont'd)		
R-5, R-5X	P-1493	$4.05
R-7, R-9	P-1481	4.85
R-7A	P-1482	5.05
R-12, RE-19, RO-23, R-8, R-10	P-1483	5.00
R-11, R-21, RAE-26, RE-18, RE-18A	P-1474	5.60
R-14, R-15, R-42, R-48, RE-17	P- 927	6.60
R-17, R-18AC, R-33AC, R-51AC, RAD-50, 7-11, 7-25, 7-26X	P- 791	5.40
R-34, R-35, R-39, RE-57, RE-73	P- 718	6.35
R-44, R-46AC, R-47	P- 714	5.95
R-60, R-62	P- 715	5.45
R-66	P- 883	6.50
R-80, R-82, R-86	P- 713	5.90
SPARTON		
AC-7, 62, 63	P-1373	4.20
9-A, 410, 420, 600A	P-1196	6.40
610-A, 620-A	P-1196	6.40
25, 26, 26AW, 30, 30A	P-1204	6.60
30B, 45	P-1204	6.60
35, 101, 110, 111, 111A	P-1412	7.55
870	P-1412	7.55
89-A	P- 921	5.40
99, 109	P-1411	7.30
103, 301, 301A, 564	P-1372	8.15
570, 574, 578, 740, 750	P-1372	8.15
589	P- 909	6.55
591, 593, 931	P- 864	6.45
55-55 (Police Set)	P-1569	6.40
STEWART-WARNER		
801, 801-A, 802 (Series A), 801, 801-A, 802 (Series B)	P-1108	6.00
901, 902, 903	P-1470	4.90
(Series 900)	P-1470	4.90
951, 952, 953	P-1470	4.90
(Series 950)	P-1470	4.90
R-100-A (Series R-100)	P-1470	4.90
STROMBERG-CARLSON		
10, 11	P-1209	6.60
641, 642, 652, 654	P- 834	6.40
846, 848	P-1053	6.75
U. S. RADIO & TELEVISION CORP.		
7	P-1461	5.25
8 (Series 8-A)	P-1479	5.40
8 (Series 8-B)	P-1479	5.40
9, 19 (900 chassis)	P-1495	5.75
9, 19 (902 chassis)	P-1495	5.75
10, 10-C (1000 chassis)	P-1016	6.05
10-C (1001 chassis)	P-1016	6.05
20 (Gloriette-20 chassis)	P-1070	4.30
26 (Gloritone-26 chassis)	P-1405	3.90
26-P (Gloritone-26-P Chas.)	P-1358	3.90
32 Series (32 chassis)	P-1291	5.05
36, 37 (Apex)	P- 340	8.40
ZENITH		
10, 11, 12 (Super Zenith)	P- 851	6.90
52, 53, 54, 55, 60, 61, 62, 64, 67, 71, 72, 73, 77	P- 712	7.65

The above listings are only part of the many replacement transformers we manufacture. Write the Standard Transformer Corporation, 850 Blackhawk Street, Chicago, Ill., for your free copy of our complete Replacement Transformer Guide.

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STANCOR TRANSFORMERS

PUBLIC ADDRESS UNITS



Stancor presents a new high-quality line of transformers designed to give a maximum amount of satisfactory and dependable service. Input types are tapped for 50 to 500 ohms impedances. Output types are intended for direct connection to voice coils of speakers. The following is only a partial listing of the public address units we have available.

Inputs

Part No.	Type	From	To	List Price
RA-4205	Straight Audio	10000-ohm plate	Single Grid	$3.85
RA-4206	P.P. Input	10000-ohm plate	P.P. Grids, Class "A"	4.05
RA-4207	P.P. Interstage	P.P., 10000-ohm plate	P.P. Grids, Class "A"	4.30
RA-4208	P.P. Interstage	P.P., 10000-ohm plate	P.P. parallel Class "AB"	3.90
RA-4400	High Imped. plate choke			3.75
RA-4401	P.P. Input	1-30	2 Grids, 19 Class "B"	2.00
RA-4402	P.P. Input	56, 37, 27, 76, etc.	P.P.-45's, 50's, 2A3's Class "A"	3.00

Inputs and Driver Transformers

Part No.	Type	From	To	List Price
RA-4415	P.P. Input	56, 37, 27, 76, etc.	P.P.-56's, 37's, 27's, etc	3.00
RA-4404	P.P. Driver	P.P.-45's or P.P.-2A3's	P.P.-800's, 825's, 203A's Class "B"	4.50
RA-4416	P.P. Driver	P.P.-46's or 59's	P.P. Parallel 46's or 59's	3.70

Outputs

Part No.	From	To	List Price
RA-3300	50, 125, 200, 333, 500 ohms	4, 8, 15 ohms	$3.50
RA-3301	P.P.-2A3's P.P.-48's, P.P.-45's, Class "AB"	4, 8, 15 or 500 ohms	4.00
RA-3303	P.P.-2A5's, 33's, 41's, 42's, 47's, 49's, 89's, as pentodes, 79, Class "B", 31's	4, 8, 15 or 500 ohms	3.60
RA-3304	P.P.-71's, 45's or 50's, Class "A" or 1-53, Class "B"	4, 8, 15 or 500 ohms	3.60
RA-3305	2-53's, P.P.-Parallel, Class "B"	4, 8, 15 or 500 ohms	4.00
RA-3306	4-2A3's, or 4-45's P.P.-Parallel, Class "AB"	4, 8, 15 or 500 ohms	4.00
RA-3309	2-800's, 830B's, RK18's	500 ohms	7.00
RA-3311	P.P.-2B6's, or P.P.-6B5's	4, 8, 15 or 500 ohms	3.60

Microphone and Line Transformers

Part No.	From	To	List Price
RA-4408	Single or double mike; 50, 125, 200, 333 or 500 ohms	Single Grid	4.00
RA-4409	Single or double mike; 50, 125, 200, 333 or 500 ohms	Push-Pull Grids	4.00
RA-3316	P.P.-10000-ohm plates	50, 125, 200, 333 or 500 ohms	4.10
RA-4412	Mike and High Imped. pick-up winding	P.P. Grids of P.P.-27's P.P.-56's, P.P.-76's, etc	4.30
RA-4413	10000-ohm Plate and 200 ohms	Single Grid	2.50

Filter and Swinging Chokes

No.	Henries	Amperes	Ohms	List Price
RC-1400	8-40	175	100	$3.05
RC-1403	8-25	300	80	6.70
RC-1421	25	140	160	3.10
RC-1412	15	250	60	4.10
RC-1414	10	400	60	8.85

Exciter Lamp Transformers

Part No.	Primary	Secondary	List Price
RP-3050	105, 115	5v. @ 6A	$4.70
RP-3051	105, 115	8.5v. @ 4A	4.70
RP-3052	105, 115	10v. @ either 7.5 or 5A	7.25

AMATEUR TRANSMITTER UNITS



Stancor Amateur Transmitting Units are constructed of the finest materials and are designed to give dependable and lasting service. The units listed below have 110-115 volts, 50-60 cycle primaries. They are also available for 110-115 volts, 25 cycle and 220 volts, 110-115 cycle primaries. All secondary windings are center-tapped.

Plate Transformers

Part No.	Primary	D.C. Volts Ma.	Mtg. Area	List Price
XP3010	105-115	500 or 400 at 175	4" x3½"	$8.00
XP3011	105-115	750, 500, or 600 at 250	4" x5"	15.00
XP3012	105-115	1000 or 750 at 400	6½"x7"	25.00
XP3013	105-115	1250 or 1000 at 500	7" x7¼"	40.00
XP3014	105-115	2000 or 1500 at 250	7" x7"	35.00
XP3015	105-115	2000 or 1500 at 500	7" x7"	52.50
XP3016	115-230	3000 or 2000 at 400	7" x7½"	60.00

Filament Transformers

Part No.	Secondary Volts	Amps.	Insulation	Mtg. Area	List Price
XP3027	7.5 at	6.5	1500-v.	4"x3¼"	$5.00
XP3021	10.0 at	6.5	1500-v.	4"x3¼"	7.00
XP3026	5.0 at	3.0	1500-v.	4"x3⅜"	3.50
XP3025	2.5 at	10.0	7500-v.	4"x3⅜"	4.30
XP3030	2.5 at	10.0			
	5.0 at	3.0	7500-v.	4"x3⅜"	5.00
XP3032	5.0 at	3.0			
	5.0 at	3.0			
	5.0 at	6.0	7500-v.	4"x3⅜"	7.25
XP3033	5.0 at	3.0			
	7.5 at	2.5			
	2.5 at	5.0	1500-v.	4"x3¼"	5.00
XP3029	5.0 at	6.0			
	2.5 at	3.5			
	2.5 at	6.0	1500-v.	4"x3¼"	5.00
XP3028	7.5 at	6.5			
	7.5 at	4.5			
	2.5 at	4.0	1500-v.	4"x3¼"	7.00

Swinging Chokes

Part No.	Henries	Ma.	Ins.	Mtg. Area	List Price
XC1400	8-40	175-0	2000-v.	3 5/16"x2 3/8"x2 5/8"	$3.05
XC1401	8-30	200-0	2000-v.	3 1/8"x2 5/8"x2 7/8"	3.80
XC1402	8-30	250-0	2000-v.	3 1/8"x2 5/8"x3 1/4"	4.05
XC1403	8-25	300-0	3000-v.	5¼"x4 "x3¾"	6.70
XC1404	5-25	400-0	5000-v.	5¼"x4 "x4¾"	8.40
XC1405	5-20	500-0	5000-v.	5¾"x5 1/8"x3"	16.00

Filter Chokes

XC1421	25	140	1000-v.	3 5/16"x2 1/8"x2 5/8"	$3.10
XC1410	20	175	1000-v.	3 5/8"x2 1/8"x2 5/8"	3.00
XC1411	18	200	2000-v.	3 5/8"x2 5/8"x2 7/8"	3.40
XC1412	15	250	2000-v.	3 5/8"x2 5/8"x3 1/4"	4.10
XC1413	12	300	3000 v.	5¼"x4 "x3¾"	7.00
XC1414	10	400	5000-v.	5¼"x4 "x4¾"	8.85

STANCOR CIRCUITS

Sound Amplifier

Included in this booklet are circuits of amplifiers ranging in output from 3 watts to 30 watts. Various tube combinations show the possibility of a compromise between high quality and low costs. Complete parts values are given. Amplifiers actually built and tested in our own laboratories.

Amateur Transmitter

This booklet contains circuits both for C.W. and Phone Transmitters. Includes low power and more complicated transmitters. Various combinations of tubes are used and several types of oscillator and modulator circuits are shown.

Thoroughly tested and approved circuits.

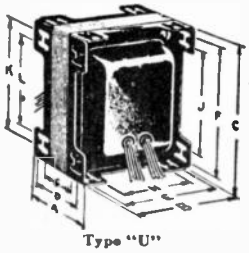
List Price—Sound.....$0.10
List Price—Amateur.....0.12

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GENERAL GTC PUSH-PULL MOISTURE PROOFED TRANSFORMERS

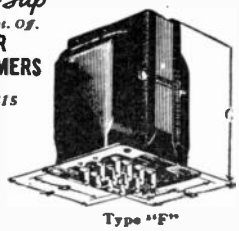
Stock of Only 5 Transformers Services 95% of All Radios!

The wide range of adaptability of only five models "Multi-Tap" universal Power Transformers is made possible through various taps in these units which may be used singly or in combinations. The required current values can be delivered to each of the several leads in the set with any combination of tubes, as accurately as by the original power units. Easily installed. Full directions in each carton.



Type "U"

"Multi-Tap"
Reg. U. S. Pat. Of.
POWER TRANSFORMERS
Patent No. 1992415



Type "F"

DIMENSIONS - "MULTI-TAP" UNIVERSAL POWER UNITS

No.	A	B	C	D	E	F	G	H	J	K	L
1814	2- 9/16	3- 5/16	3-13/16	2- 1/8	2-11/16	3- 5/16	1- 1/2	1-15/16	2- 9/16	2-13/16	3- 5/16
1816	2-13/16	3- 5/16	3-13/16	2- 3/8	2-11/16	3- 5/16	1- 3/4	1-15/16	2- 9/16	2-13/16	3- 5/16
1818	3- 3/8	3- 3/4	4- 1/2	2	3- 1/4	4	1- 7/8	2- 1/2	3- 1/4	3-13/16	3-13/16
1882	3- 5/8	3- 3/4	4- 1/2	2- 1/4	3- 1/4	4	2- 1/8	2- 1/2	3- 1/4	3-13/16	3-13/16
1804	2- 3/8	2- 9/16	3- 1/16	2	2	110v.-120v.—50-60 cy. use No.					
1806	3- 3/8	3- 3/8	4- 1/2	2- 3/8	2- 7/8	1814, 16, 18, 20 Type "U"					
1808	2- 1/2	3- 3/8	4- 1/2	2- 5/16	2- 7/8						
1810	3- 7/8	3- 3/8	4- 1/2	2- 3/4	2- 7/8	or 1804, 6, 8, 10 Type "F".					
1850	4-9/16	3-3/4	4-1/2	4-3/8	3-1/4	4	2-3/8	2-1/2	3-1/4	3-11/16	3-13/16

UNIT PRICES

No. 1804; No. 1814 for 4 TUBES

2-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7 and 1-45, 46, 47, 59, 2A3, 2A5 ..... 2.5v.-C.T.-5.25 A
or 2-75, 76, 77, 78, 6A7, 6B7, 6C6, 6D6, 6F6, and 1-41, 42, 79, 89, 6A4 ..... 6.3v.-C.T.-1.60 A
1-80, 83, 5Z3 ..... 5.0v.-C.T.-3.0 A
or 1-82 ..... 2.5v.- -3.0 A
High Voltage ..... 650v.-C.T. at 50 MA

No. 1804 Type "F" MOCK 3¾ lbs. $3.50
No. 1814 Type "U" MACAW 3¼ lbs. $3.50

No. 1806, 1816, for 5 or 6 TUBES

3-26s ..... 1.5v.- 3.15 A
or 3-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7, 90 ..... 2.5v.- 5.0 A
1 or 2-27 ..... 2.5v.- 3.5 A
2-45, 46, 47, 59, 2A3, 2A5 ..... 2.5v.-C.T.-5.0 A
or 2-171A ..... 5.0v.-C.T.-0.5 A
1-80, 80M, 83, 5Z3 ..... 5.0v.- 3.0 A
or 1-82 ..... 2.5v.- 3.0 A
High Voltage ..... 650v.-C.T. at 60 MA

No. 1806 Type "F" MOCHA 5 lbs. $4.50
No. 1816 Type "U" MACE 4¼ lbs. $4.50

No. 1808, 1818, for 7 or 8 TUBES

4-26s ..... 1.5v.- 4.20 A
or 4-24, 27, 35, 55, 56, 57, 58, 2A7, 2B7, 90 ..... 2.5v.- 7.0 A
1 or 2-27 ..... 2.5v.- 3.5 A
2-45, 46, 47, 59, 2A3, 2A5 ..... 2.5v.-C.T.-5.0 A
or 2-171A ..... 5.0v.-C.T.-0.5 A
1-80, 80M, 83, 5Z3 ..... 5.0v.- 3.0 A
or 1-82 ..... 2.5v.- 3.0 A
High Voltage ..... 700v.-C.T. at 80 MA

No. 1808 Type "F" MODOC 6½ lbs. $5.00
No. 1818 Type "U" MACLE 6½ lbs. $5.00

No. 1810, 1820, for 9 or 10 TUBES

6-26s ..... 1.5v.- 6.5 A
or 6-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7, 90 ..... 2.5v.- 10.5 A
1 or 2-27 ..... 2.5v.- 3.5 A
2-45, 46, 47, 59, 2A3, 2A5 ..... 2.5v.-C.T.-5.0 A
or 2-171A ..... 5.0v.-C.T.-0.5 A
1-80, 80M, 83, 5Z3 ..... 5.0v.- 3.0 A
or 1-82 ..... 2.5v.- 3.0 A
High Voltage ..... 700v.-C.T. at 100 MA

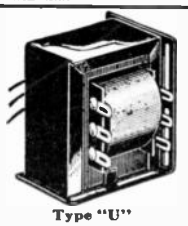
No. 1810 Type "F" MOGUL 6½ lbs. $5.50
No. 1820 Type "U" MACRO 7½ lbs. $5.50

No. 1850, 1960—High power up to 15 TUBES

7-26 ..... 1.5v.- 7.35 A
or 7-24, 27, 35, 55, 56, 57, 58, 2A6, 2B7, 90 ..... 2.5v.- 11.5 A
or 9-C484, C485 ..... 3.0v.- 11.7 A
2-45, 46, 47, 59, 2A3, 2A5 ..... 2.5v.- 5.0 A
or 2-C484, C485 ..... 3.0v.- 2.6 A
2-210, 250, C585, C586 ..... 7.5v.- 2.5 A
2-281, C281 in parallel ..... 7.5v.- 2.5 A
or 2-281, C281 in series ..... 15.0v.- 1.25 A
High Voltage ..... 1400v.-C.T. at 150 MA

No. 1850 Type "U" MUDAR 12¼ lbs. $12.50

IMPORTANT: Fully shielded for radios having Underwriters Lab. approval. Protects set owners' fire insurance policy. No extra unused leads to become shorted.
"F" type has leads to lugs to protect against liability of short circuiting the unused extra windings furnished in these units. Type "U" is supplied with necessary covered wire leads in the carton.
Extra windings to meet emergency requirements are embodied on the coil. The extra 2.5 volt winding is essential for sets using 26 type tubes. The same applies to the extra 2.5, and 5.0 volt taps.
6.3 volt tubes are supplied by connecting half of 2.5 v. CT in series with 5 v. winding.



Type "U"

MULTI-TAP TYPE "U" OUTPUT

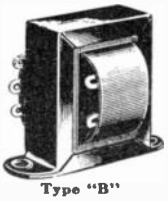
No. 1337 ..... MAGIC (1½) **$1.75**

The universal primary and the tapped secondary, from 2 to 30 ohms, in 2 ohm steps, makes it possible to feed practically any straight or push-pull output stage to any dynamic speaker.
May be mounted on end or side. Slots in base allow wide range of adaptability without redrilling panel.

MULTI-TAP OUTPUT TYPE "B" (or 2B)

No. 2314 ..... MUREX (1½) **$1.75**

To match any standard output tube either singly or in push-pull to magnetic speaker or any of the standard voice coils. Overall dimensions—1⅞"x3"x2⅛" high. Mounting centers 2⅜".



Type "B"

INPUT AUDIO TYPE "U"

No. 3205 ..... MAGE (1½) **$1.75**

This input audio efficiently feeds any straight or push-pull audio stage on either A.C. or D.C. sets.
Dimensions same in Output and Input Audio type "U."
Overall Dimensions: 2"x2⅜"x1⅝".
Mtg. Centers: 1⅛"x½" to 1⅜" or 1¼"x½" to 1⅜".

INPUT AUDIO TYPE "B" (or 2B)

No. 3256 ..... MUSCI (1½) **$1.75**

(Same as 3205). Overall dimensions—1⅞"x3"x2⅛" high. Mounting centers 2⅜".

MULTI-TAP FILAMENT TRANSFORMER

No. 1081 ..... FELIX (2) **$2.25**

Delivers 1.5, 2.5, 5.0, 6.3, 7.5 volts at 3 amps. Mtg. type "B (or 2B).
Dimensions: 1⅞"x3¾"x2⅛" high. C. C. 3⅛".

MULTI-TAP CHOKE

No. 1076 ..... MYRIA (1) **$2.75**

This is a high impedance choke with five taps which in combination with a selector switch and a neon bulb constitutes an excellent short circuit turns tester when operated from a 115 volt 60 cycle source. This choke can also be used as an audio autoformer for impedance matching purposes. Type "2A" Mtg. Size 2' high. 3⅛" wide. 1⅝" deep. 2⅛" mtg. centers.

STEP-DOWN—PRI. 220-240V 50-60 Cycle—Sec. 110V

No.	Type	Size—inch	Wt. lbs.	Wattage	Code	Price
2922	F-Jr.	3 x3⅜x3⅛ high	4	80	SUINA	$4.00
1909	F	3⅛x1⅜x4½ high	8	160	STIPA	6.25

The "F-Jr." is in mounting same as 2F, Form 31.

STEP-DOWN—PRI. 150-160V 50-60 Cycle—Sec. 110V

No.	Type	Size—inch	Wt. lbs.	Wattage	Code	Price
2921	F-Jr.	3 x3 x3⅛ high	3⅝	80	SULLA	$4.00
2917	F	3⅛x4⅜x4½ high	8	160	SUMAC	6.25

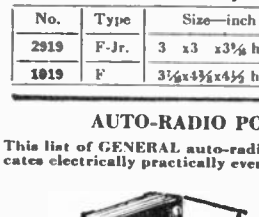
For isolated lighting plants or where supply lines are overloaded resulting in low voltage a step-up greatly increases the efficiency of the radio or utensil.

STEP-UP—PRI. 80V 50-60 Cycle—Sec. 110V

No.	Type	Size—inch	Wt. lbs.	Wattage	Code	Price
2919	F-Jr.	3 x3 x3⅛ high	3⅝	80	SUGAR	$3.75
1919	F	3⅛x4⅜x4½ high	8	160	STOPE	6.00

AUTO-RADIO POWER TRANSFORMERS

This list of GENERAL auto-radio power transformers and chokes duplicates electrically practically every auto radio power unit now in use.



Part No.	Code	Wt.	Price
Power Transformer 135v—40 MA			
413	AURUM	(2-2)	$3.00
Power Transformer 180v—40 MA			
412	ARTEL	(2-2)	$3.25
Power Transformer 250v—50 MA			
411	ARSIS	(2-2)	$3.50

AUTO-RADIO FILTER CHOKE

250 ohms—15 H at 30 MA—Mtg. "B" 2" c-c.

1129	AVIAN	(1)	$4.00

GENERAL PULL-PUSH MOISTURE PROOFED TRANSFORMERS



Type "P"
See note below

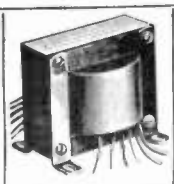




Type "P"



Type "G"



Type "H"



Type "2F"



Type "F"

Specially adapted for the sets with cable wiring

2.5 Volt Double Fil. Winding

FOR 4 AND 5 TUBES

2-24, 27, 35, or 3-55, 56, 57, 58, 2A6, 2A7, 2B7	2.5v.-	5.00A
1-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	1.75A
1-80, 83, 5Z3	5.0v.-	3.0 A
Plate	650v.-C.T.	40 MA

	Type "P"	Type "G"	Type "H"	Type "2F"	Type "F"
	No. 1550 GORSE (3)	No. 1545 GRINT (3)	No. 1570 GIGUE (3)	No. 1774 LANIA (3-8)	
	Price $2.50	Price $2.50	Price $2.50	Price $3.00	
	Mtg.—2 13/16 x 2 13/16 c.c.		Mtg.—2 13/16 x 2 c.c.	Mtg. 2x2 c.c.	
	2 13/16 x 3 1/4 x 3 1/4 high		3 1/4 x 3 1/4 x 2 7/8 high	2 5/8 x 2 13/16 x 3 1/16 high	

FOR 5 AND 6 TUBES

3-24, 27, 35, or 3-55, 56, 57, 58, 2A6, 2A7, 2B7	2.5v.-	5.25A
1-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	1.75A
1-80, 83, 5Z3	5.0v.-	3.0 A
Plate	650v.-C.T.	50 MA

	Type "P"	Type "G"	Type "H"	Type "2F"	Type "F"
	No. 1551 GOUMI (3)	No. 1546 GRITH (3)	No. 1571 GIPON (3)	No. 1771 LAPIS (3-8)	No. 1624 GROIN (4-4)
	Price $2.75	Price $2.75	Price $2.75	Price $3.25	Price $4.00
	Mtg.—2 13/16 x 2 13/16 c.c.		Mtg.—2 13/16 x 2 1/2 c.c.	Mtg. 2x2 1/2 c.c.	Mtg.—2 3/16 x 1 13/16 min. to 2 5/8 max c.c.
	2 13/16 x 3 1/4 x 3 1/4 high		3 1/4 x 3 5/8 x 2 7/8 high	2 5/8 x 3 1/16 x 3 1/16 high	3 1/2 x 3 1/2 x 4 1/2 high

FOR 6 AND 7 TUBES

3 or 4-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7	2.5v.-	7.0 A
2-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	3.0 A
1-80, 83, 5Z3	5.0v.-	3.0 A
Plate	700v.-C.T.	70 MA

	Type "P"	Type "G"	Type "H"	Type "2F"	Type "F"
	No. 1544 GOURD (5)	No. 1547 GROAT (5)	No. 1573 GLACE (6-8)	No. 1772 LARCH (5-10)	No. 1641 GONAD (4-8)
	Price $3.50	Price $3.50	Price $3.50	Price $4.00	Price $4.50
	Mtg.—2 1/2 x 3 1/2 c.c.		Mtg.—3 1/16 x 2 1/16 c.c.	Mtg. 2 3/16 x 2 7/8 c.c.	Mtg.—2 3/16 x 2 1/16 min. to 2 1/16 max c.c.
	3 1/16 x 3 3/4 x 3 3/16 high		2 3/4 x 3 3/4 x 3 1/4 high	3 1/16 x 3 3/4 x 4 1/16 high	3 5/16 x 3 1/2 x 4 1/2 high

FOR 8 AND 9 TUBES

5 or 6-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7	2.5v.-	10.5A
2-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	3.0A
1-80, 83, 5Z3	5.0v.-	3.0A
Plate	700v.-C.T.	90 MA

	Type "P"	Type "G"	Type "H"	Type "2F"	Type "F"
	No. 1555 GOYLE (5-8)	No. 1548 GROUP (5-8)	No. 1575 GLACK (6-8)	No. 1773 LARES (5-10)	No. 1625 GONDI (5-6)
	Price $4.00	Price $4.00	Price $4.00	Price $4.50	Price $5.00
	Mtg.—2 7/16 x 3 11/16 c.c.		Mtg.—3 1/16 x 3 11/16 c.c.	Mtg. 2 7/16 x 2 7/8 c.c.	Mtg.—2 3/16 x 2 1/16 min. to 2 5/8 max c.c.
	3 5/16 x 4 1/4 x 3 1/2 high		2 7/16 x 4 1/4 x 3 3/4 high	3 5/16 x 3 11/16 x 4 1/2 high	3 3/4 x 3 1/2 x 4 1/2 high

FOR 10 AND 12 TUBES

7 or 9-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7	2.5v.-	15.25A
2-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	3.0 A
1-80, 83, 5Z3	5.0v.-	3.0 A
Plate	700v.-C.T.	110 MA

	Type "P"	Type "G"	Type "H"	Type "2F"	Type "F"
	No. 1557 GRAIL (6-2)	No. 1549 GRUNT (6-2)	No. 1577 GLAIR (7)	No. 1790 LARGO (6-4)	No. 1631 GONAL (5-12)
	Price $4.75	Price $4.75	Price $4.75	Price $5.25	Price $5.50
	Mtg.—3x3 1/4 c.c.		Mtg.—3 1/16 x 2 1/16 c.c.	Mtg. 2 3/4 x 3 1/4 c.c.	Mtg.—2 7/16 x 2 7/8 min. to 2 5/8 max. c.c.
	3 5/16 x 4 1/2 x 3 1/2 high		4 1/2 x 3 1/4 x 3 3/4 high	3 11/16 x 3 11/16 x 4 1/16 high	4x3 1/2 x 4 1/2 high

All half-shell "P" type are supplied with four brackets in each carton so that the units may be mounted either flush, horizontal or vertical as shown above.

Combination 2.5v and 6.3v Single-Heater Winding

These require one-half the investment in stock to enable giving immediate renewal of performance in most cases of transformer trouble.

	"P"	"G"	"2F"
FOR 4 AND 5 TUBES	No. 1775 (3-0) HADAD	No. 1776 (3-2) HADES	No. 1777 (3-2) HADJI
2-56, 57, 2A7, 2B7, and 1-45, 46, 47, 2A5 2.5v.-C.T. 4.75A or 2-76, 77, 6C5, 6J7, and 1-41, 42, 79, 6F6 6.3v. 1.9A; 1-80, 5Z4 5.0v. 2.0A; Plate 650v.-C.T. 50MA	Price $2.50	Price $2.75	Price $3.00
	Mtg. 2x2 1/2 c.c.	Mtg. 2x2 1/2 c.c.	Mtg. 2x2 1/16 c.c.
	2 1/16 x 3 x 3 11/16 high	2 1/16 x 3 x 3 1/4 high	2 5/16 x 3 x 3 1/16 high
FOR 6 AND 7 TUBES	No. 1778 (5-0) HAGEN	No. 1779 (5-2) HAGIO	No. 1780 (5-2) HAGUE
4-56, 57, 2A7, 2B7, and 2-45, 46, 47, 2A5 2.5v.-C.T. 7.5A or 6-75, 77, 6C5, 6J7, and 2-41, 42, 79, 6F6 6.3v. 2.9A; 1-80, 5Z4 5.0v. 2.0A; Plate 650v.-C.T. 70MA	Price $3.25	Price $3.50	Price $3.75
	Mtg 2 5/16 x 2 13/16 c.c.	Mtg. 2 5/16 x 2 13/16 c.c.	Mtg. 2 3/16 x 2 3/16 c.c.
	2 13/16 x 3 13/16 x 3 1/16 high	2 13/16 x 3 13/16 x 3 1/16 high	3x3 3/16 x 3 1/16 high
FOR 8 AND 9 TUBES	No. 1781 (5-8) HAIDA	No. 1782 (5-10) HAKEA	No. 1783 (5-10) HALMA
6-56, 57, 2B7, and 2-45, 46, 47, 2A5 2.5v.-C.T. 9.5A or 6-76, 77, 6C5, 6J7, and 2-41, 42, 79, 6F6 6.3v. 3.5A; 1-80, 5Z4 5.0v. 2.0A; Plate 700v.-C.T. 85MA	Price $3.75	Price $4.00	Price $4.25
	Mtg. 2 1/16 x 3 1/16 c.c.	Mtg. 2 1/16 x 3 1/16 c.c.	Mtg. 2 1/16 x 2 1/16 c.c.
	3 1/16 x 3 3/4 x 3 3/16 high	3 1/16 x 3 3/4 x 3 1/16 high	3 1/16 x 3 1/16 x 4 1/16 high
FOR 10 AND 12 TUBES	No. 1784 (6-2) HALO	No. 1785 (6-4) HAMAL	No. 1786 (6-4) HANIP
9-56, 57, 2A7, 2B7, and 2-45, 46, 47, 2A5 2.5v.-C.T. 12.5A or 9-76, 77, 6C5, 6J7, and 2-41, 42, 79, 6F6 6.3v. 4.5A; 1-80, 5Z4 5.0v. 2.0A; Plate 700v.-C.T. 100MA	Price $4.50	Price $4.75	Price $5.00
	Mtg. 3x3 1/4 c.c.	Mtg. 3x3 1/4 c.c.	Mtg. 2x3 1/16 c.c.
	3 1/16 x 4 1/16 x 3 1/2 high	3 1/16 x 4 1/16 x 3 1/2 high	3 5/16 x 3 11/16 x 4 1/16 high

"PULL-PUSH" Impregnation of coils PULLS out all moisture (by means of preheating ovens and high vacuum tanks) and PUSHES in Special 9X Moisture-proofing Wax (under high compression). Sealing is perfect. No dripping of the 9X High Melting-point Wax, and subsequent shorting under normal operation in the hottest, most humid climates. This is very essential in humid sea coast climate or where hot days followed by cool nights causes condensation on the coils.

Greater customer satisfaction means increased business for you. ALWAYS INSIST ON GENERAL Highest Efficiency "PULL-PUSH" Impregnated Transformers!—with the GTC label on the cartons!

These numbers are for 110-120v.—50-60 cy. GENERAL Manufactures to order any of these numbers for 220-240 v., 50-60 cy., or 150v.—50 cyl. at $1.00 (list) per unit additional and for 115 v.—25-40 cycle at 60% plus the list of 110 volt—60 cycle; 220 v.—25 cy. 75% plus 110 v.—60 cy.

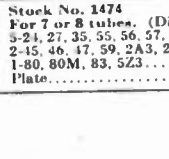
The Midget types are for 110 v. 60 cycle supply only. In case of 50 cycle or where voltage exceeds 110 v. select units from the other brackets shown which are built oversize.

Midget Types

	"P"	"2F"
FOR 4 TUBES	No. 1691 GUACO (2-8)	No. 1761 LARIX
2-55, 56, 57, 58, 90, 2A6 and 1-45, 46, 47, 2A5 2.5v.-C.T. 3.75A; 1-80 5.0v. 2.0A; Plate 650v.-C.T. 40MA	Price $1.80	Price $2.50
	Mtg. 2x2 1/2 c.c.	Mtg. 1 15/16 x 2 c.c.
	2 1/16 x 3 x 2 3/16 high	2 5/16 x 2 1/16 x 3 high
FOR 4 TUBES	No. 1665 GRANA (2-8)	No. 1787 LARVA
2-24, 27, 35, 55, 56, 57, 2A6, 2A7, 2B7 and 1-45, 46, 47, 59, 2A3, 2A5 2.5v.-C.T. 5.25A; 1-80 5.0v. 2.0A; Plate 650v.-C.T. 40MA	Price $2.00	Price $2.75
	Mtg. 2x2 1/2 c.c.	Mtg. 1 15/16 x 2 c.c.
	2 1/2 x 3 x 3 high	2 5/16 x 2 1/16 x 3 high
FOR 5 TUBES	No. 1717 GREBE (2-12)	No. 1788 LASSO
3-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7 and 1-45, 46, 47, 59, 2A3, 2A5 2.5v.-C.T. 7.0A; 1-80 5.0v. 2.0A; Plate 700v.-C.T. 50MA	Price $2.50	Price $3.00
	Mtg. 2x2 1/2 c.c.	Mtg. 2 1/16 x 2 c.c.
	2 1/2 x 3 x 3 1/4 high	2 5/16 x 3 x 3 high
FOR 6 TUBES	No. 1400 GRECO (3-12)	No. 1789 LATES
4-24, 27, 35, 55, 56, 57, 58, 2A6, 2A7, 2B7 2.5v.-C.T. 7.0A; 1-45, 46, 47, 59, 2A3, 2A5 2.5v.-C.T. 1.75A; 1-80 5.0v. 2.0A; Plate 700v.-C.T. 60MA	Price $3.00	Price $3.50
	Mtg. 2 1/2 x 3 1/16 c.c.	Mtg. 2 5/16 x 2 5/16 c.c.
	3 1/16 x 3 1/4 x 3 1/4 high	3x3 1/2 x 3 7/16 high

6.3 VOLT TUBE

	No. 1657 GUAMA (2-8)	No. 1762 LAZAR
FOR 4 TUBES	Price $1.80	Price $2.50
2-36, 37, 39, 44, 75, 76, 77, 78, 85, 92, 6A7, 6B7, 6C6, 6D6, 6F7 and 1-38, 41, 42, 79, 89, 6A4 6.3v. 1.6A; 1-80 5.0v. 2.0A; Plate 650v.-C.T. 40MA	Mtg. 2x2 1/2 c.c.	Mtg. 1 15/16 x 2 c.c.
	2 1/16 x 3 x 2 13/16 high	2 5/16 x 2 7/16 x 3 high



SPECIAL

Stock No. 1479 UVROU (6-4) Price $4.50
For 10 tubes. (Dim. A-1 3/4", B-2 7/16", C-3 1/4")

6-226	1.5v.-	@ 6.3 A
1-227	2.5v.-C.T.	@ 1.75 A
2-171A	5.0v.-C.T.	@ 0.5 A
1-280	5.0v.	@ 2.0 A
Plate	600v.-C.T.	@ 80 mils

Stock No. 1474 URIEL (6-2) Price $4.50
For 7 or 8 tubes. (Dim. A-2", B-3 1/16", C-3 1/2").

3-24, 27, 35, 55, 56, 57, 2A6, 2A7, 2B7	2.5v.-C.T.	@ 8.75 A
2-45, 46, 47, 59, 2A3, 2A5	2.5v.-C.T.	@ 3.5 A
1-80, 80M, 83, 5Z3	5.0v.-	@ 3.0 A
Plate	700v.-C.T.	@ 110 mils

GENERAL PUSH-PULL MOISTURE PROOFED TRANSFORMERS

GENERAL REPLACEMENT INPUT TRANSFORMER FOR "CLASS A" AMPLIFICATION

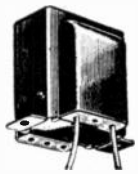
The exceptionally flat response curve of GENERAL audios assures true reproduction at all frequencies.

Audio Inputs, Outputs, and Chokes listed with A or B mounting we will supply with 2A or 2B mounting, respectively, when specified "with covered wire leads."

All Primaries matched to 10,000 ohm plate for type 27, 30, 37, 55, 56, 57, 76, 77, 6C6 tubes.



Type "C"



Type "1C"



Type "2C"

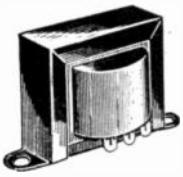
SINGLE PLATE TO SINGLE GRID

Ratio	Core Size	Type Mtg.	Mtg. C-C	DIMENSIONS H	D	W	Part No.	Weight, Lbs.	Code Word	Price
3:1	½x½	B	2	2	1¼	2⅜	3228	1	ARIES	$1.60
2:1	¾x¾	A	2⅛	2	1⅝	3⅜	1235	1	AXODE	1.75
3:1	¾x¾	A	2⅛	2	1⅝	3⅜	1247	1	AVISO	1.75
4:1	¾x¾	A	2⅛	2	1⅝	3⅜	1258	1	AVARS	1.75
2:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2230	1½	ATMAN	2.50
3:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2231	1½	ASTRO	2.50
4:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2232	1½	ASKOS	2.50
2:1	1x1	B	3	3⅛	2¼	3⅝	2200	2½	AZYME	2.50
3:1	1x1	B	3	3⅛	2¼	3⅝	2201	2½	AZOTE	2.50
4:1	1x1	B	3	3⅛	2¼	3⅝	2202	2½	AZINE	2.50
2:1	1x1	2C	2x2	3⅛	2⅝	2¾	2206	2½	AURIC	3.00
3:1	1x1	2C	2x2	3⅛	2⅝	2¾	2207	2½	ATTLE	3.00
4:1	1x1	2C	2x2	3⅛	2⅝	2¾	2208	2½	ATONY	3.00

SINGLE PLATE TO P.P. GRIDS

3:1	½x½	B	2	2	1¼	2⅜	3223	1	ARION	1.75
2:1	¾x¾	A	2⅛	2	1⅝	3⅜	1240	1	AWETO	1.90
3:1	¾x¾	A	2⅛	2	1⅝	3⅜	1254	1	AVENA	1.90
4:1	¾x¾	A	2⅛	2	1⅝	3⅜	1263	1	AVRUM	1.90
2:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2233	1½	ASURA	2.65
3:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2234	1½	ASBAI	2.65
4:1	¾x1	1C	2¾	2⅜	2⅛	2⅞	2235	1½	ASHIR	2.65
2:1	1x1	B	3	3⅛	2¼	3⅝	2203	2½	AZTEC	2.65
3:1	1x1	B	3	3⅛	2¼	3⅝	2204	2½	AZOIC	2.65
4:1	1x1	B	3	3⅛	2¼	3⅝	2205	2½	AYMON	2.65
2:1	1x1	2C	2x2	3⅛	2⅝	2¾	2209	2½	AULIC	3.25
3:1	1x1	2C	2x2	3⅛	2⅝	2¾	2210	2½	ATTAR	3.25
4:1	1x1	2C	2x2	3⅛	2⅝	2¾	2211	2½	ATOLL	3.25

Interstage from pushpull to pushpull. Same dimensions as No. 2210—see above.....1210 AZCOT (2-4) $4.00
To couple 24 to pushpull 45, same dimensions as No. 2210—see above..... 235 ARYAN (2-4) 3.75



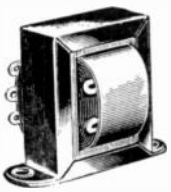
Type "A"

SET-BUILDERS AUDIOS

Application	Ratio	Core	Mtg. Type	Mtg. C-C	Dimensions H	D	W	Part No.	Wt.	Code Word	Price
Single Plate to Single Grid.....	2–1	⅝x⅝	2A	2⅜16	1⅝	1¼	2⅞	1277	0-12	LABIO	$1.05
Single Plate to Push Pull Grid.....	2–1	⅝x⅝	2A	2⅜16	1⅝	1¼	2⅞	1278	0-12	LACET	1.10
Single Plate to Single Grid.....	3–1	¾x¾	2A	2 13/16	2	1⅝	3⅜	1279	1-0	LACTI	1.30
Single Plate to Push Pull Grids....	3–1	¾x¾	2A	2 13/16	2	1⅝	3⅜	1280	1-0	LADLE	1.40
Single Plate to Push Pull Grid.....	3–1	¾x¾	2A	2 13/16	2	1⅝	3⅜	1283	1-0	LAMIA	1.65
Single Plate to Single Grid.....	3–1	1x1	2A	3 9/16	2 9/16	2¼	4	1281	2-2	LAEMO	1.55
Single Plate to Push Pull Grids....	3–1	1x1	2A	3 9/16	2 9/16	2¼	4	1282	2-2	LAIRD	1.60

OUTPUT TRANSFORMERS

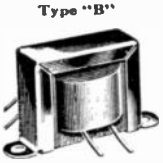
To Feed From	To	Core	High	Depth	Lgth.	Mtg. c-c	Mtg.	No.	Wt.	Code	Price
12A5, 31, 43, 45, 50, 53, 71A.....	6 to 15 Ohm Voice Coil	¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1345	(1)	OUABE	$1.50
2A5, 33, 41, 42, 47, 79, 89, 6A4.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1347	(1)	OUIJA	1.50
10, 12A, 26, 38.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1323	(1)	OUPHE	1.50
48, 59, 2A3.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1397	(1)	OVINE	1.50
P. P. 19, 31, 43, 45, 53, 71A.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1346	(1-6)	OVOLO	1.65
P. P. 33, 41, 42, 47, 79, 89, 6A4....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1319	(1-6)	OWLET	1.65
P. P. 10, 12A, 26, 38.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1348	(1-6)	OXEYE	1.65
P. P. 48, 59.....		¾x¾	2⅜8	1⅝	2⅞	2⅜8	B	1396	(1-6)	OXIME	1.65
P. P. 2A3.....		1x1	2 9/16	2¼	4	3 9/16	A	1394	(2-4)	OXTER	2.50
P. P. 2A5.....		1x1	2 9/16	2¼	4	3 9/16	A	1395	(2-4)	OXRAY	2.50
P. P. 50.....		1x1	2 9/16	2¼	4	3 9/16	2A	1320	(2-4)	OYEZ	2.50



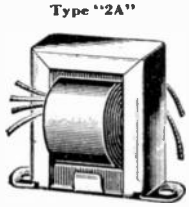
Type "B"

SPECIAL OUTPUTS FOR MIDGETS & AC-DC SETS.

Tubes	To	Core	High	Depth	Lgth.	Mtg. c-c	Mtg.	No.	Wt.	Code	Price
12A5, 43, 48.....	6 to 15 ohm Voice Coil	½x½	1⅝8	1⅛8	2⅜8	2"	A	345	1	OTTER	$0.90
33, 41, 42, 47, 31.....		½x½	1⅝8	1⅛8	2⅜8	2"	2A	344	1	OTOMI	.90
38.....		½x½	1⅜8	1⅛8	2⅜8	2"	2A	343	1	OSTEO	.90
12A5, 43, 48.....		⅝x⅝	2"	1¼	2⅜8	2"	B	318	1	OSSET	1.10
33, 41, 42, 47, 31.....		⅝x⅝	2"	1¼	2⅜8	2"	2B	314	1	OSONE	1.20
38.....		⅝x⅝	2"	1¼	2⅜8	2"	2B	306	1	OSMIC	1.20



Type "2A"



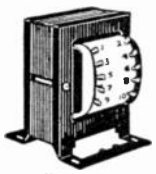
Type "2B"

FILAMENT TRANSFORMERS

May be used in tube tester, preamplifiers, short wave adapters, etc. Their flexibility makes them indispensable to the laboratory or experimenter.

Sec. 2½ volts—5¼ Amps., Size—1⅞x2⅞x2⅜ high—Holes 2⅜" c.c., Mtg. "2B"...	1416	(1-4)	FIARA	$1.75
Sec. 6.3 volts—3. Amps., Size—1⅞x2⅞x2⅜ high—Holes 2⅜" c.c., Mtg. "B"...	1052	(1-4)	FILIX	2.00
Sec. 2½ volts—12 Amps. C.T. Size—2¼x3⅝x3½ high—Holes 3⅜" c.c., Mtg. "B"	1004	(1-4)	FIBRO	2.50
Sec. 5.0 volts—6 Amps. C. T. Size 1⅞x3¾x2¼ high—Holes 3 1/16" c.c., Mtg. "2A"	2095	(1-8)	FORTE	2.25
Height 3⅛ — Depth 2¼ — Length 3⅝ — Mounting Centers 3 1/16, Mtg. "B" 6.3v.-4.0 A.—5.0v.-3.0 A (Filament Transformers—All Pri. 115v.-60 cycle)....	1054	(3)	FIDES	$2.50

GENERAL PUSH-PULL MOISTURE PROOFED TRANSFORMERS



Type "E"

CHOKES

Inductances given are not the "30-henries" commercial ratings, but ACTUAL MEASURED VALUES.

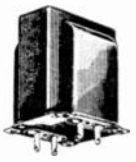
Henries	Mils	Res	Core	High	Depth	Lgth.	Mtg. c-c	Mtg.	No.	Wt.	Code	Price
11	50	400 ohms	¾x¾	2⅜	1⅝	2⅞	2⅜	B	1120	(1)	CHAJA	$1.40
7	75	300 ohms	⅞x⅞	2¼	1⅞	3⅜	3⅛	2A	1122	(1-8)	CHAMA	1.60
12	100	300 ohms	1x1	3⅛	2¼	3⅝	3⅛	B	1125	(2-6)	CHANK	2.00
For Amateur Transmitters and Large P.A. Amplifiers												
6	150	150 ohms	1x1	3½	2¼	3⅝	3¼	B	1111	(2-6)	CHARM	2.50
8	200	150 ohms	1¼x1	4½	3	3½	2⅞x2	E	1112	(4-4)	CHARY	4.00
8	250	125 ohms	1¼x1¼	4½	3¼	3½	2⅞x2½	E	1113	(4-8)	CHASM	4.50
7	300	95 ohms	1¼x1½	4½	3½	3½	2⅞x2¾	E	1114	(4-12)	CHATI	5.00
10	500	75 ohms	1½x2¼	4½	4	4	3¼x3⅜	E	1155	(10)	CHAUS	7.50
5–15	300	50 ohms	1¼x1	4½	3	3½	2⅞x2	E	1153	(4-4)	CHAYA	4.00
AC-DC—These chokes for replacement in any of the popular AC-DC sets "B" mounting 2" c-c.												
4	30	200 ohms	½x½	1½	1⅛	2⅜	2	A	5104	(1)	CHAZA	.90
5	30	300 ohms	½x½	1⅝	1⅛	2⅜	2	A	5108	(1)	CHAUN	.90
7	30	400 ohms	½x½	1⅝	1⅛	2⅜	2	A	5112	(1)	CHELA	.90
8	30	500 ohms	½x½	1⅝	1⅛	2⅜	2	A	5116	(1)	CHERT	.90
8	30	250 ohms	⅝x⅝	2	1⅛	2⅜	2	B	1129	(1)	CHADS	1.40
10	30	400 ohms	⅝x⅝	2	1⅛	2⅜	2	B	1127	(1)	CHAPE	1.50
10.5	30	500 ohms	⅝x⅝	2	1⅛	2⅜	2	B	1137	(1)	CHARA	1.65
11.0	30	600 ohms	⅝x⅝	2	1¼	2⅜	2	B	1138	(1)	CHARD	1.80
Center Tapped Chokes												
12 C. T.	100	300	1x1	3⅛	2¼	3⅝	3⅛	B	1185	(2-6)	CHIAN	2.25
6 C. T.	150	150	1x1	3⅛	2¼	3⅝	3⅛	B	1186	(2-6)	CHICO	2.75



AC-DC Chokes



Type 1C



Type C

MICROPHONE and INPUT TRANSFORMERS

A Double Button Microphone Transformer of superior quality. The frequency response is exceptionally flat between 100 and 8000 cycles. The primary impedance is matched to standard microphones having a resistance of 200 ohms per button. The secondary impedance is 450,000 ohms. The transformer if fully shielded from stray fields.

No. 1006 "C" Mtg. ..... MIZAR (2-8) $4.50
Core 1x1. Mounting Hole Centers 2x2⅛". Overall, 2⅜"x2⅝"x3⅛" high.

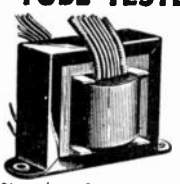
No. 1026 "C" Mtg. ..... MITRA (2-8) $5.00
Double Button Micro-phono Input. The microphone characteristics are identical to No. 1006. The pickup impedance is matched to the standard pickup heads.
Type C mounting. Overall, 3⅛"x2⅝"x2¾". Hole centers, 2"x2⅛".

These microphone transformers have a very flat response. The primary is matched to a standard 200 ohm microphone. The secondary impedance is about 400,000 ohms. Leads soldered to lugs. Black japanned steel frame.
For Single Button Type 2B. Size 1⅞"x2⅞"x2¾" high.
No. 1001 ..... MOIRE (1-2) Price $2.25
For Double Button Type 2B. Size 1⅞"x2⅞"x2⅝" high.
No. 1002 ..... MIZRA (1-2) Price 2.50

MICROPHONE MIDGET UNITS

	Res. Ohms	To	Size	Mtg.	Part No.	Code Word	Price
Telephone Mike	75	Grid	2⅜ c.c. 1¼x2⅛x 1⅜ high	2A	8004	JABOT	$1.30
Single Button	200	Grid	2⅜ c.c. 1¼x2⅛x 1⅜ high	2A	8001	JACAL	1.30
Velocity (Ribbon)	.05	Grid	2⅜ c.c. 1¼x2⅛x 1⅜ high	B	1065	MIZZY	1.65
Double Button	200-0-200	Grid	2⅜ c.c. 1¼x2⅛x 1⅜ high	2A	8000	JAINA	1.40
Single Button	200	Grid	2⅜ c.c. 2⅛x2⅛x 2⅜ high	1C	8005	JALAP	1.90
Double Button	200-0-200	Grid	2⅜ c.c. 2⅛x2⅛x 2⅜ high	1C	8006	JANTU	2.00
Velocity Ribbon	.05	50-200	2⅜ c.c. 2⅛x2⅛x 2⅜ high	1C	4045	JANUS	2.50

TUBE TESTER PLATE AND FIL. TRANS.



In addition to the conventional filament voltages, this transformer has a plate winding, the voltage of which may be impressed directly to the plate of the tube under test. If a D-C voltage is desired on the tube under test, an 84 type tube may be used as a half wave rectifier.

All leads are color coded and a diagram of connections is included.

TUBE TESTER FIL. TRANS.

No. 1063 Pri 115v.-60 cy. Sec. 1.5, 2.0, 2.5, 3.3, 5.0, 6.3, 7.5, 15, 25, 30. Type 2A ..... TESTA (2-9) $2.75
No. 2033 THEOW (3) $3.50
Pri. 115v.-60 cycles.
Fil. Sec. 1.5, 2.0, 2.5, 3.3, 5.0, 6.3, 7.5, 15, 25, or 30 volts at 2.0 Amperes.
Plate Sec. 250v. A-C at 40 MA.
Dimensions—2⅛" high, 4" wide over mounting brackets; 2¼" deep. c.c. 3⅛".
115 volt 25-40 cycle. Price $4.60.
220 volt 60 cycle or 150 volt 50 cycle. Price $4.50.
Specify primary voltage and cycle when other than 115 v.-60 cy.

Condenser Analyzer Transformer

(For simple rectified A.C. power-pact for test purposes.)
No. 2049 60 cy. power transformer, H Mounting for 201A rectifier, 800v tapped 700, 600, 400, 200v at 20MA A.C. no C.T. 2⅝" high, 3" wide and 1⅞" deep. Mounting hole centers 2½" x 1⅝". Type H ..... PUNTA Price $3.50

Class B Output

2315 THEUD (2-4) $3.75
Output transformer to couple 1-53 Class B or 2-2B6's in Class A to a load of 3.75, 7.5, 15 or 500 ohms. Type C mtg. 3⅛" high, 2⅝" wide, and 2⅜" deep. Mounting hole centers 2"x2⅛". "C" mtg. 2⅜"x2⅝"x3⅛" high.

LINE TRANSFORMERS "B" MTG.

No. 1055 200 or 500 ohm line to grid of tube. . . . MIRA (2-2) Price $3.00
No. 1056 200 or 500 ohm line to 2 to 30 ohm voice coil in 2 ohm steps. . . . . MINX (2) Price $2.75
No. 1393 P. P. or Single Tube to 200 or 500 ohm line . . . . . MINOS (2) Price $3.00
Overall—1⅞"x1⅞"x2⅜" high
Mounting centers 2⅜". "B" mtg.

AUDIO CHOKES

Size—3⅜x1⅝x2 inches high. Mounting c-c. 2⅛—"A" mtg.
No. 1207 75,000 ohms impedance . . . . . FUKA (1) Price $1.90
No. 117 500,000 C. T. ohms impedance . . . . . PUDIC (1-6) Price 2.15

Dynamic Speaker Field Supply Transformer

2004 PUNIC (3-8) $2.50
Primary 115 volts 60 cycle.
Secondary 225 volts .200 amperes center tapped.
Filament winding—5.0 volts—3 amperes.
Type P mounting 2¼" x 2⅛" c.c. 2⅜" x 3¼" x 3" high.
150v or 220v 60 cycle above list plus $1.00
115v 25-42 cycle above list plus 60%
220v 25 cycle above list plus 75%

PHILCO

Input and Interstage Audio	Part No.	Code	Wt.	List
Trafsitone . . . . . 1st Audio	3212	PIKA	(1-6)	$2.25
511, 521 (Chassis) . . . . . Interstage Audio	3212	PIKA	(1-6)	2.25
30, 40, 41, 42, 73, 76, 77, 77A, 82, 83, 86, 87 . . . . . P.P. Input	3211	PICUS	(1-6)	2.25
20, 20A, 21, 220, 220A . . . . . P.P. Input	3210	PILCH	(1)	1.75
62, 65, 92, 95, 96, 96A, 111, 111A, 211, 211A, 296, 296A . . . . . P.P. Audio Input	3213	PICEA	(2-4)	2.90
(For 245 Tubes), 112, 112A, 212, 212A . . . . . P.P. Audio Input	3213	PICEA	(2-4)	2.90
Input Audio Mod. 90 and 90A	3239	PYXIS		2.25
Outputs and Chokes				
70, 70A, 270, 270A, 370, 370A, 470, 470A, 570, 570A, Transitone No. 3, also 90, 90A, 490, 490A (using 1-247 tube) . Output	1371	PIMAN	(1-6)	2.15
20, 20A, 21, 40, 41, 46, 42, 62, 65, 73, 76, 77, 77A, 82, 83, 86, 87, 92, 95, 96, 96A, 111, 111A, 211, 211A, 220, 220A 296, 296A, 346 . . . . . P.P. Output	1370	PILUS	(1-6)	2.15
(For 245 tubes), 90, 90A, 112, 112A, 212, 212A . . . . . P.P. Output	1370	PILUS	(1-6)	2.15
30, 62, 65 . . . . . Audio Choke	1142	PINDA	(1-6)	$2.15
15, 15A, 50, 51, 42, 62, 65, 73, 76, 77, 77A, 83, 87, 92, 95, 96, 96A, 111, 111A, 112, 112A, 211, 211A, 212, 212A, 296, 296A . . . . . 1st pos. Choke	1140	PINAX	(2-4)	2.35
83, 87 . . . . . 2nd pos. Choke	1141	PINCY	(2-4)	2.55
Model 20 Choke	149	PINTO	(1-6)	1.90
Double Choke Unit Mod. 500 series (Z-224) . .	1170	PYRUS	Price	4.00

G. E. Input Trans. for GE model K-80.
No. 3244 PYGAL (1-8) $2.00
Clarion—P.P. Input for Model AC-60.
No. 3225 PUYA (2-4) $3.75
Majestic-Filter Choke for Model 210.
No. 1173 PURIM (2-6) $2.00
Majestic Pack Detector Filter Choke for Model 9P6-2000 ohms resistance.
No. 1162 PUPPY (2-6) $2.50
Audios for RCA. 44-46 and other sets employing 24 to 45's use unit No. 235, page 3 form 31.
RCA Victor 1934 model 141.
No. 2381 REDAN $1.75

JEFFERSON TRANSFORMERS

UNIVERSAL REPLACEMENT POWER TRANSFORMERS

For all service requirements. Careful selection and combination of windings to meet the needs of the service man and experimenter. Conservatively rated and liberally constructed to give long, efficient service. Finest quality materials used throughout.

FEATURES: 1. All units varnish impregnated and baked. 2. Universal combination filament windings permit use of 2.5, 5 and 6.3 volt tubes. 3. Identical characteristics in various mountings. 4. Individually packed in neat blue and white box.

FREE REPLACEMENT GUIDE: Carefully compiled chart shows, at a glance, the proper replacement unit for nearly 1900 standard radio sets.

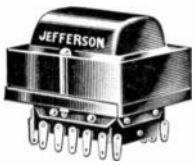


Fig. A

HALF SHELL mounting, convenient for flush mounting with solder lug terminals for sub panel wiring. Easily installed. Listing arranged in order of popularity.

5 to 8 Tubes. Pri. 115 Volts, 50-60 Cycles. Plate 340V. D.C.—50 MA. Fil. 5V—2A. Univer. Fil. 6.3V.—2A. or 2.5V.—7A., CT.

Cat. No. 463-281 ..... **List Price $3.50**
Size: 2 $\frac{9}{16}$x3x2¼ in. Weight: 3½ lbs.

4 to 5 Tubes. Pri. 115 Volts, 50-60 Cycles. Plate 300V. D.C.—40 MA. Fil. 5V. 2A. Fil. 2.5V.—4A., CT.

Cat. No. 463-451 ..... **List Price $2.25**
Size: 2 $\frac{9}{16}$x3x1¾ in. Weight: 2½ lbs.

7 to 10 Tubes. Pri. 120-110 Volts, 50-60 Cyc. Plate 350V. D.C.—85 MA. Fil. 5V.—2A. Fil. 2.5V.—8.75A., CT; Fil. 2.5V.—3.5A. CT;

Cat. No. 463-271 ..... **List Price $4.50**
Size: 3¼x3⅞x2 $\frac{9}{16}$ in. Weight: 5¼ lbs.

5 to 7 Tubes. Pri. 115 Volts, 50-60 Cycles. Plate 340V. D.C.—70 MA. Fil. 5V.—2A. Fil. 2.5V.—8.5A., CT.

Cat. No. 463-421 ..... **List Price $3.50**
Size: 3¼x3⅞x2⅛ in. Weight: 4 lbs.



Fig. C

FULLY SHIELDED upright type housing with leads brought out through grommeted holes in base. Color coded leads identify all the windings. Makes easy and neat appearing installation possible. Listed in order of popularity.

7 to 13 Tubes. Most popular replacement power transformer listed. Pri. 120-110 Volts, 50-60 Cycles. Plate 360 V. D.C.—125 MA. Fil. 5V.—3A. Fil. 2.5V.—1.75A., CT; Fil. 2.5V.—12.2A., CT; Univ. Fil. 6.3, 5, 2.5V.—4A., CT.

Cat. No. 463-361 ..... **List Price $5.00**
Size: 3 $\frac{13}{16}$x3 $\frac{43}{64}$x5 $\frac{13}{32}$ in. Weight: 8 lbs.

7 to 11 Tubes. Pri. 120-110 Volts, 50-60 Cyc. Plate, 350V. D.C.—85 MA. Fil. 5V.—3A. Fil. 2.5V.—9A., CT; Univ. Fil. 6.3, 5, 2.5V.—3.5A., CT.

Cat. No. 463-351 ..... **List Price $4.50**
Size 3 $\frac{9}{16}$x3 $\frac{11}{16}$x4 $\frac{13}{32}$ in. Weight: 5½ lbs.

5 to 7 Tubes. Pri. 115 Volts, 50-60 Cycles. Plate 320 V. D.C.—60 MA. Fil. 5V—2A. Univ. Fil. 6.3V.—2A. and 2.5V.—7A., CT.

Cat. No. 463-381 ..... **List Price $3.50**
Size: 2 $\frac{13}{32}$x3 $\frac{1}{16}$x3 $\frac{9}{16}$ in. Weight: 3½ lbs.

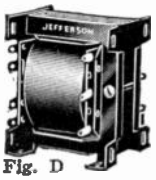


Fig. D

UNIVERSAL type bracket which permits transformer to be mounted in horizontal or vertical position. Clearly marked solder lug terminals.

7 to 13 Tubes. Universally mounted transformer. Same electrical characteristics and same windings as 463-361 described in adjacent column.

Cat. No. 463-261 ..... **List Price $5.00**
Size: 3⅞x4 $\frac{13}{32}$x3⅞ in. Weight: 7¾ lbs.

7 to 11 Tubes. Identical electrically with the 463-351 described at left. Ideal for replacement in order type sets.

Cat. No. 463-251 ..... **List Price $4.50**
Size: 3⅞x4x3¼. Weight: 5¼ lbs.

Replacement transformer for sets using '26 tubes. Pri. 120, 110 Volts, 50-60 Cycles. Plate 320V. D.C.—75 MA. Fil. 5V.—2A. Fil. 2.5V.—3.5A., CT; Fil. 5V.—0.6A., CT; Fil. 1.5V.—4.3 A; Fil. 1.5V.—1.2A., CT.

Cat. No. 463-241 ..... **List Price $4.50**
Size: 3⅝x4x3-15/64 in. Weight: 4½ lbs.

Note: This transformer is also available in fully shielded housing (Cat. No. 463-341) at the same price.

DOUBLE HALF SHELL transformers with filaments for the new 6.3 volt tubes. Coded leads are brought out through grommeted holes in lower half shell. The lower shell need not necessarily be used if mounting is more convenient without.

7 to 11 Tubes. Transformer has same electrical characteristics as 463-351 described above.

Cat. No. 463-371 ..... **List Price $4.50**
Size: 3¼x3⅞x2 $\frac{25}{32}$ in. Weight: 5½ lbs.

7 to 13 Tubes. Identical electrically with 463-361 described above.

Cat. No. 463-461 ..... **List Price $5.00**
Size: 3 $\frac{13}{16}$x4 $\frac{13}{32}$x2 $\frac{25}{32}$ in. Weight: 7¾ lbs.



Fig. DD

FILTER CHOKES

Smoothing and swinging filter chokes in both open and shielded type construction. Rated in actual inductance with full D.C. flowing.


Fig. EE

FILTER CHOKES

Cat. No.	Mtg.	Hen.	DC.MA.	Resist.	Size	Wt.	Price
466-420	DD	15	30	515	2⅝x1 $\frac{13}{16}$x1 $\frac{5}{16}$	½	$0.90
466-390	DD	20	50	425	3¼x1 $\frac{7}{16}$x2	1	1.30
466-290	EE	50	60	1400	2 $\frac{7}{16}$x2 $\frac{5}{16}$x3 $\frac{1}{16}$	2½	1.75
466-400	DD	8	80	245	3¼x1 $\frac{7}{16}$x2	1	1.20
466-410	DD	10	100	275	3¼x2 $\frac{1}{16}$x2	1¼	1.45
466-260	DD	5	120	150	2 $\frac{7}{16}$x1 $\frac{5}{16}$x2 $\frac{5}{16}$	1	1.00
466-220	DD	10	150	200	4 x2 $\frac{1}{16}$x2½	2¼	1.75
				SWINGING CHOKES			
466-190	EE	8-2.7	50-150	80	2 $\frac{7}{16}$x2 $\frac{5}{16}$x3 $\frac{1}{16}$	2½	2.25
466-300	EE	6-3	120-200	75	2¾x2 $\frac{5}{16}$x3 $\frac{1}{16}$	2¾	2.50



Fig. GG

JEFFERSON 466-210 CHOKE

A special value filter choke of open type construction having high inductance and liberal capacity. Inductance 15 henries designed to carry 150 MA. D.C. and has a D.C. resistance of 425 ohms. Size: 3x2 $\frac{5}{16}$x4¼ in. Weight 3½ lbs.

Cat. No. 466-210 ..... **List Price $1.75**

BUILD YOUR OWN

AMPLIFIER

Powerful amplifiers, simple to construct and easy to wire, with assurance of superior performance are built using the Jefferson amplifier chassis and following circuits developed in the Jefferson laboratory. Send for detailed information:

Bulletin PA-2 20 Watt—Class B 59's
Bulletin PA-4 15 Watt—PP 2B6's
Bulletin PA-5 15 Watt—2A3's
Bulletin PA-6 38 Watt—Par. P.P. 45's
Bulletin PA-8 15 Watt—HiGain P.P. 2A3's
Bulletin PA-9 20 Watt—D.C. Convertible
Bulletin PA-10 18 Watt—6F6 Metal Tube
Bulletin PA-11 20 Watt—P.P. 6B5's
Bulletin PA-12 60 Watt—P.P. 6L6's

CQ!

AMATEURS

Jefferson Amateur Filament, Plate, Driver, Modulation and Mixing Transformers are known the world over for their high quality and dependability. Write or call for complete catalog listing these transformers.

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JEFFERSON TRANSFORMERS



Fig. E


Fig. F



Fig. G


Fig. H

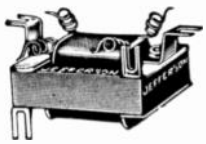

Fig. J


Fig. P

AUDIO COUPLING TRANSFORMERS

The latest Jefferson coupling transformers, designed for practically all audio uses. High quality, precision built units featuring cores of high grade silicon steel laminations, annealed after stamping, vacuum dried and impregnated coils and careful assembly to rigid test specifications.

Cat. No.	Fig.	Primary	Secondary	Dimensions	Ratio	List Price
			STRAIGHT AUDIOS			
467-164	J	56, 27, 30, 2B7, etc., Class "A"	1—56, 27, 45, 47, etc., Class "A"	3 5/16 x1 5/16 x2 5/16"	1 to 2	$1.25
467-401	E	56, 27, 30, 2B7, etc., Class "A"	1—56, 27, 45, 47, etc., Class "A"	2⅞x1⅝x1¾"	1 to 2	1.05
467-403	E	56, 27, 30, 2B7, etc., Class "A"	1—56, 27, 45, 47, etc., Class "A"	3¼x1⅞x2 "	1 to 3	1.30
467-116	F	56, 27, 30, 2B7, etc., Class "A"	1—56, 27, 45, 47, etc., Class "A"	2⅞x2⅞x2½"	1 to 5	2.00
467-405	E	56, 27, 30, 2B7, etc., Class "A"	1—56, 27, 45, 47, etc., Class "A"	3¼x2⅛x2 "	1 to 4	1.55
			PUSH PULL INPUTS			
467-402	E	56, 27, 30, etc., Class "A"	PP—71, 45, 47, 42, etc., Class "A"	2⅞x1⅝x1¾"	1 to 2	1.10
467-404	E	56, 27, 30, etc., Class "A"	PP—71, 45, 47, 42, etc., Class "A"	3¼x1⅞x2 "	1 to 3	1.40
467-406	E	56, 27, 30, etc., Class "A"	PP—71, 45, 47, 42, etc., Class "A"	3¼x2⅛x2 "	1 to 4	1.65
467-408	E	56, 27, 30, etc., Class "A"	PP—71, 45, 47, 42, etc., Class "A"	4 x2¼x2½"	1 to 4	2.05
467-105	F	56, 27, 30, etc., Class "A"	PP—71, 45, 47, 42, etc., Class "A"	2¾x3 x3⅛"	1 to 4	2.60
467-168	G	Universal Class "A"	Single or P.P., Class "A"	2⅞x2⅛x2 "	1 to 3	1.60
			INTERSTAGE PUSH PULL			
467-454	Case	"Humfree" Class "A"—	Balanced Windings	2¾x2⅜x3¾"	1 to 4	5.00
467-455	H	Series—Parallel Primary—	Ct. Sec. Windings	2¾x2½x3⅛"	1.75/2 to 1	3.00
			OUTPUT TRANSFORMERS		Weight	
467-409	E	7000/ct. Ohms—2 Watts	4 to 6 Ohms (71, 45, etc.)	2⅞x1⅝x1¾"	½ lb.	1.00
467-170	G	Universal/PP—4 Watts	1 to 30 Ohms (Tapped)	2⅞x2 5/16 x2 "	1 lb.	1.60
467-410	E	7000/Ct. Ohms—3½ Watts	6 to 8 Ohms (71, 45, etc.)	3¼x1⅞x2 "	1 lb.	1.15
467-176	G	Universal/PP—6 Watts	1 to 30 Ohms (Tapped)	2⅞x2½x2 "	1⅓ lbs.	2.00
467-425	E	Universal/PP—4 Watts	1 to 30 Ohms (Tapped)	2⅞x2 5/16 x2⅜"	1 lb.	1.55
467-411	E	14000/Ct. Ohms—6 Watts	10 to 15 Ohms (42, 47, etc.)	3¼x2⅛x2 "	1¼ lbs.	1.30
467-459	E	Midget Univ. PP—2 Watts	7000 to 2, 3, 6, 9 Ohms	2 5/16 x1⅝x1 13/16"	½ lb.	1.35
			DRIVER'S (CLASS "B" OR "AB")			
467-458	E	Single 30 (56) Class "A"	Single 19 (Class "B")	2⅞x1⅝x1¾"	½ lb.	1.50
467-428	P	PP76's (56's) Class "A"	P.P. 53's (6A6's) Class "B"	2⅞x2 1/16 x2½"	1½ lbs.	2.35
467-271	P	Single or PP. 59 (46) Class "A"	P.P. 59's (46's) (or 4) Class "B"	2¾x3⅛x3⅛"	2½ lbs.	3.00
467-461	H	Single 6F6 Class "A"	P.P. 6F6's (AB—Pentode)	2¾x2 1/16 x3⅛"	2½ lbs.	3.00
			MICROPHONE TRANSFORMERS			
467-414	E	D. B. Mike (200-0-200)	Single Grid	3¼x1⅞x2 "	1 lb.	1.40
467-413	E	Single B. Mike (200)	Single Grid	3¼x1⅞x2 "	1 lb.	1.30
467-263	F	D. B. Mike (200-0-200)	Single Grid	2⅞x3 x2½"	1½ lbs.	2.00
467-262	F	D. B. Mike (200-0-200)	Single Grid	2¾x3⅛x3⅛"	2½ lbs.	3.75
467-261	F	Single B. Mike (200)	Single Grid	2⅞x3 x2½"	1½ lbs.	1.90
467-421	Hum Free	D. B. Mike or Line 50, 100, 200, 400	Single or P.P. Grids	2¾x2⅜x4⅛"	DeLuxe	8.00
			MIXING TRANSFORMERS			
467-178	P	200/500 Ohm Line	Single or P.P. Grids	2⅞x3 x2½"	1½ lbs.	2.50
467-177	P	25,000 Ohm (Preamp. Plate)	200/500 Ohm Line	2⅞x2 13/16 x2½"	1½ lbs.	2.50
467-438	E	250/500/1000 Ohm—12 Watt	3, 6, 9, 15 Ohm Voice Coil	4 x2⅛x2½"	2¼ lbs.	2.95

THIS REPRESENTS ONLY PARTIAL LISTING OF AVAILABLE JEFFERSON UNITS

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POWER TRANSFORMERS
..RECEIVERS AND AMPLIFIERS..

THORDARSON

THORDARSON TRANSFORMERS COST YOU LESS MONEY. The name THORDARSON on a transformer or choke, has been a guarantee of full value for every penny spent for almost half a century. DON'T BE MISLED. Every THORDARSON transformer you buy has 38% more content of copper and other essential materials. These mighty, stamina packed power producers, today as well as 40 years ago, live up to their heritage. A THORDARSON transformer on any job will surpass its guarantee. Whether you are a serviceman, radio engineer or "Ham"—demand POWER BY THORDARSON.


2-G


2-U


2-U


2-H

Half Shell Mounting TYPE 2H

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.; 5 V. at 2 amps. 3"x2 1/2"x2 3/8" high, Wt.—3 lbs.
T-6049 ..... List $2.00

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. 3 1/8"x3 1/4"x3 3/8" high, Wt.—6 lbs.
T-7547 ..... List $3.75

4 to 5 Tubes—2.5 Volts
For 2-24, 27, or 3-56, 57; 1-47, 2A5; 1-80; Secondary—620 V. C.T. at 40 m.a.; 2.5 V. at 5 amps. C.T. 5 V. at 2 amps. 3 1/2" x3"x3" high, Wt.—4 lbs.
T-5002 ..... List $2.75

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. 3 1/8"x2 1/8"x3" high, Wt.—4 lbs.
T-7020 ..... List $2.75

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. 3 1/8"x3 1/4"x3 3/8" high, Wt.—5 lbs.
T-4900 ..... List $3.25

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. 3 1/8"x3 1/4"x3 3/8" high, Wt.—5 lbs.
T-6362 ..... List $3.50

6 to 8 Tubes—6.3 Volts and 2.5 Volts
For 5 or 6-76, 77, 78, 6C5, 6K7, 6F5; 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.; 5V. at 2 amps. 3 1/8"x 3 1/4"x3 3/8" high, Wt.—5 lbs.
T-7021 ..... List $3.50

UPRIGHT SHIELDED MOUNTING TYPE 2G

4 or 5 Tubes—6.3 Volts
For 2 or 3-76, 77, 78, 6C5, 6K7, 6F5; 1-42, 6F6; 1-80, 5Z4; Secondary—680 V. C.T. at 55 m.a.; 6.3 V. at 1.5 amps. C.T.; 5 V. at 2 amps. 3 1/4"x3 1/4"x4 1/8" high, Wt.—6 lbs.
T-7078 ..... List Price $3.00

6 to 8 Tubes—6.3 Volts
For 5 or 6-76, 77, 78, 6C5, 6K7, 6F5; 1-42, 6F6; 1-80, 5Z4; Secondary—770 V. C.T. at 70 m.a.; 6.3 V. at 2.5 amps. C.T.; 5 V. at 2 amps. 3 1/4"x3 1/4"x4 1/8" high, Wt.—6 1/2 lbs.
T-7061 ..... List Price $4.00

10 Tubes—1.5 Volts
For 5-26; 2-27; 2-71A; 1-80; Secondary—650 V. C.T. at 70 m.a.; 1.5 V. at 1 amp.; 1.5 V. at 4 amps.; 2.5 V. at 3 amps. C.T.; 5 V. at 5 amps. C.T.; 5 V. at 2 amps. 3 1/4"x3 1/4"x4 1/8" high, Wt.—7 lbs.
T-5601 ..... List Price $4.50

7 to 11 Tubes—2.5 Volts
For 5-27, 24, or 9-56, 57; 1-47, 2A5; 1-80; Secondary—700 V. C.T. at 70 m.a.; 2.5 V. at 9 amps. C.T.; 2.5 V. at 1.5 amps. C.T.; 5 V. at 2 amps. 3 1/4"x3 1/4"x4 1/8" high, Wt.—7 lbs.
T-5602 ..... List Price $4.25

11 Tubes—2.5 and 1.5 Volts
For 7-26; 1-27; 2-45, 47, 2A5; 1-80; Secondary—700 V. C.T. at 105 m.a.; 2.5 V. at 3 amps. C.T.; 2.5 V. at 1.75 amps. C.T.; 1.5 V. at 5 amps.; 1.5 V. at 1 amp.; 5 V. at 3 amps. 3 1/4"x3 1/4"x5" high, Wt.—8 lbs.
T-5603 ..... List Price $5.50

8 to 12 Tubes—2.5 Volts
For 5-24, 27 or 9-56, 57; 2-47, 2A5; 1-80; Secondary—700 V. C.T. at 105 m.a.; 2.5 V. at 12 amps. C.T.; 5 V. at 3 amps. 3 1/4"x3 1/4"x5" high, Wt.—8 lbs.
T-5504 ..... List Price $5.25

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 V. C.T. at 145 m.a.; 6.3 V. at 4.5 amps. C.T.; 5 V. at 3 amps. 3 1/4"x3 1/8"x5" high, Wt.—8 lbs.
T-7062 ..... List Price $5.50

10 to 15 Tubes—2.5 Volts
For 7-24, 27 or 12-56, 57; 2-47, 2A5; 1-80; Secondary—700 V. C.T. at 110 m.a.; 2.5 V. at 9 amps. C.T.; 2.5 V. at 3 amps. C.T.; 2.5 V. at 3 amps. C.T.; 5 V. at 3 amps. 3 1/4"x3 1/4"x5" high, Wt.—9 lbs.
T-5605 ..... List Price $5.75

10 Tubes—6.3 Volts
For 6-76, 6C6, 6J7, 6C5, etc.; 2-42, 6F6, etc.; 1-82; 1-83, 5Z3, 5Z4; Secondary—880 V. C.T. at 125 m.a.; (Bias tap for 38 V.); 6.3 V. at 3 3 amps. C.T.; 2.5 V. at 3 amps.; 5 V. at 3 amps. 3 1/4"x3 1/4"x5" high, Wt.—8 lbs.
T-7428 ..... List Price $6.50

9 to 14 Tubes—2.5 Volts
For 5 to 9-56, 57; 2 to 4-2A3; 1-83, 5Z3; 1-80; Secondary—700 V. C.T. at 200 m.a.; 2.5 V. at 15 amps. C.T.; 5 V. at 2 amps.; 5 V. at 3 amps. 3 1/4"x4 1/8"x5" high, Wt.—10 lbs.
T-6793 ..... List Price $8.00

11 Tubes—3 Volts
Sparton B2643-B2339; For 8-425; 2-482B, 483; 1-80; Secondary—700 V. C.T. at 80 m.a.; 3 V. at 10 amps. C.T.; 5 V. at 2.5 amps. C.T.; 5 V. at 2 amps. C.T. 4"x3 1/4"x4 1/8" high, Wt.—7 1/2 lbs.
T-3770-C ..... List Price $6.00

8 Tubes—6.3 Volts
For 5-76, 6C6, 6D6, 6K7; 2-42, 6F6; 1-83, 5Z3, 5Z4; Secondary—775 V. C.T. at 200 m.a.; 6.3 V. at 3 amps. C.T.; 5 V. at 3 amps. 3 1/4"x4 1/8"x5" high, Wt.—10 lbs.
T-6935 ..... List Price $7.00

11 Tubes—6.3 and 2.5 Volts
For 5-76, 6D6; 4-2A3; 1-82; 1-83; Secondary—870 V. C.T. at 250 m.a. (Bias tap at 80 V.); 6.3 V. at 1.5 amps. C.T.; 2.5 V. at 10 amps. C.T.; 2.5 V. at 3 amps; 5 V. at 3 amps. 3 1/4"x4 1/8"x5" high, Wt.—10 1/4 lbs.
T-7550 ..... List Price $8.00

8 Tubes—7.5 and 2.5 Volts
For 2-50; 5-56; 1-83; Secondary—1100 V. C.T. at 150 m.a.; 7.5 V. at 2.5 amps. C.T.; 2.5 V. at 5 amps. C.T.; 5 V. at 3 amps. 3 1/4"x4 1/8"x5" high, Wt.—10 1/2 lbs.
T-6826 ..... List Price $6.50

4 Tubes—7.5 Volts
For 2-50; 1-83; 1-82; Secondary—1480 V. C.T. at 140 m.a. (Bias tap at 150 V.); 7.5 V. at 2.5 amps. C.T.; 5 V. at 3 amps.; 2.5 V. at 3 amps. 3 1/4"x4 1/8"x5" high, Wt.—12 lbs.
T-8382 ..... List Price $10.00

6 Tubes—7.5 Volts
For 4-50; 1-83; 1-82; Secondary—1480 V. C.T. at 200 m.a. (Bias tap at 150 V.); 7.5 V. at 5 amps. C.T.; 5 V. at 3 amps.; 2.5 V. at 3 amps. 3 1/4"x5 1/4"x5" high, Wt.—14 lbs.
T-8385 ..... List Price $12.00

SPEAKER FIELD SUPPLY
Secondary will furnish: 115 V. D.C. at from 50 to 250 m.a. for 1 to 6 fields; 5 V. at 3 amps. for 83. 3 1/4"x3 1/4"x3 1/4" high, Wt.—5 1/2 lbs.
T-6797 ..... List Price $4.25

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 V. C.T. at 110 m.a.; 2.5 V. at 10.5 amps. C.T.; 2.5 V. at 3.5 amps. C.T.; 5 V. at 3 amps. 3 1/8"x3 3/4"x 4 1/4" high, Wt.—7 lbs.
T-7744 ..... List $4.50

4 or 5 Tubes—2.5 Volts
For 2-24, 27, or 3-56, 57; 1-47, 2A5; 1-80, 5Z3; Secondary—650 V. C.T. at 40 m.a.; 2.5 V. at 5.25 amps. C.T.; 5 V. at 3 amps. 2 1/2"x3"x2 1/2" high, Wt.—3 1/2 lbs.
T-7537 ..... List $2.35

4 or 5 Tubes—6.3 Volts
For 2 or 3-77, 78, 6K7, 6F5; 1-42, 6F6; 1-80, 5Z3, 5Z4; Secondary—650 V. C.T. at 40 m.a.; 6.3 V. at 2 amps. C.T.; 5 V. at 3 amps. 2 1/2"x3"x2 1/2" high. Wt.—3 1/2 lbs.
T-7738 ..... List $2.35

5 to 7 Tubes—2.5 Volts
For 3-24, 27, or 5-56, 57; 1-47, 2A5; 1-80, 5Z3; Secondary—700 V. C.T. at 50 m.a.; 2.5 V. at 7 amps. C.T.; 5 V. at 3 amps, 2 1/8"x3 3/8"x3" high. Wt.—4 lbs.
T-7539 ..... List $2.75

5 to 7 Tubes—2.5 Volts
For 3-24, 27, or 5-56, 57; 1-47, 2A5; 1-80, 5Z3; Secondary—700 V. C.T. at 50 m.a.; 2.5 V. at 5.25 amps. C.T.; 2.5 V. at 1.75 amps. C.T.; 5 V. at 3 amps. 2 1/4"x3 3/8"x3" high, Wt.—4 lbs.
T-7540 ..... List $3.00

6 to 8 Tubes—6.3 Volts
For 5 or 6-76, 77, 6C5, 6K7, 6F5; 1-42, 6F6; 1-80, 5Z3, 5Z4; Secondary—700 V. C.T. at 70 m.a.; 6.3 V. at 2.5 amps. C.T.; 5 V. at 3 amps. 3 1/4"x3 3/4"x3 1/2" high, Wt.—5 lbs.
T-7543 ..... List $3.25

8 to 12 Tubes—2.5 Volts
For 5-27, 24, or 9-56, 57; 2-47, 2A5; 1-80; Secondary—700 V. C.T. at 80 m.a.; 2.5 V. at 12 amps. C.T.; 5 V. at 2 amps. 3 7/8"x3 1/4"x3 3/8" high, Wt.—6 lbs.
T-5003 ..... List $3.75

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. 3 7/8"x3 1/4"x3 3/8" high, Wt.—6 lbs.
T-6363 ..... List $4.00

7 to 10 Tubes—2.5 Volts
For 4-27, 24 or 7-56, 58; 2-47, 2A5; 1-80, 5Z3; Secondary—700 V. C.T. at 70 m.a.; 2.5 V. at 7 amps. C.T.; 2.5 V. at 3.5 amps. C.T.; 5 V. at 3 amps. 3 1/8"x3 3/4"x3 1/2" high, Wt.—5 lbs.
T-7542 ..... List $3.60

5 to 9 Tubes—2.5 Volts
For 4-24, 27 or 7-56, 57; 1-42, 2A5; 1-80, 5Z3; Secondary—700 V. C.T. at 70 m.a.; 2.5 V. at 9 amps. C.T.; 5 V. at 3 amps. 3 1/8"x3 3/4"x3 1/2" high, Wt.—5 lbs.
T-7541 ..... List $3.35

For 25 Cycle, 115 Volt primary add 60%. 60 Cycle, 220 Volt primary add 30%

See Pages H-25 and H-26 for complete listing of Thordarson Transmitting Transformers

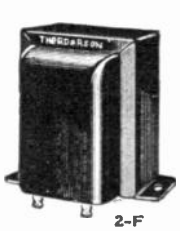
THORDARSON AUDIO TRANSFORMERS
Voltage Changers and Boosters

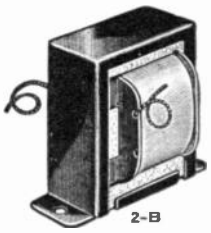
Experience has proven that no audio transformer can equal THORDARSON for consistent, long lived, trouble free audio power. From the brand new THORDARSON Tru-Fidelity units to the regular THORDARSON replacement audio transformers, distortionless power is guaranteed when you use "POWER BY THORDARSON."

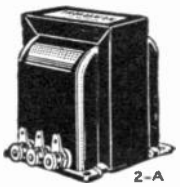
Thordarson audio transformers give widest frequency response of any low priced commercial transformers due to special Thordarson features.

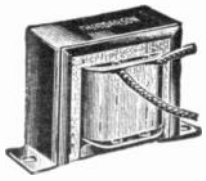
1. Thordarson designed and patented winding equipment gives better space factor (more turns in same winding space).
2. Thordarson coil impregnation excludes moisture, prevents corrosion and electrolysis common in salty, humid climates (seaboard and tropics).
3. Thordarson high permeability core material gives improved low frequency response.

The primary and secondary impedances shown in the tabulation are the recommended load impedances for the windings. This should not be confused with either the absolute impedance value, which is dependent on both frequency and loading, nor with the D.C. resistance of the winding which is no indication of the merit of the transformer.


2-F


2-B


2-A


3-B



2-D

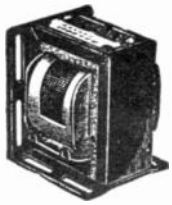

2-C

PLATE TO GRID INTERSTAGE TRANSFORMERS—One Plate to One Grid—Class A

These items are the highest quality for use in high grade receivers and amplifiers, and are offered in several mounting styles. The primary and secondary windings of T-7574 are electrostatically shielded from each other, with the shield connected to an external terminal.

Type No.	Application	Ratio	Imped. in Ohms Pri.	Imped. in Ohms Sec.	Pri. M.A.	Mtg. Fig	Dimensions H.	Dimensions W.	Dimensions D.	Mtg. Holes	Wt. Lb	List Price
T-5738	10,000 ohm plate to grid	3:1	10,000	90,000	8	2F	3	2 1/2	2 1/2	2 7/8	2	$3.25
T-5737						2B	3	2 1/2	2	2 7/8	1 3/4	3.00
R-300						2A	3	2 1/2	2 1/2	2x2 1/8	2	3.50
T-5736	Similar to above but smaller	3.2:1	10,000	100,000	8	2F	2 3/8	2	2 1/8	2 3/8	1 1/2	2.00
T-2999						2B	2 3/8	2	2	2 3/8	1 1/4	1.75
T-8604						3B	2	2 3/8	2	2 3/4	1 1/4	1.75
R-100	10,000 ohm plate to grid	3:1	10,000	90,000	8	2C	2 3/8	2	1 5/8	Univ.	1	1.75
T-7574	10,000 ohm plate to grid Static Shield between primary and secondary.	2:1	10,000	40,000	8	2F	2 3/8	2	2 1/8	2 3/8	1 1/2	2.50

PUSH-PULL INPUT TRANSFORMERS—One Plate to Two Grids

These items are highest quality in choices of mountings. By connecting primary and secondary of T-7431 in series, it may be used as a push-pull impedance to secure ratios of 1 to 1, 1 to 2, or 1 to 4. It is used in this manner in T-7518 and T-7530 amplifiers which are catalogued on page J-32.

Type No.	Application	Ratio	Imped. in Ohms Pri.	Imped. in Ohms Sec.	Pri. M.A.	Mtg. Fig	Dimensions H.	Dimensions W.	Dimensions D.	Mtg. Holes	Wt. Lb	List Price
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 7/8	2	$3.50
T-5740						2B	3	2 1/2	2	2 7/8	1 3/4	3.25
T-4304						2A	3	2 1/2	2 1/2	2x2 1/8	2	3.75
T-5739	Similar to above but smaller	3.2:1	10,000	100,000	8	2F	2 3/8	2	2 1/8	2 3/8	1 1/2	2.25
T-3391						2B	2 3/8	2	2	2 3/8	1 1/4	2.00
T-8603						3B	2	2 3/8	2	2 3/8	1 1/4	2.00
R-101						2C	2 1/2	2 1/8	1 7/8	Univ.	1 1/2	2.25
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 7/8	2	3.50
T-5742*	10,000 ohm plate to P. P. grids	3:1	10,000	90,000	8	2B	3	2 1/2	2	2 7/8	1 3/4	3.25
T-5743*						2F	3	2 1/2	2 1/2	2 7/8	2	3.50
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 3/8	3	3 3/8	3 1/4	5.00

PUSH-PULL INTERSTAGE TRANSFORMERS—Two Plates to Two Grids

T-5397 and T-6434 are designed for Class A only (no grid current). T-5870 and T-6791 may be used for either Class A or AB.

T-5397	P. P. 10,000 ohm plates to P. P. power tube grids Cl. A.	1.3:1	20,000	33,800	8**	2F	3	2 1/2	2 1/2	2 7/8	2	$3.75
T-6434						2B	3	2 1/2	2	2 7/8	1 3/4	3.50
T-5870	P. P. 10,000 ohm plates to P. P. or P. P. par. Cl. A or Cl. AB tubes	1.5:1	20,000	45,000	10**	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6791						2B	3	2 1/2	2 1/2	2 7/8	1 3/4	3.50
T-7557	P. P. 45's to 845's P. P. Cl. A	1:2.35	16,000	88,000	40**	2D	3 1/2	2 3/8	3	3 3/8	3 1/4	5.00

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.

VOLTAGE CHANGERS AND BOOSTERS

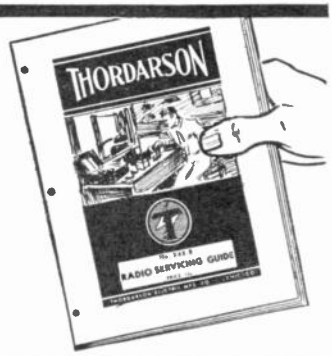
Trouble-free Thordarson Voltage Changers. Primary is equipped with cord and plug. Secondary has standard receptacle for convenient attachment to devices.

Type	Primary	Secondary	Rating Watts	Mtg. Fig.	Wt. Lbs.	List Price
T-2604			80	2V	5	$4.50
T-5010	220-250	110-125	125	2V	6 1/2	5.50
T-4015	Volts,	Volts,	175	2V	7 1/2	6.50
T-5011	60 cycles	60 cycles	250	2V	10	7.50
T-6107	90 or 100 Volts, 60 cycles	115 Volts, 60 cycles	150	2V	5	5.00

See Pages H-25 and H-26 for complete listing of Thordarson Transmitting Transformers.

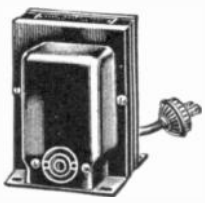
Hot off the Press

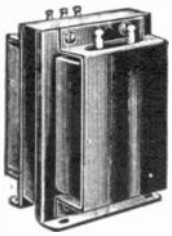
THORDARSON RADIO SERVICING GUIDE—32 pages!! Crammed full of truly helpful radio servicing hints and suggestions. Profusely illustrated. 1936 is and 1937 will be banner radio servicing years. You can *earn more money* by reading this great new THORDARSON GUIDE. Send for your copy TODAY—only 15c.



DRIVER TRANSFORMERS
. . . . AUDIO REACTORS . . . .

THORDARSON


2-V


2-L



2-R


2-T


2-G

Because grid currents flow in Class AB and Class B amplifier tubes, driver transformers must handle power efficiently if satisfactory results are to be obtained. The listing below includes types for all normal tube combinations. Data on turn ratios and primary and secondary loadings, make possible the selection of proper transformers for use with many additional tube combinations. All are designed to drive output stages to full power output without exceeding the capabilities of the driver tubes.

DRIVER TRANSFORMERS

Type No.	Driver Tubes	Output Tubes	Class	Ratio Pri to ½ Sec	Ohms Impedance Primary	½ Sec	Pri. M.A.	Mtg. Fig.	H	Dimensions W.	D.	Mtg. Holes	Wt. Lbs.	List Price
T-7846	1-30	1-19	B	2.4:1	20,000	3500	7	2B	2	1 5/8	1 3/4	2 3/4	3/4	$1.65
		2-30	B											
T-5463	1-30	1-19	B	2.4:1	20,000	3500	7	2F	2 1/4	2	1 3/4	2 3/8	1	2.50
	1-49	2-49	B											
T-6750	1-89 Triode	1-79	B	2:1	12,000	3000	32	2F	2 1/4	2	2 1/4	2 3/8	1 1/2	2.75
T-6789	1-89 Triode	2-79	B	2:1	12,000	3000	32	2F	3	2 1/2	2 1/2	2 7/8	2	3.50
T-6747	1-53 Cl. A	1-53	B	5.25:1	27,000	1000	10	2F	2 1/4	2	2 1/4	2 3/8	1 1/2	2.75
T-6790	2-53 Cl. A	2-53	B	5.25:1	13,500	500	10	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6778	1-46 or 59	2-46	B	2.2:1	13,000	2700	32	2F	3	2 1/2	2 1/2	2 7/8	2	3.50
T-5283		2-59	B					2A	3	2 1/2	2 1/2	2x2 1/4	2	3.75
T-6578	1-2A5 or 1-42 triode	2-2A5	AB	2:1	25,000	6250	40	2F	3 1/2	2 7/8	3	3 3/4	3 1/4	4.50
T-7432	P.P. 76, 56	2-42-6F6, etc.	AB	3:1	70,000	7700	10	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-7201	P.P. 56	2-45	AB	2.7:1	70,000	9500	10	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6698	P.P. 46 or 59	4-46 or 59	B	4:1	21,600	1350	32	2A	3 1/4	2 3/4	4 1/4	3 3/4x1	4	5.25
T-8142	1-6F6	2-6F6 pentode or triode	AB self or fixed	1.7:1 1.5:1 1:1	3,300 2,200 1,700	11000 10000 10000	31	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-8152	P.P. 6C5	2-6F6 triode	AB	1.82:1 1.67:1	15,000 14,000	11500 13500	8	2F	3	2 1/2	2 1/2	2 7/8	2	3.50
T-6422	P.P. 45 P.P. 2A3	800 830B, RK-18, etc	B B	1.55:1	8,000	3300	40	2T	4 1/8	2 3/4	3 1/8	3x1 3/4	4	5.00
T-5100	P.P. 45	210-35T-50T	B	2:1	25,000	6250	40	2A	3 1/2	2 7/8	3	3 3/8	3 1/2	4.50
T-8054	P.P. 42, triodes	838, 830B	B	4:1	8,000	500	40	2G	4 3/8	3 3/4	3 1/2	2 1/16	5	5.50
T-6140	P.P. 2A3 P.P. 6L6	2-203A 2-150T-50T	B	1.67:1	5,000	1785	130	2D	4	3 3/8	3 3/8	2 1/16	5	5.50
T-7510	P.P. 2A3 P.P. 6L6	2-838 2-805, etc	B	3.2:1	5,000	500	130	2D	4	3 3/4	3 3/4	2 1/16	5	5.50
T-8459	P.P. 6C5	2-6L6	AB	5:1	70,000	2800	10	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-8383	P.P. 45	2-250	AB	1.6:1	8,000	3140	40	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-8386	P.P. 2A3	4-250	AB	1.47:1	5,000	2360	40	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6819	P.P. 845	2-304A, 849	B	3:1	32,000	3550	60	2L	6 1/4	4 1/2	4 1/2	3 1/4 x3 1/4	11	18.00

AUDIO REACTORS

Type No.	Application	Type Tubes	Henries	At M.A	Max M.A.	D.C. Ohms	Mtg. Figs.	H	Dimensions W.	D.	Wt. Lbs.	List Price
T-3736	Plate Impedance	56-30-76-6C5-	51	5	10	6470	2F	2 1/8	2	2 3/4	1 1/2	$2.25
T-6746		55-85, etc.					2B	2 3/4	2	2	1 1/4	2.00
T-5298	Plate Impedance for Detector	24-57-58-76-	109	.5	8	6150	2F	2 3/4	2	1 7/8	1	1.75
T-2927	tubes or grid impedance	6C5, 6F5-6J7					2B	2	2 3/8	1 1/2	1	1.50
T-6808	Plate Impedance	45-46-10, etc	22	35	35	405	2F	2 3/8	2	2 1/2	1 1/2	2.00
T-1892							3B	2 1/4	2 3/8	2	1 1/4	1.75
R-102	P.P. Output Reactor	71-45, etc.	265		40	1550	2C	2 1/2	2 1/8	1 7/8	1 1/2	2.00

A complete line of microphone—line or mixer, to grid transformers to fit all applications. Special winding methods result in low leakage reactance so essential to good frequency response. More popular items offered in several mountings.

LOW IMPEDANCE SOURCE (MICROPHONE, LINE, MIXER) TO GRID TRANSFORMERS

Type No.	Application	Impedance in Ohms Pri.	Sec.	Overall Ratio	Mtg. Fig.	H	Dimensions W.	D.	Mtg Holes	Wt. Lbs	List Price
T-6573	DB mike to grid	200 CT	100,000	1:22.2	2F	3	2 1/2	2 1/2	2 3/8	2	$3.25
T-6822					2B	3	2 1/2	2	2 3/8	1 1/4	3.00
T-3020					2A	3	2 1/2	2 1/4	2x2 1/4	2	3.50
T-5837	DB mike to grid	200 CT	100,000	1:22.2	2F	2 3/4	2	2 1/8	2 3/8	1 1/2	2.25
T-8378	Single button mike to grid	100	400,000	1:64	2F	2 3/4	2	1 7/8	2 3/8	1	2.00
T-8602					2B	2 3/4	2	1 5/8	2 3/8	3/4	1.75
T-2357					2A	2 3/4	2	1 7/8	2 3/8	1	2.25
T-6123	Ribbon mike to grid	05	75,000	1:1200	2F	2 3/4	2	2 1/8	2 3/4	1 1/2	3.00
T-5516	Dyn. mike, line or mixer to single or P.P grids	200/50	100,000 CT	1:22.3	2F	2 3/8	2	2 3/8	2 3/4	1 1/2	2.75
T-6372	1, 2, 3 or 4 circuit mixer to grid	50, 100, 150, 200	100,000	1:22.2	2F	3	2 1/2	2 1/2	2 7/8	2	4.00
T-6371	1, 2, 3 or 4 circuit mixer to grid	200, 400, 600, 800	100,000	1:11	2F	3	2 1/2	2 1/2	2 7/8	2	4.00
T-6194	Line to single or P.P. grids, Class A	500 125	100,000 CT	1:14.1	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6265	Line to P.P. grids of 800, 830B, RK18, RK31 Class B, or 845 tubes Class AB	500	7,220	1:3.8	2D	4	3 3/8	3 3/4	2 1/4 x3 1/4	5	6.00
T-8321	Line to P.P. grids of 46, 210, Class B, etc.	500	5,100 12,500	1:3.2 1:5	2F	3	2 1/2	2 1/2	2 7/8	2	3.75
T-6734	Line to P.P. Par. 203A, 838, 211 grids, Class B	500	900	1:1.34	2D	4	3 3/8	3 3/4	2 1/4x3 1/4	5	7.50
T-6429	Line to P.P. 204A, 849 grids, Cl. B	500	2,000	1:2	2L	6 1/4	4 1/2	4 1/4	3 1/2 x3 1/4	11	18.00

MICROPHONE OR PICKUP TO LINE OR MIXER TRANSFORMERS

T-6373	DB or dynamic mike to line or mixer	200 CT	200/50	.....	2F	3	2 1/2	2 1/2	2 3/8	2	$3.75
T-6745					2A	3	2 1/2	2 1/2	2x2 1/8	2	4.00
T-7082	DB mike to line	200 CT	500/125		2F	3	2 1/2	2 1/2	2 7/8	2	4.00
T-6197	Ribbon mike to line or mixer	05	200/50		2F	2 1/4	2	2 1/8	2 3/4	1 1/2	3.00
T-7083	Crystal mike to line or mixer	100,000	200/50		2F	3	2 1/2	2 1/2	2 7/8	2	4.00
T-6196	Pickup or line to line or mixer	500/125	200/50	.....	2F	3	2 1/2	2 1/2	2 7/8	2	4.00
T-6374	Pickup to line or mixer	5000/2000	200 50		2F	2 1/4	2	2 1/8	2	1 1/2	3.00

TUBE TO LINE OR MIXER TRANSFORMERS (LOW LEVEL)

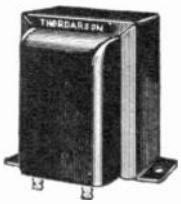
		Pri.*		Pri. M.A.							
T-5515	Plate to line or mixer	15,000/10,000	200/50	8	2F	2 1/4	2	2 1/8	2 3/8	1 1/2	$2.75
T-6226	Plate to line or mixer	15,000/10,000	500/125	8	2F	2 1/4	2	2 1/8	2 3/8	1 1/2	2.75
T-7211	P.P. plates to line	20,000	500 125	8**	2F	2 3/4	2	2 1/8	2 1/8	1 1/2	3.00
T-7573	P.P. plates to line or mixer	20,000	200 50	8**	2F	2 1/4	2	2 1/8	2 1/8	1 1/2	3.00

*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

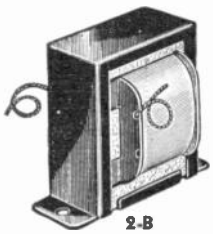
See Pages H-25 and H-26 for complete listing of Thordarson Transmitting Transformers.

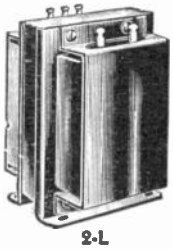
THORDARSON OUTPUT TRANSFORMERS

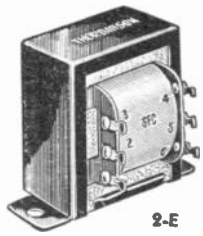
Transceiver and Exciter Lamp Transformers

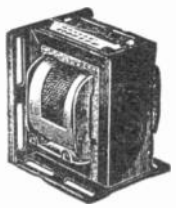

2-F


2-G


2-B


2-L


2-E


2-C


2-D

PRACTICAL—MODERN—EFFICIENT. These Thordarson transformers are ideally suited for radio receiver and amateur work. Complete data on turns ratios, impedance ratios, currents and capacities is given here. Designed for specific load impedances, these transformers do not impair efficiency by a number of taps or unused windings.

OUTPUT TRANSFORMERS TO LINE OR SPEAKER (HIGH LEVEL)

Class A, AB and B

Type No.	Tube Type	Class	Ohms Impedance Pri.	Ohms Impedance Sec.	Max. Audio Pri. M. A.	Max. Audio Power Watts	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Wt. Lbs.	List Price
T-5872	2A3 PP 48 PP	AB A	3,000	4-8-15-500	60	30	2F	3½	2⅞	3	3¼	$4.00
T-6754	2A3 PP 45 PP 19 PP	AB AB B	5,000	4-8-15-500	60	30	2F	3½	2⅞	3	3¼	4.00
T-6792	2A3 PP Par. 45 PP Par.	AB AB	1,500	4-8-15-500	80	40	2F	3½	2⅞	3	3¼	4.00
T-6594	2A5-42 PP 50 PP 79 PP	AB A B	8,000	4-8-15-500	55	40	2F	3½	2⅞	3	3¼	4.00
T-7575	2B6, 6B5 PP 6A6, 6N7 6F6 PP	A B AB	10,000	4-8-15-500	45	40	2F	3½	2⅞	3	3¼	4.00
T-8458	6L6 PP	AB	3,800	4-8-15-500	160	60	2G	4⅝	3⅜	3¾	6	6.00
T-6760	19-30-40 31	B A	10,000	4-8-2000	15	10	2F	2⅜	2	2⅛	1½	3.75
T-8101	19-30-40 31	B A	10,000	2-4-8	15	8	2B	2	1⅝	1⅝	¾	1.65
T-6751	2A5-47 79	A B	14,000	4-8-15-500	40	20	2F	3	2½	2½	2	3.50
T-6748	45-71-43 53	A B	8,000	4-8-15-500	36	25	2F	3	2½	2½	2	3.50
T-3399	45-71 53	A B	8,000	8	25	15	2B	2⅜	2	2	1¼	1.60
T-6752	46-59 6F6 PP 53 PP Par.	B AB B	5,800	4-8-15-500	60	30	2F	3½	2⅞	3	3¼	4.00
T-6753	46-59 PP Par.	B	2,900	4-8-15-500	120	60	2G	4	3⅜	3⅝	5	6.50
T-8384	50 PP	AB	5,000	4-8-15-500	80	45	2G	4⅝	3⅜	3½	5¼	6.00
T-8387	50 PP Par.	AB	3,000	4-8-15-500	160	90	2G	5	3⅞	3⅜	7½	8.00
T-6167	845 PP	AB	8,000	500	150	110	2L	6¼	4¼	4½	11	12.00
T-6755	800 PP	B	12,500	500	150	110	2L	6¼	4¼	4½	11	12.00
T-5701 R-107	Univ. Single or PP Tubes	A	4,000/7,000 8,000/10,000 11,000 CT	Adjustable .1 to 29	36	8	2E 2C	2¾ 2½	2 2⅛	2 1⅞	1½ 1½	2.00 2.25
T-6806	2A5-42	A	7,000	10 or 2,000	25	5	2F	2⅜	2	1⅞	1	2.50
T-6125	Univ. Single Tube	A	Adjustable 2,500/4,000 5,000/6,000, 7,000	500	60	10	2E	3	2½	2	1¾	3.50
T-6126	Univ. PP Tubes	A	Adjustable 8,000/10,000 12,000/14,000 CT	500	55	10	2E	3	2½	2	1¾	3.50

LINE TO SPEAKER TRANSFORMERS

Type No.	Application	Impedance in Ohms Pri.	Impedance in Ohms Sec.	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Mtg. Holes	Wt. Lb.	List Price
T-5381	Line to voice coil	500/250	4/8/15	2D	3¾	2⅞	3	1⅞x2⅛	3½	$4.50
T-6048	Line to voice coil 1 to 6 may be con. in par. to 500 ohm line.	500/1,000 1,500/2,000 2,500/3,000	(pri. as 500 ohm) .06 to 8.; (pri. as 1000 ohm) .12 to 16, etc.	2E	3	2½	2	2⅞	1¾	3.00
T-7674	Line to multiple spkrs. (autotransformer).	500	500/250/166/125/100/84	2E	3	2½	2	2⅞	1¾	3.00

TRANSCEIVER TRANSFORMERS

Smallest practical size. Light weight. Easy to mount. Efficient.

T-7259	Plate and single button microphone to grid.	2B Mtg.	2 x 1⅝ x 1⅝	½ lb.	List $1.65
T-7258	Pentode plate to low or high impedance phones or oscillator	2B Mtg.	2 x 1⅝ x 1⅝	½ lb.	List 1.65

EXCITER LAMP TRANSFORMERS

50-60 Cycle

Type No.	Pri. Volts	Secondary Volts	Secondary Amps.	V. A.	Mtg. Fig.	Dimensions H.	Dimensions W.	Dimensions D.	Mtg. Holes	Wt. Lb.	List Price
T-6437	110/115/120	10	7.5/5	75	2E	4	3¾	3½	3¼x2½	5¾	$5.00
T-6438	110/115/120	8.5	4	35	2E	3¾	3	2¾	2¼x1⅞	3½	4.00
T-6439	110/115/120	27	1	27	2E	3¾	3	2⅝	2¼x1⅞	3½	4.00

See Pages H-25 and H-26 for complete listing of Thordarson Transmitting Transformers.

AEROVOX HI-FARAD ELECTROLYTIC CONDENSERS

"USE THE QUALITY STANDARD"

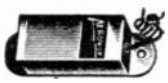
CARDBOARD TUBE CONDENSERS



Type PR5—525v. Surge Pk. 450v. Working

Cap. Mfds.	Size-Ins. Dia.-Long	List Price
2	¾ x 2¼	$0.65
8	1⅛ x 2¾	.95
Type PR2—200v. D.C. Working		
4	¾ x 2¼	$0.65
6	⅞ x 2¼	.75
8	⅞ x 2¼	.80
10	⅞ x 2¼	.90
Type PR50—50v. D.C. Working		
5	¾ x 2¼	$0.50
10	¾ x 2¼	.65
20	⅞ x 2¼	.75
25	⅞ x 2¼	.80
50	1¼ x 2¾	1.20
Type PR25—25v. D.C. Working		
5	⅝ x 2¼	$0.50
10	¾ x 2¼	.50
20	¾ x 2¼	.60
25	⅞ x 2¼	.65
50	1¼ x 2¾	.95

CARDBOARD BOX BY-PASS CONDENSERS



With Two Color-Coded Wire Leads

Type PB-5—525v. Surge Pk. 450v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	Price List
4	4⅛x1⅜x⅝	$0.75
8	4⅛x1⅝x1⅛	.95
Type PB-50—50v. D.C. Work.		
5	2⅜x1 1/16x1 1/16	$0.50
10	2⅜x1 1/16x1 1/16	.65
25	2⅜x1 1/16x1 1/16	.80
Type PB-25—25v. D.C. Work.		
5	2⅜x1 1/16x1 1/16	$0.50
10	2⅜x1 1/16x1 1/16	.50
25	2⅜x1 1/16x1 1/16	.65

UNIVERSAL MOUNTING CONDENSERS



Furnished with mounting rings for universal mounting. A wide selection of capacities in single and multiple section units for general service.

Type E5-525 Surge Pk. Voltage 450v. D.C. Working

Capacity Mfds.	Size-Ins. D. H.	List Price
4	1⅝x2⅝	$0.85
8	1⅝x4⅛	1.05
5-15	2½x4⅛	2.30
8-8	2½x4⅛	1.80
8-16	2½x4¼	2.35
8-8-8	3x4¼	2.70
9-9-18	3x4¼	3.75
8-8-8-8	3x4⅛	3.60
9-9-18-18	3x4¼	5.25

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SPACE-SAVER MIDGET ELECTROLYTIC CONDENSERS



Type PBS Single Section



Type PBS Triple Section

These Midget Electrolytics are made possible by a tried, tested, perfected process, whereby far greater capacity is attained from a given bulk, without impairing the working voltage or service life.

All units are encased in heavy cardboard containers, thoroughly impregnated and fully sealed. Box has flanges for ready mounting. Wire leads are color-coded for polarity.

Single Section Condensers

Type PBS5—525v. Surge Pk. 450v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	List Price
2	2 7/16 x ¾ x½	$0.65
4	2 1/16 x1 x 1/16	.75
6	2 1/16 x1 1/16 x1 1/16	.90
8	2 1/16 x1 1/16 x1 1/16	.95
10	3 1/16 x1 1/16 x1 1/16	1.15
12	3 1/16 x1 1/16 x1 1/16	1.30

Type PBS2—250v. Surge Pk. 200v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	List Price
2	2 7/16 x ¾ x½	$0.55
4	2 7/16 x ¾ x½	.65
6	2 7/16 x 1 1/16 x 1/16	.75
8	2 7/16 x 1 1/16 x 1/16	.80
10	2 7/16 x1 x 1/16	.90
12	2 7/16 x1 1/16 x1 1/16	.95
16	2 7/16 x1 1/16 x1 1/16	1.05

Double Section Condensers With Four Leads

Type PBS5—525v. Surge Pk. 450v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	List Price
4-4	2 7/16 x1 1/16 x1 1/4	$1.20
4-8	2 7/16 x1 1/16 x1 7/16	1.35
8-8	2 7/16 x1 1/16 x1 7/16	1.50

Type PBS2—250v. Surge Pk. 200v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	List Price
4-4	2 7/16 x ¾ x1 1/16	$0.90
4-8	2 7/16 x 1 1/16 x1 7/16	1.15
8-8	2 7/16 x 1 1/16 x1 7/16	1.25
8-16	2 7/16 x1 1/16 x1 1/4	1.45

Triple Section Condensers With Six Leads

Type PBS5—525v. Surge Pk. 450v. D.C. Working

Cap. Mfd.	Size-Ins. L. W. D.	List Price
8-8-8	3x1 1/16 x1 1/4	$2.20

Type PBS2—250v. Surge Pk. 200v. D.C. Working

Cap. Mfds.	Size-Ins. L. W. D.	List Price
8-8-8	2 7/16 x 1 1/16 x1 7/8	$1.90

MIDGET CAN-TYPE ELECTROLYTIC CONDENSERS

Ultra-compact metal can electrolytic condensers for general replacement purposes and assemblies where space is at a minimum. These units are one-half the size of other types of can-type electrolytics of the same capacities and voltage ratings. Inverted mounting. Two color-coded wire leads. Hermetically sealed, leakage and seepage proof.



Type GLS

Type GLS—525v. Surge Pk. 450v. D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price
4	1x2 3/16	$0.85
8	1x2 11/16	1.05
12	1x3 3/16	1.40
16	1x4 3/16	1.55

Type GLS 250—300v. Surge Pk. 250v. D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price
4	1x2 3/16	$0.75
8	1x2 11/16	.95
12	1x2 11/16	1.15
16	1x3 3/16	1.35

CARDBOARD BOX CONDENSERS

Type P5—525 Volts Surge Pk. 450 Volts D.C. Working



Type P5 Two Leads

Cap. Mfds.	Size D.	W.	L.	List Price
1	¾	x1 3/16	x2 5/16	$0.55
2	¾	x1 3/16	x2 5/16	.65
4	⅞	x1 3/16	x4 1/16	.75
6	1 1/16	x1 3/16	x4 1/16	.90
8	1 1/16	x1 3/16	x4 1/16	.95
10	1 1/16	x1 1/16	x4 1/16	1.15
12	1 1/16	x1 1/16	x4 1/16	1.30
16	1 1/16	x1 1/16	x4 1/16	1.45

Type PBM5—525 Volts Surge Pk.

4-4	1 1/16	x1 1/16	x4 1/16	1.20
4-8	1 1/16	x1 1/16	x4 1/16	1.35
8-8	1 1/16	x1 1/16	x4 1/16	1.50



Type PBM5 Four Leads

WIRE LEAD CONDENSERS



These inverted mounting, aluminum can condensers are made in single and double section units with separate terminal leads.

525v. Surge Pk. 450v. D.C. Work.

Type GL5—Single Section With Two Leads

Cap. Mfds.	Size-Ins. Dia.-High	List Price
4	1⅜ x 3¼	$0.85
8	1⅜ x 4¼	1.05
12	1⅜ x 4¼	1.40
16	1⅜ x 5¼	1.55

Type 2GL5—Double Section With Four Leads

Cap. Mfds.	Can. Size-Ins. Dia.-High	List Price
4-4	1⅜ x 4¼	$1.30
4-8	1⅜ x 5¼	1.45
8-8	1⅜ x 5¼	1.60

Type 3GL5—Triple Section With Six Leads

Cap. Mfds.	Can Size-Ins. Dia.-High	List Price
4-4-4	1⅜ x 3¼	$2.00
8-8-8	1⅜ x 4¼	2.40

Type 3GL250—Triple Section With Six Leads

300v. Surge Pk.—250v. D.C. Work.

Cap. Mfds.	Can Size-Ins. Dia.-High	List Price
8-8 8	1⅜ x 3¼	$2.10
8-8-16	1⅜ x 3¼	2.35
8-16-16	1⅜ x 4¼	2.60

INVERTED MOUNTING CONDENSERS



These standard size, inverted units are furnished in either grounded negative mounting or insulated mounting.

Type G5— 525v. Surge Pk. 450v. D.C. Working

GROUNDED MOUNTING

Cap. Mfds.	Size-Ins. Dia.-High	List Price
4	1⅜x2⅜	$0.85
6	1⅜x2⅜	1.00
8	1⅜x4¼	1.05
10	1⅜x4¼	1.25
12	1⅜x4¼	1.40

INSULATED MOUNTING TYPE I-5

2	1⅜x1¾	$0.75
4	1⅜x2⅜	.85
6	1⅜x2⅜	1.00
8	1⅜x4¼	1.05
10	1⅜x4¼	1.25
12	1⅜x4¼	1.40
16	1⅜x5¼	1.55

NOTE: We can supply any AEROVOX Electrolytic, Mica, or Paper condenser not listed in this Catalog. Send for complete AEROVOX Catalog.

AEROVOX PAPER and MICA CONDENSERS

"USE THE QUALITY STANDARD"

TUBULAR PAPER CONDENSERS



Aerovox cartridge condensers are especially desirable for use where high grade units are required at low cost. They are compact, non-inductively wound and sealed in wax impregnated paper tubes with wax filled ends for longer life and protection against moisture.

Cap. Mfd.	List Prices Type 484 400v	Type 684 600v	Type 1084 1000v
.001	$0.15	$0.15	$0.20
.002	.15	.15	.20
.003	.15	.15	.20
.004	.15	.15	.20
.005	.15	.15	.20
.006	.15	.15	.20
.008	.15	.15	.20
.01	.15	.15	.20
.015	.15	.17	.20
.02	.15	.17	.24
.03	.15	.17	.27
.04	.15	.20	.30
.05	.15	.20	.35
.06	.20	.23	.37
.075	.20	.23	.40
.1	.20	.25	.40
.15	.25	.30	....
.2	.25	.35	....
.25	.25	.35	....
.3	.30	.45	....
.4	.35	.50	....
.5	.35	.50	....
1.	.50	....	....
Dual Section Units			
.01-.01	.33	.35	....
.05-.05	.40	.45	....
.1-.1	.47	.52	....
.25-.25	.70	.85	....

UNCASED PAPER-WOUND CONDENSERS



Non-inductively wound. Wrapped in black varnished paper, ends sealed with pitch, and provided with insulated wire leads eight inches long.

Type SU—Short Units

Cap. Mfd.	Size-Ins.	Price List
400v		
.1	2x ⅞x ¼	$0.35
.25	2x1 x ⅝	.40
.5	2x1⅛x ⅜	.50
1.	2x1⅛x ⅝	.75
600v		
.1	2x1 x ⅜	.40
.25	2x1⅛x ⅜	.50
.5	2x1⅛x ½	.60
1000v		
.1	2x1⅛x ½	.60

Type MU—Medium Units

Cap. Mfd.	Size-Ins.	List Price
400v		
1.	3¼x1⅞x ⅛	$0.75
2.	3¼x1⅞x ⅞	1.15
600v		
1.	3¼x1⅞x ⅛	.90
2.	3¼x1⅞x1⅛	1.35

AUTO-RADIO CONDENSERS



Suppressor Condensers

Type 1120—1.0 Mfd. List Price $0.70
Type 1140—0.5 Mfd. List Price $0.50
Type 1141—.5-.5 Mfd. List Price $0.80

Suppressor Condenser for FORDS



Type 1150-Cap. 5 Mfd. List Price $0.50

Ammeter Condensers



Type	Cap	List Price
1160	.5	$0.45
1170	1.0	.65

Dome Light Filter Condenser



Type 1180 List Price $1.00

Oil-Filled Vibrator Condensers



Type 1130—One Lead

Cap.	Cap.
.007 Mfd.	.04 Mfd.
.01 Mfd.	.05 Mfd.
.02 Mfd.	.06 Mfd.
.03 Mfd.	.07 Mfd.

List Price, Each, Any Type $0.45

Type 1131—Two Leads

Cap.	Cap.
.007 Mfd.	.01 Mfd.

List Price, Each, Either Type $0.45

Oil-Impregnated Vibrator Condensers



Type	Cap.	List Price
1135	.01	$0.60
1135	.5	.65

Tubular Paper Vibrator Condensers



Type 1684—1600 W.V.D.C.

Cap. Mfd.	List Price	Cap. Mfd.	List Price
.007	$0.30	.03	$0.50
.01	.30	.04	.55
.02	.40	.05	.55

MICA CONDENSERS

MIDGET MICA CONDENSERS With Wire Leads

Type 1468



Midget size ⅞" x 1⅛" provided with wire leads. Test volts 500.

Cap. Mfds.	List Price	Cap. Mfds.	List Price
.00004	$0.15	.00015	$0.20
.00005	.15	.0002	.20
.00007	.15	.00025	.20
.000075	.15	.0005	.20
.0001	.15		

Type 1467



Compact, size 1¼" square, provided with wire leads. Test volts 500.

Cap. Mfd.	List Price	Cap. Mfd.	List Price
.00004	$0.15	.0002	$0.20
.00005	.15	.00025	.20
.00007	.15	.0005	.20
.000075	.15	.001	.25
.0001	.15	.002	.30
.00015	.20	.0025	.40

Type 1460



Popular type mica condenser. Size 1⅝"x⅝". Two soldering lug terminals. Test volts 900.

Cap. Mfd.	List Price	Cap. Mfd.	List Price
.00004	$0.15	.00025	$0.20
.00005	.15	.0005	.20
.0001	.15	.001	.25
.00015	.20	.002	.30
.0002	.20		

Type 1450



High voltage. 1,000 volts D.C. test. 1¼" square.

Cap. Mfd.	List Price	Cap. Mfd.	List Price
.0001	$0.25	.003	$0.40
.0002	.25	.004	.45
.00025	.25	.005	.45
.00037	.25	.006	.55
.0005	.25	.01	.70
.001	.30	.02	.95
.002	.35		

NOTE: We can supply any AEROVOX Paper or Mica Condensers not listed above. Write for a complete AEROVOX Catalog.

STAMPED METAL CASE PAPER CONDENSERS



Type	Cap.	List Price
200 Volts D.C. Working		
260	.1	$ .47
260	.25	.57
260	.5	.70
260	.1-.1	.65
260	.25-.25	.75
260	.1-.1-.1	.85
261	1.0	.90
261	.5-.5	1.00
400 Volts D.C. Working		
460	.05	$ .45
460	.1	.50
460	.25	.60
460	.5	.75
460	.1-.1	.68
460	.1-.1-.1	.95
461	1.0	1.00
461	.5-.5	1.10
461	.25-.25-.25	1.20

EXACT DUPLICATE PAPER-WOUND REPLACEMENT CONDENSERS



Part No.	Cap Mfds.	List Price
ATWATER-KENT		
37 Filter	.5	$0.90
37 Bypass	.25-.25-.25	1.35
COLONIAL		
1728-SA	1-.1-.25-.1	1.25
1748-SA	.1-.5-.1	.90
SPARTON		
5032	1.	.90
5033	.25	.90

AEROVOX INTERFERENCE FILTERS



Type IN-26

Aerovox Interference Filters are made in three styles. Designed to be installed between apparatus which causes interference, and line, or between the line and a radio receiver to prevent interference in the line affecting the set.

The IN-24 and IN-44 are designed for all general installations. The IN-25 can be installed at any wall outlet, the screw which mounts it on the wall plate serving as the ground. The Type IN-26 is designed for insertion in extension leads.

Type No.	D.C. W.V.	List Price
IN-24	200	$4.75
IN-25	200	1.75
IN-26	200	2.25
IN-44	400	5.50

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AEROVOX EXACT DUPLICATE REPLACEMENTS



INSIST UPON GETTING GENUINE AEROVOX EXACT DUPLICATE ELECTROLYTIC REPLACEMENT CONDENSERS

When you MUST use identical replacements, simply remember to ask for AEROVOX EXACT DUPLICATE REPLACEMENTS. Designed specifically for most all standard sets . . . finest replacement units obtainable . . . embodying AEROVOX high-quality construction throughout.



Model of Set	Cap. Mfd.	Type Container	Size — Inches	No. Part	Price List
ATWATER KENT					
155 (1 and 2)	8-8-8	Cdbd.Box	1⅛x1⅝x3¼	24602	1.65
155 (3)	8-8-8	Cdbd.Box	1⅛x1⅝x3¼	24955	1.65
275, 825	8-14-8	Rect.Can	1 3/16 x1⅝x3¾	26158	1.95
376	4-8-10	Univ.Can	1⅜x4¼	27592	1.90
BOSCH					
117-127 (new) 360-375 (old) 440-470	4-8x20	Inv.Can	1⅜x5¼	CE954 105237	2.10
04	12-12x5-5	Cdbd.Box	1x1½x2¾	CE9520	1.95
BELMONT					
(Freshman) 545	5-25-5	Cdbd.Box	1⅜x1¾x2⅜	C-525-B	1.60
CLARION (TCA)					
G422	16-1	Cdbd.Box	⅞x1⅜x2¾	P4717	1.20
COLONIAL					
122, 152	8-4	Cdbd.Box	2⅝x1¾x17⅛	R-8780-C	1.10
CROSLEY					
95, 163	8-8	Cdbd.Box	1⅛x1⅛x2¼	W25857B	1.00
129-1, 130, 131-1, 132-1	8-4	Cdbd.Box	1 1/16 x1 1/16 x2⅜	W26119	1.10
132-1, 146	12	Inv.Can	1⅜x4¼	W26194B	2.05
146	12-6	Cdbd.Box	1x1⅜x4	W26896	1.55
147	8-8	Cdbd.Box	1x1x2¼	W27677A	.85
163, 400, 402	12	Cdbd.Box	1⅛x1⅛x2¼	W28068	.95
160	8-12	Inv.Can	1⅜x5¼	W28468	2.25
164, 170, 171	8-8-8	Inv.Can	1⅜x5¼	W29097B	2.15
169	6-7-8	Inv.Can	1⅜x4¼	W29150B	1.80
166, 172	16-16-8	Inv.Can	1¾x3½	W29264A	2.00
174	8-16-16	Inv.Can	1⅜x5¼	W29804A	2.10
102-103	12	Uni.Can	1⅜x2¾	W29808	1.20
129-1, 130-1, 132.136-1, 157	8-8	Uni.Can	1⅜x5¼	B30018	1.60
175	8-8-8	Inv.Can	1⅜x6¼	W30059A	2.20
173, 173-S	16-16-8	Inv.Can	1⅜x4¼	W30124	2.15
103	8-8	Inv.Can	1⅜x3¼	W30419	1.10
182	8-25	Cdbd.Box	1⅛x1⅛x3½	W30962	1.45
DETROLA	4-8-20	Cdbd.Box	1¼x1¾x3⅝	1460	1.80
ERLA	4-10x7-7	Cdbd.Box	1⅛x1 1/16 x3¼	9442	2.15
EMERSON					
20A, 25, 25A	4-4	Cdbd.Box	1x1x2⅝	HC-31	.90
20A, 25, 25A	5-5	Cdbd.Box	⅞x1x1⅞	HC-32	.75
250	8-8	Cdbd.Box	1x1½x3	KC-56	1.25
250W	4-8-16	Cdbd.Box	1x1⅞x4	KC-68	1.80
32	8-16x5-5	Cdbd.Box	1x1¾x4	GGC-137	2.05
19	12-8	Cdbd.Box	1x1⅝x2⅝	KKC-143	1.25
31BS	12-8x5-5	Cdbd.Box	1x1⅝x4	UUC-179	1.95
	4-8-16	Rect.Can	1x2¼x3¾	ZZC-192A	1.90
	8-16	Rect.Can	¾x2 7/16 x3½	2CC-194	1.45
108, 110	8-16	Cdbd.Box	1x2x2⅜	2DC-203	1.45
FADA					
RN	8-16	Univ.Can	1⅜x3¼	4-1362-MS	1.60
	8-8	Univ.Can	1x4⅜	4-1380-MS	1.40
RU	8-8-16	Inv.Can	1⅜x5¼	4-1450-MS	2.20
	8	Inv.Can	1⅜x3¼	4-1451-MS	.85
GRUNOW					
501-550 Chassis 5B 670, 671	4-8-20-4	Cdbd.Box	1⅝x2½x17⅞	27151	2.20
Chassis 6D	8-8x8x12-12	Cdbd.Box	1⅞x2¾x2¾	30091-1	3.20

GENERAL ELECTRIC	RCA VICTOR					
K40, K40A	R27, R17M, R18W	5-5	Cartridge	3/32 x2½	3536 (new) 66140-2 (old)	.75
	M105, 330, 331					
K40A	R27, R17, R18W	4-4	Cartridge	1/16 x3⅛	3538 (new) 66140 (old)	1.00
K60, K65	R37, R38,		Cdbd.Box	1½x1½x3⅜	6487 (new)	2.05
K63	R37P R38P. 120	4-4-10-4			66155 (old)	
					6492 (new)	.80
B52	M34, M105	3.6-1	Cartridge	1/16 x2½	66140-4 (old)	
L50	R22	8-4-10	Cdbd.Box	1 1/16 x1⅛x3¾	6511 (new) 66160-2 (old)	1.35
L50	R22	8-8	Cdbd.Box	1⅛x1 1/16 x3⅝	6518 (new) 66160 (old)	1.25
K40A	R18W	4-4	Cartridge	1x3½	6535	.90
K78, K79	330-331	10-4	Cdbd.Box	1x1½x3½	6555 (new) 66143-2 (old)	1.25
C-30, K43	100-101-103, T-18, T19	8-8-5-5	Cdbd.Box	1 1/16 x1 7/16 x1⅛	6661 (new) 66185-2 (old)	2.20
K66, K66N	220-222	8-4-4-4	Cdbd.Box	1½x1½x3¾	6691 (new) 66189-2 (old)	2.05
			Cdbd.Box	1½x1½x3¾	6703 (new) 66189-1 (old)	1.65
K64, M65, M68	121-122-321	8-4-4				
K52, K53, K58	RE40P, T5-2 110, 111, 115, 117, 118, 119	4-4	Cdbd.Box	1x1½x3¾	7589 (new) 66143 (old)	1.05
A-63, A-65						
RC-507		4-8-4	Cdbd.Box	1⅛x1 1/16 x2⅝	———	1.15

Model of Set	Cap. Mfd.	Type Container	Size — Inches	No. Part	Price List
INTERNATIONAL	4-4	Cdbd.Box	¾x1x3	A-407	.85
Kadette (Standard) ES19, ES20, ES25, ES30,	5-5	Cdbd.Box	¾x¾x1½	A-408	.75
60, 65, 80, 85	8-30	Cdbd.Box	¾x2x4	A-412	1.55
Kadette A and B	4-10-10	Cdbd.Box	1x1¼x3⅜	A-424	1.65
	2-7	Cdbd.Box	⅝x1 1/16 x2¼	A-426	1.00
	3.5-3.5-3.5	Cdbd.Box	⅝x1¼x2¼	A-427	1.20
40, 41, 42, 46	3.5-3.5-3.5	Cdbd.Box	⅝x1¼x2¾	A-421	1.30
A and B	10-10-4	Cdbd.Box	1 1/16 x1¼x2¼	A-425	1.65
LE WOL					
LW4	25-10	Metal Can	1x2x3¼	———	1.65
	4-4-4	Metal Can	1 1/16 x1¼x3½	———	1.35
MAJESTIC					
211, 214, 215, 221, 223, 251-B, 253-B, 254-B, 351, 353	8	Cdbd.Box	1¼x1⅝x4⅛	4713	.95
151, 153, 154, 155, 156, 251, 253, 254	8	Cdbd.Box	1¼x1⅝x4⅛	5414	.95
201, 203, 204	8-4-4	Rect.Can	1½x2¼x4½	6277	2.00
11	4-4	Rect.Can	1½x1⅞x4½	6433	1.30
56, 57, 58	8-8	Rect.Can	1¼x3¼x4	6501	1.55
291, 293, 294	8	Cdbd.Box	1x1⅜x4½	7173	.95
291, 293, 294	7-10	Cdbd.Box	1 1/16 x1 1/16 x2⅜	7278	1.15
324	10	Cartridge	⅝x2¼	7402	.50
303, 304, 307, 324	16	Cdbd.Box	1¼x1⅝x4⅛	7489	1.40
311, 314, 315	8-16	Cdbd.Box	1½x1¾x4¼	7824	1.65
324, 344, 363, 311, 314, 315, 331, 336-77	7	Cdbd.Box	1 1/16 x1 1/16 x2⅜	7988	.70
344, 363, 393	20	Cdbd.Box	1 1/16 x1 1/16 x2⅜	8118	.60
Chassis 114 Auto	5	Cartridge	⅝x2¼	8286	.50
15, 153, 154, 155, 156	8-8	Rect.Can	1½x2¼x4¼	8385	1.60
77, 331, 336	16	Inv.Can	1⅜x5¼	8721	1.55
331, 336-77, 344, 393	8	Inv.Can	1⅜x4¼	8722	1.05
381	4-8	Cdbd.Box	1⅜x1¼x4⅞	8755	1.30
381	10	Cartridge	⅝x2¼	8774	.50
344, 363	10	Cdbd.Box	1 1/16 x1 1/16 x2⅜	9019	.50
371, 373	8-8	Cdbd.Box	1 7/16 x1 1/16 x4⅛	9219	1.45
411, 411A, 413, 413A	8-10-16	Cdbd.Box	1½x1½x4	9661	1.80
66X Chassis 116A Auto	8-8	Cdbd.Box	1 1/16 x1 1/16 x3¼	9979	1.40
118	8-8	Cdbd.Box	1 1/16 x1 1/16 x3¼	10369	1.50
40, 49, 194 Chassis 440	10-4-6	Cdbd.Box	1¼x1 1/16 x4⅜	10536	1.70
55, 59, 75, 195, 560, 556 Chassis 500	10-8-8	Cdbd.Box	1 7/16 x1 3/16 x5 1/16	10827	1.85
MOTOROLA (Galvin)					
100	8-8x25	Cdbd.Box	1½x1 1/16 x2 1/16	1388	2.00
75 (Early)	6-6	Cdbd.Box	1x1½x2⅞	1465	1.20
75 (Later)	6-4x6	Cdbd.Box	1x1½x2⅞	1668	1.40
44	8-12	Cdbd.Box	1¼x2¼x2⅜	8123	1.35
44, 66, 77A	4-8	Cdbd.Box	1¼x1¾x2¼	———	1.10
57	3-5x6	Cdbd.Box	1¼x1¼x1⅞	1540	1.35
MONTGOMERY WARD (Air Line Radio)					
62-96, 62-98	4-12-16	Cdbd.Box	1¼x1¼x2¾	80944-A	1.85
PEERLESS	12-16-10	Cdbd.Box	1¼x2x3	E250	1.80
RADIO KEG	5-8-12	Cdbd.Box	1x1½x3	———	1.70
SIMPLEX					
Model V	4-20	Cdbd.Box	1x1x4¼	———	1.40
Model 4Z	15-8x5-5	Cdbd.Box	1x1x4½	———	1.95
STEWART WARNER					
10-20	5-5	Cdbd.Box	¾x¾x1½	81698	.75
R-115, R-116	4-13-7	Cdbd.Box	3⅛x1⅜x1⅛	81959	1.65
R-112	8-8-5-5	Cdbd.Box	1¼x1½x3⅜	83111	1.95
	12	Cdbd.Box	1 1/16 x1 1/16 x2⅜	83394	.80
SPARTON	5-25-5	Cdbd.Box	1⅝x1⅝x2 1/16	A-9550	2.00
	20	Cdbd.Box	1/16 x1/16 x2¼	A-9308	.60
UNITED MOTORS	8-8-4-4	Cdbd.Box	1½x1⅞x2¾	26508B	2.05
4038	10-10	Cdbd.Box	1⅜x2¼x2 1/16	———	1.55
4048	4-4-12	Cdbd.Box	1¼x1¼x2¾	———	1.70
U S RADIO & TEL					
Apex-5	4-4-12	Cdbd.Box	1¼x1¼x2¾	6201	1.70
Apex (1001 Chassis) 10B-200 President	8	Cdbd.Box	¾x1 1/16 x4⅛	2719	.90
WELLS-GARDNER					
05A, 05BA, 05AA	4-12-16	Cdbd.Box	1¼x1¼x2¾	80944-A	1.85
WURLITZER (Lyric)					
SA-5	8-8-10	Inv.Can	1⅜x5¼	35-3715	2.00
C4-M4	4-8x10	Cdbd.Box	⅞x1⅜x4	37-3773	1.65
SU-5	12-16x10	Cdbd.Box	1⅜x1 1/16 x2⅝	———	1.85
ZENITH	8-8-10	RoundCan Special	1⅜x2¾	22-236	1.90

UNIVERSAL REPLACEMENTS FOR AC-DC MIDGET RECEIVERS					
Spade Lug Type	12-16	Cdbd.Tube	1⅜x4¼	1216	1.55
Spade Lug Type	14-8x10-10	Cdbd.Tube	1⅜x4¼	148	2.05
Spade Lug Type	16-8x10-10	Cdbd.Tube	1⅜x4¼	168	2.05
Spade Lug Type	16-12x10-10	Cdbd.Tube	1⅜x4¼	1612	2.15
	12-12x5-5	Cdbd.Box	1x1½x2¾	1212	1.95
	16-16-8x5-5	Cdbd.Box	1 3/16 x1 1/16 x3	16168	2.45

(Complete Aerovox Replacement Catalog sent free upon request)

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AEROVOX RESISTORS "QUALITY BUILT"

AEROVOX CARBON RESISTORS



AEROVOX carbon resistors employ a special solid molded composition, non-hygroscopic body, quite unaffected by humidity changes. Slight positive temperature co-efficient is just sufficient to compensate a negative potential coefficient. These features serve to protect the unit against heavy short period overloads.

FEATURES OF AEROVOX CARBON RESISTORS

- Solid molded carbon element.
- Accurate resistance values and wattage ratings based on R.M.A. standards.
- Non inductive—showing no appreciable change in resistance value on high frequencies.
- Non-Hygroscopic—unaffected by humidity changes.
- Absolutely noiseless and permanent on and off full load. Power ratings exceptionally conservative.
- Low in price for the highest quality carbon resistors obtainable.

Type 1096—1/3 Watt
Size $\frac{3}{16}$"x$1\frac{1}{16}$"

Type 1095—1/2 Watt
Size ¼"x1"

Type 1094—1 Watt
Size ¼"x1¾"

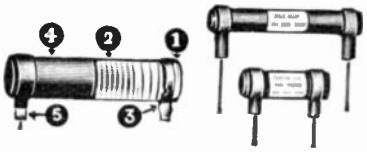
Resistance	Resistance
100 Ohms	15000 Ohms
150 Ohms	17500 Ohms
200 Ohms	20000 Ohms
250 Ohms	25000 Ohms
300 Ohms	30000 Ohms
400 Ohms	40000 Ohms
500 Ohms	50000 Ohms
600 Ohms	60000 Ohms
750 Ohms	70000 Ohms
800 Ohms	75000 Ohms
900 Ohms	100000 Ohms
1000 Ohms	125000 Ohms
1250 Ohms	150000 Ohms
1500 Ohms	200000 Ohms
1750 Ohms	250000 Ohms
2000 Ohms	300000 Ohms
2500 Ohms	400000 Ohms
3000 Ohms	500000 Ohms
3500 Ohms	750000 Ohms
4000 Ohms	1 Meg.
5000 Ohms	1½ Meg.
6000 Ohms	2 Meg.
7500 Ohms	2½ Meg.
8000 Ohms	3 Meg.
9000 Ohms	5 Meg.
10000 Ohms	10 Meg.
12500 Ohms	

ALL SIZES—ALL WATTAGES

List Price, Each $0.20

"PYROHM JUNIOR" RESISTORS

Wire-Wound Vitreous-Enameled



1. Crack-proof refractory tubing for heat dissipation.
2. Quality resistance wire space wound under tension.
3. Copper terminal band clamped to tubing. Wire ends wrapped and brazed to same.
4. Heavy vitreous-enamel coating for permanent seal against moisture, oxidation and mechanical damage.
5. Pigtail soldered to terminal band for positive, non-breakable connection.
6. New ultra-compact size.

Type 930—5 Watt
Size ¼"x1"

Type 931—10 Watt
Size ¼"x1¾"

Type 933—20 Watt
Size $\frac{1}{16}$"x3"

Resistance	List Prices 5 Watts	10 Watts	20 Watts
100 Ohms	$0.35	$0.40	$0.65
125 Ohms	.35	.40	.....
150 Ohms	.35	.40	.....
200 Ohms	.35	.40	.....
250 Ohms	.35	.40	.65
300 Ohms	.35	.40	.....
350 Ohms	.35	.40	.....
400 Ohms	.35	.40	.....
450 Ohms	.35	.40	.....
500 Ohms	.35	.40	.65
600 Ohms	.35	.40	.....
700 Ohms	.35	.40	.....
750 Ohms	.35	.40	.65
800 Ohms	.35	.40	.....
1000 Ohms	.35	.40	.65
1250 Ohms	.35	.40	.65
1500 Ohms	.35	.40	.65
1750 Ohms	.35	.40	.....
2000 Ohms	.35	.40	.65
2500 Ohms	.35	.40	.65
3000 Ohms	.35	.40	.65
3500 Ohms	.35	.40	.....
4000 Ohms	.35	.40	.65
4500 Ohms	.35	.40	.....
5000 Ohms	.35	.40	.65
6000 Ohms	.35	.40	.65
7000 Ohms	.35	.40	.65
7500 Ohms	.35	.40	.65
8000 Ohms	.35	.40	.65
9000 Ohms	.35	.40	.65
10000 Ohms	.35	.40	.65
12000 Ohms	.35	.40	.....
12500 Ohms	.35	.40	.65
14300 Ohms	.35	.40	.....
15000 Ohms	.35	.40	.65
16000 Ohms	.35	.40	.....
17500 Ohms	.35	.40	.....
18000 Ohms	.35	.40	.....
20000 Ohms	.35	.40	.75
25000 Ohms	.35	.40	.75
30000 Ohms	.35	.40	.75
40000 Ohms	.....	.....	.75
45000 Ohms	.....	.....	.....
50000 Ohms	.....	.....	.75
75000 Ohms	.....	.....	.75
100000 Ohms	.....	.....	1.00

"SLIDEOHM" RESISTORS

Vitreous-Enameled



Type 954—50 Watt
Size $1\frac{1}{8}$"x4"

Resistance	List Price	Resistance	List Price
100 Ohms	$1.35	4500 Ohms	$1.35
200 Ohms	1.35	5000 Ohms	1.35
300 Ohms	1.35	6000 Ohms	1.50
400 Ohms	1.35	7000 Ohms	1.50
500 Ohms	1.35	7500 Ohms	1.50
750 Ohms	1.35	8000 Ohms	1.50
800 Ohms	1.35	10000 Ohms	1.50
1000 Ohms	1.35	12000 Ohms	1.50
1500 Ohms	1.35	15000 Ohms	1.50
2000 Ohms	1.35	20000 Ohms	1.50
2500 Ohms	1.35	25000 Ohms	1.50
3000 Ohms	1.35	30000 Ohms	1.70
3500 Ohms	1.35	40000 Ohms	1.70
4000 Ohms	1.35	50000 Ohms	1.70

Type 956—75 Watt
Size $\frac{5}{8}$"x6"

Resistance	List Price	Resistance	List Price
100 Ohms	$1.75	5000 Ohms	$1.75
200 Ohms	1.75	6000 Ohms	2.00
300 Ohms	1.75	7000 Ohms	2.00
400 Ohms	1.75	7500 Ohms	2.00
500 Ohms	1.75	8000 Ohms	2.00
750 Ohms	1.75	10000 Ohms	2.00
800 Ohms	1.75	12000 Ohms	2.00
1000 Ohms	1.75	15000 Ohms	2.00
1500 Ohms	1.75	20000 Ohms	2.00
2000 Ohms	1.75	25000 Ohms	2.00
2500 Ohms	1.75	30000 Ohms	2.25
3000 Ohms	1.75	40000 Ohms	2.25
3500 Ohms	1.75	50000 Ohms	2.25
4000 Ohms	1.75	60000 Ohms	2.50
4500 Ohms	1.75	75000 Ohms	2.50

Extra Slider Bands—10c each

Type 957—100 Watt
Size $\frac{7}{8}$"x6½"

Resistance	List Price	Resistance	List Price
1000 Ohms	$2.00	20000 Ohms	$2.25
2000 Ohms	2.00	25000 Ohms	2.25
3000 Ohms	2.00	30000 Ohms	2.50
4000 Ohms	2.00	40000 Ohms	2.50
5000 Ohms	2.00	50000 Ohms	2.50
6000 Ohms	2.25	60000 Ohms	2.75
7500 Ohms	2.25	75000 Ohms	2.75
10000 Ohms	2.25	100000 Ohms	2.75
15000 Ohms	2.25		

Type 958—200 Watt
Size $1\frac{3}{16}$"x8½"

Resistance	List Price	Resistance	List Price
1000 Ohms	$3.00	30000 Ohms	$3.50
2500 Ohms	3.00	35000 Ohms	3.50
5000 Ohms	3.00	50000 Ohms	3.50
10000 Ohms	3.00	60000 Ohms	3.50
20000 Ohms	3.50	80000 Ohms	3.50
25000 Ohms	3.50	100000 Ohms	3.50

Extra Slider Bands—15c each

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AEROVOX EXACT DUPLICATE CONDENSERS

For Replacement in Refrigerators, Oil-Burners and Other Motor Driven Equipment




ELECTROLYTIC MOTOR STARTING CONDENSERS

A concise list of popular types of condensers arranged according to name and original part number of manufacturers for whom the various units were originally made. This listing is especially intended for those engaged in servicing electric refrigerators, oil burners and other fractional horsepower motor equipment employing condensers.




Manufacturers' Part No.	Aerovox Type No.	Cap. Mfd.	Can Sizes in Inches L. W. D. or D. H.	List Price
APEX ELEC. MFG. CO.				
58021*	101	115	3½x3½x2	$5.00
BALDOR ELECTRIC CO.				
.....	152	150	4½x4½x1 1/16	6.40
.....	153	115	4½x4½x1¼	5.00
BLACK & DECKER				
0-4270	102	75	2½x4⅛	4.00
CENTURY ELEC. CO.				
.....*	103	80	4½x4½x1¼	4.00
.....*	104	115	4½x4½x1¼	5.00
.....*	105	150	4½x4½x1⅝	6.40
.....*	154	80	2 x4⅛	4.50
DELCO PRODUCTS CORP.				
1061445†	106	115	2½x4⅛	5.00
1062558†	107	80	2½x4⅛	4.00
1062860†	108	29	2½x4⅛	5.40
1062882†	109	80	2½x4⅛	4.00
1062883†	110	115	2½x4⅛	5.00
1062888†	111	95	2½x4⅛	4.50
1063865*	112	115	3½x3½x2	5.00
1063866*	113	29	3½x3½x2	5.50
1063990*	114	115	3½x3½x2	5.00
1063991*	115	29	3½x3½x2	5.50
1063993*	116	100	3½x3½x2	4.60
1063868*	117	100	3½x3½x2	4.60
1066301*	118	90	3½x3½x2	4.35
ELECTRIC PRODUCTS CO.				
.....*	119	115	4½x4½x1¼	5.00
EMERSON ELEC. MFG. CO.				
.....*	120	115	4½x4½x1¼	5.00
KS633129	121	100	4½x4½x1¼	4.60
D1206	122	115	2½x4⅛	5.00
.....†	123	115	2½x4⅛	5.00
FAIRBANKS MORSE CO.				
F46981	124	300	9⅛x2 3/16x4¾	19.00
GENERAL ELECTRIC CO.				
H4206674-GR5	125	115	2½x4⅛	5.00
H4206674-GR7	126	135	2½x4⅛	5.80
.....*	141	115	2½x5¼	5.50
GRIGSBY GRUNOW CO.				
22846	127	110	3 x4⅛	5.00
23907	128	110	2½x4⅛	5.00

Manufacturers' Part No.	Aerovox Type No.	Cap. Mfd.	Can Sizes in Inches L. W. D. or D. H.	List Price
MARATHON ELEC. MFG. CO.				
.....*	129	175	4½x4½x1⅞	7.40
.....*	130	115	4½x4½x1¼	5.00
.....*	155	150	4½x4½x1 1/16	6.40
OHIO ELECTRIC CO.				
.....†	131	100	2½x4⅛	4.50
.....†	132	115	2½x4⅛	5.00
.....†	133	25	2½x4⅛	5.40
ROBBINS & MYERS				
.....*	134	75	4½x4½x1¼	4.00
.....*	135	115	4½x4½x1¼	5.00
SUNLIGHT ELEC. MFG. CO.				
17177	136	115	3 x4⅛	5.00
5201729	140	115	2 x4⅛	5.00
5201040	142	100	2½x4⅛	4.50
5201042	143	115	2½x4⅛	5.00
5201044	144	80	2½x4⅛	4.00
5201731	146	80	2 x4⅛	4.00
5201733	147	100	2 x4⅛	4.50
5201734	148	135	2 x4⅛	5.80
5203421	149	65	2 x4⅛	10.90
5204001	150	20	2 x4⅛	4.20
5204009	151	15	2 x4⅛	2.50
WAGNER ELECTRIC CO.				
.....*	137	115	3½x3½x2	5.00
HD-4500-D2*	138	115	3½x3½x2	5.00
HD-4500-D3*	139	25	3½x3½x2	5.50
HD-5223-1	156	100	3½x3½x2	4.50
HD-5326-A1	157	100	3½x3½x2	4.50

* These units are furnished with insulating containers for insulating the condenser from the motor.
† These units are insulated internally from can.

The following list of condensers, cross-indexed according to Aerovox Type Numbers, are exact counterparts of other units having different type numbers, and may be used interchangeably in connection with different motors and other equipment for which they were designed:—

Type Nos.
101—112—114
104—119—120—130—135—153
107—109
109—107
112—101—114
113—115
114—101—112
115—113
116—117
117—116
119—104—120—130—135—153
120—104—119—130—135—153
123—132
130—104—119—120—135—153
132—123
135—104—119—120—130—153
146—154
152—155
153—104—119—120—130—135
154—146
155—152



INDUSTRIAL OIL CONDENSERS

(Paper-Wound Type)

FOR REPLACEMENT USE IN ELECTRICAL REFRIGERATORS, OIL BURNERS AND OTHER ELECTRICAL APPLIANCES



Manufacturers' Part No.	Aerovox Type No.	Cap. Mfd.	Can Sizes in Inches L. W. D, or D. H.	List Price
BALDOR ELECTRIC CO.				
BE-102	501	2	1¼x4½x4 7/32	$4.80
BE-103	502	3	1¼x4½x4 7/32	5.75
BE-104	503	4	1¼x4½x4 7/32	6.70
BE-106	504	6	1⅝x4½x4 7/32	7.80
BE-108	505	8	2⅛x4½x4 7/32	9.15
BE-202	506	2	1⅝x3½x3	4.80
BE-203	507	3	1⅞x3½x3	5.75
BE-301	508	1	4⅞x3⅛x1	3.30

Manufacturers' Part No.	Aerovox Type No.	Cap. Mfd.	Can Sizes in Inches L. W. D. or D. H.	List Price
BALDOR ELECTRIC CO.				
BE-302	509	2	4⅞x3⅛x1¼	3.75
BE-303	510	3	4⅞x3⅛x1⅝	4.10
BE-304	511	4	4⅞x3⅛x1⅝	4.90
BE-306	512	6	4⅞x3⅛x2	5.75
BE-308	513	8	4⅞x3⅛x2½	6.95
BE-401	514	1	4⅞x3⅛x1	3.20
BE-402	515	2	4⅞x3⅛x1	3.45

(Continued on next page)

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EXACT DUPLICATE REPLACEMENT CONDENSERS

For Use in Electrical Refrigerators, Oil Burners and Other Motor Driven Equipment

INDUSTRIAL OIL CONDENSERS

(Continued from Preceding Page)

Manufacturers' Part No.	Aerovox Type No.	Cap. Mfd.	Can Sizes in Inches L. W. D. or D. H.	List Price
BALDOR ELECTRIC CO.				
BE-403	516	3	4⅞x3⅛x1¼	3.75
BE-404	517	4	4⅞x3⅛x1⅜	4.10
BE-405	518	5	4⅞x3⅛x1½	4.65
BE-406	519	6	4⅞x3⅛x1⅝	4.95
BE-408	520	8	4⅞x3⅛x1⅞	5.55
BE-501	521	1	3½x3½x 1⅛	2.90
BE-502	522	2	3½x3½x1 1/16	3.35
BE-503	523	3	3½x3½x1 5/16	3.80
BE-504	524	4	3½x3½x1¾	4.65
BE-505	525	5	3½x3½x2 1/16	5.10
BE-601	526	1	4½x4½x 1⅛	3.15
BE-602	527	2	4½x4½x 1⅜	3.50
BE-603	528	3	4½x4½x1	3.95
BE-604	529	4	4½x4½x1⅛	4.75
BE-605	530	5	4½x4½x1 5/16	5.15
BE-606	531	6	4½x4½x1 7/16	5.55
BE-608	532	8	4½x4½x1¾	7.10
CENTURY ELEC. CO.				
.....	614	3.75	3 x1⅜x4	6.50
CLEVELAND STEEL PROD. CO.				
.....	533	2	2 x5 1/16	3.50
DELCO PRODUCTS CORP.				
047727	534	8.5	4⅞x3⅛x3½	8.30
1055074	535	3.5	4⅞x3⅛x1¾	5.05
1055347	536	2.6	1⅞x3⅛x2¼	4.25
1055955	537	4.4	4⅞x3⅛x2¼	5.65
1057535	538	8.5	4⅞x3⅛x3½	8.30
1057536	539	5.2	4⅞x3⅛x2½	6.05
1057537	540	4.4	4⅞x3⅛x2¼	5.65
1057538	541	3.5	4⅞x3⅛x2	5.05
1057539	542	2.6	4⅞x3⅛x1⅝	4.25
048753	612	3	3⅛x4⅞x1½	3.50
1055546	602	6	4 x1⅝x5	5.45
1064150	612	3	3⅛x4⅞x1½	3.50
1071305	546	3.5	2 x1⅞x5	4.55
1071306	547	1	2 x1⅞x5	3.25
EMERSON ELEC. MFG. CO.				
ESA-102	548	1	4⅞x3⅛x1½	4.30
ESA-202	549	2	4⅞x3⅛x2¼	6.05
ESA-302	550	3	4⅞x3⅛x3	7.85
ESA-402	551	4	4⅞x3⅛x3¾	9.65
ESA-502	552	5	4⅞x3⅛x4½	11.45
ESA-602	553	6	4⅞x3⅛x5¼	13.20
ESA-702	554	7	4⅞x3⅛x6	14.95
ESA-802	555	8	4⅞x3⅛x6¾	16.75
ESA-902	556	9	4⅞x3⅛x7½	18.85
ESA-6012	557	6	4⅞x3⅛x2	5.75
ESA-7012	558	7	4⅞x3⅛x2¼	6.50
ESA-8012	559	8	4⅞x3⅛x2½	6.95
ESA-9012	560	9	4⅞x3⅛x2¾	7.40
ESA-10012	561	10	4⅞x3⅛x3	8.15
ESA-12012	562	12	4⅞x3⅛x3⅜	9.10
ESA-14012	563	14	4⅞x3⅛x3⅞	10.15
ESA-16012	564	16	4⅞x3⅛x4¼	11.20
GRIGSBY GRUNOW CO.				
25036	565	8	2½x5 1/16	4.85
HOWELL ELEC. MOTORS				
.....	566	4	1 x4 x5	5.30
.....	567	6	1½x4 x5	6.70
.....	568	8	2 x4 x5	8.50
HOME SANITATION CO.				
.....	569	4	1 x2 x5	2.95
.....	570	4	2 x2 x5	4.25
HOLTZER CABOT CO.				
28650	571	6	4⅞x3⅛x2	5.75
LELAND ELECTRIC CO.				
1170-1	572	4	4⅞x3⅛x2	5.40
1170-2	573	4.5	4⅞x3⅛x2⅛	5.65
1170-3	574	5	4⅞x3⅛x2¼	5.95
1170-4	575	6	4⅞x3⅛x2½	6.50
1170-5	576	8	4⅞x3⅛x3⅛	8.00
1170-6	577	10	4⅞x3⅛x3¾	9.45
1170-7	578	3	4⅞x3⅛x1¾	5.05
1170-8	579	2	4⅞x3⅛x1⅜	4.00
MARATHON ELEC. CO.				
.....	580	1	4⅞x3⅛x1½	4.50
.....	581	4	4⅞x3⅛x3⅛	8.00
.....	582	5	4⅞x3⅛x3⅝	9.00
MASTER ELEC. MFG. CO.				
50938	583	2.7	4⅞x3⅛x1¾	4.80
50939	584	3	4⅞x3⅛x1¾	5.05
50940	585	5.5	4⅞x3⅛x2¾	7.25
60292	586	2	4⅞x3⅛x1¾	4.65
60323	587	4	4⅞x3⅛x2⅞	6.90
60200	588	3	1¾x4¾x5	5.05
60201	589	2	1¼x4¾x5	3.55
60199	590	4	2¼x4¾x5	6.00
OHIO ELECTRIC CO.				
4364A	591	2.5	2 x5 1/16	3.70
4364B	592	3	2 x5 1/16	4.10
4365A	593	2.25	4⅞x3⅛x2⅜	5.00
4365B	594	4.5	4⅞x3⅛x1¾	5.10
4365C	595	4.5	4⅞x3⅛x3⅛	7.50
4365D	596	8.5	4⅞x3⅛x2¾	7.20
4365E	597	10	4⅞x3⅛x3	8.15
4365F	598	12	4⅞x3⅛x3⅜	9.10
4365G	599	12	4⅞x3⅛x5	12.80
4365H	600	10	4⅞x3⅛x4⅛	11.30
4351	612	3	3⅛x4⅞x1½	3.50
4375	602	6	1⅝x4 x5	4.60
ROBBINS & MYERS				
.....	603	2	1⅜x4½x2⅛	4.65
.....	604	3	1⅛x4½x2⅛	5.65
.....	605	8	1¾x4½x4½	7.10
.....	606	5	2¾x4½x2⅛	8.00
.....	607	5	4⅞x3⅛x1½	4.64
.....	608	12	4⅞x3⅛x2½	7.05
SUNLIGHT ELEC. MFG. CO.				
5000455	609	5	3¾x3 3/16 x2	7.45
5000456	610	6	3¾x3 3/16 x2¼	7.95
TIMKEN SILENT AUTO CO.				
3528Q17	612	3	3⅛x4⅞x1½	3.50
WAGNER ELECTRIC CO.				
HD-3444	615	5	3¾x3 3/16 x1½	7.00
WESTINGHOUSE ELEC. & MFG. CO.				
799966	613	5.2	3⅛x4⅞x2	6.00
WILLIAMS OIL-O-MATIC				
EM398A	611	4	4⅞x3⅛x2	5.40

NOTE:—When ordering any of the above condensers please give Aerovox Type number only.

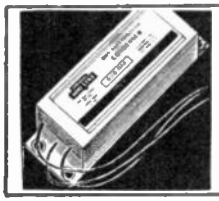
The following list of condensers, cross-indexed according to Aerovox Type Numbers, are exact counterparts of other units having different type numbers, and may be used interchangeably in connection with different motors and other equipment for which they were designed:—

Type Nos.	Type Nos.
557—512	512—557
559—513	513—559
561—597	518—607
562—598	534—538
597—561	537—540
598—562	538—534
601—543—545—612	540—537
607—518	543—545—601—612
612—543—545—601	545—543—601—612

NOTE: WRITE US FOR A COMPLETE AEROVOX INDUSTRIAL CONDENSER REPLACEMENT CATALOG

Replacement condensers not listed in the above and preceding page can also be furnished on special order. When ordering units not listed, kindly send us a sample of the unit which has failed in service, together with all available data such as manufacturers' part number, capacity, voltage, ratings, etc.

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SPRAGUE CONDENSERS



Aluminum Can Type Dry Electrolytics



The chief troubles with ordinary dry electrolytic condensers—open contacts and short circuits—are now definitely eliminated in these units by an exclusive Sprague process. Cased in substantial aluminum can containers with mounting brackets. Can be mounted in any position—impervious to heat and moisture—stable in operation—give finest performance under all operating conditions.

Standard Can Type (Dry)

Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts

Cat. No.	Cap. Mfd.	Dimensions Diam. Ht.	List Price
AC-2	2	1" x3¼"	$1.10
AC-4	4	1" x3¼"	1.25
AC-6	6	1" x4 7/16"	1.45
AC-8	8	1⅜" x4 7/16"	1.50
AC-10	10	1⅜" x4 7/16"	1.80
AC-12	12	1⅜" x4 7/16"	2.05
AC-16	16	1⅜" x4 7/16"	2.30

Inverted Units—Screw Type (Dry)

Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts

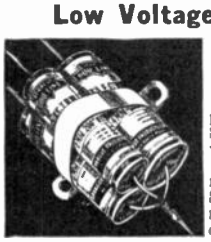
Cat. No.	Cap. Mfd.	Dimensions Diam. Ht.	List Price
SC-4	4	1" x3"	$1.25
SC-6	6	1" x3"	1.45
SC-8	8	1⅜" x4 7/16"	1.50
SC-88	8-8	1⅜" x4 7/16"	2.40
CL-88	8-8	4 Leads	2.40

"500" Wet Electrolytics

D.C. Peak Voltage—500 Volts

Cat. No.	Cap. Mfd.	Diam.	List Price
WC-4	4	1"	$0.80
WC-6	6	1"	.85
WC-8	8	1"	.95
WC-10	10	1⅜"	1.05
WC-12	12	1⅜"	1.15

Low Voltage Tubular Condensers



Dry Electrolytics

Universally used in present A.C. - D.C. Sets. Specially made to withstand heat prevalent in midget receivers.

Specially designed mounting straps enabling you to make any special multiple section with common cathode or common anode or any other combination. Will fit anywhere.

Cat. No.	Cap. Mfd.	D.C. Volt.	List Price
ST-22	2	200V.	$0.55
ST-42	4	200V.	.65
ST-82	8	200V.	.80
ST-122	12	200V.	.95
ST-162	16	200V.	1.05
ST-252	25	200V.	1.25
ST-44	4-4	200V.	.90
ST-48	4-8	200V.	1.15
ST-88	8-8	200V.	1.25
ST-812	8-12	200V.	1.40
ST-816	8-16	200V.	1.45
ST-21	2	100V.	1.50
ST-41	4	100V.	.60
ST-81	8	100V.	.70
ST-121	12	100V.	.85
ST-251	25	100V.	.95

SPRAGUE "600" LINE

GUARANTEED !

Sprague "600" Line and Emergency Unit Condensers are fully guaranteed against defects in materials and workmanship. The voltage ratings and capacity ratings on all condensers are absolutely as specified. WE GUARANTEE THIS UNCONDITIONALLY. And finally, the Sprague "600" Line is YOUR guarantee to the customer.



Multiple Units Dry Electrolytics

Constructed under the same special process as the single units. Double screw nut; positive connections for use with soldering lugs. Extremely low power factor and low leakage.

Working Voltage—475
Maximum Voltage—600

Cat. No.	Cap. Mfd.	Dimensions Diam. Ht.	List Price
AC-88	8-8	1⅜" x4 7/16"	$2.40
AC-444	4-4-4	1⅜" x4 7/16"	2.80
AC-888	8-8-8	3" x4½"	4.00
AC-515	5-15	2½" x4½"	3.35
AC-9918	9-9-18	3" x4½"	5.80
AC-9936	9-9-18-18	3" x4½"	8.15

Metal Cased By-Pass Condensers



Bathtub Type

400-volt working range. 600-peak. Enclosed in a drawn-metal case. Moisture and heat-proof.

Cat. No.	Cap. Mfg.	Dimensions	Mtg. Dim.	List Price
BP-1	.1	1⅜" x ⅝" x ⅝"	2½"	$0.50
BP-25	.25	1⅜" x ⅝" x ⅝"	2½"	.60
BP-50	.5	2" x ¾" x1 3/16"	2⅜"	.75
BP-10	1.0	2" x1 3/4" x1"	2⅜"	1.00
BP-21	.1-.1	1⅜" x ⅝" x ⅝"	2½"	.65
BP-225	.25-.25	2" x ¾" x1 3/16"	2⅜"	.80
BP-250	.5-.5	2" x1 3/4" x1"	2⅜"	1.00
BP-31	.1-.1-.1	2" x ¾" x1 3/16"	2⅜"	.85

Famous Sprague Midgets



Unexcelled as general by-pass stopping and grid condensers. Ideal for midget sets and automobile radio receivers. Non-inductive.

Test Voltage—1000 Volts

Cat. No.	Cap. Mfd.	Mtg. Dimensions	List Price
MC-31	.0001	2"	$0.25
MC-325	.00025	2"	.25
MC-34	.0004	2"	.25
MC-35	.0005	2"	.25
MC-21	.001	2"	.25
MC-24	.004	2"	.25
MC-25	.005	2"	.25
MC-26	.006	2"	.25
MC-11	.01	2"	.25
MC-12	.02	2"	.30
MC-15	.05	2"	.30
MC-16	.06	2"	.35
MC-1	.1	2"	.35

Cardboard Type Dry Electrolytics



Trouble-proof condensers. Can be safely installed in any radio. Pigtail leads have push-back insulation.

Working Voltage—475 Volts
Maximum Voltage—600 Volts

Cat. No.	Cap. Mfd.	Dimensions	List Price
DC-2	2	2⅜" x1 ¼" x1 ½"	$0.95
DC-4	4	4⅛" x1 ⅜" x ¾"	1.15
DC-6	6	4⅛" x1 ⅜" x1"	1.30
DC-8	8	4⅛" x1 ⅜" x1"	1.35
DC-24	2-4	4⅛" x1 ⅜" x1"	1.65
DC-44	4-4	4⅛" x1 ⅜" x1"	1.80
DC-46	4-6	4⅛" x1 ⅜" x1 11/16"	1.95
DC-48	4-8	4⅛" x1 ⅜" x1 11/16"	2.00
DC-66	6-6	4⅛" x1 ⅜" x1 11/16"	2.15
DC-68	6-8	4⅛" x1 ⅜" x1 11/16"	2.20
DC-88	8-8	4⅛" x1 ⅜" x1 11/16"	2.20
SR-88	8-8	4 Leads	2.20
SR-44	4-4	4 Leads	1.80

Sprague "450" Tiny Mike Round Dry Electrolytics



Of compact, tubular shape, Tiny Mike Round Electrolytics may be used to replace much larger old style condensers of equal capacity. Self-supporting. Insulated leads with push-back wire.

Conservatively rated at 450 Volts with extra safety factor.

Cat. No.	Cap. Mfd.	Dimensions	List Price
RE-1	1	⅜" x2 5/8"	$0.55
RE-2	2	⅜" x2 5/8"	.65
RE-4	4	⅞" x2 5/8"	.75
RE-6	6	1 1/8" x2 5/8"	.90
RE-8	8	1 1/8" x2 5/8"	.95
RE-44	4-4	1 1/8" x2 5/8"	1.20
RE-88	8-8	1¼" x4"	1.50

Cartridge By-Pass Condensers



Wound non-inductively. Impregnated by a special Sprague process and encased in a moisture-proof tube, with ferruled caps and secured pigtail leads. These are the smallest compact tubulars on the market.

Test Voltage—1200
Working Voltage—600

Cat. No.	Cap. Mfd.	Dimensions Lgth.	Diam.	List Price
TC-31	.0001	5/16"	3/16"	$0.25
TC-325	.00025	7/16"	3/16"	.25
TC-34	.0004	7/16"	3/16"	.25
TC-35	.0005	5/16"	3/16"	.25
TC-21	.001	5/16"	3/16"	.25
TC-22	.002	5/16"	3/16"	.25
TC-23	.003	1"	3/16"	.25
TC-24	.004	1"	3/16"	.25
TC-25	.005	5/16"	3/16"	.25
TC-26	.006	1 1/16"	3/16"	.25
TC-11	.01	1 1/16"	3/16"	.25
TC-12	.02	1 1/16"	3/16"	.30
TC-13	.03	1 1/16"	3/16"	.30
TC-14	.04	1 1/16"	3/16"	.30
TC-15	.05	1¼"	3/16"	.30
TC-16	.06	1 5/16"	3/16"	.35
TC-1	.1	1 5/16"	3/16"	.35
TC-2	.25	1¾"	¼"	.45
TC-5	.5	1¾"	⅜"	.60

The booklets Sprague "Tell-U-How" and "Facts You Should Know About Condensers"—will be supplied free, upon request, with each order, as long as they last.

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SPRAGUE CONDENSERS



Interference Filter Condensers & Chokes

Especially designed for interference elimination. Used as indicated by the Interference Analyzer listed at the right. Quick and easy way of checking man-made static.



Type IF-11

A Dual condenser for silencing larger type motors such as found on refrigerators, large fruit juice extractors, oil burners, sign flashers, printing press motors, lathe and drill presses, etc. In obstinate cases of interference a choke may be required, but in 80% of the cases the condenser alone will suffice. See diagrams II and III for suggested installation.

IF-11..... ..List Price $2.50

Type IF-50



Individual unit oil-impregnated, oil-filled condenser for small motors requiring higher-capacity units. Two may be connected in series when necessary. Oil-impregnated condensers are always best.

IF-50.....List Price $1.75



SPRAGUE INTERFERENCE ANALYZER

Show Customers Just Where Interference Originates — Eliminate It ! — With self-built interference filters at savings of ⅓ to ½ of cost. At last—a quick, practical way for eliminating radio interference from ANY electrical device. No more guessing. No lost time. First you actually **eliminate** the noise with the Analyzer. You **show** customers just what proper filtering of appliances will do. Then, from the instruction sheet, you learn what Sprague filter condensers or chokes to install to insure **exactly** the same results as those obtained with the Analyzer. Inexpensive—will quickly pay for itself in new business it helps you build.

Complete with Adapters
NET Price to Servicemen..... $9.75

Types IF-33 and IF-21



A compact Tubular, 2-lead condenser for eliminating interference from fractional horse-power motors such as found in mixers, small fans, humidifiers, beer pumps, portable electric tools, hair driers, etc. See Diagram 1.

No.	List Price
IF-33.....	$0.75
IF-21.....	1.00

Type CH-1



Specially designed choke will carry up to 10 amps. Equivalent approximately to use on 1-horsepower motor. The choke is enclosed in a sturdy metal can, self-mounting.

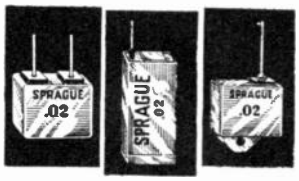
CH-1..... List Price $1.35

Metal Boxes

Sprague furnishes a standard metal cut-out box 6"x6"x3½" to house various individual Sprague interference units used in a filter system.

NET to servicemen..... $0.88

Oil - Impregnated Vibrator Condensers



Type FR Type AR Type LR



Eliminate your troubles due to broken down vibrator condensers by replacing with this new Oil-Impregnated Condenser capable of withstanding voltages in vibrators. Housed in specially designed metal cans fully sealed.

Cat. No.	Cap. Mfd.	Dimensions	List Price
AR-11	.01	1 11/16" x 1 1/16" x 1 1/4"	$0.45
AR-12	.02	1 11/16" x 1 1/16" x 1 1/4"	.45
AR-13	.03	1 11/16" x 1 1/16" x 1 1/4"	.45
AR-14	.04	1 11/16" x 1 1/16" x 1 1/4"	.45
AR-15	.05	1 11/16" x 1 1/16" x 1 1/4"	.45
MV-11	.01	3" x 9/16" x 3 3/8"	.45
FR-11	.01	1" x 7/8" x 1 1/4"	.45
FR-12	.02	1" x 7/8" x 1 1/4"	.45
LR-27	.007	1 1/16" x 7/8" x 1 3/8"	.45
LR-11	.01	1 1/16" x 7/8" x 1 3/8"	.45
LR-12	.02	1 1/16" x 7/8" x 1 3/8"	.45
TR-11	.01	Tubular	.45
TR-12	.02	Tubular	.45

NEW ! SPRAGUE "TINY-MIKE"

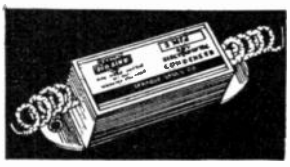
Dry Electrolytics

Have full capacity and 450-volt working voltage. Small enough to fit any space and large enough not to over-heat. The answer to the demand for popular-priced replacement condensers of real quality.



Cat. No.	Cap. Mfds.	Voltage	Dimensions Sizes	List Price
TM-1	1	450-v.	13/16 x 13/16 x 2 1/2	$0.55
TM-2	2	450-v.		.65
TM-4	4	450-v.	1 x 1 x 2 1/2	.75
TM-6	6	450-v.	1 1/16 x 1 1/16 x 2 1/2	.90
TM-8	8	450-v.		.95
TM-10	10	450-v.	1 1/16 x 1 1/16 x 2 1/2	1.15
TM-44	4-4 (4 Leads)	450-v.	1 1/16 x 1 1/16 x 2 1/8	1.20
TM-88	8-8 (8 Leads)	450-v.	2 x 1 1/16 x 2 1/2	1.50

NEW IMPROVED "EC" CONDENSERS



Double Tested. Highest Voltage. Smallest, most compact electrolytic condensers; may be used to replace old style electrolytics or single sections of multiple units.

475 Volts—Working; 600 Volts—Peak

Cat. No.	Mfd.	Dimensions Inches	List Price
EC-50	.5	2 1/16 x 1 x 7/8	$0.80
EC-75	.75	2 1/16 x 1 x 7/8	.85
EC-1	1	2 3/16 x 1 1/16 x 7/8	.85
EC-2	2	2 3/16 x 1 1/16 x 7/8	.95
EC-4	4	2 3/16 x 1 1/16 x 1 1/8	1.15
EC-6	6	2 3/16 x 1 1/16 x 1 1/8	1.30
EC-8	8	2 3/16 x 1 1/16 x 1 3/8	1.35

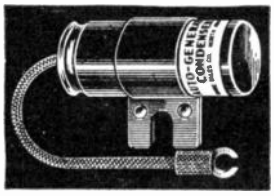
Transmitting Condensers



On the label of every Sprague Transmitting Condenser, you will find the capacity, maximum D.C. working voltage and maximum surge voltage—also, depending upon whether choke input or condenser input filter is used, the maximum voltage rating delivered by the secondary of the transformer for which these condensers can safely operate in accordance with A.R.R.L. standards. Moreover, you're assured of ample safety factor.

Cat. No.	Cap. Mfd.	D.C. W.V.	List Price
OT-11	1	1000V.	$2.50
OT-21	2	1000V.	3.35
OT-22	2	2000V.	4.75
OT-41	4	1000V.	4.85
OT-27	2	700V.	3.00
OT-115	1	1500V.	2.85
OT-215	2	1500V.	3.90
OT-12	1	2000V.	3.55
OT-13	1	3000V.	8.50

Auto Radio Condensers



Test Volts—600
Working Volts—400

Cat. No.	Cap. Mfd.	List Price
AR-1	1.0	$0.80
AR-2	.5	.60
Ford Type	.5	.60
AR-25	.5-.5	.75

Short Wave, High Frequency

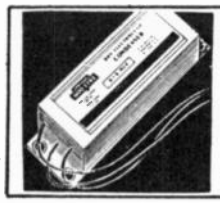
Oil Impregnated



A substitute for mica condensers. Sturdy. Self-supporting. Unusually small. Metal-encased. Non-inductive. Low-power factor. Impregnated with special oil. Guaranteed.

Cat. No.	Cap.	W.V.	Dim. D	Dim. L.	List Price
SW-22	.002	1500	5/8"	x 1 1/8"	$0.45
SW-25	.005	1500	5/8"	x 1 1/8"	.45
SW-11	.01	1500	1/2"	x 1 1/8"	.70
SW-12	.02	1500	1/2"	x 1 5/8"	.75
SW-15	.05	1000	7/8"	x 2 1/4"	.80
SW-1	0.1	1000	7/8"	x 2 1/4"	.90

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SPRAGUE CONDENSERS



NEW!

A Complete 450 VOLT LINE
Made by SPRAGUE — Guaranteed by SPRAGUE

With the addition of these 450-VOLT line units, Sprague offers the finest, most complete line of replacement condensers for EVERY need. These "450-volt line" condensers are constructed with the same care and precision as the famous "600 line." They are competitively priced, despite the precision construction.



TYPE "LA" ALUMINUM CAN DRY ELECTROLYTIC

These sturdy Dry Electrolytics are offered at a price within the reach of all. Cased in durable aluminum containers with mounting brackets. Fit in any mounting hole—may be used to replace cans of much larger size. Polarity clearly indicated on label.

Continuous Working Voltage 450 Volts
Maximum Surge Voltage 525 Volts

Cat. No.	Dimensions	Cap. Mfd.	Voltage	List Price
LA-2	1 "x3¼"	2	450	$0.75
LA-4	1 "x3¼"	4	450	.85
LA-6	1 "x4 7/16"	6	450	1.00
LA-8	1⅜"x4 7/16"	8	450	1.05
LA-10	1¾"x4 7/16"	10	450	1.25
LA-12	1⅜"x4 7/16"	12	450	1.40
LA-16	1⅜"x4 7/16"	16	450	1.55

TYPE "LA" MULTIPLE UNITS

Similar to above but with multiple units in single can.

Continuous Working Voltage 450 Volts
Maximum Surge Voltage 525 Volts

Cat. No.	Dimensions	Cap. Mfd.	Voltage	List Price
LA-515	2½"x4½"	5-15	450	$2.30
LA-88	2½"x4 7/16"	8-8	450	1.80
LA-816	2½"x4 7/16"	8-16	450	2.35
LA-444	2½"x4 7/16"	4-4-4	450	2.15
LA-888	3" x4½"	8-8-8	450	2.70
LA-9918	3 "x4½"	9-9-18	450	3.75
LA-8888	3" x4½"	8-8-8-8	450	3.60
LA-8836	3" x4½"	8-8-18-18	450	4.85
LA-9936	3" x4½"	9-9-18-18	450	5.25



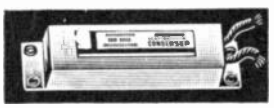
TYPE "LS" SCREW CAN INVERTED UNITS

A popular unit with many replacement uses, thanks to its small size and durable construction. Packed with hardware for insulating can from mounting. May also be used with Sprague special mounting clamp for upright mounting or for mounting where can extends through base panel. Polarity plainly marked.

Working Voltage 450 Volts
Maximum Surge Voltage 525 Volts

Cat. No.	Dimensions	Cap. Mfd.	Voltage	List Price
LS-2	1" x3½"	2	450	$0.75
LS-4	1" x3½"	4	450	.85
LS-6	1" x4 7/16"	6	550	1.00
LS-8	1⅜"x4 7/16"	8	450	1.05
LS-10	1⅜"x4 7/16"	10	450	1.25
LS-12	1⅜"x4 7/16"	12	450	1.40
LS-16	1⅜"x4 7/16"	16	450	1.55
LS-44	1⅜"x4 7/16"	4-4	450	1.30
LS-48	1⅜"x4 7/16"	4-8	450	1.45
LS-88	1⅜"x4 7/16"	8-8	450	1.60
LC-44 (4 Leads)	1½"x4 7/16"	4-4	450	1.30
LC-88 (4 Leads)	1½"x4 7/16"	8-8	450	1.60

TYPE "LD" CARDBOARD CONTAINER DRY ELECTROLYTIC



A standard unit for general use. Special mounting flanges may be used or clipped off as desired. Moisture proof cardboard casing. Pigtail leads with push-back insulation. Competitive in price—reliable in operation.

Working Voltage 450 Volts
Maximum Surge Voltage 525 Volts

Cat. No.	Dimensions	Cap. Mfd.	Voltage	List Price
LD-2	2¾"x1 1/16"x1 1/16"	2	450	$0.65
LD-4	4⅛"x1⅜"x 3/4"	4	450	.75
LD-6	4⅛"x1⅜"x1 "	6	450	.90
LD-8	4⅛"x1⅜"x1"	8	450	.95
LD-10	4⅛"x1⅜"x1 1/4"	10	450	1.15
LD-12	4⅛"x1⅜"x1 1/4"	12	450	1.30
LD-16	4⅛"x1⅜"x1 1/4"	16	450	1.45
LD-44	4⅛"x1⅜"x1"	4-4	450	1.20
LD-48	4⅛"x1 9/16"x1 5/16"	4-8	450	1.35
LD-88	4⅛"x1 9/16"x1 5/16"	8-8	450	1.50
LD-444	4⅛"x1¼"x1 9/16"	4-4-4	450	1.80
LD-888	4⅛"x1½"x2"	8-8-8	450	2.20
LR-44 (4 Leads)	4⅛"x1⅜"x1"	4-4	450	1.20
LR-48 (4 Leads)	4⅛"x1 9/16"x1 5/16"	4-8	450	1.35
LR-88 (4 Leads)	4⅛"x1 9/16"x1 5/16"	8-8	450	1.50

TYPE "BH" AND TYPE "BT" "600" LINE

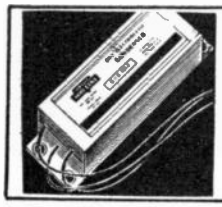
Using the new ALUMINIZED CARTON



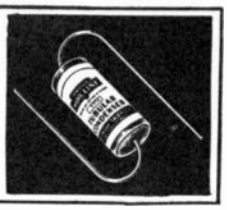
These units are square instead of round for simplicity in making substitute replacements—**The Sprague Way.** (See multiple strap mountings on other side). Hundreds of combinations for A.C.-D.C. set replacements made possible by the use of these condensers.

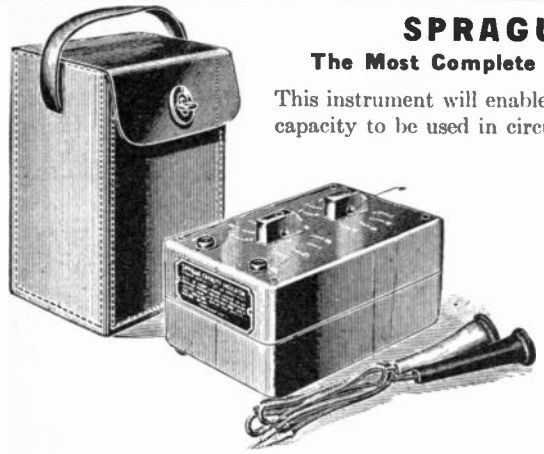
New Sprague Cat. No. "Square"	Dimensions	Cap. Mfd.	Voltage	List Price
BH-5	2½"x 5/8"x 5/8"	5	25	$0.50
BH-10	2½"x 3/4"x 3/4"	10	25	.50
BH-510	2½"x 7/8"x 7/8"	10	50	.65
BH-25	2½"x 7/8"x 7/8"	25	25	.65
BH-50		50	25	.95
BH-505		50	50	1.20
BH-525	2½"x1 1/16"x1 1/16"	25	50	.80
BH-100	2½"x1" x1"	10-10	25	.75
BT-22	2½"x 3/4"x 3/4"	2	200	.55
BT-42	2½"x 7/8"x 7/8"	4	200	.65
BT-82	2½"x1" x1"	8	200	.80
BT-122	2½"x1 1/16"x1 1/16"	12	200	.95
BT-162	2½"x1 1/8"x1 1/8"	16	200	1.05
BT-251		25	100	.95
BT-252	2½"x1 1/4"x1 1/4"	25	200	1.25
BT-21	2½"x 5/8"x 5/8"	2	100	.50
BT-41	2½"x 3/4"x 3/4"	4	100	.50
BT-81	2½"x 7/8"x 7/8"	8	100	.60
BT-121	2½"x1" x1"	12	100	.75
BT-44 (4 Leads)	2½"x1 1/2"x 7/8"	4-4	200	.90
BT-48 (4 Leads)	2½"x1 3/4"x 7/8"	4-8	200	1.15
BT-88 (4 Leads)	2½"x1 3/4"x1"	8-8	200	1.25
BT-812 (4 Leads)	2½"x2" x1 1/8"	8-12	200	1.40
BT-816 (4 Leads)	2½"x2" x1 1/8"	8-16	200	1.45

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SPRAGUE CONDENSERS





SPRAGUE CAPACITY INDICATOR

The Most Complete Condenser Analyzer on the Market at Minimum Cost

This instrument will enable you to do better and more accurate work. Tells you the correct capacity to be used in circuit in a jiffy — saves time — saves money — insures better work.

Measures from .00025 mfd. to 16 mfd. Bakelite case 7x high, 4½" wide, 3" deep, with test leads, Surge Arrestor, and Instruction Folder. Optional — Carrying case (genuine cowhide, extra durable) $2.25 extra.

Priced at less than the cost of the component parts if you were to attempt to build one yourself. Hundreds in use. Have you ever been in doubt about the correct capacity of a defective paper tubular or dry electrolytic condenser—**THEN BUY AN INDICATOR.**

NET to Servicemen $8.90

SPECIAL REPLACEMENT SECTION ■ DRY ELECTROLYTIC CONDENSERS

JUST A FEW OF THE EXACT DUPLICATES FOR MOST POPULAR RECEIVERS

Manufacturer	Mfg. Part Number	Cap. Mfd.	Voltage	Sprague Part No.	List Price
Atwater Kent	21955	8-8-8 Mfd.	150v.	KM-888	$1.75
United American Bosh	CE954	4 Mfd. 8 Mfd. 20 Mfd.	450v. 475v. 25v.	D1116	2.75
" "	SA105309	16-4-4 Mfd. 5 Mfd.	150v. 10v.	D1036	2.25
Colonial Radio	R-8357	8 Mfd. 20 Mfd.	150v. 20v.	D1035	1.30
Crosley Radio	W-29150A 29150B	6 Mfd. 7 Mfd.	400v. 450v.	D572	2.10
" "	29150C	8 Mfd.	25v.		
Emerson	W-27488 HC-32	6 Mfd. 8 Mfd. 5-5 Mfd.	300v. 25v. 35v.	CM-68 IR-55	.95 .75

Manufacturer	Mfg. Part Number	Cap. Mfd.	Voltage	Sprague Part No.	List Price
General Elec.	6487	4-4 Mfd. 10 Mfd. 4 Mfd.	350v. 150v. 25v.	D1026	$2.10
General Household (Grunow)	27151	20-4 Mfd. 8 Mfd. 4 Mfd.	100v. 100v. 25v.	D1082	2.20
RCA Victor	66155-1	4-4 Mfd. 10 Mfd. 4 Mfd.	300v. 150v. 25v.	D1026	2.00
" "	66197-2	5-5 Mfd.	50v.	RM-55	.75
" "	66140-1	4-4 Mfd.	150v.	RM-44	.85
Stewart-Warner	83734	8-8 Mfd.	350v.	D720	1.50
Zenith Radio	22-236	8-8 Mfd. 10 Mfd.	300v. 25v.	D1636	2.00

Write for complete List of Sprague Exact Duplicates. Space not available here for complete listing.

SPRAGUE UNCASED CONDENSERS

PAPER DIELECTRIC

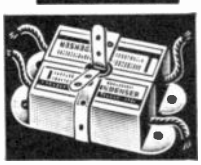


These condensers are ideal for replacement purposes. They are triple impregnated and use moisture proof insulation. These condensers are particularly well constructed and the sizes are such as to be applicable for their uses with a minimum of time and effort. Made the Sprague Way.

Sprague Cat. No.	Dimensions	Cap. Mfd.	Voltage	List Price
UC-14	2" x1⅜"x 1½"	1	400	$0.75
UC-24	2" x1½"x ¾"	2	400	1.15
UC-24	3¼"x1⅞"x ⅞"	2	400	1.15
UC-16	2" x1⅞"x ⅞"	1	600	.90
UC-26	3¼"x1⅞"x ⅞"	2	600	1.35
UC-18	3¾"x1⅞"x1"	1	800	1.25
UC-28	4⅛"x1⅞"x1⅜"	2	800	2.00
UC-11	4⅛"x1⅞"x ⅞"	1	1000	1.50
UC-21	4¼"x2" x1½"	2	1000	2.50

FREE!





With the aid of these two straps furnished free upon request Sprague Standard Condensers can be used as standard replacements for odd combinations as are used in A.C.-D.C. sets and where special spacings for mounting is necessary.

Type A strap clamps on any Sprague Cardboard Condenser and permits a variable range of mounting hole spacings.

Type B clamps several Sprague Cardboard Condensers together so as to make one complete compact unit. "Another Sprague Service."

MOTOR STARTING CONDENSERS

For Electric Refrigerators

EXACT DUPLICATE REPLACEMENT TYPES

In addition to types listed below, you can get any capacity and voltage rating in types shown in the photo to the left. When ordering condensers other than those shown below, be sure and specify the name of either the Motor Manufacturer, Refrigerator Manufacturer and also capacity voltage and size of condenser. The special part number that appears on the condenser will be of considerable assistance to us in insuring your getting the correct replacement.

Condensers listed below are of the universal type and will take care of 95% of your requirements on replacements for motor starting condensers.

Working Voltage 110 Volts

Sprague Part No.	Capacity	Dimensions	List Price
A2134	80 Mfd.	2" diam. x 4⅛" high	$4.00
A2096	80 Mfd.	2⅛" diam. x 4⅛" high	4.00
A2093	80 Mfd.	2⅛" x 3⅝" x 4⅛"	4.00
A2135	100 Mfd.	2" diam. x 4⅛" high	4.50
A2097	100 Mfd.	2½" diam. x 4⅛" high	4.50
A2094	100 Mfd.	2⅛" x 3⅝" x 4⅛"	4.50
A2136	115 Mfd.	2" diam. x 4⅛" high	5.00
A2098	115 Mfd.	2½" diam. x 4⅛" high	5.00
A2095	115 Mfd.	2⅛" x 3⅝" x 4⅛"	5.00

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CS—Single Section Type

Capacity	Wkg. V.	Max. Surge	Size C B A	Catalog Number	List Price
4	250	300	1 1/2 x 3 1/4 x 2 7/16	CS121	$0.65
8	250	300	3 1/4 x 7 1/8 x 2 7/16	CS123	.80
10	250	300	3 1/4 x 1 x 2 7/16	CS124	.95
12	250	300	3 1/4 x 1 x 2 7/16	CS125	1.00
16	250	300	11/16 x 1 3/16 x 2 7/16	CS126	1.10
2	450	525	1 1/2 x 3 1/4 x 2 7/16	CS130	.65
4	450	525	3 1/4 x 7 1/8 x 2 7/16	CS131	.75
6	450	525	3 1/4 x 1 x 2 7/16	CS132	.90
8	450	525	3 1/4 x 1 x 2 7/16	CS133	.95
10	450	525	11/16 x 1 3/16 x 2 7/16	CS134	1.15
12	450	525	11/16 x 1 3/16 x 2 7/16	CS135	1.30
16	450	525	1 x 1 3/16 x 2 7/16	CS136	1.45

CN—Multiple Section Common Cathode Type (Common Negative)

Capacity	Wkg. V.	Max. Surge	Size C B A	Catalog Number	List Price
4-4	250	300	3 1/4 x 1 x 2 5/16	CN140	$0.90
4-8	250	300	3 1/4 x 1 x 2 5/16	CN141	1.15
8-8	250	300	3 1/4 x 1 1/16 x 2 5/16	CN142	1.30
8-8-8	250	300	7/8 x 1 3/16 x 3	CN145	1.95
4-4	450	525	3 1/4 x 1 3/16 x 2 5/16	CN150	1.20
4-8	450	525	7/8 x 1 1/4 x 2 5/16	CN151	1.35
8-8	450	525	7/8 x 1 1/4 x 2 5/16	CN152	1.50
8 8-8	450	525	1 1/16 x 1 1/4 x 3	CN155	2.20

CM—Multiple Separate Section Type

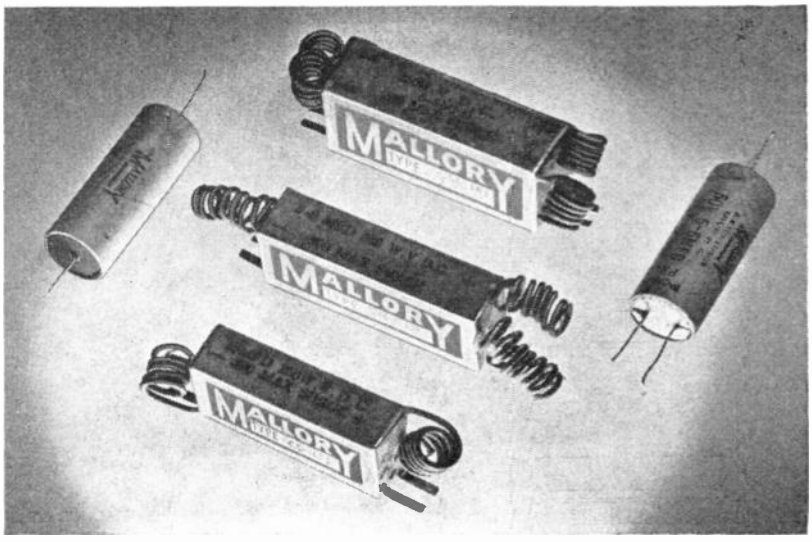
Capacity	Wkg. V.	Max. Surge	Size C B A	Catalog Number	List Price
4-4	250	300	3/4 x 1 3/16 x 2 5/16	CM160	$0.90
4-8	250	300	1 1/4 x 1 1/16 x 2 5/16	CM161	1.15
8-8	250	300	1 1/16 x 1 1/4 x 2 5/16	CM162	1.30
8-8-8	250	300	1 3/16 x 1 x 3	CM163	1.95
16-16	250	300	1 3/16 x 1 x 2 5/16	CM164	1.80
4-4	450	525	3/4 x 1 3/16 x 2 5/16	CM170	1.20
4-4-4	450	525	1 1/16 x 1 1/4 x 3	CM173	1.80
4-8	450	525	7/8 x 1 1/4 x 2 5/16	CM171	1.35
8-8	450	525	1 1/4 x 1 x 2 5/16	CM172	1.50
8-8 8	450	525	1 1/16 x 1 1/4 x 3	CM175	2.20

TS—Single Section Type

Capacity	Wkg. V.	Max. Surge	Size A B	Catalog Number	List Price
10	25	40	1 3/4 x 3/4	TS101	$0.50
20	25	40	2 1/4 x 7/8	TS102	.60
25	25	40	2 1/4 x 7/8	TS103	.65
50	25	40	2 1/4 x 1	TS104	.95
5	50	75	1 3/4 x 3/4	TS105	.50
10	50	75	2 1/4 x 7/8	TS106	.65
25	50	75	2 1/4 x 1	TS107	.80
50	50	75	3 1/16 x 1 1/8	TS108	1.20

TN—Dual Section Common Cathode Type (Common Negative)

Capacity	Wkg. V.	Max. Surge	Size A B	Catalog Number	List Price
5 5	25	40	1 3/4 x 3/4	TN110	$.75
10-10	25	40	2 1/4 x 7/8	TN111	.75
5-5	35	50	1 3/8 x 7/8	TN112	.75
5-5	50	75	2 1/4 x 3/8	TN113	.75



Dry Electrolytic Filter Units

CARDBOARD CARTON TYPES CS, CN and CM

● These units are of extremely small size making them ideal for replacement as well as initial design purposes. The use of etched plate construction has made possible better electrical characteristics and longer life in sizes that were deemed impractical 18 months ago.

Exclusive metal mounting flanges are provided on all units except the smallest size which is intended for mounting by means of its own leads. An internal metal seal effectively protects these units against changes in their characteristics due to varying humidity. Due consideration has been given to the high temperatures often encountered in Midget and Auto receivers. All 450-volt units have cellophane separators, assuring continued performance even when high surge voltages are encountered.

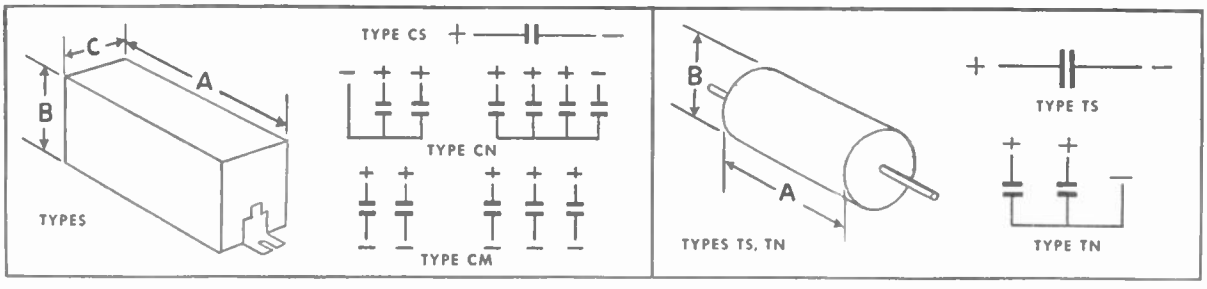
All units are supplied with 8" stranded pushback wire leads. All positive leads are at one end and negative leads are at the opposite end of the carton. The Mallory "Terminal Connector" designed to solder easily to the chassis is available for use where original condensers had lugs instead of leads. See page 31. Type CS represents single units, Type CN common cathode units and Type CM multiple section units not internally connected. **Always use Type CM when a common positive unit is desired.**

Dry Electrolytic Bypass Units

CARDBOARD TUBULAR TYPES TS and TN

● These units are designed especially for bypassing the cathode bias resistors in Audio Frequency and other low voltage circuits where dry electrolytic condensers are applicable.

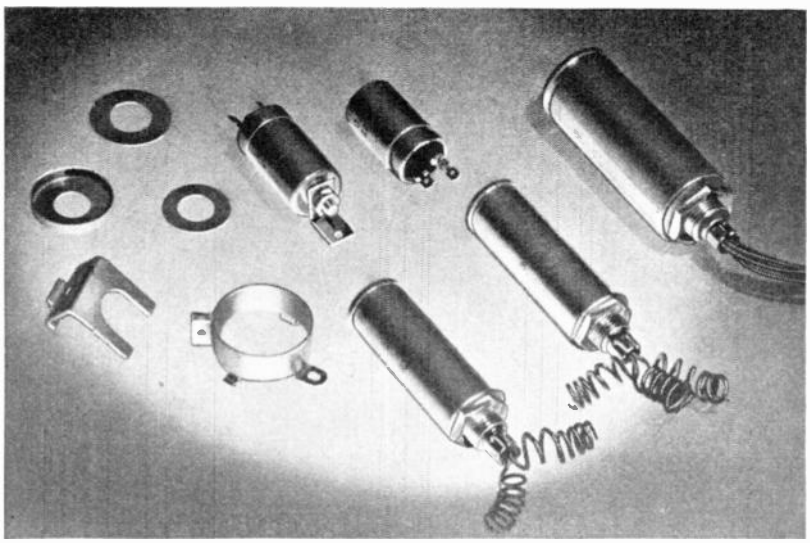
Type TS represents the single unit type and type TN the dual common cathode type. They are made as small as good engineering will permit. Three-inch bare tinned copper leads provide for electrical connection as well as a mounting support.



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Replacement Condensers

P. R. MALLORY & CO. Inc.
MALLORY



MALLORY (SPECIAL) UNIVERSAL REPLACEMENT CONDENSERS

Types "UR"—"SR"—"HD" and "HS"

Use Mallory Universal Replacement Condensers for receivers not listed. See Mallory-Yaxley Radio Service Encyclopedia.

Make of Set	Model Number	Correct Replacement	List Price
Aetna	252	UR189	$2.50
Air King	4T "Comet," 86	UR189	2.50
Allied Radio Corp.	F9515, F9525, F9527 G9553, G9557	UR189	2.50
Atwater Kent	135Z, 215Z, 237Q, 305Z, 467Q, 565Z, 666, 776 217D, 275, 427D, 469D, 558D, 825 AC-DC, 667D 816	UR182	1.95
		SR605	1.55
		UR190	2.60
		SR611	1.85
Autocrat	5SA (55SA)	UR182	1.95
Automatic	JR	UR189	2.50
Barker Bros.	L	HD681	1.45
Belmont Radio Corp.	53, 425, 440, 525, 530, 540, 541, 625, 650 430	UR182	1.95
		UR189	2.50
Capehart	400A, 400B, (400B, 402B, 404B, Tuner), (400B, 402B, 404B, All-wave), Standard Amp.	SR608	1.10
Colonial	657	UR190	2.60
Commonwealth	150	UR182	1.95
Crosley	2C1 (Sampler), 182 5A3 (Roamio) 95 (Roamio), 96 (Roamio), 98, 99, 102, 129-1,130, 130-1, 132-1, 134, 136-1, 146-1, 148, 154, 157, 158, 160, 163, 167, 169, 176	UR190	2.60
		SR605	1.55
		UR180	1.30
Detrola	4C, 4F, 4W, 4Y, 5L, 5Y, 1000	UR182	1.95
	6X	UR189	2.50
Dewald	55R, 55X 506R, 505R 609, 611, 611LW, 612, 612LW, 615, 615LW	UR190	2.60
		UR189	2.50
		UR182	1.95
Echophone	128, 7114	UR182	1.95
E & A	IL55LW	UR182	1.95
Electronic	331, 332, 32V	UR190	2.60
Elec. Spec. Export Corp.	R502, 69	UR190	2.60
Emerson	H5, H5L, 3LW, 30, 30AW, 30LW, 33AW, 33LW, 40, 107 (U6A), 111 (U6A), 250, 250AW, 250LW, 300, 321AW, 330AW, 350AW, 321LW, 350LW, 375, 375LW, 456	UR182	1.95
	38 (U6), 38 (U6D) 32U5S	UR190	2.60
		UR189	2.50
	105 (All)	UR191	2.95
Empire	40	UR190	2.60
Erla	570X, 599	UR182	1.95
Fairbanks-Morse	61, 62 (6210, 6244), 65 (6517, 6546)	UR182	1.95
Federated Purchaser	8A, 26A, 1000	UR182	1.95
Franklin	55U, 65VL, 65VU	UR190	2.60
Galvin Mfg. Co.	Dual 6, Twin "8"	SR611	1.85
	44	SR601	1.55
	60	SR605	1.55
	77	SR608	1.10
Gamble Skogmo.	27C1, 27C5	UR190	2.60
	540	UR182	1.95
Garod	33, 33LW, 58, 83, 83LW	UR182	1.95
General Electric	J100, K43, L52, L52A, M41, M42, M49	UR189	2.50
	L53	UR190	2.60
General Television	"A," "B," "C," "E," "SW"	UR182	1.95
Goodyear	570	UR182	1.95
Grunow	5B (501, 520, 530, 550), 513	UR182	1.95
	6D (670, 671), 6F (690, 691)	SR614	2.90
	15W (1541)	HD680	1.20
Gulbransen	05A	UR182	1.95
Halson	NS40, NS50, NS60, 66AW, 54, 535, 620, 630	UR190	2.60
	45	UR189	2.50
Hetro	6 Tube AC-DC, 71, 295, 297, 412, 466	UR182	1.95
Howard	B13	UR182	1.95
	W (Power Amplifier)	HS692	2.45
	W (Power Amplifier)	UR191	2.95
Imperial Furn.	14	UR189	2.50
Insuline Corp.	"Envoyette" ICA-ette	UR182	1.95
International Radio	A, B Kadette, Chassis D, DSP (DA8, DA9, DA10, D11, D12, D14), DAS (A8, A9, A10, AD11, AD12), ES (ES19, ES20, ES25), 60, 65, 66, 66X, 76, 77 (777, 778, 779), 85, 86, 87 Series, 96, 666, 676	UR182	1.95
	"F" Kadette Jr., 40 Jewel, 90	UR183	1.35
	61, 661	UR190	2.60
Colin B. Kennedy	5T AC-DC	UR182	1.95
Lafayette Radio & Television Co.	AM8, AM10, A11, A14, A15, A19, AM25	UR182	1.95
Lang Radio Co.	UG5B, UG5H, 40UL, 50US, 50UP, 60UP, 502UA, 502US, 503US	UR189	2.50
	503UT, 523UT, 703US	UR190	2.60
Lewol Mfg. Co.	LW4, LW4DW, 60MS, 64	UR182	1.95
Majestic	F50, 1250	UR191	2.95
Midwest Radio	Miraco 16 Tube ('32), 16-33 Miraco 16 Tube ('32)	HD681	1.45
		HD683	1.75
	35-5-SW AC-DC Super	UR182	1.95

Dry Electrolytic Filter Units

ROUND ALUMINUM CAN TYPES RS, RN and RM

● Modern in construction these units are of reduced size and inaugurate many new features. They are for use whenever round can units are desired. All units are supplied with 8" stranded pushback wire leads of a practical gauge and are plainly color coded on the unit. For replacement where the original employed lugs instead of leads, the Mallory "Terminal Connector" described on page 34 will be found invaluable.

These units also incorporate etched plate construction and stitched anode leads. All 450-volt units have cellophane separators, guarding them against surge voltage failures. Special hardware of exclusive design enables these units to be mounted in any of the five original types of mountings with a minimum of effort. See the Mallory-Yaxley Radio Service Encyclopedia for complete instructions and service applications.

Type RS represents the single section type, RN the common cathode type and RM the multiple separate section type where the units are not internally connected. **Always use Type RM when a common positive unit is desired by connecting the positive leads together.**

RS—Single Section Type

Capacity	Wkg. V.	Max. Surge	Size A	Size B	Catalog Number	List Price*
4	250	300	2¼	x 1	RS201	$0.75
8	250	300	2¼	x 1	RS203	.95
12	250	300	2¾	x 1	RS205	1.10
4	450	525	2¾	x 1	RS211	.85
8	450	525	2¾	x 1	RS213	1.05
12	450	525	2¾	x 1	RS215	1.40
16	450	525	3½	x 1	RS216	1.55

RN—Multiple Section Common Cathode Type (Common Negative)

Capacity	Wkg. V.	Max. Surge	Size A	Size B	Catalog Number	List Price*
4-8	250	300	3	x 1	RN231	$1.30
8-8	250	300	3	x 1	RN232	1.45
8-8-8	250	300	3	x 1⅝	RN235	2.10
4-8	450	525	3	x 1	RN241	1.45
8-8	450	525	3	x 1⅝	RN242	1.60
8-8-8	450	525	3½	x 1⅝	RN245	2.30

RM—Multiple Separate Section Type

Capacity	Wkg. V.	Max. Surge	Size A	Size B	Catalog Number	List Price*
4-8	250	300	3	x 1⅝	RM251	$1.30
8-8	250	300	3	x 1⅝	RM252	1.45
8-8-8	250	300	3½	x 1⅝	RM255	2.10
8-8-16	250	300	3½	x 1⅝	RM257	2.35
8-16-16	250	300	3½	x 1⅝	RM259	2.60
4-8	450	525	3	x 1⅝	RM261	1.45
8-8	450	525	3	x 1⅝	RM262	1.60
8-8-8	450	525	4	x 1⅝	RM265	2.30

*Prices include palnut and flat washer.
Prices on other mounting washers and mounting brackets listed below.

Accessories for Round Can Units

Description	Size	Cat. No.	List Price
Washer for clamp mounting on 1" cans	....	A-017	$0.05
Washer for ⅞" hole mounting on 1" can	s...	015-1	.03
Washer for spade bolt mounting both 1" and 1⅛" cans		015-2	.03
Ring clamp for round can condenser	1"	105-1	.07
Ring clamp for round can condenser	1⅛"	106-1	.07
Ring clamp for round can condenser	1½"	107-1	.07
Ring clamp for round can condenser	2½"	108-1	.15
Ring clamp for round can condenser	3"	109-1	.15
Mounting bracket		104-1	.10

Dry Electrolytic Bypass Units

ROUND ALUMINUM CAN TYPE BN

● Type BN units are made in two different mounting arrangements and while only one capacity and voltage rating is listed, they may be secured in various ratings on request.

Type BN225 is in a plain can. Type BN226 is in a can with ¼" 20-thread stud and is furnished with a small bracket for horizontal mounting.

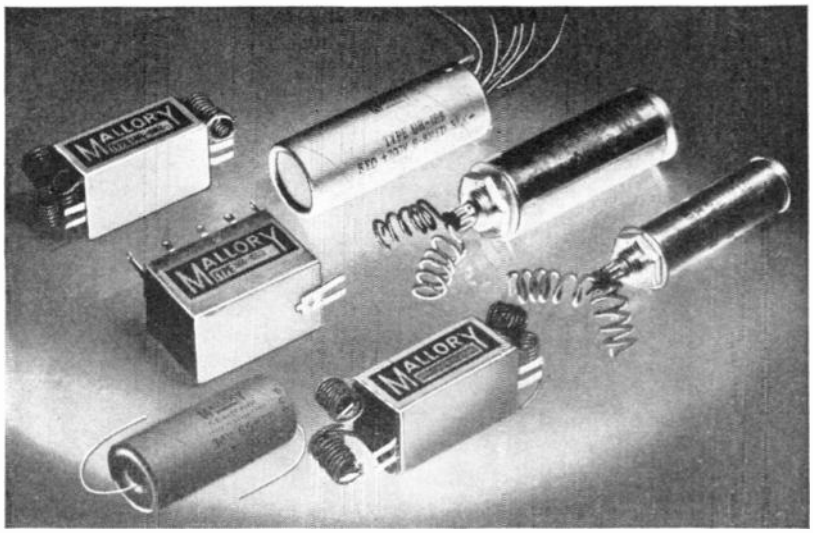
BN—Dual Section Common Cathode Type (Common Negative)

Capacity	Wkg. V.	Max. Surge	Size A	Size B	Catalog Number	List Price
10-10	50	75	1¾	x 1	BN225	$0.95
10-10	50	75	1¾	x 1	BN226	1.00

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Mallory Special Universal Replacement Condensers—*continued*

Make of Set	Model Number	Correct Replacement	List Price
Montgomery-Ward	62-51, 62-64, 62-64X, 62-69, 62-79, 62-84, 62-84X, 62-94, 62-94X	HD682	$1.50
	62-95, 62-98, 62-104	UR180	1.30
	62-118	UR182	1.95
Operadio Mfg. Co.	478R, 478AH, 2478A	SR601	1.55
Pacific Radio	37-61, 37-6322	SR608	1.10
Philco	14 (Code 121 and 122), Runs 1-4), 14 (Codes 121 and 122) (Runs 5 and after), 14-123), 16 (Codes 125, 126, 127), 18, 18 (Codes 121 and 122), 18 (Code 124), 37-38, 37-660, 37-670, 97, 98, 116B (Code 121), 116X (Code 122), 118, 118 (Code 123RX), 200X, 201 (Code 121), 503, 507, 509X, 640 (Code 121), 640X (Code 122), 645, 650, 655, 660, 665, 665 (Code 122), 680 16, 16 (Codes 121, 122, 127), 16 (Codes 125, 126, 127), 17 (Early), 17 (Code 121), (Early), 17, 17A (Codes 122 and 123) (Early), 116X (Code 122), 200X, 201 (Code 121), 500, 501, 509X	UR181	2.10
Pierce-Arrow	506R, 515, 518	HD683	1.75
	525, 609, 611, 611LW, 612, 612LW, 615, 615LW, 619, 621, 621LW, 622, 1100	UR189	2.50
	618	UR182	1.95
Pilot	D3, 93 (AC-DC)	UR190	2.60
R. C. A.	123	UR189	2.50
	T4-8, T4-9, 100, 101, 103, 112, 112A (DC-220V), 301, 23590-2	UR182	1.95
	R95 Electrola, 114	UR189	2.50
Radiolek	951, 10951, K16700, K16701	UR190	2.60
Republic Indust.	10967, K16728	UR182	1.95
	Sky Hawk Patrician, SL6 "Skyhawk," SL6D "Sky-hawk," BP5E	UR189	2.50
RK Radio Labs.	421, 422, 423, 424, 521, 522	UR182	1.95
Sears-Roebuck	1728A, 7106, 7111X, 7112, 7114, 7057, 7058	UR182	1.95
	7110, 7126, 7130, 7132 AC-DC Midget	UR189	2.50
Sentinel Radio Corp.	570, 590, 599, 4100B, 4303, 4800, 5200	UR182	1.95
Simplex Radio Co.	T	SR601	1.55
	U AC-DC (Late)	UR182	1.95
Sparton	9X, 13, 14, 14A, 15X, 16, 16AW, 17, 18, 27, 27A, 28, 111X, 134, 136, 475A, 478A, 620X, 750A, 750X, 870A, 870X	HD680	1.20
	53 AC-DC, 57 AC-DC, 61, 62, 65, 66, 65T, 66T, 506, 594, 655	UR182	1.95
Stewart-Warner	R111, R115	UR182	1.95
Transformer Corp. of America (TCA) "Clarion"	TC30, 450	UR190	2.60
	TC60, AC420, 440	UR182	1.95
Trav-Ler Radio & Television Corp.	60A	UR182	1.95
Trey Radio Mfg.	151-5	UR189	2.50
United Amer. Bosch	04	UR189	2.50
	05	UR192	1.65
	242, 243 (AC), 250, 251, 260, 261	UR191	2.95
	402, 500, 501, 502 (AC-DC)	UR182	1.95
United Met. Serv. "Delco"	A5A3 (Auburn)	SR-605	1.55
	4048, 4052 (AC-DC)	UR182	1.95
	601177 (Chev), 982006 (Olds)	SR611	1.85
U. S. Radio & Tele.	3092 (Chassis 513)	UR182	1.95
Utah Products Co.	400A Series, 400B	SR608	1.10
Wells Gardner & Co.	022, 322	HD682	1.50
	05A, 05AA, 05BA, 5B	UR182	1.95
	6K	SR601	1.55
Westinghouse Wholesale Radio Service	WR21, WR101	UR182	1.95
	L1 (AC)	HD682	1.50
	L20 (05A Series)	UR182	1.95
Wilcox Gay	3JD8, 3JG8, 3KE8, 3P6, 3PA6-66, 3T6-66, 3TB8	UR182	1.95
Rudolph Wurlitzer	P5	UR189	2.50
	5U8, U50, U500	UR182	1.95
Zenith	6D116, 6D117, 6D118 (5633), 701, 702, 710, 801	UR182	1.95
	7	SR605	1.55
	7M91S, 7M91D (Chassis 5706)	SR611	1.85
	Stratosphere 1000Z (Chassis 2501C, 2501P)	HS691	1.85



Dry Electrolytic Units

HEAVY DUTY AND HIGH SURGE TYPES HD AND HS

HD—Single Section Type

Cap.	D.C. Wkg. V.	Container	Size	Cat. No.	List Price
4	500	Carton	$\frac{5}{8}$ x 1 x $2\frac{1}{16}$	HD680	$1.20
4	500	Rd. Cn.	1 x $2\frac{3}{4}$	HD681	1.45
8	500	Carton	$1\frac{1}{16}$ x $1\frac{5}{8}$ x $2\frac{1}{16}$	HD682	1.50
8	500	Rd. Cn.	1 x $3\frac{1}{16}$	HD683	1.75

HS—Single Section Type

Cap.	D.C. Wkg V.	Container	Size	Cat. No.	List Price
4	600	Carton	$\frac{7}{8}$ x $1\frac{1}{4}$ x 3	HS690	$1.75
4	600	Rd. Cn.	$1\frac{9}{16}$ x $3\frac{1}{2}$	HS691	1.85
8	600	Carton	$1\frac{1}{4}$ x $1\frac{1}{2}$ x 3	HS692	2.45
8	600	Rd. Cn	$1\frac{1}{4}$ x $4\frac{1}{4}$	HS693	2.60

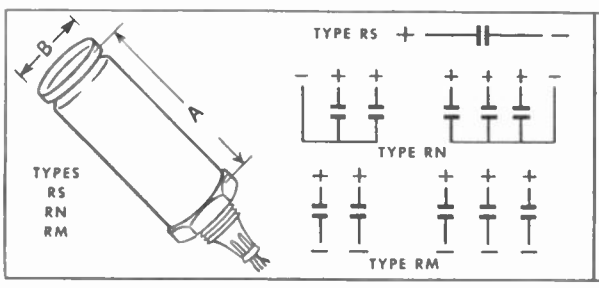
UNIVERSAL AND SPECIAL TYPES UR AND SR

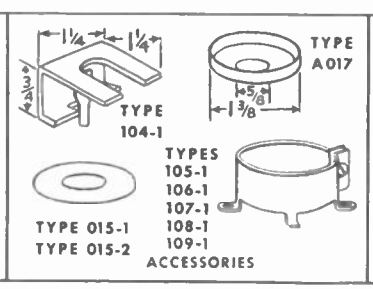
UR Special Universal Units

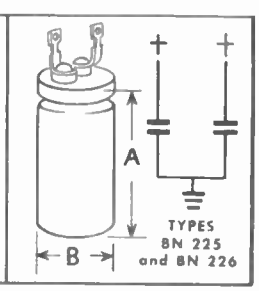
Capacity	Wkg. V.	Container	Size	Catalog Number	List Price
8-8	250-300	Carton	$1\frac{1}{16}$ x $1\frac{1}{16}$ x $2\frac{1}{4}$	UR180	$1.30
3-2.1-1	450	Round Can	$1\frac{5}{16}$ x $2\frac{3}{4}$	UR181	2.10
5-25-10	150	Carton	$1\frac{1}{16}$ x $1\frac{5}{16}$ x $2\frac{3}{16}$	UR182	1.95
4-4-4	150	Carton	$\frac{5}{8}$ x $1\frac{1}{4}$ x $2\frac{1}{4}$	UR183	1.35
8-8-8, 5-5	200, 25	Cardboard Tube	$1\frac{5}{16}$ x $3\frac{3}{8}$	UR188	2.50
8-8-8, 5-5	200, 25	Carton	$1\frac{1}{16}$ x $1\frac{1}{2}$ x 3	UR189	2.50
8-8-8-8	250	Carton	$1\frac{1}{16}$ x $1\frac{1}{2}$ x 3	UR190	2.60
8-8-8-8	450	Carton	$1\frac{1}{16}$ x $1\frac{3}{4}$ x 3	UR191	2.95
20-20	150	Carton	$1\frac{3}{16}$ x $1\frac{3}{8}$ x $2\frac{3}{16}$	UR192	1.65

SR Special Universal Units

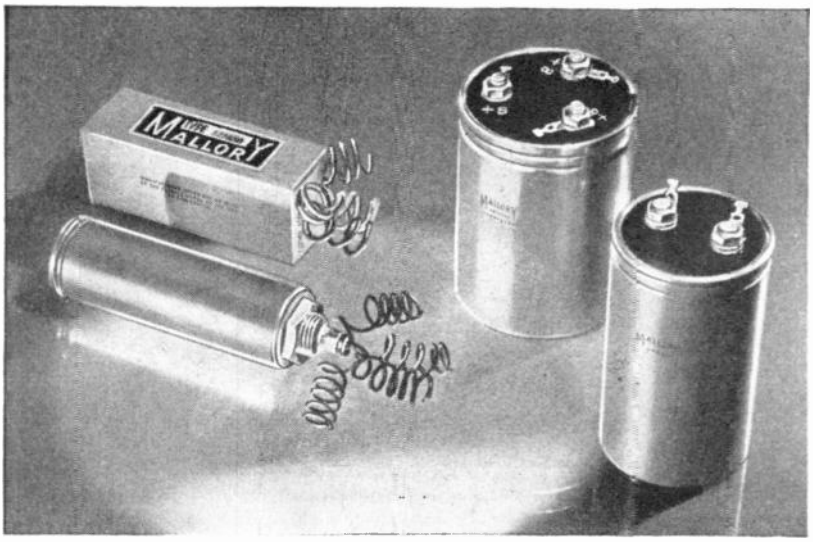
Capacity	Wkg. V.	Container	Size	Catalog Number	List Price
8-12	300	Carton	$1\frac{1}{16}$ x $1\frac{7}{8}$ x $2\frac{3}{16}$	SR601	$1.55
6-4-6	300-300-25	Round Can	$1\frac{5}{16}$ x $2\frac{3}{16}$	SR602	1.70
8-30	300-30	Cardboard Tube	$1\frac{1}{16}$ x $4\frac{5}{16}$	SR603	1.35
3-3-6	300-300-12	Carton	$1\frac{1}{16}$ x $1\frac{3}{16}$ x 2	SR604	1.50
8-8	350	Round Can	$1\frac{5}{16}$ x $3\frac{1}{16}$	SR605	1.55
6-6	350	Carton	$1\frac{1}{16}$ x $1\frac{5}{16}$ x $2\frac{3}{16}$	SR606	1.35
6-4-6	300-300-12	Carton	$1\frac{1}{16}$ x $1\frac{5}{16}$ x $2\frac{3}{16}$	SR607	1.55
65	30	Cardboard Tube	$1\frac{1}{16}$ x $2\frac{1}{4}$	SR608	1.10
8-8-25	400-400-25	Round Can	$1\frac{5}{16}$ x $2\frac{3}{4}$	SR609	2.10
8-8-25	400-400-25	Carton	$1\frac{1}{16}$ x $1\frac{5}{16}$ x $2\frac{3}{16}$	SR610	1.90
8-8-25	350-300-25	Carton	2 x 2 x $2\frac{1}{2}$	SR611	1.85
8-8, 16-16	350, 100	Round Can	$1\frac{5}{16}$ x $4\frac{3}{4}$	SR612	2.90
16-30-16	200	Carton	$1\frac{1}{16}$ x $1\frac{15}{16}$ x 4	SR613	2.75
4, 8-8, 12-12	450, 250, 25	Carton	$1\frac{1}{16}$ x $2\frac{1}{4}$ x $2\frac{13}{16}$	SR614	2.90







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Large Round Can Units

DRY ELECTROLYTIC TYPE MN

● Type MN units are designed primarily for replacement use covering old style multiple section wet electrolytics. For this reason, the original size has been maintained in order that they will properly fit the mounting peculiar to this type.

Actually, the power factor or filtering efficiency of these old style units cannot compare with modern dry electrolytic condensers and therefore much less total capacity is required than originally specified. For this reason, only five ratings are listed. These will satisfactorily replace all the former ratings with equal or even better results. Instructions are given in the Mallory-Yaxley Radio Service Encyclopedia.

High Capacity Low Voltage Units

DRY ELECTROLYTIC TYPE HC

● Type HC units are for use in speaker field supply circuits, talking movie equipment, "A" Eliminators and similar equipment. They are carefully designed so as to guarantee unexcelled performance.

Since the field is relatively small a stock is not maintained, but arrangements have been made to give four-day service.

HC units are available in capacities from 500 to 5000 mfd. at working voltages from 6 to 50 volts D.C.

All units are in round metal containers. Rectangular type containers may be had on special order.

Old Style Units

DRY ELECTROLYTIC, ORIGINAL LARGE SIZE

● It is inevitable that the modern small size units described in this catalog will quickly render obsolete the old style large type units as they are superior to them and offer practical advantages heretofore unknown.

It is a Mallory policy, however, to provide as complete a service as possible. Should there still be a demand for old style units, we list such types as have been popular in the past.

Large Round Can Units
Dry Electrolytic Type MN

MN—Multiple Section Common Cathode Type
(Common Negative)
(All Cathodes to Can)

Capacity	Wkg. V.	Max. Surge	Size A	Size B	Catalog Number	List Price
8-8	450	525	$4\frac{1}{8}$	$2\frac{1}{2}$	MN272	$1.80
8-15	450	525	$4\frac{1}{8}$	$2\frac{1}{2}$	MN273	2.30
8-8-8	450	525	$4\frac{1}{8}$	3	MN275	2.70
8-8-8-8	450	525	$4\frac{1}{8}$	3	MN277	3.60
8-8-18-18	450	525	$4\frac{1}{8}$	3	MN278	5.25

Dry Electrolytic Old Style Units
Original Large Size

Single Section in Carton with Leads

Capacity	Wkg. V.	Max. Surge	Size B	Size C	Size A	Catalog Number	List Price
4	450	525	$1\frac{1}{16}$	$1\frac{3}{16}$	$4\frac{1}{8}$	14450	$0.75
8	450	525	$1\frac{1}{16}$	$1\frac{3}{8}$	$4\frac{1}{8}$	18450	.95

Dual Section in Carton with Four Leads

Capacity	Wkg. V.	Max. Surge	Size B	Size C	Size A	Catalog Number	List Price
4-8	450	525	$1\frac{1}{4}$	$1\frac{1}{2}$	$4\frac{3}{8}$	148450	$1.35
8-8	450	525	2	$1\frac{1}{2}$	$4\frac{3}{8}$	188450	1.50

Single Section in Round Can with One Lug and Negative Terminal Grounded to Can

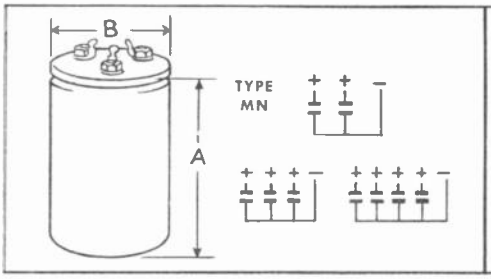
Capacity	Wkg. V.	Max. Surge	Size B	Size A	Catalog Number	List Price
8	450	525	$1\frac{3}{8}$	$3\frac{3}{4}$	TM2-8	$1.05

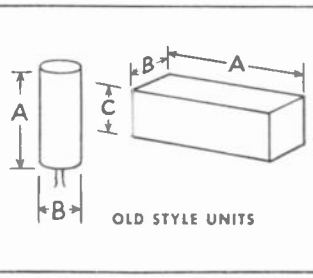
Single Section in Round Can with Two Leads Insulated from Can

Capacity	Wkg. V.	Max. Surge	Size B	Size A	Catalog Number	List Price
8	450	525	$1\frac{3}{8}$	$4\frac{1}{16}$	M2-753	$1.05

Dual Section in Round Can with Four Leads Insulated from Can

Capacity	Wkg. V.	Max. Surge	Size B	Size A	Catalog Number	List Price
8-8	450	525	$1\frac{1}{2}$	$4\frac{1}{16}$	M2-585	$1.60







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Radio Service Encyclopedia

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VB, VL and VO Vibrator Types

Capacity	Wkg. V.	Size A B C	Type Construction as per Fig.	Catalog Number	List Price
.0075	1600	7/8 x 5/16 x .3	1	VB470	$0.45
.01	1600	7/8 x 5/16 x .3	1	VB471	.45
.0125	1600	5/8 x 1 x .3	1	VB472	.60
.015	1600	7/8 x 1 1/16 x .3	2	VB473	.60
.02	1600	7/8 x 1 1/16 x .3	1	VB474	.65
.03	1600	1 x 1 5/16 x 1 5/32	2	VB475	.70
.04	1600	1 x 1 5/16 x 1/16	1	VB476	.75
.05	1600	1 x 1 x 1 5/32	3	VB477	.95
.01	2000	3 3/16 x 3/8 x 1 5/32	4	VL478	.95
.5	200	3 1/16 x 3/8 x 1 7/32	4	VL479	.65
.5	120	2 1/8 x 1/16 x 3/4	5	VO480	.45

OT Oil Filled Tubular Type

Capacity	Wkg. V.	Size A B	Catalog Number	List Price
.0025	2000	1 3/4 x 5/16	OT458	$0.55
.005	2000	1 3/4 x 5/16	OT459	.55
.0075	2000	1 13/16 x 5/16	OT460	.55
.01	2000	1 13/16 x 5/16	OT461	.55
.0125	2000	2 1/8 x 5/16	OT462	.55
.015	2000	2 1/8 x 5/16	OT463	.60
.02	2000	2 1/4 x 5/16	OT464	.60
.03	2000	2 1/4 x 3/4	OT465	.65
.04	2000	2 3/16 x 3/4	OT466	.70
.05	2000	2 3/16 x 3/4	OT467	.75

Auto Generator Suppressor Units

Capacity	Wkg. V.	Size A B	Catalog Number	List Price
.5	200	2 1/16 x 3/4	AG451	$0.50
1.0	200	2 1/16 x 1 1/4	AG452	.75
.5	200	2 1/16 x 3/4	AM454	.45

Special Chokes and Condensers for R. F. Interference Suppression

● This special line of Mallory RF Chokes and RF Condensers has been designed purposely for auto radio service to suppress radio frequency interference, or "hash" as it is commonly referred to.

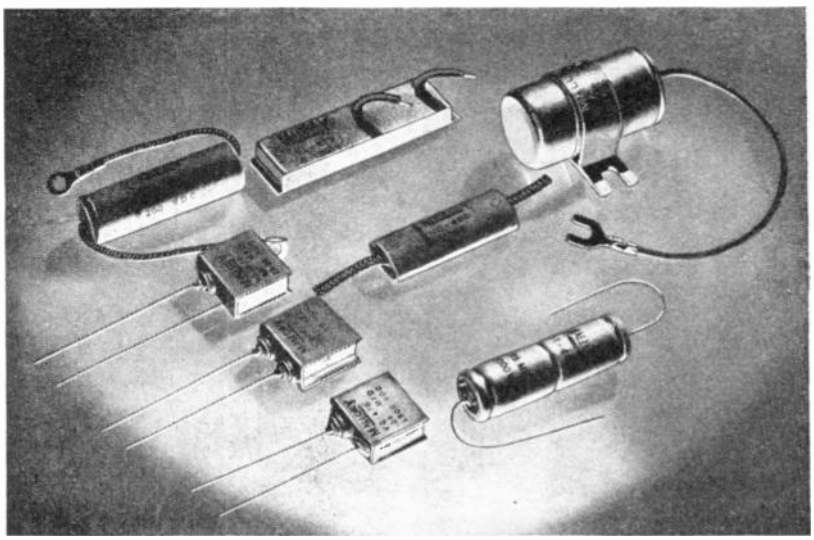
By proper application of these condensers and chokes, this form of interference can be materially reduced. Complete particulars and detailed instructions for their use will be found in the Mallory-Yaxley Radio Service Encyclopedia.

Special Chokes

No. Turns	Size Wire	Choke Size	Catalog Number	List Price
Approx. 55	No. 12	1 5/16 x 1 5/16	RF583	$0.75
Approx. 55	No. 16	1 x 1 5/16	RF582	.50
Approx. 90	No. 16	1 x 1 1/2	RF581	.65

Special RF Bypass Tubular Condensers

Capacity	Wkg. V.	Size	Catalog Number	List Price
0.5	50	3/4 x 1 3/16	RF481	$0.60
1.0	50	15/16 x 1 3/16	RF482	.75



Auto Vibrator Condensers

PAPER DIELECTRIC TYPES VB, VL and VO— OIL IMPREGNATED and OIL FILLED

● The vibrator field constitutes the most severe service for which paper condensers are specified. These condensers must operate under extreme temperature conditions, excessive vibration and unusually high and continuous peak voltages.

Those who are familiar with this field fully realize the false economy of using anything but the finest condensers obtainable.

With the exception of Types VL479 and VO480, low voltage units, all Mallory vibrator condensers are not only oil impregnated but are also oil filled.

The experience gained through the manufacture and sale of millions of Mallory Vibrators has proved conclusively that **no other type of condenser will give satisfactory service in this field.**

Oil Filled Tubular Units

PAPER DIELECTRIC TYPE OT

● Designed for severe service these condensers represent the finest tubular condensers available at any price. They may be used in connection with many types of vibrators and also are ideal for those transmitting circuits requiring the listed capacities at high voltages.

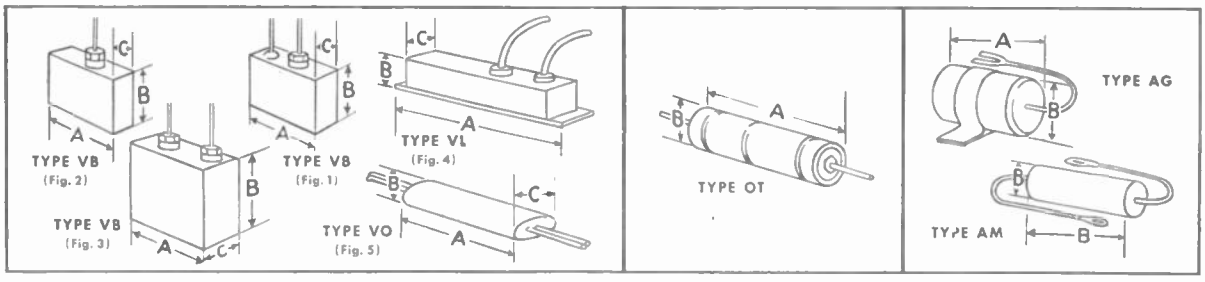
Non-inductive, oil impregnated and oil filled, extremely low RF impedance and power factor, carefully and effectively sealed, they will readily prove their value in all "tough" circuits.

Auto Generator Suppressor Units

PAPER DIELECTRIC TYPES AG and AM

● Type AG Auto Generator Suppressor condensers are for use at the generator terminals and other locations where this type of unit may be conveniently mounted. They are designed for the high temperatures and the unusual vibration encountered in this field and will prove satisfactory in all cases.

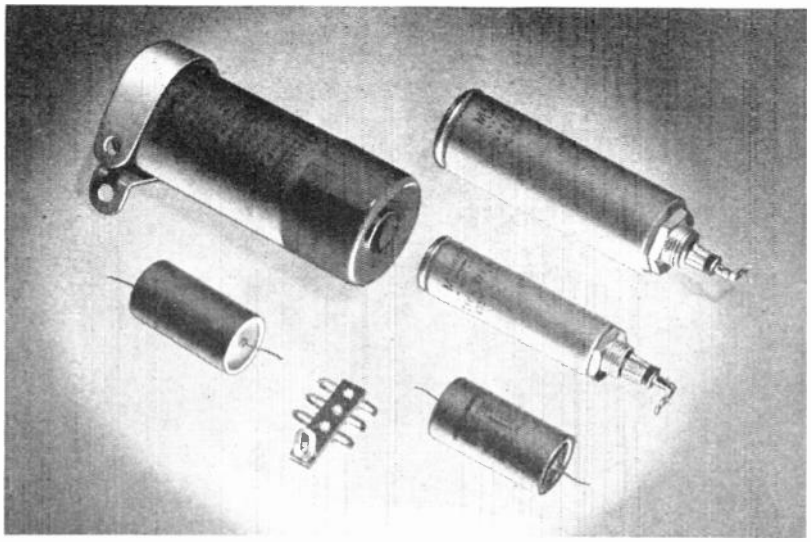
Type AM is similar to Type AG except that it has two flexible leads and no mounting flange permitting its installation at the ammeter and other points where this construction proves more advantageous.



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Replacement Condensers

P. R. MALLORY & CO. Inc.
MALLORY



Wet Electrolytic Units—TYPE WE

● Mallory Wet Electrolytic units include all late features and are of the regulating type. The interior of the container is treated to prevent its formation when an AC component is present.

Supplied with lug positive and container negative in the sizes shown.

The special "A" washer A-017 described on page 30 is required when using 1" cans in replacing $1\frac{3}{8}$" cans of the clamp mounting type. Always mount in an upright position.

Prices include gaInut for mounting.

AC Electrolytic Capacitors—TYPE MS

FOR MOTOR STARTING SERVICE

● Recent Mallory developments have produced AC units much smaller physically than the originals in many cases. As an example, the 115 mfd. 110 volt capacitor originally supplied in many cases in $2\frac{1}{2}$" or 3" round cans may now be secured in 2" round cans and be used to replace 80, 100 and 115 mfd. units.

There is a majority of round can units as compared to the rectangular type in the field, and in most instances they may be used satisfactorily to replace rectangular types. For this reason, only round can units are listed. **Rectangular types will be furnished where required, upon receipt of complete specifications, or preferably the original unit itself.**

Prices given are for the complete unit as illustrated. If the metal cap protecting the terminals is not required, deduct $0.20 from the list price.

Tubular Bypass Units—PAPER DIELECTRIC TYPE TP

● Tubular bypass condensers, although generally the smallest condenser units in the radio receiver, are nevertheless just as important to its proper operation as any other component.

All Mallory units will be found to be safely rated (three papers for 400 volts, etc.) and are manufactured with the same degree of care and precision allotted to other Mallory products of higher unit value.

Since RF impedance is of paramount importance in bypass condensers of this type all Mallory units are, of course, non-inductively wound and great care is taken to insure a low impedance contact between the unit and its lead wires. The metal end discs used in Mallory construction not only insure good contact but in addition eliminate the possibility of open circuits due to mechanical abuse.

All units are thoroughly impregnated under high vacuum, oil treated and completely filled with a special high temperature moisture-resisting compound producing an exceptionally fine condenser from a quality standpoint. Tear one open and note the protecting layer of wax completely surrounding the section.

A close inspection of Mallory tubular condensers will reveal a unit built for continued service and not necessarily for pleasing appearance—a doubtful feature.

WE—Wet Electrolytic Type

Capacity	Wkg. V.	Size B	Size A	Catalog Number	List Price
4	475	1	x $3\frac{7}{16}$	WE447	$0.80
8	475	1	x $4\frac{1}{2}$	WE847	.95
12	475	$1\frac{3}{8}$	x $4\frac{1}{2}$	WE1247	1.15
16	475	$1\frac{3}{8}$	x $4\frac{1}{2}$	WE1647	1.35
18	475	$1\frac{3}{8}$	x $4\frac{1}{2}$	WE1847	1.50
35	400	$1\frac{1}{2}$	x $4\frac{1}{2}$	WE3540	1.75

MS—Motor Starting Capacitors

Capacity	Wkg. V.	Size B	Catalog Number	List Price
60	110	2	MS540	$3.70
70	110	2	MS541	3.95
80	110	2	MS542	4.20
100	110	2	MS543	4.70
115	110	2	MS544	5.20
135	110	$2\frac{1}{2}$	MS545	6.00
150	110	$2\frac{1}{2}$	MS546	6.60
100	150	$2\frac{1}{2}$	MS547	7.00
30	220	$2\frac{1}{2}$	MS548	5.60
40	220	$2\frac{1}{2}$	MS549	7.20

TP—Tubular Paper Dielectric Type

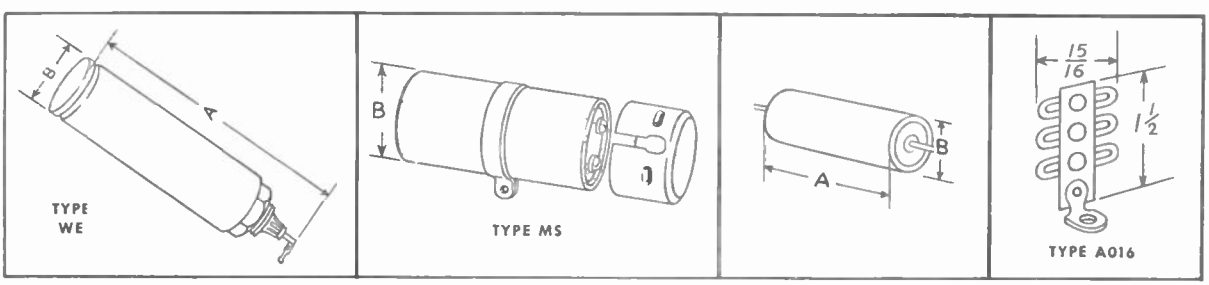
Capacity	D.C. Wkg. V.	Size A	Size B	Catalog Number	Quantity Packed per Carton	List Price Each
05	200	$1\frac{1}{16}$ x	$\frac{9}{16}$	TP435	10	$0.15
1	200	$1\frac{1}{8}$ x	$1\frac{1}{2}$	TP438	10	.15
.25	200	$1\frac{1}{8}$ x	$\frac{3}{4}$	TP440	5	.25
.5	200	2 x	$1\frac{15}{16}$	TP441	5	.35
1.0	200	$2\frac{3}{4}$ x	$1\frac{1}{8}$	TP443	5	.50
01	400	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP421	10	.15
02	400	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP423	10	.15
05	400	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP426	10	.15
.1	400	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP428	10	.20
.25	400	$2\frac{1}{4}$ x	$1\frac{15}{16}$	TP430	5	.25
.5	400	$2\frac{1}{16}$ x	1	TP431	5	.35
0001	600	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP401	10	.15
00025	600	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP402	10	.15
0005	600	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP403	10	.15
001	600	$1\frac{1}{16}$ x	$1\frac{1}{2}$	TP404	10	.15
002	600	$1\frac{1}{16}$ x	$\frac{9}{16}$	TP405	10	.15
005	600	$1\frac{1}{16}$ x	$\frac{9}{16}$	TP408	10	.15
006	600	$1\frac{1}{16}$ x	$\frac{9}{16}$	TP409	10	.15
.01	600	$1\frac{1}{16}$ x	$\frac{5}{16}$	TP410	10	.15
.02	600	$1\frac{1}{16}$ x	$\frac{9}{16}$	TP412	10	.15
03	600	$1\frac{1}{4}$ x	$1\frac{1}{16}$	TP413	5	.20
05	600	$1\frac{7}{8}$ x	$\frac{5}{8}$	TP415	5	.20
06	600	$1\frac{5}{8}$ x	$\frac{3}{4}$	TP416	5	.20
.1	600	$2\frac{1}{8}$ x	$1\frac{15}{16}$	TP418	5	.25
.25	600	$2\frac{5}{16}$ x	$\frac{7}{8}$	TP420	5	.35
.5	600	$2\frac{1}{16}$ x	$1\frac{1}{8}$	TP432	5	.50

"Terminal Connector"

● The Mallory "Terminal Connector" is invaluable for many applications.

Where cable or harness wiring was originally used the Mallory "Terminal Connector" affords a neat and effective anchor between the flexible leads from the condenser and the cable, making it unnecessary to splice and tape these connections.

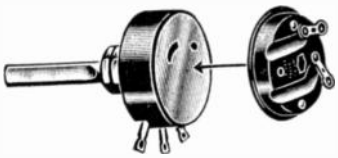
Mallory Part No. A-016 List price $0.05 each



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NEW TYPE ELECTRAD VOLUME CONTROLS

NEW ELECTRAD CARBON TYPE CONTROLS



Controls are of the perfected Graphite-on-Bakelite type. "W" after the specification number indicates wire-wound type. Resistance element is baked in to outer rim of Bakelite ring. Structure permits 300 degrees of continuous rotation. Special alloy floating contact travels without noise. Control is easily mounted and switch may be readily attached.

TABLE OF SPECIFICATIONS

Spec. No.	Total Resist.	Taper
204W	10	D
269W	20	D
270W	30	D
271W	50	D
272W	100	D
273W	200	D
274W	400	D
991W	500	D
282W	600	D
275W	800	D
276W	1,000	D
992W	1,500	D
232W	2,000	D
233W	3,000	D
277W	4,000	D
234W	5,000	D
278	5,000	E
993W	6,000	D
994W	7,500	D
560	7,500	E
283	10,000	D
995W	10,000	D
996	10,000	F
240	10,000	C
573	12,000	A
875	12,500	H
201	15,000	C
899	20,000	D
279	25,000	E
280	25,000	F
241	30,000	A
997	40,000	D
205	50,000	A
202	75,000	A
242	100,000	E

Spec. No.	Total Resist.	Taper
281	200,000	D
998	250,000	A
208	250,000	E
203	500,000	E
206	1,000,000	E
999	2,000,000	E

List Price, Each $1.00

TAPPED CONTROLS

Spec. No.	Total Resist.	Taper
894	500,000	E
895	1,000,000	E
898	2,000,000	E

List Price, Each $1.50

FADER UNITS

Spec. No.	Total Resist.	Taper
890	30,000 each side	E
891	250,000 " "	E
892	500,000 " "	E
897W	200 " "	D

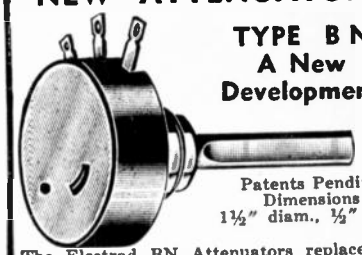
List Price, Each $1.50

DUAL CONTROLS P.P. GRIDS

Spec. No.	Total Resist.	Taper
893T	500,000 each unit	E
896T	250,000 " "	E
874T	2 Meg. " "	E

List Price, Each $2.50

NEW ATTENUATORS



TYPE B N
A New Development

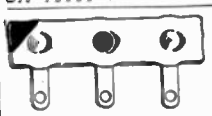
Patents Pending
Dimensions
1½" diam., ½" deep

The Electrad BN Attenuators replace the Electrad Attenuator Types 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.

The attenuation is accomplished by means of an infinitely variable ladder network. Total attenuation—60 DB. Rating 1½ watts.

Type No.	Line Impedance in Ohms	List Price
BN 15	15	$3.00
BN 50	50	3.00
BN 100	100	3.00
BN 200	200	3.00
BN 500	500	3.00
BN 3000	3000	3.00
BN 4000	4000	3.00
BN 5000	5000	3.00
BN 7000	7000	3.00
BN 10000	10000	3.00



CENTER TAP RESISTORS
Type FC

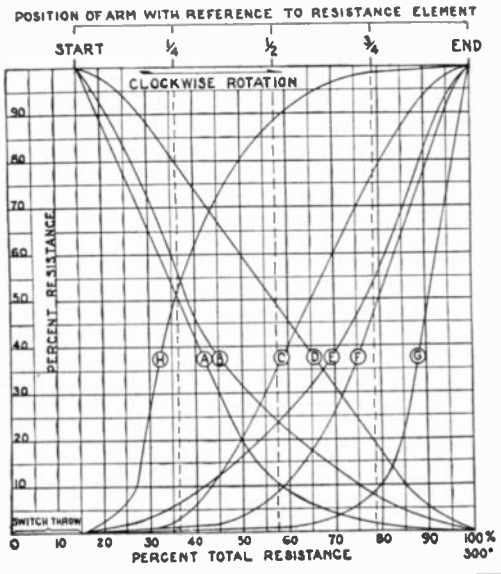
Moisture resistant. Center tap accurate to ± 1%. Size 1½" long, ⅝" wide.

Ohms	Volts	Ohms	Volts
10	4.5	50	10
15	5.5	75	12
20	6.5	100	14
30	7.5	200	20

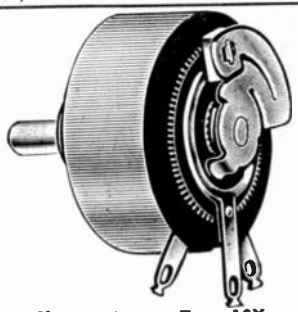
List Price, Each $0.25

Standard Switches for Above Controls

No. 101 ..... List Price, Each, $0.50



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 wirewound element on the outside surface. This insures smooth, noiseless action and long life.

Type 2X — 25-WATT RATING

Ohm	Amp.	Ohm	Amp.
1	5.0	60	.64
1.5	4.0	80	.56
2	3.5	100	.50
3	2.9	150	.40
4	2.5	200	.35
6	2.0	300	.29
8	1.8	400	.25
10	1.6	600	.20
15	1.3	750	.18
20	1.1	1000	.16
30	.9	1500	.13
40	.8	2000	.11

List Prices

Up to 1 ohm $4.50
Above 1 ohm-750 ..... 4.00
Above 750-2000 ..... 4.50

Type 5X — 50-WATT RATING

Ohm	Amp.	Ohm	Amp.
.5	10	40	1.1
1.0	7	50	1.0
1.5	5.8	75	.81
2	5	100	.70
2.5	4.5	150	.58
3	4.1	200	.50
4	3.5	300	.41
5	3.1		
6	2.9	500	.31
8	2.5	800	.25
10	2.2	1000	.22
15	1.8		
20	1.6		
25	1.4		
30	1.3		

List Prices

Up to 2 ohms $5.00
Above 2-500 ..... 4.50
Above 500-1000 ..... 4.75

Type 10X — 100-WATT RATING

Ohm	Amp.	Ohm	Amp.
1	10.0	60	1.29
2	7.1	100	1.00
3	5.8	150	.81
6	4.1	200	.71
8	3.5	300	.58
10	3.2	600	.41
15	2.6	750	.36
20	2.2	1000	.32
30	1.8	1500	.26

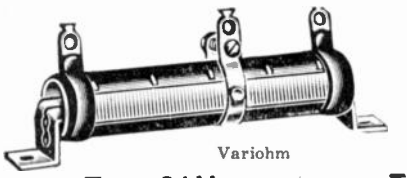
List Prices

Up to 3 ohms $7.50
Above 3-750 ..... 7.00
Above 750-1500 ..... 7.50

Also available in 150-watt rating up to 2000 ohms.

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TRUVOLT ELECTRAD RESISTORS VARIOHM



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.**

Type 2AV
5/8" x 2½" TUBE
25 WATTS

Ohms	Max. Cur.	List
5	2450	$0.85
10	1730	.85
25	1090	.85
100	545	.85
500	245	.85
1000	173	.85
1500	141	.85
2000	122	.85
2500	109	.85
5000	77	.85
10000	54	.95
15000	23	.95
20000	20	1.10
25000	18	1.10

Type 5AV
5/8" x 4½" TUBE
50 WATTS

Ohms	Max. Cur.	List
100	740	$1.35
500	330	1.35
1000	234	1.35
1500	190	1.35
2000	165	1.35
3000	135	1.35
5000	104	1.35
10000	74	1.50
15000	60	1.50
20000	50	1.50
25000	45	1.50
30000	43	1.70
40000	37	1.70
50000	34	1.70

Type 8AV
5/8" x 6½" TUBE
80 WATTS

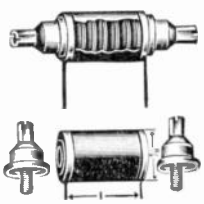
Ohms	Max. Cur.	List
100	865	$1.75
250	545	1.75
500	387	1.75
1000	270	1.75
1500	223	1.75
2000	190	1.75
2500	173	1.75
5000	122	1.75
10000	86	2.00
15000	70	2.00
20000	61	2.00
30000	50	2.25
40000	43	2.25
50000	39	2.25
100000	16	2.50

Type 10AV
1⅛" x 6½" TUBE
100 WATTS

Ohms	Max. Cur.	List
100	1000	$2.00
500	445	2.00
10000	100	2.25
3000	180	2.00
5000	140	2.00
10000	100	2.25
15000	81	2.25
20000	70	2.25
25000	63	2.25
30000	57	2.50
40000	50	2.50
50000	44	2.50
60000	40	2.75
75000	36	2.75
100000	17.3	2.75

Type No. 3 EXTRA ADJUSTABLE LUGS —For 25, 50, 80-Watt Variohms ..... **List Price, Each $0.10**
Type No. 6 EXTRA ADJUSTABLE LUGS —For 100- and 200-Watt Variohms ..... **List Price, Each .15**

ELECTRAD PRECISION RESISTORS



Winding is non-inductive. Impregnated with moisture-excluding compound. Useful as voltmeter-multipliers, resistor-elements of laboratory instruments and custom-built apparatus. Accuracy of plus or minus 1%. Dimensions: ⅜" diameter x 1" long.

Ohms	MA.	List
1	1225	$.85
50	173	.85
100	122	.85
1000	38	.90
4500	18	1.00
5000	17	1.00
10000	12	1.00
15000	10	1.10
20000	8.6	1.35
25000	7.7	1.35
30000	7	1.35
40000	6.1	1.35
50000	5.5	1.35
75000	4.4	1.60
100000	3.8	1.85
125000	3.4	2.10
150000	3.1	2.35
200000	2.7	2.35
250000	2.4	2.60
300000	2.2	2.85
400000*	1.9	3.00
500000*	1.7	3.40
750000*	1.3	4.50
1000000*	1.0	5.25

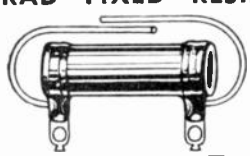
*These resistors are wound on 8 section forms to provide the higher dielectric strength necessary for 1½ watt or 1000 volt rating in these values. Overall length for these types is 1¼ inches.

FERRULE TERMINALS

For resistors described above.
List Price, Per Pair—$0.25

ELECTRAD FIXED RESISTORS

Vitreous enameled resistors with monel metal lugs, rapid heat dissipation.



Have positive lug contacts, long life and permanent resistance value. Tolerance ± 5%.

Type 1 HJ
5/16"x1¾" Ceramic Tube
10 WATT RATING

Ohms	MA.	Volts
1	3150	3
10	1000	10
15	800	12
25	630	16
50	450	22
100	315	31
250	200	50
500	141	70
750	115	85
1000	100	100
1500	81	122
2500	63	158
5000	45	222
10000	31	316
15000	14	212
20000	12	245
25000	11	274
List Price Each		$0.40

Type 2 HJ
½"x2" Ceramic Tube
20 WATT RATING

Ohms	MA.	Volts
25	895	22
50	633	32
100	447	44
250	282	70
500	200	100
750	165	122
1000	141	141
1250	126	157
1500	115	173
2000	100	200
2500	89	222
3000	81	240
5000	63	315
10000	44	440
12500	40	500
15000	37	550
25000	15	388
35000	13	458
50000	11	548
75000	9	670
100000	7.5	775
5-15000 ohms		List $0.65
15000-50000		List .75
50000-100000		List 1.00

Type 5 HJ
¾"x4½" CERAMIC TUBE, 50 WATT RATING

Ohms	MA.	Volts	Ohms	MA.	Volts
20	1581	36	7000	84	590
50	1000	50	8000	79	630
100	707	70	10000	70	700
250	447	111	12000	65	780
500	316	157	12500	63	790
750	258	192	15000	57	850
1000	223	200	20000	50	1000
1500	182	275	25000	44	1100
2000	158	315	30000	22	670
2500	141	350	50000	17	865
3000	129	375	75000	14	1060
5000	100	500	100000	12	1225
5-5000 ohms				List Price Each	$1.10
5000-2500				List Price Each	1.25
25000-100000				List Price Each	1.45

TRUVOLT ADJUSTABLE RESISTORS



Truvolt patented construction offers greater radiating surface, cooler operation, a heat conducting copper core which insures more uniform heat distribution. Tolerance ± 5%. **Also available in 25-50 and 75-watt ratings.**

TYPE A
10 WATTS ⅜" x 1¾"

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

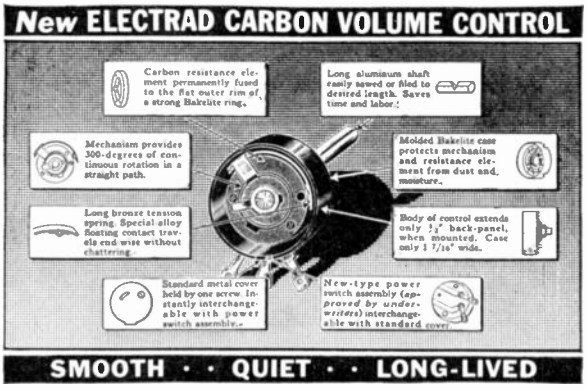
List, All Values ..... **Each $0.50**
Extra Sliders ..... **List, Each .10**

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New **ELECTRAD** **REPLACEMENT**

Volume Controls

USING NEW CONTACT CARBON CONTROL DEVELOPMENT



NOTE

All volume controls listed below are furnished complete with A.C. switch wherever original manufacturer's control calls for one.

Manufacturer	Control No.	List Price
All-American Mohawk		
S-6, S-7, S-8	283	$1.00
11-D, 19-D, 19-H, 29-D, 29-H, 34-D, 34-H, 69-D, B-94	1802T	2.50
39, 40, 41, 722, 712	279	1.00
S-40, U-55	201	1.00
SW-8, S-10, SA-65, SW-80, SA-90, SA-91, SA-110, Lyric K	203	1.00
70, 73, 75	1907	1.50
Lyrics, 60, 61, 62, 65, 66, 77, 80, 83, 84, 85, 86, 88, 99, 280	166	1.50
Atwater Kent		
33, 49, 424, 534, 816, 936	203	1.00
37, 37-C, 37-F, 38, 40, 40-F, 41, 42, 42-F, 43, 44, 44-F, 45, 46, 47, 51, 52, 53 (Strip)	1738	.50
55, 55-C, 55-F, 55-FC, 56, 57, 60, 60-C Early, 60, 60-C Late, 61, 61-C, 66 (Strip)	1742	.50
55, 55-C, 55-F, 55-FC, 56, 57 Late	524T	2.50
60-C (3rd type), 70, 72, 74, 75, 76, Chassis D, F, L and P, 87-D	1T	2.50
67, 67-C, 82 (Air Cell), 85Q	465	1.50
70, 72, 74, 75, 76—Chassis H-1 and H-2	1757T	2.50
70, 72, 74, 75, 76—Chassis Q	2116T	2.50
80, 80-F, 83, 83-F, 90, 90-F, 567, 567-F	460P	2.00
82, 82-F, 85 Late, 85-F	433P	2.00
82-D (DC types), 84-D Late, 89, 89-F, 89-P, 92, 92-F, 96, 96-F, 99, 99-F, 165 Late, 185, 185-A, 188, 188-F, 260, 260-F, 469, 469-D, 469-F, 558-D, 558, 612, 627, 812	464P	2.00
84, 84-D, 84-F, 84-Q, 85 Early	2394P	2.00
84, 84-F Late	462PG	2.00
86, 86-F	463PG	2.00
87, 94, 94-F	2395P	2.00
99-P, 155, 228-D, 228-F, 236, 266, 448, 460, 467, 555, 588, 666, 926	203AS	1.50
135-Z, 145, 206, 215-Z, 325, 376	2471P	2.00
165 Early, 217, 217-D, 246, 275, 310, 310-J, 310-T, 425, 427, 427-D, 510, 665, 667, 667-D, 708, 711, 711-J, 711-R, 711-T, 788, 808, 808-A	953P	2.00
165-Q, 387, 427-Q	M2528P	2.00
184, 854, 944	2462P	2.00
225, 435, 545	2464P	2.00
318, 559, 649, 649-RP	2460P	2.00
Bosch		
4, 7, 7-A, 7-C, 20, 20-L, 20-J, 20-K, 31, 32, 36, 37, 73, 74, 133, 135, 305-A	493P	2.00
Bosch—(Cont.)		
10, 46-AC, 60, 96, 96-DC, 107, 116, 126, 136, 146, 166, 176, 242-E, 243, 250, 312, 313 Volume	10, 20, 40, 41-AC, 58, 60, 61, 62-DC, 63, 242-E, 243 Tone	203	$1.00
58, 62-AC, 62-DC	491	1.50
28, 29	1747	1.50
40, 41-AC, 251, 350, 355, 360, 370	492P	2.00
48-AC, 49, 54-DC	1832T	2.50
16, 27, 35, 46-DC, 57, 66 Batt., 87, 76 Batt	204W	1.00
Brunswick		
4-A, 4-PA, D-11, D-12, D-16, D-18, D-33 — Above Serial No. 25,000, 17, 24, 25, D	203	1.00
B-17, PR-17-8	401	1.50
81, 821	202	1.00
DC-14, DC-21, DC-31	234AS	1.50
S-14, S-21, S-31, S-81, S-82	424P	2.00
Panatrope	355	1.50
Colonial		
2	498P	2.00
16-5, 16-6, 17-5, 20, 21, 26	204W	1.00
25,600, 600-A, 601, 602, 603, 604, 650, 651, 652, 655, 656, 657, 658, 332-X, 391, 391-X, 391-Y	203	1.00
32-AC, 32-DC	1651T	2.50
46, 52	573	1.00
62, 73	240	1.00
65	270 WAS	1.50
Crosley		
3-RS, 4-29, 5-38, 6-60, 6-75, 6-85, 20 Batt., 21 Batt., 22 Batt., RFL-90, 401-A, XJ	204W	1.00
22, 23	560	1.00
30, 30-S, 31 S, 32, 33-S, 34-S, 40-S Late, 41-S Late, 42-S Late, 45-S Late, 82-S, 31-S (3rd Model), 63	1687	1.50
40-S Early, 41-S Early, 42-S Early, 45-S Early, 71-A	1711	1.50
41-A Early, 42 Early, 61 Early, 602, 608 Female Shaft, 609 Female Shaft, 610 Gem Box Female Shaft, 704, 705, 706	1712	1.50
53, 54, 55-DC, 56-DC, 57, 58	686	1.50
60-S, 61-S, 62-S, 63-S, 65-S	995W	1.00
72-7H2, 72LB-7H2, 72-7H3, 72-LB-7H3, 162-1	206	1.00
77, 77-A, 77-B, 77-L, 84, 84-C, 84-D	208	1.00
95 Auto, 96 Auto	2055P	2.00
98, 99 Auto	999AS	1.50
130, 130-1, 132-1, 136-1, 134	2056T	2.50
Crosley—(Cont.)		
134-1, 146, 146-1, 150, 157, 158, 160, 168, 168-D, 170, 171, Ground Station	2041	$1.50
177, 181	880	1.50
410, 420, 400	276W	1.00
172, 174, 176	240AS	1.50
992, Air Roamio	2040PG	2.00
704 Short Shaft, 704-A Short Shaft, 704-B Short Shaft, Jewel Box Short Shaft	1839	1.60
Johnny Smoker	232W	1.00
169	573AS	1.50
706 Early, Long Shaft	347	1.50
804 Jewel Box	296	1.50
804 Late	978	1.50
Auto Roamio, B Series	203	1.00
Emerson		
H-5, 26-AW, 26-LW, 30, 30-AW, 30-LW, 33, 33-AW, 33-LW, 250, 250-AW, 250-LW, 300, 321, 321-AW, 321-LW, 350, 350-AW, 350-LW, 409, 410, 411, 415, 416, 420, Mickey Mouse	813PG	2.00
DC-4, L-DC-4, AW-55, KS, L-AC-A	573AS	1.50
L-AC-4, L-AC-5, JS, T, TS, 50-L, 50-M, S-50, L-755, M-755, S-755	685PG	2.00
40, 77, 375, 375-LW	240AS	1.50
	814P	2.00
Eveready		
1, 2, 3	1747	1.50
Series 30, 40	282W	1.00
31	202	1.00
Series 50 Early	478T	2.50
Fada		
7-AC, 10, 10-Z, 11, 11-Z, 30, 30-Z, 31, 31-Z, 45-72, 50, 70, 71, 72, 475-UA, 475-CA	147	1.50
15-M, 15-MZ, 20, 20-Z, 25, 25-Z, 75, 77	325	1.50
16, 16-Z, 17, 18-DC, 32, 32-Z	277	1.50
41, 42, 44, 46, 47	206	1.00
35	2048	1.50
43, KF, KG	633T	2.50
45, 45-KU, 51, 53, 57, KX-61, 66, 66-KX, 171, 173, 173-KOC	283	1.00
48-KW, 49-KW	560	1.00
55, 58, KC, KO, RG	573AS	1.50
RP-62-CA, RP-62-UA, RP-65-CA, RP-65-UA	60	1.50
73, 74, 76, 79, 83, 85, 88, 89, RA, RC, RE	206AS	1.50
78-RC, 79-RC	1848T	2.50
78-10	822P	2.00
101, 102, 104-B, RK, RO, RP, RV	821P	2.00
105-ACDC, 106-ACDC, 107-ACDC, 112, RN-ACDC, RS, RX, RY	824P	2.00
133, 134, 135, RW	822P	2.00
Freed Eisemann		
NR-7, NR-8, NR-9, NR-10, NR-12, FE-15, FE-18, NR-20, NR-40, NR-53, NR-800, NR-77	204W	1.00
NR-55, NR-56 AC & DC	1748T	2.50
NR-57, NR-60, NR-70	201	1.00
NR-78, NR-79	208	1.00
NR-80 AC & DC, NR-85 AC & DC (strip)	1891	.50
NR-90	1833TG	2.50
General Electric		
GET-12	201	1.00
T-12, T-12-E	382	1.50
S-22, S-22-X, H-31, H-51, H-71, 71-R	381G	1.50
H-32	413	1.50

New **ELECTRAD** **REPLACEMENT**

Volume Controls

USING NEW CONTACT CARBON CONTROL DEVELOPMENT

Manufacturer	Control No.	List Price
General Electric—(Cont.)		
S-22 (pentodes), S-42, J-70, J-80-D	383G	$1.50
H-51, H-51-R, H-71, 71-R tone	205	1.00
M-51, M-56	2094P	2.00
C-61 Auto	2071P	2.00
K-62, J-80, K-82, J-85, J-85, S-132	385	1.50
J-82, J-86, J-100, J-105, J-107, JZ-822	2366	1.50
H-91, H-91-R	241	1.00
General Motors		
S-1-A, S-1-B, 216, 217, 219, 250, S-5-A, S-5-B	111P	2.00
S-2-A, S-2-B, 251 tone	110	1.50
S-2-A, S-2-B, S-3-A, S-3-B, 251, 252, 253, 254, 255, 256, 257, 258	156P	2.00
6-B, 6-61 (Day Fan), 85, 5050, 5053	204W	1.00
S-9-A, S-9-B Chassis, 211, 252, 253, 254, 255, 256, 257 (Late), 258 (Late), S-3-A, S-3-B, S-4-A, S-4-B tone	131	1.50
A-5005, A-5020 Day Fan	205	1.00
Graybar		
4	382	1.50
8, 7, 8A, 13	383G	1.50
Midget 8	379	1.50
311	402	1.50
600	407	1.50
700, 770, 900	381G	1.50
Tone Control for 770, 900	205	1.00
900 Phono Control	384	1.50
Grunow		
8-A Chassis, 500, 801	2091P	2.00
11-A Chassis, 1151, 1152, 5-D, 570, 571	206AS	1.50
501, 580, 5-G	894	1.50
1101	999	1.00
Majestic		
15 Tone	553	1.50
15, 15-B, 150, 151, 153, 154, 155, 156	440PG	2.00
20, 21, 22, 23	1513PG	2.00
25 Chassis, 251, 253, 254	444PG	2.00
25 Tone, 251, 253, 254	2382	1.50
25-B Chassis, 251-B, 253-B, 254-B	2383P	2.00
30, 31	1741TP	3.00
50, 51, 52	1810T	2.50
60 Chassis, 61, 62, 160, 163	441	1.50
70, 70-B, 71, 72	2380	1.50
90, 90-B, 91, 92, 93	2381	1.50
90, 90-B, 91, 92, 100, 100-B, 101, 102, 103, 180, 181, 321-Equalizer	1688G	1.50
100, 100-B, 102, 103	715T	2.50
100 Chassis, 101	2379T	2.50
120, 120-B, 121, 123	1880T	2.50
130 Chassis, 130-A, 131, 132	438	1.50
150 Chassis-Tone	205	1.00
180 Chassis, 181	1809T	2.50
180 Phono, 181 Phono	241	1.00
200 Chassis, 201, 203, 204	549	1.50
200 Chassis, 201, 203, 204-Tone	550P	2.00
210 Chassis, 211, 214, 215	551	1.50
210 Chassis, 211, 214, 215-Tone	552P	2.00
Montgomery Ward		
AE-10, 2655	704T	2.50
W-11	205AS	1.50
11-12 (Early), WG-24, 62-020 (1st type), 62-29, 811 (Solo), 811-X, 1111 (Fantasy), 1111-X	573	1.00
11-12 (Early), 62-29 (1st type), 62-134, 62-134-X, 62-136, 62-138, 62-139, 62-139-X, 62-173, 62-175, 62-176, 62-177, 62-188, 62-193—Tone 17 (1932)—Volume	208	1.00
Montgomery Ward—(Cont.)		
11-12 (Late), 62-11 (2nd type), 62-14 (2nd type), 62-19 (2nd type), 62-21, 62-22, 62-27 (2nd type), 62-29 (2nd type), 62-30, 62-136, 62-138, Auto (1932)—Volume	203	$1.00
Cavalier, Commander—Tone		
11-12 (Late), 62-29 (2nd type)—Tone	280	1.00
13, 15, 16, 16-X, 17 (1933), 18, 18-X, 20-W, 26-P, 26-PX, 49, 62-030, 62-055, 62-70, 62-232, 62,520, 1522, 1562, 1611, 1711, 1922, 3035, 3037, 3063, 8065, 3067, 11,000 (Challenger), Troubadour	240	1.00
26-W Chassis, 27-W Chassis, 62-060 (Challenger, Jr.), 62-070 (Princess), 1500, 1800, 15,000, Cavalier, Collegian, Commander	677	1.50
27-W Chassis, 1500, 15,000 Collegian—Tone	295	1.00
29-W	952P	2.00
51	201	1.00
62, 1040	282W	1.00
62-1, 62-2—Volume, 62-11, 62-12 (1st Type), 62-14, 62-19, 62-20, 62-20X, 62-25, 62-26, 62-27, 62-PC-64, 62-PC-68, 62-203, 62-205, 62-208, 62-212, 62-217, 62-219, 62-1838, 1238—Tone	242	1.00
62-3, 62-6, 62-7, 62-8, 62-9, 62-104	573AS	1.50
62-010	279	1.00
62-11 (1st Type), 62-12 (1st Type), 62-14 (1st Type), 62-19 (1st Type), 62-27 (1st Type), Grenadier	234W	1.00
62-16, 62-PC-55, 62-PC-68, 62-89, 62-103, 62-105, 62-203, 62-205, 62-208, 62-212, 62-217, 62-219	206AS	1.50
62-20, 62-20-X, 62-25, 62-26, 500 (Dictator), 2822 (Balboa), 2827, 2895 (De Soto), 2897, 10,000 (Serenader)	274W	1.00
62-030, 62-89, 62-106, 62-107, 62-121, 62-132, 62-137, 62-179, 62-194, 62-206, 62-216, 62-218, 62-232, Troubadour—Tone, 62-124, 62-129—Volume	999	1.00
62-38, 62-40, 62-50, 62-PC-64, 62-91, 62-93, 62-1838, 1238, 1355 (Minstrel), 1955, Recital—Volume, 62-040, 2955-X, 2957-X, 11,000 (Challanger), Commodore, Fantasy, Solo, Sovereign—Tone	206	1.00
62-040, Commodore, Sovereign	233W	1.00
62-45	949	1.50
62-96, 62-98	240AS	1.50
62-97, 62-97-X, 62-99, 62-99-X, 62-101, 62-101-X, 62-135, 62-135-X, 62-150, 62-150-X, 62-154, 62-154-X, 62-173, 62-175, 62-176, 62-177, 62-188, 62-193, 87	203AS	1.50
62-102	2613P	2.00
62-103, 62-105—Tone	2324	1.50
62-106, 62-107, 62-121	208AS	1.50
62-124, 62-129—Tone	241	1.00
62-132, 62-134, 62-134-X, 62-137, 62-139, 62-139-X	999AS	1.50
62-115	2614P	2.00
62-140, 62-140-X, 62-148, 62-148-X	2034PG	2.00
62-147, 62-147-X, 62-156, 62-156-X, 62-164, 62-164-X, 62-198, 62-225, 62-235	2319P	2.00
62-169	2617	1.50
62-204	2322P	2.00
62-214, 62-233	2616P	2.00
62-222	2615P	2.00
Montgomery Ward—(Cont.)		
77, 95, 110, 120, 122, 126, 128, 149, 155, 160, 162	M2644	$1.50
89, 112, 132, 134, 137, 139, 165, 167	M2645P	2.00
89, 112, 132, 137, 165—Tone	2628	1.50
114, 116	M2646	1.50
118	M2648P	2.00
118—Tone	M2630	1.50
123, 131, 133, 136, 138, 142, 144, 151, 152, 157, 158	M2647P	2.00
123, 131, 133, 134, 136, 138, 139, 142, 144, 151, 152, 157, 158, 167—Tone	M2629	1.50
124, 129, 153	M2649	1.50
124, 129, 153—Tone	M2631	1.50
166, 202, 242	2651P	2.00
166—Tone	2632	1.50
173, 175, 176, 177, 188, 193, 238	M2654P	2.00
173, 175, 176, 177, 188, 193, 238—Tone	M2634	1.50
178, 181, 189, 211	M2652P	2.00
179, 194, 206, 220	M2655TP	3.00
179, 194, 206, 220—Tone	M2635	1.50
182, 185, 187, 190, 196, 246	M2653TP	3.00
182, 185, 187, 190, 196, 203, 207, 208, 215, 217, 221, 244, 245, 246, 247, 252—Tone	M2633	1.50
192, 195	M2656TP	3.00
192, 195—Tone	M2636	1.50
197	2660TTP	3.50
197—Tone	M2638	1.50
199	M2650P	2.00
202—Tone	2637	1.50
203, 208, 217	M2656P	2.00
207, 221	M2657P	2.00
215, 244, 245, 247, 252	M2658P	2.00
236	M2663P	2.00
237, 239, 243	M2661P	2.00
237, 239, 243, 332, 432—Tone	M2639	1.50
259	M2662P	2.00
259, 310, 410—Tone	2640P	2.00
310, 410	M2666P	2.00
311, 411	M2665P	2.00
311, 411—Tone	M2641P	2.00
313, 413	M2667P	2.00
313, 413—Tone	M2642P	2.00
326, 336, 426, 436	M2664P	2.00
327, 337, 427, 437	M2668P	2.00
327, 337, 427, 437—Tone	M2643	1.50
839, 921, 923, 924	2327	1.50
2955-X, 2957-X	875	1.00
Grenadier, Recital—Tone	281	1.00
Philco		
1, 2, 3 Auto	2082	1.50
5 Early, 82, 86, 87, 500 Series, 511, 531, 541, 551, 551-A, 561, 571, 581	1664	1.50
5 Late	2108P	2.00
WR-5 Early	2414	1.50
WR-5 Late	2418	1.50
6, 9	2490P	2.00
WR-6	2415	1.50
7	2496P	2.00
8, 12	2492P	2.00
10	2518P	2.00
11, 800	2515P	2.00
14 Early, 91	2499	1.50
14 (Code 122 and 123), 18 Early, 49-DC, 118, 507	834P	2.00
15, 23-X	203	1.00
16 Early, 17 Early, 500, 501	2505P	2.00
16 (Series 5), 116-B (Code 121)	2076P	2.00
17 Late	2347P	2.00
18 (Code 124), 503	2491	1.50
19 Early, 26, 89 (Code 123)	915P	2.00
19 (Code 128)	914	1.50
19 Late, 89 Late	2612	1.50
20, 20-A, 21, 41-DC, 42-DC, 77, 77-A, 220, 220-A	1735-T	2.50
22-L, 47, 71 Series	2493	1.50
24, 48, 51, 51-A, 52	2489	1.50
25, 43	2498P	2.00
28, 29, 45	2083P	2.00
30 Batt., 96, 96-A, 111, 111-A, 112, 112-A, 112-E, 211, 211-A, 212-E, 296, 296-A	479	1.50

New **ELECTRAD** **REPLACEMENT**

Volume Controls

USING NEW CONTACT CARBON CONTROL DEVELOPMENT

Manufacturer	Control No.	List Price
Philco—(Cont.)		
32	2495P	$2.00
34	2497P	2.00
35 Batt., 36 Batt.	975T	2.50
37	2487T	2.50
38 Batt., 38 (Code 123), 38-A Batt.	2568	1.50
38 (Code 124), 124	2419	1.50
39	2569P	2.00
40-DC	282W	1.00
44, 504	2494P	2.00
46-DC, 46-E-DC	2090T	2.50
50, 50-A	1823T	2.50
53	832P	2.00
54	2508P	2.00
57	835P	2.00
59	2507P	2.00
60, 66, 261, 505	833P	2.00
62	233W	1.00
65	2567	1.50
70, 70-A Early, 90, 90-A—2-45's, 270, 270-A, 370-A, 470, 470-A, 570, 570-A	1824T	2.50
70 Late, 70-A Late, 90 (2-47's)	2506	1.50
73, 76	2081	1.50
80	2087P	2.00
81	2503	1.50
84	2502P	2.00
90 (1-47), 91 (1-47), 490	2488	1.50
92, 95	480	1.50
97	2501P	2.00
116-X (Code 122), 660	2403P	2.00
144, 506	2046P	2.00
200, 201, 509	2500P	2.00
255	2404P	2.00
268	2413	1.50
280	2402P	2.00
281	2420P	2.00
295	2416P	2.00
370 Lazy Boy	2623TP	3.00
610	2486P	2.00
611	2406P	2.00
620, 630	2356P	2.00
623 Early	2407P	2.00
623 Late	2421P	2.00
640	2405P	2.00
641	2408P	2.00
642	2412P	2.00
643	2411P	2.00
650	2166P	2.00
651	2422P	2.00
680 (Bass Compensation)	2410	1.50
680	2409	1.50
700	2516P	2.00
800 (Code 122), 802	2517P	2.00
805	2565	1.50
806, 809	2566	1.50
3005	2417P	2.00
N Ford Auto	2079P	2.00
RCA-Victor		
AVR-1, RC-106, 140, 141, 141-E, 240, All Wave	916	1.50
SW-3, R-71, R-72, R-74, R-76, R-77, R-24	2366	1.50
R-3-B	2350	1.50
R-3-C, R-25-DC	2374	1.50
R-4, R-6, R-7-A, R-7-DC, R-8-DC, R-9, R-9-DC, R-10-DC, RE-16, RE-16-A, Radiola Superett	383G	1.50
T-4-8, T-4-9, 100, 101, 103	2067P	2.00
T-4-8-A, T-4-9-A	2535P	2.00
T-4-10	2546PG	2.00
AVR-5-A, All Wave (Sensitivity)	2375	1.50
5-M	M2537	1.50
5-M Tone, 6-M Tone, 6-M-2 Tone	M2540	1.50
R-5, R-5-X	382	1.50
T-5, RE-16, RE-16-A, RE-17, RE-57, 67, RAE-68, 80, Rad. 86, R-86 Phonograph Control	384	1.50
T-5-2, 118, 211	2044P	2.00
6-M, 6-M-2	M2559	1.50
BC-6-4, BC-6-6, BT-6-3, BT-6-5, BT-6-10	2549	1.50

Manufacturer	Control No.	List Price
R-C-A Victor—(Cont.)		
C-6-2, C-6-8, T-6-1, T-6-7, T-7-5, C-7-6, D-7-7, T-8-14, C-8-15, T-8-16, C-8-17, D-8-28, C-9-4, C-9-6, D-9-19	2536	$1.50
C-6-12, T-6-11	2538P	2.00
H-6	M2547P	2.00
T-6-9	2544	1.50
R-7-LW	2512	1.50
BT-7-8, BC-7-9	2543	1.50
Rad. 7-11, Rad. 7-26-X, Rad. 33, Rad. 33-DC, Rad. 51-DC, Rad. 18, Rad. 18-DC	402	1.50
7-23	240	1.00
Rad. 7-25, Rad. 7-54, Rad. 17, Rad. 41, Rad. 41-DC, Rad. 50	401	1.50
R-8, R-10, R-11, R-12, RE-18, RE-18-A, RE-19, R-21, RO-23, RAE-26, Superett B	385	1.50
T-8-14, C-8-15, T-8-16, C-8-17, C-9-4, C-9-6, D-9-19 Tone Control	2551	1.50
D-8-28, D-9-19 Phono Control	2534P	2.00
CRD-9-AC, CRD-9-DC Phono Control	2331	1.50
9-18, 9-54, 9-56, Rad. 64 Sensitivity	406	1.50
T-10-1, C-11-1, D-11-2, C-13-2	2545	1.50
T-10-1, C-11-1, D-11-2 Tone	2539	1.50
R-11, RAE-26 Tone	380P	2.00
C-13-2, C-15-3 Tone	2548	1.50
R-14, R-15, RE-17, R-42, Rad. 48	5707T	3.50
C-15-3	2556	1.50
Rad. 16, Rad. 20	400	1.50
PT-16-A-1, PT-16-A-2, PT-17-A-1, PT-17-A-2 Phono Control	2430	1.50
R-17-M, R-18-W, R-27, 102	2073PG	2.00
RE-18, RE-18-A, RE-20, PT-33 Phono	2334	1.50
RE-20, RE-28, R-50, R-55, RAE-59, RAE-79	413	1.50
Rad. 21, Rad. 22	2327	1.50
R-22, 114	2065PG	2.00
RAE-26, RAE-59, RAE-79 Phono	2428P	2.00
R-28	976PG	2.00
R-28-BW	2328PG	2.00
R-28-P, RE-40-P, 110, 111, 115	2075PG	2.00
CE-29	2340	1.50
M-30	2344	1.50
M-32	2338	1.50
R-32, RE-45, R-52, RE-75, RE-154, RE-156	1706T	2.50
33-A	272W	1.00
M-34, M-105	2348P	2.00
R-34, R-35 Micro-Synchronous, R-39 Micro-Synchronous, RE-57 Micro-Synchronous, RE-73	366T	2.50
Rad. 35, Rad. 39, R-51, RAE-68, Rad. 80, Rad. 82, Rad. 86, Clock Model	381G	1.50
E-35, RE-45, RE-75, E-135 Phono	773	1.50
R-35, 39, 57 Remote Control	725T	2.50
R-37, R-37-P, R-38, R-38-P, 120, 124, 331	2063	1.50
RE-40	743PG	2.00
RE-40, RE-40-P, 310 Phono	2339P	2.00
R-43, R-43 (Tone)	2345	1.50
Rad. 44, Rad. 46, Rad. 47	403	1.50
Rad. 46-DC	408	1.50
RE-59 Phono	661P	2.00
Rad. 60, Rad. 62	404	1.50
Rad. 64, Rad. 67	405	1.50
Rad. 66	407	1.50
R-70	2335	1.50
R-71-B	2377	1.50
R-73, R-75, RE-80	2510	1.50
R-73-A, R-75-A	862	1.50
RE-73 Phono	2330	1.50
R-74 Tone	863	1.50
R-76, R-77 Tone	2570	1.50
R-78 Early	2127T	2.50
R-78 Late, RAE-84	861	1.50

Manufacturer	Control No.	List Price
RCA-Victor—(Cont.)		
R-78 Late, RAE 84 Sensitivity	2514P	$2.00
80, 82, 86 Remote	724	1.50
RE-80 Phono	2369P	2.00
RE-81 Phono	2429	1.50
R-90, R-90-P, 260, 261, 280	2066P	2.00
R-90, R-90-P, 260, 261, 280, 380, 380-HR Sensitivity	2511	1.50
91-B	2333G	1.50
R-92 Phono	2329P	2.00
R-93 Phono	2349P	2.00
RC-98	783PG	2.00
RC-104	782PG	2.00
M-107	2354P	2.00
112	2367PG	2.00
112A	2509PG	2.00
M-116	2072	1.50
121, 122, 221	917	1.50
121 Tone	919P	2.00
123	2071P	2.00
126-B	2341	1.50
128, 128-E, ACR-136, 143 (1934 prod.), 224, 224-E, 242 (1934 prod.), 322, 322-E, 341	2106	1.50
128, 224, 322 Tone	2555	1.50
135-B, 235-B, 236-B	2360	1.50
135-B, 235-B Tone	2554	1.50
142-B, 241-B	2378	1.50
143 (1934 prod.), 242 (1934 prod.), 341 Tone	2553P	2.00
143 (1934 prod.), 143 (1935 prod.), 242 (1935 & 1934 prod.), 243 (1935 prod.) Sensitivity	2541	1.50
210, 310	2061PG	2.00
220, 222	918	1.50
220 Tone	920P	2.00
240 Tone	921P	2.00
262 (Early), 262 (1935 prod.), 263	2080	1.50
262 (1935 prod.), 263 Bass Tone	2542	1.50
262 (1935 prod.), 263 Treble Tone	2550	1.50
262, 263, 281, 381 Sensitivity	2368	1.50
281, 381	2343	1.50
281, 381 Tone	2557	1.50
300	2336PG	2.00
300 Phono	2353	1.50
301 Phono	2352	1.50
321, 322, 322-E, 340, 340-E, 341 Phono	2370P	2.00
330	2332	1.50
331 Phono	2427P	2.00
380, 380-HP	2351P	2.00
AR-5006	2062P	2.00
S. G. Batt.	205	1.00
Radiola Superett Tone	379	1.50
Sears-Roebuck		
49-50, 56, 100, 108 (Early), 7048	240	1.00
52, 53, 54, 93, 94, 95, 99, 111.	875	1.00
90, 105, Silvertone F, G	204W	1.00
106, 107, 1620, 1622	270WAS	1.50
108 (Late), 108-A, 108-E, 1320 (Late), 1370 (Late), 1380, 1382, 1490, 1531 (2nd Model)	560AS	1.50
109 (Early), 218, 501, 502, 1588, 1630, 1660, 1711-X, 1724, 1800, 7106, 7108, 7111-X, 7112, 7114, 7121, 7168, K 1326, 1360, 1390, 1400, 1402, 1404, 1406, 1408, 1450, 1531—add a 150-W Grid Resistor		
7055, 7060—add a 250-W Grid Resistor	201	1.00
109 (Late)	560	1.00
110, 1130, 1530, 1582, 1584, 1590, 1592, 7134, 7153, 1320 (Early), 1322, 1324, 1386—add a 150-W Grid Resistor		
7050 (by Sentinel), 7058 (by Sentinel)—add a 260-W Grid Resistor	201AS	1.50
112	2625P	2.00

New **ELECTRAD** **REPLACEMENT**

Volume Controls

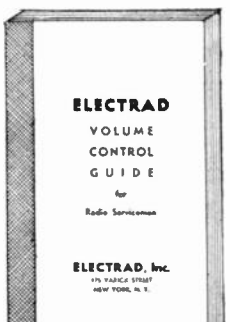
USING NEW CONTACT CARBON CONTROL DEVELOPMENT

Manufacturer	Control No.	List Price
Sears-Roebuck—(Cont.)		
218 (Late), 1512-X, 1520, 1522, 1522-X, 1956-X, 7000, 7001, 7002, 7012, 7066, 7124, AVC 9-tube Superhet—Tone		
1716—Volume	242	$1.00
249, 1294	281AS	1.50
1280, 1282, 1727		
263, 510, 7042, 7177—add a 200-W Grid Resistor	240AS	1.50
264, 1452, 1560, 1562, 1590-A, 1625, 1708-A, 1715, 1726, 1731, 1733, 1760, 1801, 1801-A, 1802, 1802-A, 1803, 1803-A, 1805-A, 1806, 1807, 1808, 1808-A, 1809, 1811, 1823, 1826-A, 1827, 1828, 1829, 1833, 1835, 1841, 1842, 1845, 1854, 1855, 1858, 1859, 1859-X, 1860, 1860-X, 1863, 1865, 1869-X, 1871, 1900, 1903, 1907, 1909, 1910, 1912		
1924, 1925, 1927-X, 1930, 1934, 1935, 1937-X, 1939, 1940, 1942, 1944, 1953, 1954-X, 1956, 1956-X, 1957, 1962, 1970, 1970-A, 1972, 1985, 1992-X, 1993-X, 1994, 1995, 7013, 7116, 7118, 7123, 7124, 7127, 7129, 7133, 7136, 7137, 7138, 7139, 7140, 7141, 7142, 7143, 7144, 7145, 7146, 7148, 7154, 7155, 7156, 7157, 7158, 7163, 7167, 7172, 7172-X, AVC 9-tube Superhet—Volume		
1570, 1672, 1574, 1630, 1640, 1650, 1652, 1654, 1670 (Early), 1670 (Late), 1708-A, 1722-X, 1724, 1726-X, 1729, 1732-X, 1733, 1804, 1805, 1805-A, 1808, 1808-A, 1809, 1811, 1820, 1821, 1825, 1825-A, 1826, 1826-A, 1827, 1828, 1832, 1832-A, 1833, 1840, 1841, 1845, 1851, 1858, 1864, 1922-A, 1932-A, 1982-A, 1922-A, 7118—Tone	203	1.00
1297	281	1.00
1340	997	1.00
1370 (Early), 2400	573	1.00
1371	283AS	1.50
1422, 1422-X, 1430 (using Audio), 1462, 1512-X, 1520, 1522, 1522-X, 1743, 1743-A, 1821, 1825, 1825-A, 1832, 1832-A, 1840, 1903-X, 1949, 1949-A, 1953-X, 4421, 4521, 7000, 7001, 7002, 7012, 7169—Volume		
1854, 1855, 1857, 1857-A, 1862 (use D.P.S.T. Switch), 1868 (use D.P.S.T. Switch), 1870 (use D.P.S.T. Switch), 1715—Tone	203AS	1.50
1430 (Tandem), 1510	2626TP	3.00
1480, 1482, 1484	573AS	1.50
1506 (add 230-W Grid Resistor)	277WAS	1.50
1626	999	1.00
1640 (Phantom Control)	272WAS	1.50
1650, 1652, 1654, 1670, 1822, 1824, 1830, 1831, 1864, 1917, 1918, 1941, 1967, 1968, 1971, 1981, 1981-C, 7043, 7044, 7045, 7046, 7047, 7053, 7066, 7151—Volume		
1806, 1823, 1829—Tone	206	1.00
1700, 7062	233WAS	1.50
1702, 7165-X, 7166-A, 7166-X, 7173, 7183—add 200-W Grid Resistor	998AS	1.50
1703, 1728, 7064	930PG	2.00
1704, 1706, 1707, 7070, 7071, 7072	929P	2.00
1705	925TPG	3.00
1705 Tone, 1714 Volume	932	1.50
1708, 1709, 1720, 1725, 7065. 1708, 1709, 1712, 1713, 1714, 1721, 1722, 1732, 1750—Tone	926T	2.50
1710	928	1.50
1711, 7090	931	1.50
	933	1.50

Manufacturer	Control No.	List Price
Sears-Roebuck—(Cont.)		
1711-A, 1744, 1745, 1850, 1850-A, 1851, 1852, 1853, 1862, 1868, 1868-A, 1870, 1922, 1932, 1982, 1992, 7090-A	270W	$1.00
1721, 1722, 1732	924T	2.50
1722-X, 1726-X, 1732-X	2627T	2.50
1725, 1750—Tone	934P	2.00
1728-A, 7057 (by Capitol), 7058 (by Capitol), 7110, 7126, 7130, 7135, 7152, 7165, 7166, 7176	998	1.00
1729, 7080	894	1.50
1804, 1805, 1820, 1826	2558P	2.00
1857-A, 1936-A	278	1.00
1905, 1915, 1955, 1965	2575	1.50
1918-A, 1945, 1968-A	2577	1.50
1919 (Late), 1929 (Late), 1947 (Late), 1948 (Late), 1982 (Late), 1999	2597	1.50
1919 (Early), 1922-A, 1929 (Early), 1932-A (Early), 1947 (Early), 1948 (Early), 1982-A (Early), 1922-A—Notched Shaft	2574	1.50
1920, 1926, 1928, 1978, 1980, 1980-A	2580	1.50
1921	2581	1.50
1923, 1933, 1936, 1983, 1993, 1996	2578	1.50
1923, 1933, 1983, 1993—Tone	2588	1.50
1933-A, 1943, 1983-A	2599	1.50
1946	2596	1.50
1967-A	2576	1.50
1986, 1987, 4403, 4463, 4464, 4484, 4563, 4564, 4584 (Early)	M2603P	2.00
1986, 1987, 4403, 4429, 4449, 4463, 4464, 4484, 4529, 4549, 4563, 4564, 4584—Late	M2606P	2.00
1986, 1987, 4403, 4404, 4405, 4406, 4407, 4410, 4411, 4424, 4425, 4428, 4444, 4445, 4448, 4463, 4464, 4484, 4524, 4525, 4528, 4544, 4545, 4548, 4563, 4564, 4584—Tone	M2604	1.50
1988, 4401, 4402, 4461, 4462	M2605	1.50
1989, 4408, 4420	2611P	2.00
1999	2598	1.50
4106, Meteor H	1812TP	3.00
4400	M2621	1.50
4400-A	M2622	1.50
4404, 4405, 4406, 4407, 4410, 4411, 4424, 4425, 4428, 4444, 4445, 4448, 4524, 4525, 4528, 4544, 4545, 4548	M2610P	2.00
4409, 4413, 4442, 4443, 4522, 4523, 4542, 4543	2602P	2.00
4414, 4415, 4500, 4501, 4502, 4503, 4504, 4505, 4506	2601P	2.00
4426, 4427, 4446, 4447, 4450, 4526, 4546, 4550	2609	1.50
4465, 4485, 4565, 4585	2607P	2.00
4486, 4586	2608P	2.00
7003	276W	1.00
7043, 7044, 7045, 7046, 7047, 7049, 7172, 7172-X—Tone	242AS	1.50
7049—add 230-W Grid Resistor	277W	1.00
7050	2113P	2.00
7051	995W	1.00
7073, 7074, 7075, 7076, 7077, 7078, 7091, 7092, 7093, 7094	927P	2.00
7119, 7120, 7170, 7170-A	208	1.00
7171	2619P	2.00
7181, 7182	2620P	2.00
Auto Set	M2522P	2.00
FF, J	996	1.00
H Silvertone	2670P	2.00
Sparton		
5, 9	361P	2.00
10	360P	2.00
15	359P	2.00
25, 26	358P	2.00
110, 301, 101, 103 (Phono), 109, 930, 931, 79-A, 69, 591, 593, 89	357	1.50

Manufacturer	Control No.	List Price
Sparton—Cont.		
103, 589, 570, 740, 750, 564, 600, 610, 620, 737, 574, 870, 111A	655	$1.50
410, 420, 430, 750-D, 600-A, 610-A, 620-A	1717TP	3.00
41	241	1.00
63	2669	1.50
Stewart-Warner		
R-100-E, R-100-A, R-100-B, 950-AC	298	1.50
R-104-A, R-104-B, R-104-E	612	1.50
R-106-A	611P	2.00
109 (Series), R-110, R-110-E	682P	2.00
R-111	913P	2.00
R-100-C, 950-DC, 970, 980 Batt	1759T	2.50
Stromberg-Carlson		
635, 636, Short Shaft	32	1.50
635, 636, 638, Double Shaft	1437	1.50
846, 848, Double Shaft	1684	1.50
846, 848, Long Shaft	31	1.50
641, 642, 652, 654: Rear Unit	31	1.50
641, 642, 652, 654: Panel Unit	1436	1.50
638, Long Shaft	372	1.50
22, 24	484	1.50
37	803T	2.50
38, 39, 40	1872TP	3.00
645-DC, Double Shaft	1878	1.50
48, 49, 50, 51	800T	2.50
52, 54	801T	2.50
U. S. Radio and Television		
Case 80, Apex 36, 37, 50, 60, 90	201	1.00
Apex 31, 33, 30, 32, 49, 20, 99 Series	240	1.00
Gloriatone Early 27	276W	1.00
Gloriatone 28, Apex 41, 43, 46, 47, 42, 44, 48, 48-A	274W	1.00
8 Series, 10 Series	206	1.00
Gloriatone 26-P	677P	1.50
Gloriatone Late 27	678P	2.00
Zenith		
11, 12, 14, 15, 16, 17, 33, 34, 34-P, 35, 35-A, 35-APX, 35-PX, 37-A, 39, 39-A, 40-A, 41, 42, 55, 333, 342, 342-P, 352, 352-A, 352-APX, 352-PX, 353, 362, 392, 392-A, 422	771TP	3.00
50 (Early), 52, 53, 54, 57, 60 (Early), 61, 62, 64, 67, 70 (Single), 102 (Single), 212, 522, 532, 542, 602, 613, 622, 642, 672	205P	2.00
50 (Late), 60 (Late), 70 (Dual), 71, 72, 73, 77, 712 (Dual), 722, 732, 772	1434TP	3.00

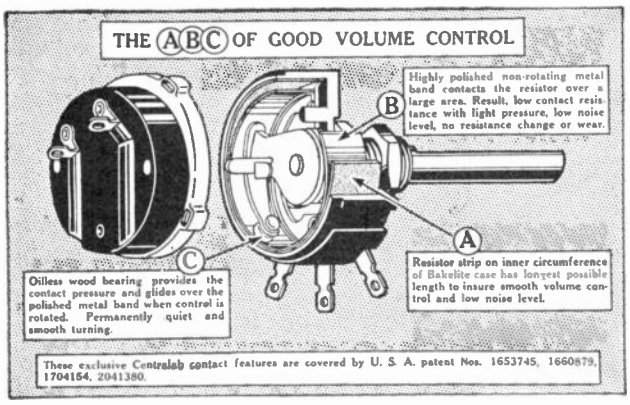
ELECTRAD 1937 VOLUME CONTROL GUIDE—FREE



A 100-page alphabetical listing of all radio sets for which Electrad Standard or Replacement Controls are made. Contains manufacturer's name, model number of set, resistance value of control, and list price.

This 6¼"x9¼" book is sent without charge to professional servicemen only. To obtain your copy, mail the flap of a carton of any Electrad Control to Electrad, Inc., 175 Varick St., New York, N. Y.

Centralab
Controls • Resistors • Selector Switches



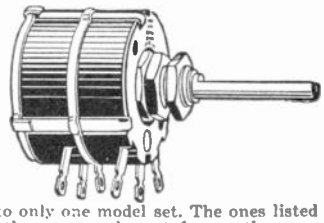
Case diameter 1⅜". Depth 9/16". Soft aluminum shaft 2¼" long, milled flat. May be cut to exact length needed.

Catalog Number Without Switch	Number 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	5000	1
70-204	52-204	Antenna Shunt	5000	6
72-139	62-139	Voltage Divider	7500	1
72-114	62-114	Antenna, C-bias	10000	1
72-113	62-113	Antenna, C-bias of One Tube	10000	3
70-205	52-205	Antenna, C-bias of Two Tubes	10000	4
72-100	62-100	Antenna Shunt	10000	6
72-115	62-115	Antenna, C-bias	15000	3
79-006	99-006	Antenna, C-bias	15000	4
72-119	62-119	Antenna, C-bias	20000	3
72-111	62-111	Voltage Divider	25000	1
70-206	52-206	C-bias	25000	4
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
72-136	62-136	Audio Grid or Tone	150000	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
72-138	62-138	Tapped Audio Grid	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
72-140	62-140	Audio Grid or Tone	750000	6
72-116	62-116	Audio Grid or Tone	1 Meg.	6
72-135	62-135	Tapped Audio Grid	1 Meg.	6
72-137	62-137	Audio Grid or Tone	2 Megs.	6
72-132	62-132	Audio Grid or Tone	3 Megs.	6

STANDARD RADIOHM (Less Switch) ..... List $1.00

STANDARD RADIOHM (With Switch) ..... List $1.50

TWIN REPLACEMENT CONTROLS



Two resistances completely insulated from each other and from the shaft and bushing.
There are so many possible combinations in Twin Controls that most replacements are adapted to only one model set. The ones listed are the most popular and the ones used most frequently.

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

4010805—Both Bases ..... 100,000 Ohms
4010807—Both Bases ..... 250,000 Ohms
4010804—Both Bases ..... 500,000 Ohms
List Price **$2.50**

COMMERCIAL "L" PAD

10-Watt



Suitable for output circuits where the power is not more than 10 watts. Generally used as a voice-coil control for Dynamic Speakers. When used in multiple circuits the unit gives a constant impedance, and thus does not affect the adjustment of other sections of the circuit. The wire-wound resistance units permit maximum power-rating. Diameter 3½". Depth 2".

Part No.	Resistance in Ohms	Part No.	Resistance in Ohms
94-001	15	94-004	200
		94-005	500

List Price **$5.00**

CONSTANT IMPEDANCE "T" PAD



Containing 2 wire-wound sections, gives constant resistance to the input and output circuits. A tapered graphite section gives even attenuation of volume level. Dust and moisture-proof case. Furnished with Bakelite knob. Shipping weight 8 oz.

Part No.	Ohms	Part No.	Ohms
93-003	200	93-002	500

List Price, Each **$7.00**

POWER RHEOSTATS

Maximum dissipation by complete air circulation. Core and frame is all metal insulated with treated asbestos. Black bakelite knob. Bushing ⅜" x ½" long. Shaft ¼" x ½" long. Resistance strip 2" diameter.

25 WATTS

Part No.	Resistance in Ohms
48-002	2
48-006	6
48-150	150
48-400	400
48-810	1000
48-850	5000

List Price, Each **$2.00**

GIANT—50 WATTS

Part No.	Resistance in Ohms
48-851	5000

List Price, Each **$2.75**

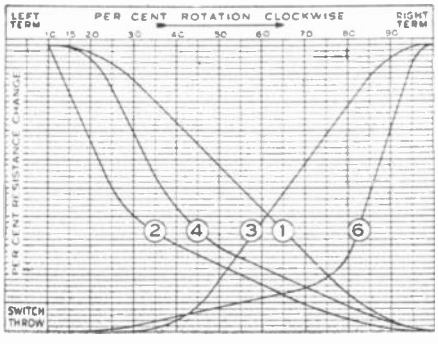
GIANT—75 WATTS

Part No.	Resistance in Ohms
47-277	50
47-278	150
47-279	300
47-280	500
47-281	1000

List Price, Each **$3.00**

STANDARD RESISTANCE CURVE CHART

Every Centralab Control is made to a particular curve that is numbered and charted on the right. 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: maximum volume is indicated at the right. The figures at the top show percentage of clockwise rotation. The usual application of the curves are as follows: (1) Voltage divider with uniform resistance change. (2) "C" bias rheostat. (3) Antenna and "C" bias of one tube. (4) Antenna and "C" bias of two tubes. (6) Audio grid, antenna shunt, or tone control. When ordering volume controls refer to this chart to obtain the proper one for your needs.



SENIOR GAIN CONTROLS



Dust-proof case and fully insulated shaft and bushing are used. Control gives a uniform attenuation for audio amplifiers. Case 2¾" x 1⅝". Bushing ⅜" x ¾" long. Shaft ¼" x ⅞". Complete with dial and knob.

Part No.	Ohms	Attenuation
1-010-850	1,000,000	50 Db.
1-010-851	500,000	50 Db.

List Price, Each **$5.00**

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Centralab Special Replacement Controls

Exact duplicates of the original in mehanical and resistance specifications, but not necessarily in appearance

Some model radio receivers require controls with dual resistances or special mechanical requirements, and these are listed as special controls. Other receivers, such as Philco, Majestic and RCA have had such wide spread distribution that controls especially made for them are preferred by the service man.

These are also listed under Centralab Special Replacements although a standard replacement will frequently answer the purpose equally well by simply cutting the shaft to proper length. Where either a special or standard replacement may be used, both are listed in Centralab's 1936 Guide.

Make and Model No.	Part No.	Price
All American 70, 73-75	70-501	$2.50
All American B-80	74-548	2.50
All American Model "D" Twin	5011911	3.00
Allied Radio Corp. S. G. 9	75-525	3.00
Allied Radio Corp. S. G. 10	82-028	2.00
American Bosch 28, 29	72-207	1.50
American Bosch 48, 49, 48AA Late	74-510	2.50
American Bosch 58, 62	72-167	1.50
American Bosch 54 DC	74-557	2.50
American Bosch 60, 61, 63	72-166	1.50
American Bosch 48, 49 Early	74-501	2.50
Atwater Kent Co. 37, 38, 40, 41, 42, 43, 44, 45, 47, 52, 53	72-112	1.50
Atwater Kent Early L-1, L-2, F, P	1010902	2.50
Atwater Kent Co. Late F Series, L2, P, 75, Q2	74-521	2.50
Atwater Kent Co. 80, 83	2011305	2.00
Atwater Kent Co. 636	51-122	1.50
Atwater Kent 61, 61C, H-1, H-2, 72	25-426	2.50
Belmont Radio Corp., 104	1210007	1.50
Belmont Radio Corp., 880 Auto	2011338	2.00
Belmont Radio Corp., 541	2211004	2.00
Belmont Radio Corp., 640	2211011	2.00
Belmont Radio Corp., 555	2211018	2.00
Belmont Radio Corp., 755	2211019	2.00
Belmont Radio Corp., 775	2211020	2.00
Belmont Radio Corp., 1070	2211022	2.00
Bremer-Tully, 7-70, 7-71	72-169	1.50
Brunswick-Balke 10, Midget	55-004	2.00
Bulova Watch Co., M-501	55-004	2.00
Bulova Watch Co., Clock Model	55-010	2.00
Canadian Westinghouse 80	74-524	2.50
Canadian Westinghouse 71 Early	74-558	2.50
Colonial Radio S.G.-32 AC	25-417	2.50
Columbia Radio C-31-101	55-001	2.00
Columbia Screen Grid 8-10 Oxford Chromotrope	82-028	2.00
Crosley Radio Corp. 41-A, 42, 61, 602, 608, 609, 610, 704, 705, 706	51-037	1.50
Crosley Radio Corp. 10S, 11S, 42S, 82S, 71A	70-503	2.50
Crosley Radio Corp. 27, 28, 30-31, 33, 34, 40, 41, 42, 82-S, 315	72-019	1.50
Crosley Radio Corp. 55, 126	72-055	1.50
Crosley Radio Corp. 75, 76DC, 77	72-047	1.50
Crosley Radio Corp. 113-1	2013901	2.00
Crosley Radio Corp. 10S, 11S, 42S, 82S, 71A. Late Models	74-511	2.50
Crosley 128	2115900	2.00
Crosley 124, 125	2111905	2.00
Crosley Radio Corp., 84	72-048	1.50
Crosley Radio Corp., 804 Spec	1010987	1.50
Earl Radio 21, 22 AC	25-416	2.50
Earl Radio 271	76-006	2.50
Earl Radio Mfg. 31, 32S, 33, 315, 317	74-506	2.50
Edison Radio C-1, C-2, R1, R2, SRC3, M-5-6 Front	24-008	1.50
Edison Radio C-1, C-2, R1, R2, SRC3, M-5-6 Rear	26-021	1.50
Edison Radio C-4, R4, R5, R6, R7, R12, Abbey Jr.	74-512	2.50
Edison Radio R6, R7, Early Model	64-306	2.50
Edison Radio Phono. Comb., 8-P	76-003	2.50
Electrical Research 14A, 27A	5011007	3.00
Emerson Radio & Phono. Corp., D-85, 39-59 Twin, AC & DC	5011910	3.00
Emerson Radio & Phono. Corp. F6D	5015001	3.00
"Erla," Electrical Research 225, 271, 271-A	75-506	3.00
Fada Radio & Electric Co. 30, 30A, 31, 10, 11	70-017	1.50
Fada Radio & Electric Co. 50, 70, 71, 72	70-059	1.50
Fada Radio & Electric Co. 25, 15M, 15MZ	79-019	1.50
Fada Radio & Electric Co. 16, 17, 32, 18DC	72-001	1.50
Fada Radio & Electric Co., 35, 35Z, 75, 77	72-168	1.50
Fada Radio & Electric Co. 35B, 10 AC, 35C	74-513	2.50
Fada Radio & Electric Co 43, 762, KF, KG	74-511	2.50
Fada Radio & Electric Co. 35B, Wire wound	76-007	2.50
Fada Radio & Electric Motor set	2011315	2.00
Federal Radio Corp. L	74-514	2.50
Freed-Eiseman Radio NR-90S, 657, 879	74-506	2.50
Freed-Eisemann Radio Corp., NR55, 56	25-416	2.50
Freshman Radio 3Q, 15, 16, N12, 17, 2M, QD, 16-S	11-200	1.50
Freshman Radio 21, AC, 32	25-416	2.50
Galvin Motorola K-40	70-036	1.50
General Electric T-41, RC3	74-526	2.50
General Electric J-80, J-85, S-132, K-62, K-82	1210900	1.50
General Electric B-1	72-013	1.50
General Electric 106	1220002	1.50
General Electric M51, M56	2211903	2.00
General Electric Co., J-125 Twin	1210900	2.50
General Motors A, B, 150, 160	74-514	2.50
General Motors A, B, 150, 160, 1001 (Tone)	70-019	1.50
General Motors 1001, 160	74-517	$2.50
General Motors R-1-A (Converter) 281	74-552	2.50
General Motors Radio Corp. S-1A	52-011	2.00
General Motors, 18, 110, 120A, 130, 140, 180, 190 Above serial 29M	74-535	2.50
General Motors Radio Corp., 110, 120, 130 Twin Late Series	74-539	2.50
General Household Utilities Co., Chassis 11-C	1210010	1.50
General Household 580, 581, 640, 641, 680, 681, Chassis 5G, 6G, 6J	2211906	2.00
General Household Utilities Co., 901, 902, 8A, 9A	2211905	2.00
General Household 660, Chassis 6A, 6C, 650, 651, 661, 662	2211901	2.00
General Household 620, 621, 720, 721, Chassis 6HB, 7DB	2015900	2.00
General Household 750, 751, 752, 753, 7B	2211902	2.00
General Household 1241, Chassis 12A	1210010	1.50
Goodrich Silvertown Tire & Rubber Co. "Mantola"	55-003	2.00
Graybar Eectric Co. 678	74-526	2.50
Graybar Electric Co. 989	1210900	1.50
Grebe A. H. Early SK4, AC	74-515	2.50
Grigsby-Grunow—See Majestic		
Howard Radio Co., "M"	72-185	1.50
Howard Radio Co., 846, 1846	1010557	1.50
Howard Radio Co., 99	2011409	2.00
Jackson Bell Jewell 547	55-014	2.00
Jesse French & Sons G, Jr. H-1	75-507	3.00
Kennedy, Colin B. 12 S.G., 10, 20	76-008	2.50
Kimball K	74-513	2.50
King Mfg. Co. 109, 109P	51-001	1.50
Kingston Products Co., 4 T Batt., 100, 100A Coronado	1010220	1.50
Kolster Radio Corp., K42 to 45	76-006	2.50
Kolster Radio Corp. 930 Phono. Comb.	75-525	3.00
Lincoln Radio Corp. S. W. 33	74-576	2.50
Majestic (Grigsby-Grunow) 70, 70-B, 71, 72	72-180	1.50
Majestic (Grigsby-Grunow) 180, 181 Combination	74-561	2.50
Majestic (Grigsby-Grunow) 90, 90-B, 91, 92 93 Volume	70-063	1.50
Majestic (Grigsby-Grunow) 90, 90-B, 100 100-B, 91, 92, 101, 103 Equalizer	78-007	1.50
Majestic (Grigsby-Grunow) 100, 101 Combination	74-562	2.50
Majestic (Grigsby-Grunow) 100-B, 102, 103	25-421	2.50
Majestic (Grigsby-Grunow) 130-A, 130, 131 132	72-181	1.50
Majestic (Grigsby-Grunow) 50, 51, 52	74-523	2.50
Majestic (Grigsby-Grunow) 30, 31, 230-A	75-537	3.00
Majestic (Grigsby-Grunow) 20, 21, 22, 23	2011908	2.00
Majestic (Grigsby-Grunow) 60, 160, 61, 62, 163	72-073	1.50
Majestic (Grigsby-Grunow) 15, 150, 151, 153, 154, 156	55-010	2.00
Majestic (Grigsby-Grunow) 15-B	55-010	2.00
Majestic (Grigsby-Grunow) 155	55-010	2.00
Majestic (Grigsby-Grunow) 15, 55, 150 Tone, 56, 57, 58	11-060	1.50
Majestic (Grigsby-Grunow) 25, 251, 253, 254, Early (Tone) 25B, 251B, 253B, 254B	11-065	1.50
Majestic (Grigsby-Grunow) 25-B, 251-B, 253-B, 254-B, 35, 351, 353	2011910	2.00
Majestic (Grigsby-Grunow) 35, 351, 353 (Tone)	11-085	1.50
Majestic (Grigsby-Grunow) 55, 56, 57, 58	55-010	2.00
Majestic (Grigsby-Grunow) 200, 201, 203, 204	72-156	1.50
Majestic (Grigsby-Grunow) 210, 211, 214, 215	72-155	1.50
Majestic (Grigsby-Grunow) 220, 221, 223	72-163	1.50
Majestic (Grigsby-Grunow) 260	62-064	2.00
Majestic (Grigsby-Grunow) 290, 300, 300-A, 310-A, 310-B, 77, 291, 293, 294, 303, 304, 307, 311, 314, 315, 321, 336	1010961	1.50
Majestic (Grigsby-Grunow) 290, 310-A, 310-B, 291, 293, 294, 311, 314, 315 (Tone)	33-015	2.00
Majestic (Grigsby-Grunow) 300, 300-A, 320, 330, 77, 303, 304, 307, 321, 321, 336 (Tone)	33-036	2.00
Majestic (Grigsby-Grunow) 340, 360, 390, 344, 363, 393	51-123	1.50
Majestic (Grigsby-Grunow) 370, 371, 373	2112901	2.00

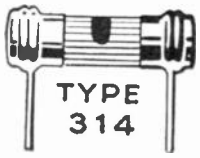
Make and Model No.	Part No.	Price
Majestic (Grigsby-Grunow) 380, 381	2111906	$2.00
Majestic (Grigsby-Grunow) 400, 411, 411-A, 413, 413-A	37-006	2.00
Majestic (Grigsby-Grunow) 120, 121	74-548	2.50
Majestic (Grigsby-Grunow) 120-B, 123	74-558	2.50
Majestic (Grigsby-Grunow) 110, Auto	72-088	1.50
Majestic (Grigsby-Grunow) 111, Auto	30-017	1.50
Majestic (Grigsby-Grunow) 116, Auto	28-016	1.50
Majestic (Grigsby-Grunow) 66, Auto	2011093	2.00
Majestic (Grigsby-Grunow) 66 (Tone), Auto	1010111	1.50
Majestic (Grigsby-Grunow) 440	2111037	2.00
Majestic (Grigsby-Grunow) 460	1010962	1.50
Majestic (Grigsby-Grunow) 460 (Tone)	2012900	2.00
Majestic (Grigsby-Grunow) 490	1010107	1.50
Majestic (Grigsby-Grunow) 500	2012901	2.00
Majestic (Grigsby-Grunow) 570 (Tone)	2012020	2.00
Majestic (Grigsby-Grunow) 600	33-129	2.00
Majestic (Grigsby-Grunow) 800	1010965	1.50
Majestic (Grigsby-Grunow) 800 (Tone)	2011912	2.00
Majestic (Grigsby-Grunow) 118 Ford	1010983	1.50
Majestic 25, 251, 253, 254 Early	55-014	2.00
Montgomery-Ward & Co. AE-10	74-509	2.50
Montgomery Ward & Co. Monarch, Air Line	79-014	1.50
Montgomery Ward & Co., 1711	62-010	2.00
Montgomery Ward 07A, 62-103-105	1010033	1.50
Montgomery Ward & Co., 62-187	5011001	3.00
Montgomery Ward & Co., 197 Triple	7011001	3.00
Montgomery-Ward Co. 77, 95, 62-120	306-002	2.00
Montgomery Ward & Company 2955	25-423	2.50
National Carbon Co. 50 Series	74-503	2.50
Philco 14, 49	2221900	2.00
Philco 15, Late, 91	1210907	1.50
Philco 15 Early	1010979	1.50
Philco 16	2211900	2.00
Philco 17	2221903	2.00
Philco 18, 118	2221900	2.00
Philco 19 Vol., Late	1210906	1.50
Philco 20, 21, 41 DC, 42 DC, 77	74-579	2.50
Philco 35, 36 (Batt.)	1010907	2.50
Philco 30, 96, 111, 111A, 112, 112A	72-177	1.50
Philco 37 (Batt.)	74-557	2.50
Philco 38, 38A (Batt.)	1010980	1.50
Philco 39	2025900	2.00
Philco 70 Lazy "X," 370	75-544	3.60
Philco (40) (D.C.)	1010977	1.50
Philco 43	2021908	2.00
Philco 44, 118	2021907	2.00
Philco 46 (D.C.)	74-560	2.50
Philco 47 (D.C.) 71	51-095	1.50
Philco 48 (D.C.) 51, 51A, 52	51-076	1.50
Philco 50, 50A	74-559	2.50
Philco 53	2021904	2.00
Philco 54	2011911	2.00
Philco 57	2021905	2.00
Philco 60, 261	2021001	2.00
Philco 65	1010978	1.50
Philco 66	2021001	2.00
Philco 70, 90 (2-47's)	1010975	1.50
Philco 70, 90 (2-45's), 470, 70A	74-579	2.50
Philco 76	1010982	1.50
Philco 80	2021906	2.00
Philco 81, 81A	1020903	1.50
Philco 84, 84B	2021909	2.00
Philco 86, 87, 511	24-016	1.50
Philco 89, 19 Early	2011921	2.00
Philco 89 Late	1020904	1.50
Philco 89, with Switch Type Control	2021911	2.00
Philco 90 (1-47), 490	1010976	1.50
Philco 91	1010981	1.50
Philco 95	24-264	1.50
Philco 116B (Code 121), 201, 16	2221906	2.00
Philco 116X (Code 122), 660	2221908	2.00
Philco 144	2221902	2.00
Philco 29, 45, 28	2221901	2.00
Philco 200, 201	2221910	2.00
Philco Ford Car Radio N. G. 122	2221904	2.00
Philco "G" Dodge Car Radio	2011922	2.00
Philco 805 Car Radio	1010988	1.50
Philco 806, 809 Car Radio	1010989	1.50
Philco 610	2021910	2.00
Philco 611 AC-DC	2011923	2.00
Philco 620, 630	2221905	2.00
Philco 640	2221909	2.00
Philco 650	2221907	2.00
Philco 623 (Batt.)	2015901	2.00
Philco 641	2211908	2.00
Philco 643	2225900	2.00
Philco 700	1020906	1.50
Philco 800 (Code 122), 802 Car Radio	2211907	2.00
Philco 808 Car Radio	1210915	1.50
Pilot Radio & Tube Corp. K-117	74-526	2.50
Pilot Radio & Tube Corp., 210 Series	2011423	2.00
Pilot Radio & Tube Corp., 360 Series	5011011	3.00
R.C.A. Victor R-37P, 38P, 120, 140, 141, 141E, 240, AVR-1, 330, 331	1210901	1.50
R.C.A. Victor RC-78A, R7, R-9, RAE-84	1210902	1.50
R.C.A. Victor RC-78 Twin	4220900	3.00
R.C.A. Victor R-32, RE-45, 52, 75, 145	74-600	2.50
R.C.A. Victor 21, 22	72-013	1.50
R.C.A. Victor 4 Circuit RC3, 48, R15, RE16, RE17, R42, R48	74-526	2.50
R.C.A. Victor RE-57, RE-73, R-14, RE-34, 42	74-524	2.50
R.C.A. Victor R-8, R-12, R-11, R-26, R-10, RE-18, RE-18A, RE-19, R-21, R-37, R-38	1210900	1.50
R.C.A. Victor M-143, M-242, M-243, M-226	1210006	1.50
R.C.A. Victor 262	1220002	$1.50
R.C.A. Victor 119, 125	2211014	2.00
R.C.A. Victor 118, 211	2211903	2.00
R.C.A. Victor R-90-P, 261, 380	2211904	2.00
R.C.A. Victor C6-2, C7-6, C8-15, C8-19, C8-20, C9-4, D7-7, D9-19, T6-1, T6-7, T6-8, T7-5, T8-14, T8-18, T9-10	1210912	1.50
R.C.A. Victor C11-1, C11-3, C13-2, D11-2, T10-1	1210913	1.50
R.C.A. Victor C15-3, C15-4, D22-1	1210914	1.50
Rogers Majestic 15	41-060	1.50
Rogers Majestic 15	55-010	2.00
Rogers Majestic 25	55-014	2.00
Scott Transformer Co. DeLuxe A. V. C. Super	1210901	1.50
Sears Roebuck & Co., 1506	55-039	2.00
Sears, Roebuck & Co., 1721, 1722, 1732, 1721X, 1722X, 1732X	4010943	2.50
Silver-Marshall Masterpiece "Q"	1210911	1.50
Silver-Marshall "Y," "X"	33-003	2.00
Sparks-Withington (Sparton) 750D, 870, 69, 79-A, 101, 110AC, 301, 589, 591, 593, 930, 931	1010963	1.50
Sparton 89-A, 111-A, 561, 570, 574, 600, 610, 620, 737, 740, 870	1010964	1.50
Sparton 410-20-30	75-543	3.00
Splitdorf—See Edison		
Sterling Radio F-1-60, 8 Tube, G	75-507	3.00
Stewart-Warner Corp., 900 Series	28-031	1.50
Stewart-Warner Corp. R-100 Series, 950, 935, 110 Series	30-010	1.50
Stewart-Warner 950 DC	4010901	2.50
Stewart-Warner Corp., 126A, ALL-WAVE	1210003	1.50
Stromberg-Carlson Tele. 635, 636 Rear	72-161	1.50
Stromberg-Carlson Tele. 635 636 Panel	72-162	1.50
Stromberg-Carlson Tele. 641, 42, 52, 54 Rear	72-159	1.50
Stromberg-Carlson Tele. 641, 42, 52, 54 Panel	72-160	1.50
Stromberg-Carlson Tele. 846, 848 Rear	72-205	1.50
Stromberg-Carlson Tele. 846, 848 Panel	72-206	1.50
Stromberg-Carlson Tele. 12, 14	72-042	1.50
Stromberg-Carlson Tele. 638 Rear	72-210	1.50
Stromberg-Carlson Tele. 638 Panel	72-209	1.50
Stromberg-Carlson Tele. 38, 39, 40	75-545	3.00
Stromberg-Carlson 48, 49, 50, 51	74-580	2.50
Temple Corp. 8-61-81-91, 5-55	74-515	2.50
Transformer Corp. 40, 100, G-102	55-004	2.00
Transformer Corp. 300, 340	306-001	2.00
Transformer Corp. AC-220, 25-220	51-084	1.50
Wells-Gardner (Gulbransen) 9-in-line Early	78-005	1.50
Wells-Gardner (Gulbransen) WG24, 291, CG, 9-in-line, Club, Late	74-509	2.50
Wells-Gardner (Gulbransen) 80-8 Tube	25-423	2.50
Wells-Gardner (Gulbransen) 10- 13, Series, Phono. 237J	55-005	2.00
Wells-Gardner (Gulbransen) 5 Tube DC, 90DC Series	74-555	2.50
Wells-Gardner (Gulbransen) 022, 122 Vol.	72-174	1.50
Wells-Gardner (Gulbransen) 022, 122 N.S.	51-058	1.50
Wells-Gardner (Gulbransen) 06A, 5E Series	303-002	2.00
Wells-Gardner (Gulbransen) 00A, 10A, Tone	41-148	1.50
Wells-Gardner (Gulbransen) 17A, WG24, 07A Series	1010033	1.50
Wells-Gardner & Co., 27A	2011010	2.00
Wells-Gardner & Co., 20B	2011059	2.00
Wells-Gardner & Co., 6 U Auto	2011125	2.00
Wells-Gardner & Co., 56T1, 56T2, 56T3	2011330	2.00
Wells-Gardner & Co., 5G	2215001	2.00
Wells-Gardner & Co., OD, 2C, 7G	5011005	3.00
Wells-Gardner & Co., 6T Triple	7011001	3.00
Wells-Gardner & Co., 6R, 8S, Cadillac (Car Radio)	9011005	2.00
Wells-Gardner & Co., 6Q	9011074	2.00
Wells-Gardner & Co., 60, 63, 72, 360	79-014	1.50
Wells-Gardner & Co., 10A, 20A, 30A	1010012	1.50
Westinghouse Electric WR-4	74-526	2.50
Westinghouse Electric WR-2	72-013	1.50
Westinghouse Electric & Mfg. Co., WR-15	1210900	1.50
Zenith Radio 50, 60, 70-1-2-3-7, 712-22-32-72, 70 Series 41, 42, 412, 422	75-614	3.00
Zenith Radio 52, 53, 54, 57, 522-32-42, 70, 102, 112, 212, 11, 12	62-042	2.00
Zenith Radio 2017	75-503	3.00
Zenith Radio Corp. 35, 730	306-002	2.00
Zenith 740 (Tone)	41-148	1.50
Zenith Radio Corp., 205-7-H, Hudson and Essex Car Radio	1010086	1.50
Zenith Radio Corp., 5903	1010358	1.50
Zenith Radio Corp., 1601	1010447	1.50
Zenith Radio Corp., 2057-H, Hudson & Essex Car Radio	2011075	2.00
Zenith Radio-Ford Car Radio	2011113	2.00
Zenith Radio Corp., 860, 5617	2011242	2.00
Zenith Radio Corp., 5510	2011301	2.00
Zenith Radio Corp., 5619	2011344	2.00
Zenith Radio Corp., 5903-A, 5904	2015002	2.00
Zenith Radio Corp., 5704-A	2015026	2.00
Zenith Radio Corp., 5619A	2015027	2.00
Zenith Radio Corp., 5309, 95-54, 9 Tube	2211017	2.00

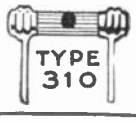
See the Centralab Volume Guide for Details of these and other Replacement Controls

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Centralab
Controls · Resistors · Selector Switches







CENTRALAB CARBON RESISTORS

Resistance in Ohms

100	1,500	14,000	125,000
200	2,000	15,000	150,000
300	2,500	17,000	200,000
400	3,000	20,000	250,000
500	3,500	25,000	300,000
600	4,000	30,000	400,000
750	5,000	40,000	500,000
800	6,000	45,000	750,000
900	7,500	50,000	1 Meg.
1,000	8,000	55,000	1.5 Meg.
1,100	9,000	60,000	2 Meg.
1,200	10,000	70,000	3 Meg.
1,300	12,000	75,000	4 Meg.
1,400	13,000	100,000	5 Meg.

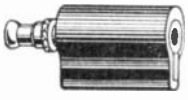
All resistances have flexible wire leads 1½" long, and are R.M.A. color-coded. Types 316 and 314 individually labeled and packed in cartons of ten.

Type 316—Resistor, size ¼" x 1¾", rating 1 to 1½ watts..... $0.20

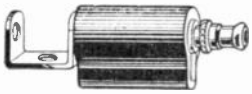
Type 314—Resistor, size ¼"x1", rating ½ to 1 watt ..... .18

Type 310—Resistor, size ⅛" x ⅝", rating ¼ to ½ watt ..... .15

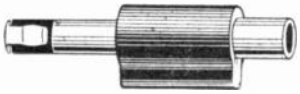
MOTOR RADIO SPARK NOISE SUPPRESSORS



No. 327



No. 307



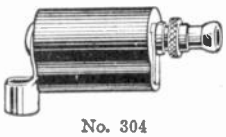
No. 329

Centralab Suppressors insure top efficiency for both the radio and the motor. They are designed with long resistors and minimum capacity, they have the best possible ratio of R.F. to D.C. resistance. A resistance of only 10,000 ohms gives adequate noise suppression, and this low D.C. resistance insures full motor efficiency. Mechanically they are very strong, and will withstand high voltage, heat, vibration, and all kinds of weather.

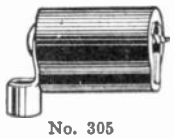
Suppressor design is simple enough when only radio is considered, but to design one that will permanently maintain full motor efficiency along with good radio reception is a difficult problem.

Every motor ignition spark is followed by a train of radio frequency waves. Resistances of proper value located at the plugs and the common distributor cable damp these waves so they do not radiate.

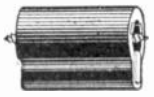
Part No.		List Price
327	Screw on plug type. Will fit most popular cars	$ .30
307	Bracket type. For older types of cars	.30
329	Distributor type. Placed in series with center distributor cable	.30
304	Snap on plug type. Snaps on plug at any desired angle	.30
305	Snap on plug cable end type. Replaces regular cable end	.30
338	Cable type. To be inserted in cable near spark plug	.30



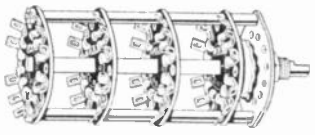
No. 304



No. 305



No. 338





ASSEMBLED SELECTOR SWITCHES

Part Number Shorting	Part Number Non-Shorting	Gangs	Description Poles	Positions	Price
1400	1401	1	1	2 to 6	$1.15
1402	1403	1	1	2 to 11	1.30
1404	1405	1	2	2 to 5	1.15
1406	1407	1	3	2 to 3	1.30
1408	1409	1	4	2	1.30
1410	1411	2	2	2 to 6	$1.70
1412	1413	2	2	2 to 11	2.00
1414	1415	2	4	2 to 5	1.70
1416	1417	2	6	2 to 3	2.00
1418	1419	2	8	2	2.00
1420	1421	3	3	2 to 6	$2.20
1422	1423	3	3	2 to 11	2.50
1424	1425	3	6	2 to 5	2.20
1426	1427	4	4	2 to 6	$2.75
1428	1429	4	4	2 to 11	3.00
1430	1431	4	8	2 to 5	3.50

For convenience, these Selector Switches are completely assembled and individually carboned. All sections 1⅛" between mounting centers. One inch spacers between sections for 3 and 4 gang switches. One-half inch spacers for two gang. Index spacers ½" in all switches. Standard brass bushing ⅝" diameter x ⅜" long. One-quarter inch diameter steel shaft extends ⅜" from bushing. Brass mounting nut ½" across flats and shakeproof lockwasher supplied on bushing. All switches have adjustable index feature. Supplied with shorting or non-shorting contact teeth.

All Centralab Selector Switches are supplied with an "adjustable stop" index. This permits selection of from two to eleven positions for any Selector Switch. The utility of any given switch is thus increased immensely.

To change the number of available positions it is only necessary to remove the mounting nut and lockwasher. The adjustable stop is then inserted in any one of nine index holes, giving a choice of from two to eleven positions. It is not necessary to disconnect a switch from its circuit if a change is necessary after it is installed. Sufficient clearance from the mounting panel to rotate the stop is the only requirement.



BAR KNOB

Molded in black bakelite. Sturdy construction with square grip for easy turning. 1¼" maximum diameter. Use with dial types listed at the right.

Part No. K120 ..... Price $0.15

DIAL PLATES

When used with bar knob will make any panel attractive. Made of 24 gauge aluminum 1⅞" in diameter. Black background, natural aluminum numerals ⅛" high for easy reading. 30° angle between all numerals agrees with index action of all switches.

Part No.	Numbered	Price
K115	1 to 5	$0.15
K116	1 to 6	.15
K117	1 to 10	.15
K118	1 to 11	.15



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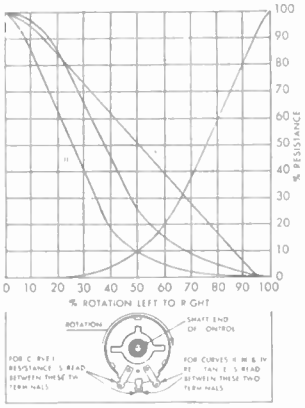
YAXLEY Replacement Volume Controls

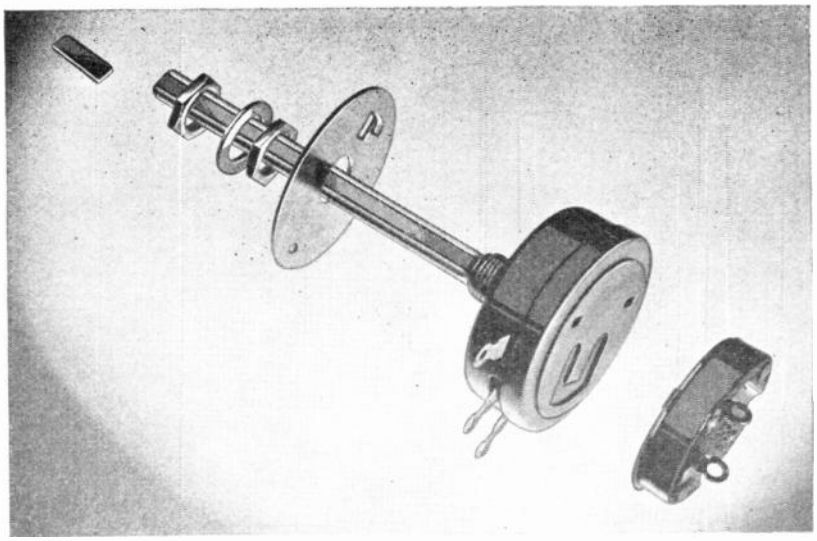


1. "The Roller That Does Not Roll"
2. Pure Silver Shortouts.
3. Silver-to-Silver Contacts.
4. Perfect Contact.



NEW SPRING WEDGE—Yaxley Wire Wound Controls embody a new spring wedge design, which definitely eliminates any possibility of loose terminals. Expansion and contraction due to temperature changes are taken up by this patented spring which holds the element and terminals firmly in place.





Yaxley design incorporates exclusive mechanical features, which have added more to the convenience of the service man than any other replacement control on the market. These features are directly responsible for minimizing the time required for changing volume controls in receivers and in making additional profits for service men.

● Velvety smooth in their silent operation, Yaxley Universal Replacement Volume Controls have all the features that have made Yaxley famous—the three-inch long easily cut aluminum shaft, the attachable switch, rugged assembly with dust-proof case completely enclosing control, high-quality plated finish to protect metal parts, shaft and insert for providing universal mounting of knobs—and all controls are permanently identified as to type, taper and resistance value.

These controls represent the peak of scientific development and are the result of over three years' research. The photographs in the upper left hand corner show exclusive features that contribute to their silent performance.

● "The Roller That Does Not Roll." This exclusive Yaxley contact design maintains a constantly dust-free surface element and is further protected by Yaxley's dust-proof shield. The best type of contactor as recognized by leading metallurgical engineers.

● Pure Silver Shortouts. Used for clean-cut, quick, positive switch action. Assure zero signal before switch action and a never-failing contact between terminals and carbon on the element.

● Silver-to-Silver Contacts. Used between all moving-current carrying parts. Another Yaxley superiority. Silver oxide is a conductor. No trouble will ever be experienced due to oxide insulating films as would be the case with brass or copper.

● Perfect Contact. Yaxley controls have perfect contact between moving arm and carbon element. A true and uniform area of contact is effected on the element at all points.

In addition to the features shown, all Yaxley Universal Carbon Controls incorporate:

● Perfect Smooth Taper controlled by geometric design; no sudden changes in resistance value. Tapers are feather-edged to insure electrical smoothness.

● Highest current-carrying capacity of any carbon control.

● Low humidity coefficient permits satisfactory operation in all climates.

● Long Life—25,000 to 50,000 and over complete cycles, borne out in over three years' testing.

Explanation of Tapers

Yaxley Taper Number 1 is a modified logarithmic left hand taper in the carbon type of control and an approximation to this logarithmic taper in the wire wound type.

This left hand taper should always be used in shunt circuits as in usual antenna and audio circuits, or where only the center and left hand terminals are used.

Yaxley Taper Number 2 is a right hand logarithmic taper in the carbon and an approximation in the wire wound type.

This right hand taper is used in series circuits, as in cathode voltage controls, or where only the center and right hand terminals are used.

Yaxley Taper Number 3 is a combination left and right hand taper. This taper has a limited use in circuits where the control must perform both as a shunt and as a series circuit control as in combination "Antenna shunt plus bias circuits." This is the most common use for such a taper.

Yaxley Taper Number 4 is a linear taper. Strictly it is not a "taper" although commonly referred to as such.

A linear "taper" is used wherever a control should be such that voltage is proportional to the degree of rotation.

Yaxley Taper Number 7 is made only in the wire wound type of control and is a form of left hand taper. This taper is desirable for the "Antenna shunt plus bias control," wherein greater attenuation is obtained by increasing the bias voltage. The slight left taper then suffices to gradually reduce the signal to zero volume by the shunting action in the antenna circuit.

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Replacement Volume Controls

YAXLEY

Yaxley Universal Single Controls

Prices do not include Switch or Accessories.

Ohms Resistance	Taper	General Use	Type Element	Catalog Number	List Price
2	IV	Filament	W.W.	Q	$1.00
6	IV	Filament	W.W.	R	1.00
10	IV	Filament	W.W.	S	1.00
20	IV	Filament	W.W.	T	1.00
30	IV	Filament	W.W.	U	1.00
60	IV	Filament	W.W.	V	1.00
100	IV	Misc.	W.W.	W	1.00
200	IV	Misc.	W.W.	X	1.00
400	IV	Misc.	W.W.	A400P	1.00
500	I	Ant. Shunt	W.W.	A	1.00
550	IV	Bias	W.W.	A550P	1.00
1M	IV	Voltage Divider (Bias)	W.W.	A1MP	1.00
1M	I	Ant. or Pri. Shunt	W.W.	B	1.00
1M	II	Bias	W.W.	UC500	1.00
2M	IV	Voltage Divider (Bias)	W.W.	*A2MP	1.00
2M	I	Ant. or Pri. Shunt	W.W.	*C12	1.00
2M	II	Bias	W.W.	*C	1.00
3M	IV	Voltage Divider	W.W.	*A3MP	1.00
3M	I	Ant. or Pri. Shunt	W.W.	*D12	1.00
3M	II	Bias	W.W.	*D	1.00
3M	VII	Ant.-Bias	W.W.	*D7	1.00
5M	IV	Voltage Divider	W.W.	*A5MP	1.00
5M	IV	Voltage Divider (Bias, Screen)	Carbon	Y5MP	1.00
5M	I	Ant. Shunt or Ant.-Bias	Carbon	E12	1.00
5M	II	Bias	W.W.	*E	1.00
5M	VII	Ant.-Bias	W.W.	*E7	1.00
7500	I	Ant. Shunt or Ant. Bias	Carbon	F12	1.00
7500	II	Bias	W.W.	*F	1.00
7500	VII	Ant.-Bias	W.W.	*F7	1.00
10M	IV	Voltage Divider (Bias, Screen)	W.W.	*A10MP	1.00
10M	IV	Voltage Divider (Bias, Screen)	Carbon	Y10MP	1.00
10M	I	Ant. Shunt or Ant.-Bias, Tone	Carbon	G12	1.00
10M	II	Bias	W.W.	*G	1.00
10M	II	Bias	Carbon	UC501	1.00
10M	VII	Ant.-Bias	W.W.	*G7	1.00
15M	I	Ant. Shunt or Ant.-Bias, Tone	Carbon	H12	1.00
15M	II	Bias	W.W.	*H	$1.00
15M	VII	Ant.-Bias	W.W.	*H7	1.00
20M	IV	Voltage Divider (Bias)	W.W.	*A20MP	1.00
20M	I	Ant. Shunt, Ant.-Bias, Screen	Carbon	Y	1.00
25M	IV	Voltage Divider (Screen)	Carbon	Y25MP	1.00
25M	II	Bias	Carbon	J	1.00
50M	IV	Batt. Bias, Screen	Carbon	Y50MP	1.00
50M	I	Screen Voltage, Tone	Carbon	K12	1.00
50M	II	Bias	Carbon	K	1.00
75M	I	Screen Voltage, Tone	Carbon	Z12	1.00
75M	II	Bias	Carbon	Z	1.00
100M	IV	Voltage Divider (Bias, Screen)	Carbon	Y100MP	1.00
100M	I	RF or AF Shunt, Screen, Tone	Carbon	L	1.00
100M	II	Bias or Ant.-Bias (AC-DC)	Carbon	UC510	1.00
150M	I	Tone, RF or AF Shunt	Carbon	UC502	1.00
200M	IV	Voltage Divider, Misc.	Carbon	Y200MP	1.00
250M	IV	Voltage Divider, Misc.	Carbon	Y250MP	1.00
250M	I	Audio Tone, RF or AF Shunt	Carbon	M	1.00
250M	I	Audio (Automobile)	Carbon	†UC511	1.00
250M	II	Bias, Ant.-Bias (AC-DC)	Carbon	UC509	1.00
500M	IV	Voltage Divider, Misc.	Carbon	Y500MP	1.00
500M	I	Audio, RF or AF Shunt	Carbon	N	1.00
500M	I	Audio (Automobile)	Carbon	†UC512	1.00
500M	I	Audio (Automobile)	Carbon	††UC515	1.00
500M	II	Bias, Ant.-Bias, Bias-Audio	Carbon	UC513	1.00
750M	I	Tone, Audio, Audio Shunt	Carbon	UC503	1.00
1 Meg	IV	Misc.	Carbon	Y1000MP	1.00
1 Meg	I	Audio, Audio Shunt, Tone	Carbon	O	1.00
1 Meg	I	Audio (Automobile)	Carbon	†UC514	1.00
2 Meg	I	Audio, Audio Shunt, Tone	Carbon	P	1.00
3 Meg	I	Audio Shunt, Tone	Carbon	UC504	1.00
4 Meg	I	Tone	Carbon	UC505	1.00
5 Meg	I	Audio Shunt	Carbon	UC506	1.00
5 Meg	II	Series Screen Control	Carbon	UC507	1.00
9 Meg	I	Audio Shunt	Carbon	UC508	1.00

*Has exclusive Yaxley Adjustable Bias Feature. †Has Slotted Shaft for Automobile Receivers.
††Has long, adjustable Slotted Shaft for Automobile Receivers and Special Shaft Coupling. W.W.—Wire Wound Element.

Yaxley Universal Dual Controls

Prices do not include Switch or Accessories.

Ohms Resistance		Taper		Type Element		General Use	Cat. No.	List Price
Front	Rear	Front	Rear	Front	Rear			
2M	5M	I	I	W.W.	W.W.	Ant. Shunt and Bias	CE	$2.50
10M	5M	VII	IV	W.W.	W.W.	Ant. Shunt Bias or Screen	*GE	2.50
10M	10M	VII	IV	W.W.	W.W.	Ant. Shunt Bias or Screen	GG	2.50
10M	50M	I	IV	Carbon	Carbon	Ant. Shunt Bias or Screen	GK	2.50
50M	50M	IV	IV	Carbon	Carbon	Grid Shunt and Cathode Control	†KK	2.50

Ohms Resistance		Taper		Type Element		General Use	Cat. No.	List Price
100M	100M	I	I	Carbon	Carbon	Audio Shunt in Push Pull	LL	$2.50
100M	250M	I	I	Carbon	Carbon	Audio Shunt, Tone, Screen or RF Shunt	LM	2.50
250M	250M	I	I	Carbon	Carbon	Audio Shunt in Push Pull	MM	2.50
250M	500M	I	I	Carbon	Carbon	Audio Shunt and Tone Compensation	MN	2.50
500M	500M	I	I	Carbon	Carbon	Audio Shunt in Push Pull	NN	2.50

*Formerly DRP 192 †See DR P308

Yaxley Universal Tapped (TRP) Controls

Reference by Catalog Number. Prices do not include Switch or Accessories.

Catalog Number	Total Ohms Resistance	Tapped at Ohms	Used As	List Price
TRP600	6M	2500	Vol.	$1.50
TRP601	30M	6M	Vol.	1.50
TRP602	63M	3M	Vol.	1.50
TRP603	250M	125M	Vol., Phono.	1.50
TRP604	350M	25M	Vol.	1.50
TRP605	350M	75M	Vol., Phono.	1.50
TRP606	500M	100M	Vol.	1.50
TRP607	500M	250M	Vol.	1.50
TRP608	1 Meg.	200M	Vol.	1.50
TRP609	1 Meg.	500M	Vol., Phono.	1.50
TRP610	1 Meg.	20M	Vol.	1.50
TRP611	1 Meg.	170M	Vol.	$1.50
TRP612	2 Meg.	25M	Vol.	1.50
TRP613	2 Meg.	400M	Vol.	1.50
TRP614	350M	75M	Vol.	1.50
TRP615	3 Meg.	1 Meg.	Vol.	1.50
TRP616	500M	50M	Vol.	1.50
TRP617	60M	10M	Vol.	1.50
TRP618	2 Meg.	200M	Vol.	1.50
TRP619	500M	100M 300M	Vol.	1.50
TRP620	2 Meg.	1 Meg.	Vol.	1.50
TRP621	2½ Meg.	250M 500M	Vol., Phono.	1.50
TRP622	44M	7M 14M	Vol.	1.50

Yaxley Universal Hum Controls

Prices do not include Switch or Accessories

Ohms Resistance	General Use	Type Element	Catalog Number	List Price
6	Hum	W.W.	HU6	$1.00
10	Hum	W.W.	HU10	1.00
20	Hum	W.W.	HU20	1.00
30	Hum	W.W.	HU30	1.00
50	Hum	W.W.	HU50	$1.00
75	Hum	W.W.	HU75	1.00
100	Hum	W.W.	HU100	1.00
200	Hum	W.W.	HU200	1.00

Yaxley Special Single (SRP) Controls

Reference by Catalog Number. Prices do not include Switch or Accessories.

Catalog Number	Ohms Resistance	Type Element	Used As	List Price
SRP133	2M	W.W.	Vol.	$1.50
SRP134	4500	W.W.	Vol. Sen.	1.50
SRP138	450	W.W.	Vol.	1.50
SRP139	550	W.W.	Vol.	1.50
SRP141	1200	W.W.	Vol.	1.50
SRP142	2400	W.W.	Vol.	1.50
SRP144	2M	W.W.	Vol.	$1.50
SRP145	2M	W.W.	Vol.	1.50
SRP150	50M	Carbon	Vol.	1.50
SRP152	60	W.W.	Phono. Vol.	1.50
SRP153	13M	W.W.	Vol.	1.50
SRP154	50M	Carbon	Vol.	1.50

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YAXLEY Replacement Volume Controls

Yaxley Special Single (SRP) Controls *(continued)*

Reference by Catalog Number. Prices do not include Switch or Accessories.

Catalog Number	Ohms Resistance	Type Element	Used As	List Price
SRP160	2500	W.W.	Equal	$1.50
SRP170	75M	Carbon	Vol.	1.50
SRP179	125M	Carbon	Vol.	1.50
SRP185	1500	Carbon	Vol.	1.50
SRP188	32M	Carbon	Vol.	1.50
SRP213	250M	Carbon	Vol.	1.50
SRP216	500M	Carbon	Vol.	1.50
SRP223	1M	W.W.	Vol.	1.50
SRP226	250M	Carbon	Vol., Tone	1.50
SRP239	450	W.W. Strip	Vol.	.50
SRP241	6M	W.W. Strip	Vol.	.50
SRP245	32M	Carbon	Vol.	1.50
SRP249	20M	W.W.		1.50
SRP251	250M	Carbon	Vol.	1.50
SRP252	500M	Carbon	Vol.	1.50
SRP253	400	W.W.	Hum	1.50
SRP254	3500	W.W.	Vol.	1.50
SRP255	15M	W.W.	Vol.	1.50
SRP256	10M	Carbon	Vol.	1.50
SRP257	3M	W.W.	Vol.	1.50
SRP258	15M	Carbon	Vol.	1.50
SRP259	50M	Carbon	Phono.	1.50
SRP260	1M	W.W.	Vol.	1.50
SRP261	100M	Carbon	Vol.	1.50
SRP262	1500	W.W.	Vol.	1.50
SRP263	32M	Carbon	Vol., Tone	1.50
SRP264	650	W.W.	Vol.	$1.50
SRP265	200	W.W.	Hum	1.50
SRP266	600	W.W.	Hum	1.50
SRP267	8M	W.W.	Tone Beam	1.50
SRP268	15	W.W.	Vol.	1.50
SRP269	10M	Carbon	Vol.	1.50
SRP270	15M	W.W.	Vol.	1.50
SRP271	150	W.W.	Vol.	1.50
SRP272	300	W.W.	Vol.	1.50
SRP273	500M	Carbon	Vol.	*2.00
SRP274	10M	W.W.	Vol.	1.50
SRP275	500M	Carbon	Vol.	1.50
SRP276	3M	Carbon	Regen.	1.50
SRP277	2M	Carbon	Vol.	1.50
SRP278	500M	Carbon	Vol.	1.50
SRP279	50M	Carbon	Vol.	1.50
SRP280	500M	Carbon	Vol.	1.50
SRP281	350M	Carbon	Vol.	1.50
SRP282	350M	Carbon	Vol.	1.50
SRP283	2500	W.W.	Vol.	1.50
SRP900	20M	Carbon	Vol.	1.50
SRP901	10M	Carbon	Vol.	1.50
SRP960	800	W.W.	Vol.	1.50
SRP961	10M	Carbon	Vol.	1.50
SRP962	250M	Carbon	Vol.	1.50

*Price includes Switch.

Yaxley Special Dual (DRP) Controls

Reference by Catalog Number. Prices do not include Switch or Accessories.

Catalog Number	Ohms Resistance		Type Element		Used As	List Price
	Front	Rear	Front	Rear		
DRP114	250	5M	W.W.	W.W.	Vol.	$2.50
DRP115	3800	3800	Carbon	Carbon	Vol.	2.50
DRP116	Spcl.	Spcl.	W.W.	W.W.	Vol.	2.50
DRP117	500	2500	W.W.	W.W.	Vol.	2.50
DRP119	3M	10M	W.W.	W.W.	Vol.	2.50
DRP122	645	10M	W.W.	W.W.	Vol.	2.50
DRP169	7500	10M	W.W.	W.W.	Vol.	2.50
DRP221	10M	100M	Carbon	Carbon	Vol.	2.50
DRP222	75M	32M	Carbon	Carbon	Vol.	2.50
DRP232	3 Meg.	3 Meg.	Carbon	Carbon	Vol.	2.50
DRP239	25M	25M	Carbon	Carbon	Vol.	2.50
DRP240	250M	10M	Carbon	Carbon	Vol.	2.50
DRP241	5M	150M	Carbon	Carbon	Vol.	2.50
DRP242	10M	500M	Carbon	Carbon	Vol.	2.50
DRP243	3M	750M	Carbon	Carbon	Vol.	2.50
DRP244	25M	6M	Carbon	Carbon	Vol.	2.50
DRP245	1 Meg.	3 Meg.	Carbon	Carbon	Vol.	2.50
DRP246	32M	50M	Carbon	Carbon	Vol.	2.50
DRP250	50M	1M	Carbon	Carbon	Vol.	2.50
DRP301	5M	2500	W.W.	Carbon	Vol.	$2.50
DRP302	100M	250M	Carbon	Carbon	Vol.	2.50
DRP303	2500	100M	Carbon	Carbon	Vol.	2.50
DRP304	1 Meg.	3 Meg.	Carbon	Carbon	Vol.	2.50
DRP305	15M	25M	Carbon	Carbon	Vol.	2.50
DRP306	5M	10M	W.W.	Carbon	Vol.	2.50
DRP307	3M	12M	W.W.	Carbon	Vol.	2.50
DRP308	50M	30M	Carbon	Carbon	Vol.	2.50
DRP309	12M	65M	Carbon	Carbon	Vol.	2.50
DRP310	25M	27M	Carbon	Carbon	Vol.	2.50
DRP311	150M	250M tapped 90M	Carbon	Carbon	Vol.	2.50
DRP312	75M	500M	Carbon	Carbon	Vol.	2.50
DRP313	1M	500M	Carbon	Carbon	Vol.	2.50
DRP314	500M	2500	Carbon	Carbon	Vol.	2.50
DRP315	2 Meg.	2500	Carbon	Carbon	Vol.	2.50
DRP316	200M	1M	Carbon	Carbon	Supp.	2.50
DRP317	500M	1M	Carbon	Carbon	Vol.	2.50

Yaxley Special Replacement Controls

Reference by Make of Set. Single Controls (SRP's)—Dual Controls (DRP's)—Tapped Controls (TRP's).
Use Yaxley Universal Controls for Receivers not listed. See the Mallory-Yaxley Radio Service Encyclopedia.

Make of Set	Models Number	Use	Replacement	List Price
A.C. Dayton	"Navigator" Series	Vol.	SRP274	$1.50
Acratone	Z4, Z5	Vol.	SRP275	1.50
Aircastle	Z4, Z5	Vol.	SRP275	1.50
All-Am. Mohawk	511	Vol.	SRP252	1.50
	D, DC, H, H80	Vol.	DRP169	2.50
	60, 61, 62, 65, 66, 80, 83, 84, 85, 86, 88 110V DC, 8T	Vol.	SRP170	1.50
	B7	Vol.	DRP239	2.50
Allied Radio	G9545, G9547, G9549	Vol.	TRP606	1.50
	S69	Vol.	DRP119	2.50
	Z4, Z5	Vol.	SRP275	1.50
Analey Radio	D3, D4, D6	Vol.	SRP263	1.50
Atwater Kent	37, 37C, 37F, 38, 40, 40F, 41DC, 42, 42F, 43, 44, 44F, 45, 46, 47, 52, 53, 56, 57, 61, 61C (DC), 60, 60C (Early)	Vol.	SRP239	.50
	55F, 55FC (Early), 55, 55C (Early)	Vol.	SRP241	.50
	55, 55C (Late), 55F, 55FC (Late), 60, 60C (Late), 60, 60C (3rd type), 66, D1 (70, 74, 76), D2 (70, 74, 76), F (70, 74, 76), L1 (70, 74, 76), L2 (70, 74, 76), P(75), 87D	Vol.	DRP301	2.50
	H1, H2 (72)	Vol.	DRP302	2.50
	Q (70, 76)	Vol.	DRP303	2.50
	84 (Late), 84F (Late), 87, 94, 94F	Vol.	SRP254	1.50
	810, 511, 112	Vol.	TRP606	1.50
	469, 469F, 480	T.Beam	SRP267	1.50
Balkeit	ML1, ML2, Z4, Z5	Vol.	SRP275	1.50
Belmont	404	Vol	TRP601	1.50
	511, 544, 545, 555, 610, 755	Vol.	TRP609	1.50
	770 "A"	Vol	TRP611	1.50
Bremer-Tully	S81, S82	Hum	SRP265	1.50
Brunswick	B17 (For PR17-8, 2nd Type)	Vol.	SRP145	1.50
	R1,3KR0,3KR6,3KR8,5KR, 5KR0, 5KR6, 2KR0	Vol.	SRP144	1.50
	3NW8	Vol.	SRP141	1.50
	5NC8, 5NO	Vol.	SRP138	1.50
	11, 12, 16, 33, "D" Chassis below 25000	Vol.	SRP255	1.50
	11A, 12A, 16A, 18, 33A, "D" Chassis above 25000, 17, 24, 25AC	Vol.	SRP273	2.00
	S14, S21, S81, S82 (25 cycle)	Hum	SRP265	1.50
Colonial	36, 38, 114, 117	Hum	SRP266	1.50
	164, 164B, 182	Vol.	SRP252	1.50
Columbia	C100	Vol.	SRP226	1.50
Continental	"Admiral" Z4, Z5, L2, ML4, L4, ML156, ML266	Vol.	SRP275	$1.50
Crosley	27, 28, 48, 53, 54, 56, 57, 58, 77-1	Vol.	SRP263	1.50
	123, 125	Tone	SRP263	1.50
	30S, 31S, 33S, 34S, 40S, 41S, 42S, 60S, 61S, 62S, 63S, 82S	Vol.	SRP188	1.50
	40S, 41S, 42S, 82S	Vol.	DRP305	2.50
	41, 41A, 42, 602 (Bandbox), 608 (Gembox), 609 (Gemchest), 610 (Gembox), 704 (Showbox) (Jewelbox), 704A (Jewelbox), 704B, 705 (Showbox DC), 706 (Showbox)	Vol.	SRP185	1.50
	76, 77A, 77B, 77L, 84C, 84D, 121 Series "B" 127, 127-1, 150	Vol.	SRP226	1.50
	120, 126-1, 127, 128	Tone	SRP226	1.50
	121 Series "A," 123, 126, 126-1	Vol.	SRP264	1.50
	128, 129-1, 131, 137, 154, 169	Vol.	SRP262	1.50
	526, 555, 626, 916, 955, 1016, 1155, 5526, 5555, 6625	Vol.	DRP304	2.50
	130, 130-1, 132-1, 136-1	Vol.	DRP232	2.50
	816	Vol.	TRP615	1.50
Dewald	403-4 Type 2, 425R, 440, 505F, 505R, 506R	Vol.	SRP263	1.50
	21, 22AC	Vol.	DRP240	2.50
Earl	1800, 7114	Vol.	SRP263	1.50
Echophone	"Abbey" Battery (Splitdorf), "Abbey" Jr.	Vol.	SRP278	1.50
Edison	C1 (SC), C2, R1, R2 (Jr., Jc, 25 Cy.), C2, R1, R2 (Jr., Jc, 60 Cy.), (Splitdorf), M5, M6	Vol.	SRP277	1.50
	C1 (SC), C2, R1, R2 (Jr., Jc, 25 Cy.), C2, R1, R2, (Jr., Jc, 60 Cy.), (Splitdorf), M5, M6	Regen.	SRP276	1.50
	C4, R4, R5, (Chassis 7-R), R4, R5 (DC)	Vol.	DRP306	2.50
	R6, R7	Vol.	TRP607	1.50
F & A	4M, 4L-5, 4L55LW, 303, 303LW, 303SW, 405, 405LW	Vol.	SRP263	1.50
	10, 15	Vol.	SRP263	1.50
El-Rey	30	Vol.	SRP263	1.50
Empire	225, 271A	Vol.	DRP192	2.50
Erla	KF (43), KG (761, 762, 764, 766), 43	Vol.	DRP119	2.50
Fada	S, 26-36, 35B	Vol.	DRP307	2.50

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Yaxley Special Replacement Controls (*continued*)

Reference by Make of Set. Single Controls (SRP's)—Dual Controls (DRP's)—Tapped Controls (TRP's).

Make of Set	Models Number	Use	Replacement	List Price
Fada—Continued	"7AC" (475-UA or CA, 472-UA or CA, SF15/72-UA or CA, SF15/75-UA or CA) "Special A.C." (262-UA, or CA, 265-UA or CA, RP-62-UA or CA, RP-65-UA or CA, 10, 10Z, 11, 11Z, 16, 16Z, 17, 30, 30Z, 31, 31Z, 50, 50Z, 70, 71, 72, 70Z	Vol.	SRP256	$1.50
	M250, M250Z, 15M, 15MZ, 16, 16Z, 17, 18DC, 20, 20Z, 25, 25Z, 32, 32Z, 75, 77	Vol.	SRP257	1.50
	1556	Vol.	SRP263	1.50
Fairbanks-Morse	72 (72T3, 72C2, 72C3), 73, (73T3B, 73C3B)	Vol.	TRP616	1.50
Federal	D Code 79-070, E Code 79-060, F Code 79-080, F (25 Cycles)	Vol.	SRP279	1.50
Federated Pur.	121, 215	Vol.	SRP263	1.50
Ford-Lincoln	"Glove Box" (Zenith), "Glove Box" (Police) "Glove Box" (30-18805), 111	Vol.	SRP251	1.50
	N "Center Control"	Vol.	TRP614	1.50
Freed-Eisemann	NR55 AC, NR56 AC	Vol.	DRP240	2.50
	NR90 S	Vol.	DRP308	2.50
	351, 351P, 351L	Vol.	SRP263	1.50
Jesse French	"G" Jr., S2	Vol	DRP119	2.50
Freshman	21 AC and 22 AC	Vol	DRP240	2.50
Galvin	14, 55, 77, 77A	Vol	SRP280	1.50
"G. E."	A61, A67, A70, A75	Vol.	TRP603	1.50
	A82, A87	Vol.	DRP311	2.50
	B-10	Vol.	SRP252	1.50
	C-11	Vol	SRP251	1.50
	E52	Vol.	SRP152	1.50
	J70, J75, S22, S22X, S22D, S42, S42D, SZ42P	Vol	SRP134	1.50
	J80, J85, JZ835, K62, K82, KZ62P, S132	Vol.	SRP153	1.50
	J109	Phono	TRP603	1.50
	C60, K61, K61D, K66, K66M, K80, K80X, K85, K88, K88X, M50, M51, M52, M55, M56, M61, M62, M65, M66, M67, M68, M69, M81, M85, M86, M89, M100, M107	Vol	TRP603	1.50
	C67, K60, K60P, K63, K65, K65P, K78, K79, M63	Vol	TRP607	1.50
	J125X	Vol	TRP601	1.50
	K105, K106, K106P, K107, K126, M125, M128, M128B, M129	Vol.	TRP622	1.50
	TH	Vol	DRP116	2.50
	K78, K79	Phono.	TRP609	1.50
General Motors	"Little General," 110, 120, 130, 140, ("A," "B") between serials 29100A and 62100A, and 1700B and 1964B, 120, 130, 140 ("A," "B") above serial 62100A, 1964B, 180, 190	Vol	DRP309	2.50
	120, 130, 140 ("A," "B") below serial 29100A-1700B	Vol	DRP310	2.50
	170E	Vol	SRP268	1.50
Goldentone	Z4, Z5	Vol.	SRP275	1.50
Gold Medal	Z4, Z5	Vol.	SRP275	1.50
Graybar	GB8, GB8A, GC13, GG15, GT7	Vol	SRP134	1.50
	GB9, GB9B9, GC14, GT8	Vol.	SRP153	1.50
	GB310, GB311, GB320	Vol	SRP141	1.50
	GB340, GB340	Vol.	SRP138	1.50
	GB500, GB550	Vol.	SRP142	1.50
	GB600	Vol.	SRP139	1.50
	GB678	Vol.	DRP116	2.50
	GB900	Phono.	SRP152	1.50
Grunow	56 (580, 581), 60 (680, 681), 61 (640, 641)	Vol.	TRP604	1.50
	6A Early (650, 651), 6C Early (660, 661, 662), 7A (700, 701), 7B (750, 751, 752, 753), 9A Early (901, 902), 9A (901, 902) Revised	Vol.	TRP670	1.50
Gulbransen	9 in line (Club)	Vol.	DRP241	2.50
	51 AC	Vol.	SRP272	1.50
	60, 63, 162	Vol.	TRP600	1.50
	92, 93, 200, 291, 292, 295, 9950	Vol.	DRP243	2.50
	872	Vol.	SRP271	1.50
Halson	45, 52, 54, 530, 535, 580	Vol.	SRP263	1.50
Herbert Horn	5, 5MT, 24	Vol.	SRP263	1.50
Howard	D8	Vol.	TRP606	1.50
	SG "A," "C," (RF Chassis)	Vol.	DRP244	2.50
Hudson-Ross	38, 48, "Legion"	Vol.	SRP226	1.50
Insuline	"Universal Mascot" AC-DC	Vol.	SRP226	1.50
International	76, 676	Vol.	SRP263	1.50
Interocean	520, 521, Chassis 2035, 530, 531, 533, Chassis 2038	Vol.	TRP606	1.50
Kolster	K43, K43A, K44	Vol.	DRP244	2.50
	K63, K72, K83, K93, K103	Vol.	DRP239	2.50
Lafayette	L16, L17, L18, L19	Vol.	SRP271	1.50
Lesol	LW4, LW4DW	Vol.	SRP263	1.50
Majestic	30 (31), 50 (51, 52)	Vol.	DRP122	2.50
	60 (61, 62), 160 (163)	Vol.	SRP223	1.50
	90, 90B (91, 92, 93), 100, (101), 100B (102, 103)	Equal.	SRP160	1.50
	100 (101), 130 (131)	Vol.	DRP222	2.50
	100B (102, 103)	Vol.	DRP312	2.50
	113, 113P	Vol.	SRP251	1.50
	240A (243 Comet)	Vol.	DRP313	2.50
Midwest	Mraco ISG-226	Vol.	DRP240	2.50
Monarch	Z4, Z5	Vol.	SRP275	1.50
Mont.-Ward	AE10 (Two Types), 2655	Vol.	DRP243	2.50
	76M, 62-185, 62-187, 62-190, 62-196	Vol.	DRP314	2.50
	62-179, 62-191, 62-206, 62-216, 62-218	Vol.	DRP315	$2.50
	62-86, 62-86X	Supp.	DRP316	2.50
	17 (31) "Turret Cond."	Vol.	SRP273	2.00
	62-20, 62-20X, 62-25	Vol.	SRP272	1.50
	62-53, 62-71, 62-74, 62-74X, 77, 95, 62-120, 62-122, 62-126, 62-128	Vol.	SRP271	1.50
	62-360, 62-367	Vol.	TRP602	1.50
	62-178, 62-181 (Battery Super), 62-189, 62-211	Vol.	TRP600	1.50
	62-23	Vol.	TRP617	1.50
Nat'l Carbon	52, 53, 54 (Three Types)	Vol.	DRP241	2.50
	52, 53, 54 (Three Types)	Vol.	DRP117	2.50
Noblitt-Sparks	1, 2, 3	Vol.	DRP242	2.50
	10A (Two Types), 15, 16, 20A (Two Types), 20B, 25, 39A (Three Types), 35 (Two Types), 45 (Two Types)	Vol	SRP179	1.50
Pacific	101B, 101C, 102 (Knight 6 tube), 102B	Vol	SRP251	1.50
Philco	20, 20A, 21, 41 DC, 42 DC, 70, 70A (below No. B-22,000), 77, 77A, 90, 90A (with 2-45's) 220, 220A, 270, 270A, 470, 170A, 570 Grandfather's Clock below B-22,000)	Vol	SRP281	1.50
	C 111 (Chrysler), FT9 (Ford), G1118, G1136, LT14X3, L1141X4, MT14X4 (Pierce-Arrow), NT12X, NT12X2, NT15 (Nash), N1418, N1433, P1417, P1430, P1432H, PT14 (Packard), RT14X (Reo DeLuxe), S1431, ST12 (Studebaker), ST15 (Studebaker)	Vol.	DRP114	2.50
	AC989 (Nash), C (Nash), (AC989), D (Nash) (AC989), E-(10) (Pierce-Arrow), ME (Pierce-Arrow), 10 Transitone 17 (Early), 17 (Code 121) (Early), 17, 17A (Codes 122 and 123) (Early), 19 (Code 128)	Vol	SRP282	1.50
	AC206 (Code 122) (Studebaker), AC266 (ST3) (Studebaker DeLuxe), AC989 (Code 122) (Nash), D (Code 122), H (Code122), MT3 (Pierce-Arrow DeLuxe), PHD, PHXD (Packard), RT3 (Reo DeLuxe), T3, T7, T8 (Nash), 10 (Code 122) C (Studebaker), E (Pierce-Arrow), 14 (Code 121 and 122) (Runs 1-4), 14 (Codes 121, 122) (Runs 5 and after), 14 (123), 14 (126-226), 15 (Early 223), 15 (Late 18), 18 (Codes 121 and 122), 18 (Code 124), 28, 29, 29 (Code 123TX), 45, 49 (DC), 91 (126-226), 118, 118 (Code 123BX), 144, 503, 506 (Radio-Phonograph), 507, 800 (Code 122), 802, 806	Vol.	TRP603	1.50
	37-601	Vol.	TRP604	1.50
	620, 620 (Code 121), 625, 630, 630 (121), 635, 635 (Code 121) 640 (Code 121), 640X (Code 122), 645	Vol.	TRP605	1.50
	808	Vol.	TRP607	1.50
	116X (Code 122), 643, 650, 655, 660, 665, 665 (Code 122), C6 (Chrysler), CT2, CT5, CT2 (Chrysler DeLuxe), CT5 (Chrysler Airflow DeLuxe), CU and CX (Chrysler), CZ (CT2, CT5), DL (Dodge) (CT2, CT5), FT6, G (Code 122), N (Ford Center Control), PJ (Plymouth) (CT2, CT5), PT5 (120) (Packard DeLuxe), SE (DeSoto), SF, SG (DeSoto) (CT2, CT5), T2, T5, T6	Vol.	TRP608	1.50
	16, 16 (Codes 121, 122, 123), 16 (Codes 125, 126, 127), 17 (Late), 17 (Code 121) (Late), 17, 17A (Codes 122 and 123), 116B (Code 121), 500, 501	Vol.	TRP611	1.50
	200X, 201, 509X	Vol.	TRP613	1.50
	37-116 (Codes 121, 122), 37-610 (Codes 121, 122), 37-620, 37-623, 37-630, 37-640, 37-650, 37-660, 37-670, 37-675 (Code 121-2)	Vol.	TRP614	1.50
	506B, 515, 518	Vol	TRP618	1.50
Pierce-Arrow	Victor R42, Victor RE45, Victor R52, Victor RE55, Victor R41, Victor R45, Victor RE47, Radiola 42, Radiola 48	Vol.	TRP619	1.50
R.C.A.	Victor R35, R39, RE57, Victor RE58	Vol	DRP115	2.50
	Radiola (33DC)	Vol	DRP250	2.50
	R-41, R-46, R-47 Superette, R-7A (AC) Superette, R-7 Superette (DC) ER-1240-A2 R8 (DC) (230V), R9 (AC) Superette, R9 (DC) Superette, R10 (DC), RE16, RE16A, 25 (DC) (220V)	Vol.	SRP133	1.50
	ACR136	Vol.	SRP134	1.50
		Sen.	SRP134	1.50

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Yaxley Special Replacement Controls (*continued*)

Reference by Make of Set. Single Controls (SRP's)—Dual Controls (DRP's)—Tapped Controls (TRP's).

Make of Set	Models Number	Use	Replacement	List Price
R.C.A.–Continued	Radiola 60, Radiola 62	Vol.	SRP138	$1.50
	Radiola 66	Vol.	SRP139	1.50
	Victor 9-18, Victor 9-54, Victor 9-56 (Radiola 64), Radiola 64, Radiola 67	Vol.	SRP141	1.50
	Radiola 44 (AC), Radiola 46 (AC), Radiola 47	Vol.	SRP142	1.50
	Victor 7-11 (Radiola 18), Victor 7-26 Electrola Radiola, Radiola 18 (AC), Radiola 18 (DC), Radiola 33 (AC), Radiola 51 (AC), Radiola 51 (DC)	Vol.	SRP144	1.50
	Victor 7-25 (Radiola 17), Radiola 17, Radiola 41 (AC), Radiola 41 (DC), Radiola 50	Vol.	SRP145	1.50
	T-5 End Table Electrola, PT16-A1, PT16-A2, PT17-A1, PT17-A2	Vol.	SRP152	1.50
	RE16, RE16A, RE18, RE18A, RE19 (AC) (AVC), RE20 Electrola, RAE26, CE29, PT33 Portable Turn-Table, Victor R35, R39, Radiola 47, RE57, RAE59, Radiola 67, RAE68, RE73, Radiola 86	Phono.	SRP152	1.50
	R8 (AC), R10 (AC), R11 (AC), R12 (AC), RE18, RE18A, RE19 (AC) (AVC), R21, RO23, RAE26	Vol.	SRP153	1.50
	AR-4229, M105, M134	Vol.	SRP251	1.50
	Radiola 46 (DC)	Vol.	SRP150	1.50
	9 tube General Purpose A.W. (AVR-5A), AVR-1, 6 tube Automobile, AVR-5A 9 tube General Purpose A.W., T 5-2, CRD9 (DC) Counter Demonstrator, M107, 117, 118, 119, 121, 122, 125, 127, 128, 128E, ACR136, 140, 141, 141E, 140, 141, 141E (Revised), 143, 211, 214, 220, 221, 223, 224, 224E, 225, 226, 240, 240 (Revised) 242, 243, 262 (Two Types), 262, 263 (1935 Production), Duo 320, Duo 321, 322, Duo 322, 322E, Duo 322E, 327, 340, 340E, 340, 340E "All Wave Duo," 341, 342	Vol.	TRP603	1.50
	CRD9 (AC) Counter Demonstrator, RE81	Phono.	TRP603	1.50
	R78 (with Noise Suppressor), RAE84	Vol.	TRP601	1.50
	R37, R37P, R38, R38P, 120, 124, 223, 330, 331	Vol.	TRP607	1.50
	6M and 6M2	Vol.	TRP608	1.50
	330, 331	Phono.	TRP609	1.50
	R71B	Vol.	TRP611	1.50
	5T, 6K, 6K2, 6T, 6T2, C6-2, C6-8, T6-1, T6-7, 7K, 7T, 7U, 7X, C7-6, C7-14, D7-7, T7-5, T7-12, 8K, 8T, 8U, C8-15, C8-17, C8-19, C8-20, D8-28, T8-14, T8-16, T8-18, C9-4, C9-6, D9-19, T9-9	Vol.	TRP613	1.50
	D7-7	Phono.	TRP617	1.50
	9K, 9K2, 9T, 10K, 10T, T10-1, T10-3, C11-1, D11-2, T11-8, C13-2	Vol.	TRP621	1.50
	C15-3, D22-1, R90, R90P, 260, 261, 280, 281, Duo 380, Duo 380HR, Duo 381	Vol.	TRP622	1.50
R.P.C.	Z4, Z5	Vol.	SRP275	1.50
Radio Receptor	AR3	Vol.	SRP134	1.50
Radolek	K16743	Vol.	SRP275	1.50
Reliance	Z4, Z5	Vol.	SRP275	1.50
RK Rad. Lab.	4 tube B'cast and Long Wave, RKP4 (AC-DC), 421, 422, 423, 424, 425, 426, 427, 428	Vol.	SRP263	1.50
Sears-Roebuck	36, 36P, 114, 1150, 1170, 1260, 1722, 1722 (Revised), 1722X, 1726X, 1732, 1732 (Revised), 1732X	Hum	SRP266	1.50
	1800, 7106, 7111X, 7112, 7114, 7121	Vol.	SRP263	1.50
	1705, 1729	Vol.	TRP609	1.50
	1715, 1720, 1721, 1722, 1722 (Revised), 1722X, 1725, 1726X, 1732, 1732 (Revised), 1732X	Vol.	DRP317	2.50
	7065	Vol.	DRP313	2.50
Sentinel	4500	Vol.	SRP263	1.50
Sonora	A30, A32, A36, A40, A46, 2RP (25 cycle), 3RP, 3R, 4R, 5R (Arcturus Tubes) DeLuxe 44	Vol.	SRP283	1.50
Sparton	12	Vol.	DRP169	2.50
	400, 410 AC (Jr.), 410 DC (Jr.), 420 AC (Jewell), 420 DC (Jewell), 9A	Vol.	DRP246	$2.50
	AC62, AC63, 69, 79, 79A, 89, 89A, 99, 101, 109 DeLuxe, 110, 111 (DeLuxe) (Two Types), 301 AC, 301 DC, 930 AC, 931 AC, 931 DC, AC7, 589, 591, 593, 9-30	Vol.	SRP154	1.50
	30, 30A, 30B	Phono.	SRP259	1.50
	103, 111A, 235, 564, 564DC, 570, 570 DC, 574, 578, 600, 600 DC, 610, 610 DC, 620, 620 DC, 737, 740, 740 DC, 750 AC, 750 DC, 870	Vol.	SRP258	1.50
	Condenser Tester Bridge		SRP249	4.50
	A (DC), C, E Miniature, M, N, P, Q, 8 tube Receiver	Vol.	DRP119	2.50
	R100A, B, E, (AC) 950 Series, R126, Series R126A, R126P, R126X (1261-1269)	Vol.	SRP245	1.50
	R142A, R142AS (1421-1429)	Vol.	TRP606	1.50
	R149 (1491-1499)	Vol.	SRP263	1.50
	10, 11, 16, 17 DC, 25, 26 AC	Vol.	TRP608	1.50
	10, 11, 12, 14, 19, 20, 22, 22A, 25, 26, 27, 29, 37, 38, 39, 40, 41, 48, 49, 50, 51, 52, 54	Hum	SRP269	1.50
	12, 14, 27AC	Vol.	SRP253	1.50
	22, 22A	Vol.	SRP213	1.50
	38, 39, 40, 41 (2nd type)	Supp.	SRP216	1.50
	48, 49, 50, 51	Vol.	SRP266	1.50
	55, 56	Hum	DRP245	2.50
	150	Vol.	SRP265	1.50
	635 (DC), 635, 636, 638, 638 AC, 638 DC (All Front Controls)	Vol.	TRP611	1.50
	635DC, 635, 636 (All rear controls)	Vol.	SRP961	1.50
	638 AC, 638 DC (All rear controls)	Vol.	SRP901	1.50
	641, 642, 652, 654 (All front controls)	Vol.	SRP269	1.50
	641, 642, 645, 652, 654, 846, 848 (All rear controls)	Vol.	SRP960	1.50
	846, 848 (front)	Vol.	SRP900	1.50
Supertone	Z4, Z5	Vol.	SRP962	1.50
Temple	8-61, 8-81, 8-91	Vol.	SRP275	1.50
Utd. Am. Bosch	28 (AC), 29 (AC), 38	Vol.	DRP240	2.50
Utd. Mot. Serv.	980525 (Buick), 980526 (Buick), 980529 (Buick), 980534-5 (Buick), 985301 (Chevrolet)	Vol.	SRP179	1.50
U.S. Rad. & Tele.	12 (Class "B"), (Chassis 1200), 120 Class "B" (Chassis 1200)	Vol.	TRP608	1.50
	12 (Class "B") (Chassis 1200)	Vol.	TRP606	1.50
	120 Class "B" (Chassis 1200)	Sen.	DRP316	2.50
Voco Radio	VHN	Vol.	SRP263	1.50
Wells-Gardner	9DM, 2CM	Vol.	DRP315	2.50
	5E Series (25E1, 25E5)	Vol.	TRP602	1.50
	561 Series (356510, 356560)	Vol.	TRP617	1.50
	761M Series (37G508, 37G566), 7K	Vol.	DRP314	2.50
	9 in line, 90, 91, 92, 93, 200, 291, 292, 295	Vol.	DRP241	2.50
	50, 572, 872	Vol.	SRP271	1.50
	60, 63, 161, 162	Vol.	TRP600	1.50
	C-CG (1st and 2nd types)	Vol.	DRP243	2.50
Western Auto	Z4, Z5	Vol.	SRP275	1.50
Wurlitzer	Model "B" 1930-31, B80	Vol.	DRP169	2.50
	B6	Vol.	DRP244	2.50
	Vitatone Model 54	Vol.	DRP119	2.50
Zaney Gill	Z4, Z5	Vol.	SRP275	1.50
Zenith	10, 11, 12, 31, 32, 34P, 33, 33X, 34, 35, 35A, 35P, 35AP, 35APX, 35PX, 37A, 39, 39A, 40A, 41, 42, 52, 53, 54, 55 (50 Series), 60, 61, 62, 64, 67 (60 Series), 71, 72, 73, 77, (70 Series), 80 (Hydermetron), 102, 112, 122, 333, 342, 342P, 352, 352A, 352P, 352AP, 352PX, 352APX, 353A, 362, 362X, 392, 392A, 412, 422, 563, 602, 613, 622, 642, 672, 712, 722, 732, 777	Vol.	SRP261	1.50
	52, 53, 54, 55 (50 Series), 60, 61, 62, 64, 67 (60 Series), 71, 72, 73, 77 (70 Series), 712 (Early), 722, 732, 777	Vol.	DRP221	2.50
	410, 411, 420, 430, 440, 476, 476A (Chassis 2032), 520, 521, 530, 531, 533, 535 (Chassis 2035), 770 (Chassis 2032), 775 (Chassis 2032), 780 (Chassis 2032), 980, 985, 990 (Chassis 1201, 1201A)	Vol.	TRP606	1.50
	730, 735	Vol.	TRP602	1.50

Current Table for No. 4 Taper (Linear) Controls

Overall Resistance Value	Catalog Number	Safe Current (at any point on the control)
5,000	Y5MP	20 Milliamperes
10,000	Y10MP	15 Milliamperes
20,000	Y20MP	10 Milliamperes
25,000	Y25MP	7 Milliamperes
50,000	Y50MP	6 Milliamperes
100,000	Y100MP	4 Milliamperes
200,000	Y200MP	2 Milliamperes
250,000	Y250MP	1 Milliamperes
500,000	Y500MP	1 Milliamperes
1,000,000	Y1000MP	.5 Milliamperes

MALLORY-YAXLEY Radio Service Encyclopedia



Over 200 pages

Nothing like it before—"out does" any manual you've ever seen! All the information you need on ANY set and EVERY set. Schematics, circuits, volume controls, condensers, vibrators, tubes, EVERYTHING.

List Price $2.50

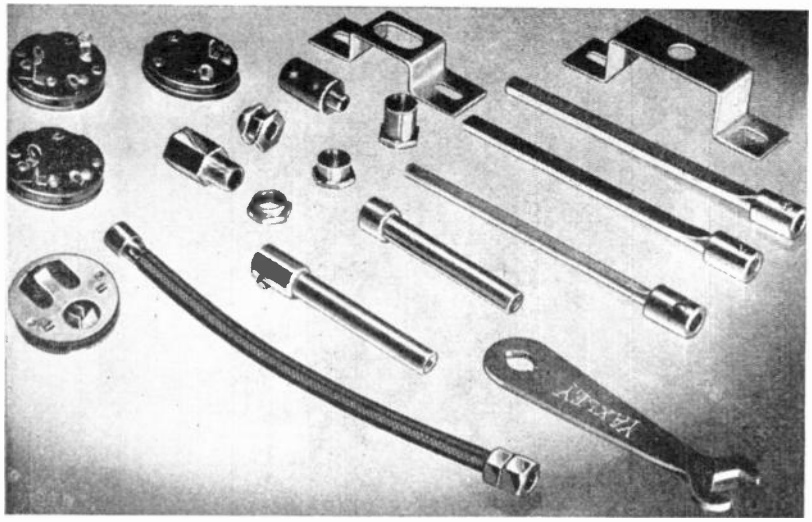
The Greatest Manual in Radio History

Current Capacity of Yaxley No. 2 Taper, in Milliamperes

Rotation from right to left, starting point at full clockwise rotation.

Resistance in Ohms	Catalog Number	10%	25%	50%	75%	100%
10,000	UC501	70	45	22.5	11	10
25,000	J	55	34	14	7	6
50,000	K	40	24	10	5	4
75,000	Z	33	19	8	4	3½
100,000	UC510	20	12	5	2½	2
250,000	UC509	13	7	3	1½	1
500,000	UC513	9	5	2	1½	½

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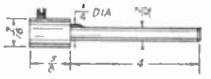


Universal Volume Control Accessories

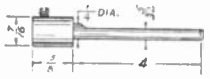
Complete and detailed instructions for the use of Yaxley Universal Volume Control Accessories and Switches are given in the Mallory-Yaxley Radio Service Encyclopedia.

	Catalog Number	List Price
Attachable Volume Control Switches:		
Single Pole—Single Throw	6-9	$0.50
Double Pole—Single Throw	7	.60
Single Pole—Double Throw	8	.60
Three Pole—Single Throw Shorting	13	.60
Four Pole—Single Throw Shorting	14	.60
Universal Extension Shafts:		
4" long x ¼" dia. x ½" flat	RS242*	.30 ea.
4" long x ¼" dia. x 5/16" flat	RS243*	.30 ea.
4" long x 5/16" dia. x ¼" flat	RS244*	.30 ea.
2" long x ¼" dia. with 3/32" slot (Enclosed in tight-fitting tube) For adapting Universal Controls to automobile receivers when slotted shaft is needed.	RS245*	.35 ea.
2" long x ¼" wide x 3/32" Thick (Tongue shape and fitted with tube) For adapting Universal Controls to automobile receivers where tongue-shaped shaft is needed.	RS246*	.35 ea.
	*Packed 5 to Envelope	
Universal Flexible Coupling Shafts: For Universal replacement of all flexible wire shafts, coupling to ¼" solid shafts.	FS250	60
Shaft Coupling has 3/32" hole, ½" deep, with transverse pin, and is for use (with the correct Yaxley control) as a replacement for Philco Models 805, 806, 808, 809 and PHD and PHXD, Studebaker AC266, Pierce-Arrow MT-3, Reo RT-3, etc.	FS251	.60
Shaft Coupling has 5/64" hole, approximately ½" deep, and has 2 set screws opposite each other. It is used as a replacement for Philco Model D, Nash AC-989 (Code 122).	FS252	.60
Shaft Coupling has ¼" dia. hole, ½" deep, equipped with 2 screws at 90 degrees. This is to be used with the correct Yaxley Control as a replacement for Chevrolet No. 361411	FS253	.60
Universal Combination Extension Shaft Coupling and Reducer: Will couple two ¼" shafts or one ¼" shaft and one 3/16" shaft	EC240	.25
Universal Extension Bushing: Designed to screw on the present bushing of Yaxley volume controls and switches, so that the body of the control or switch will be held 5/8" away from the mounting surface. For example, it is used with the correct Yaxley Universal Control to service Philco Models 28, 29, 45 and 45C	EB247	.20
Universal Bushing and Nut: Designed to accommodate ¼" shaft wherever a panel bushing is desired	UB241 (Packed 10 in Envelope)	.75 for 10
Hexagon Shoulder Mounting Nuts:		
For ⅛" Panels	255	.10
For ½" Panels	A11260-12	.15
For ¾" Panels	A11260-2	.20
Volume Control Wrench: For all standard Volume Control Hexagon Nuts	178	.20
Adjustable Mounting Brackets:		
1¾" Mounting Centers	RB248†	.20 ea.
2½" Mounting Centers	RB249†	.20 ea.
	†Packed 6 to Box	

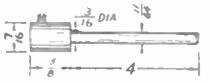
EXTENSION SHAFTS



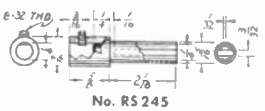
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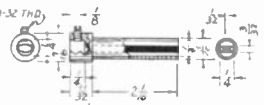
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No. RS244

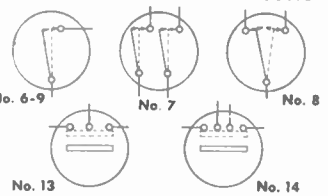


No. RS245

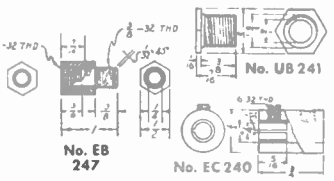


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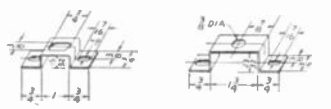
ATTACHABLE SWITCH CIRCUITS



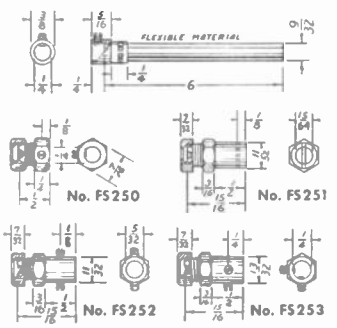
UNIVERSAL BUSHINGS—COUPLINGS



ADJUSTABLE MOUNTING BRACKETS



FLEXIBLE SHAFTS



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IRC INSULATED Metallized RESISTORS



½ Watt Type BT-½



1 Watt Type BT-1



2 Watt Type BT-2

. . . THE WORLD'S FINEST RESISTORS . . .

NOW AT THE LOWEST PRICES IN IRC HISTORY!

Insulated Metallized Resistors -developed by IRC—represent the outstanding resistance improvement in the history of radio. Millions are used annually for even the most critical applications in radio, sound and electrical equipment. Unexcelled for radio service and amateur uses, you will find them doubly attractive at today's new low prices. You can insure your reputation for good work by using the best on EVERY job.

The time proved Metallized resistance principle is retained in these new units. The ingenious sealed and Insulated construction insures lower operating temperatures with proportionately higher wattage dissipation. Insulated Resistors are conveniently small, sturdy, light in weight and fully sealed. Also, they have an exceptionally low noise level plus maximum protection against humidity.

They last longer—they're noise free, crack-proof and trouble free. Use them anywhere—even metal parts of the chassis can't short them.

The finest, most reliable resistors ever offered.

IRC INSULATED RESISTORS ARE BOTH COLOR CODED AND IMPRINTED WITH RESISTANCE VALUE AND WATTAGE RATING FOR QUICK, EASY IDENTIFICATION

NOTE THE CONSTRUCTION

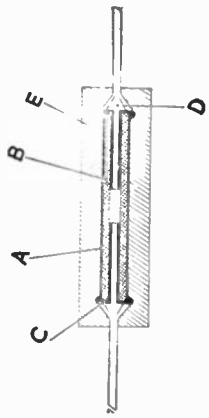
A—Famous Metallized Type Resistance Element. Completely Moisture-proof. Sealed Throughout.

B—Glass Tube.

C—Enclosed positive contact cannot be broken or become "open."

D—Highly tinned, flexible leads for quick, easy soldering.

E —High voltage insulating compound moulded around Metallized Element, sealing it from moisture and protecting unit against short circuiting.



½ WATT

(Type BT-½)—⅝" long x $\frac{3}{16}$" diameter. Made in all practical ranges. Carried in stock in all ranges shown on the accompanying list from 50 ohms to 20.0 megohms. **LIST PRICE 17c**

1 WATT

(Type BT-1)—1¼" long x ¼" diameter. Made in all practical ranges. Carried in stock in all ranges shown on accompanying list from 1 ohm to 20.0 megohms. **LIST PRICE 20c**

IMPORTANT NOTE: On orders for BT-1 Resistors under 500 ohms, Type BW-1 Wire Wound Insulated Resistors will be supplied. See complete description below. (*)

2 WATT

(Type BT-2)—1¾" long x $\frac{5}{16}$" diameter. Made in all practical ranges. Carried in stock in all ranges shown on accompanying list from 750 ohms to 10 megohms. **LIST PRICE 30c**

(*) INSULATED WIRE WOUND RESISTORS 1 WATT

(Type BW-1)—1½" long by ¼" diameter.
These are INSULATED wire wound resistors similar in appearance to the BT-1 Metallized units. Made in the low ranges, they offer new opportunities for stabilized inexpensive resistor applications in meters, as cathode bias resistors or for air cell battery use. They are most appropriate for use as center tap resistors, enabling many combirations of values to be obtained through parallel and series arrangements. Supplied on all orders for Type BT-1 Resistors under 500 ohms. **LIST PRICE 20c**

STANDARD STOCK RANGES

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

Ohms	Ohms	Ohms	Ohms	Meg.
1	250	3,000	20,000	0.25
2	300	3,500	22,500	0.3
3	350	4,000	25,000	0.4
5	400	5,000	30,000	0.5
7.5	450	6,000	35,000	0.6
10	500	7,000	40,000	0.75
15	600	7,500	50,000	1.0
20	750	8,000	60,000	1.5
25	800	9,000	65,000	2.0
30	1,000	10,000	70,000	3.0
40	1,250	11,000	75,000	4.0
50	1,500	12,000	0.1 meg.	5.0
100	2,000	12,500	0.125 "	6.0
150	2,250	15,000	0.15 "	7.0
200	2,500	17,500	0.2 "	10.0
				20.0



HANDY NEW INSULATED RESISTOR KITS

Each kit contains only the most popular ranges from which you can obtain hundreds of additional values by combining resistors in series or in parallel. Attractively designed with slide tray so that you can see exactly what units you have at a glance.

KIT No. 10
Contains 10-1 Watt Type BT-1 IRC Insulated Resistors in quick moving ranges.
LIST $2.00

KIT No. 11
Contains 10-½ Watt Type BT-½ IRC Insulated Resistors.
LIST $1.70

KIT No. 12
Contains 20-1 Watt Type BT-1 Insulated Resistors, in frequently used ranges, all in handy permanent Container. Kit includes RMA resistor color code chart, and also shows at a glance ranges of units that have been used so they may be re-ordered.
LIST $4.00



NEW!

TYPE ABA 10-WATT ADJUSTABLE

This new IRC midget adjustable has dozens of uses in amateur radio and service work. Use ABA's for odd range low power units — use them anywhere to complete a hurry-up job where you may not have the exact needed range in ½, 1 or 2-watt resistors. Small enough to fit in anywhere. See listing and price included on IRC Wire Wound page M-2.

RESIST-O-CHEST

This is the most popular, most useful kit ever offered. Supplies space for a complete stock of several hundred resistors and other small parts.
RESIST-O-CHEST is 8⅛" high, 4¾" wide by 5⅛" deep. Your own list of resistor ranges can be marked on gummed labels which are included. Handy formulas, computation chart permanently attached to Chest. Supplied complete with 56-1 Watt IRC Type "BT-1" Insulated Resistors—two each of the 28 most popular ranges which every radio man uses frequently. You pay only the new low cost of the resistors. The Resist-O-Chest is FREE.
List price of resistors $11.20.
Net (including FREE Chest).. ..... **$6.72**
(Chest sold separately for $1.50 list, 90c net)

GET ONE FREE!



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WIRE WOUND IRC RESISTORS

MOISTURE-PROOF LONGER LIFE

GREATER LOAD CAPACITY



Moisture Proof—Greater Load Capacity—Greater Mechanical Strength—Lower Surface Temperature—Longer Life

Built to stand overloads, intense heat, dampness and humidity—even salt water immersion—these unique IRC Cement Coated Power Wire Wound Resistors have proved their worth in the most exacting electrical requirements and for all radio receiver and transmitting equipment. Due to their durable Cement Coating, non-hygroscopic ceramic core, careful winding with only the highest quality resistance wire and special IRC construction, you'll find these by far the coolest, longest-lived power resistors for every service replacement, amateur, experimental and broadcasting need. Made in a full range of sizes, ratings and terminal types.

FIXED TYPES

10 WATTS
Type AB (Fixed)
1¾" x 5/16"
All Ranges
List, $0.40

RANGE	Max. m. a.
1 ohm	3150
2 "	2210
3 "	1830
5 "	1420
7.5 "	1150
10 "	1000
15 "	820
20 "	720
25 "	640
50 "	440
75 "	360
100 "	315
150 "	260
200 "	220
250 "	200
300 "	175
350 "	169
400 "	157
500 "	140
600 "	125
750 "	115
800 "	112
1,000 "	100
1,250 "	90
1,450 "	83
1,500 "	83
2,000 "	71
2,250 "	67
2,500 "	63
3,000 "	57
3,500 "	53
4,000 "	50
4,500 "	47
5,000 "	45
6,000 "	41
7,000 "	37
7,500 "	36
8,000 "	35
8,500 "	34
9,000 "	33
10,000 "	31
11,000 "	30
12,000 "	28
12,500 "	28
15,000 "	25
20,000 "	22
25,000 "	20

20 WATTS
Type DG (Fixed)
2" x 9/16"
Following Values
List $0.65

RANGE	Max. m. a.
1 ohm	4400
5 "	2000
10 "	1415
25 "	895
50 "	633
75 "	517
100 "	447
150 "	365
200 "	316
250 "	282
300 "	258
350 "	238
400 "	224
500 "	200
750 "	163
800 "	158
850 "	153
1,000 "	141
1,200 "	129
1,250 "	126
1,500 "	115
1,750 "	107
1,850 "	104
2,000 "	100
2,250 "	94
2,400 "	91
2,500 "	89
2,750 "	85
3,000 "	81
3,500 "	75
4,000 "	70

20 W., DG—Cont'd

4,500 Ohms	66
5,000 "	63
6,000 "	57
7,000 "	53
7,500 "	51
8,000 "	50
9,000 "	46
10,000 "	43
11,000 "	41
12,000 "	40
12,500 "	39
15,000 "	35

Following Values
List $0.75

20,000 ohms	30
25,000 "	28
30,000 "	25
35,000 "	23
40,000 "	22
50,000 "	20

50 WATTS
Type EP (Fixed)
4½" x ¾"
Mounting Brackets Included
List $1.10

RANGE	Max. m. a.
5 ohms	3165
10 "	2230
25 "	1390
50 "	1000
100 "	700
200 "	500
250 "	440
500 "	300
750 "	250
1,000 "	215
1,500 "	175
2,000 "	155
2,500 "	135
3,000 "	120
4,000 "	105
5,000 "	95

List $1.25

6,000 ohms	85
7,000 "	78
7,500 "	77
8,000 "	75
10,000 "	66
12,000 "	63
12,500 "	60
15,000 "	56
20,000 "	48
25,000 "	43

List $1.45

30,000 ohms	39
40,000 "	34
50,000 "	30
60,000 "	28
75,000 "	25
0.1 meg.	21

80 WATTS
Type ES (Fixed)
6½" x ¾"
Mounting Brackets Included
List $1.25

RANGE	Max. m. a.
5 ohms	4000
10 "	2730
25 "	1730
50 "	1220
100 "	865
200 "	612
250 "	545
500 "	387
750 "	316
1,000 "	274
1,500 "	223
2,000 "	193
2,500 "	173
3,000 "	158
4,000 "	137
5,000 "	122

80 W., ES—Cont'd
List $1.50

6,000 ohms	112
7,500 "	100
8,000 "	98
10,000 "	86
15,000 "	70
20,000 "	61
25,000 "	55

List $1.75

30,000 ohms	50
40,000 "	43
50,000 "	39

List $2.00

60,000 ohms	35
75,000 "	31

List $2.25

0.1 meg.	27

100 WATTS
Type HA (Fixed)
6½" x 1⅛"
Mounting Brackets Included
List $1.50

RANGE	Max. m. a.
25 ohms	2000
50 "	1414
75 "	1155
100 "	1000
150 "	815
250 "	632
500 "	447
750 "	365
1,000 "	315
1,250 "	280
1,500 "	250
2,000 "	220
2,500 "	200
3,000 "	180
5,000 "	140

List $1.75

7,500 ohms	115
10,000 "	100
15,000 "	80
20,000 "	70
25,000 "	63

List $2.00

30,000 ohms	58
40,000 "	50
50,000 "	44

List $2.25

60,000 ohms	41
75,000 "	36

List $2.50

0.1 meg.	31

200 WATTS
Type HO (Fixed)
10½" x 1⅛"
Mounting Bracket Included
List $2.50

RANGE	Max. m. a.
25 ohms	2830
50 "	2000
100 "	1414
250 "	804
500 "	632
750 "	515
1,000 "	447
1,500 "	365
2,000 "	316
2,500 "	283
3,000 "	258
5,000 "	200
7,500 "	163
10,000 "	141

List $3.00

15,000 ohms	115
20,000 "	100
25,000 "	90
30,000 "	81
40,000 "	70
50,000 "	63
60,000 "	57
75,000 "	51
0.1 meg.	44

ADJUSTABLES TYPES

10 WATTS
Type ABA (Adjustable)
1¾" x 5/16"
Extra Bands List $0.10
All Ranges List $0.60

RANGE	Max. m. a.
1 ohm	3150
2 "	2210
3 "	1830
5 "	1420
7.5 "	1150
10 "	1000
15 "	820
20 "	720
25 "	640
50 "	440
75 "	360
100 "	315
150 "	260
200 "	220
250 "	200
300 "	175
350 "	160
400 "	157
500 "	140
600 "	125
750 "	115
800 "	112
1,000 "	100
1,250 "	99
1,450 "	83
1,500 "	83
2,000 "	71
2,250 "	67
2,500 "	63
3,000 "	57
3,500 "	53
4,000 "	50
4,500 "	47
5,000 "	45
6,000 "	41
7,000 "	37
7,500 "	36
8,000 "	35
8,500 "	34
9,000 "	33
10,000 "	31

25 WATTS
Type DHA (Adjustable)
2½" x 9/16"
Extra Bands List $0.10
List $0.85

RANGE	Max. m. a.
1 ohm	5000
3 "	2850
5 "	2200
10 "	1580
15 "	1290
25 "	1000
50 "	710
75 "	575
100 "	800
150 "	400
200 "	353
250 "	320
300 "	289
400 "	250
500 "	224
750 "	182
800 "	177
1,000 "	158
1,250 "	141
1,500 "	129
2,000 "	112
2,250 "	105
2,500 "	100
3,000 "	91
3,500 "	84
4,000 "	79
5,000 "	71

List $0.95

6,000 ohms	64
7,500 "	58
8,000 "	56
9,000 "	53
10,000 "	50
12,000 "	45
15,000 "	41

25 W., DHA—Cont'd
List $1.10

20,000 ohms	35
25,000 "	32

50 WATTS
Type EPA (Adjustable)
4½" x ¾"
Mtg. Brackets Incl.
Extra Bands List $0.10
List $1.35

RANGE	Max. m. a.
5 ohms	3165
10 "	2230
25 "	1390
50 "	1000
75 "	810
100 "	700
150 "	550
200 "	500
250 "	440
300 "	375
400 "	350
500 "	300
750 "	250
800 "	248
1,000 "	215
1,250 "	195
1,500 "	175
2,000 "	155
2,500 "	135
3,000 "	120
4,000 "	105
5,000 "	95

List $1.50

6,000 ohms	85
7,500 "	77
8,000 "	75
10,000 "	66
12,000 "	63
15,000 "	56
20,000 "	48
25,000 "	43

List $1.70

30,000 ohms	30
40,000 "	34
50,000 "	30

List $2.00

60,000 ohms	28
75,000 "	25

80 WATTS
Types ESA (Adjustable)
6½" x ¾"
Mtg. Brackets Incl.
Extra Bands
List $0.15
List $1.75

RANGE	Max. m. a.
5 ohms	4000
10 "	2730
15 "	2230
25 "	1730

List $1.75

50 ohms	1220
100 "	865
200 "	612
250 "	545
300 "	500
400 "	430
500 "	387
750 "	316
800 "	305
1,000 "	274
1,500 "	223
2,000 "	193
2,500 "	173
3,000 "	158
3,500 "	145
4,000 "	137
5,000 "	122

80 W., ESA—Cont'd
List $2.00

6,000 ohms	122
7,500 "	100
8,000 "	98
10,000 "	86
15,000 "	70
20,000 "	61
25,000 "	55

List $2.25

30,000 ohms	50
35,000 "	47
40,000 "	43
45,000 "	41
50,000 "	39

List $2.50

60,000 ohms	35
80,000 "	30
0.1 meg.	27

100 WATTS
Type HAA (Adjustable)
6½" x 1⅛"
Mounting Brackets Included
Extra Bands List $0.15
List $2.00

RANGE	Max. m. a.
100 ohms	1000
200 "	710
400 "	500

List $2.00

500 ohms	447
750 "	365
1,000 "	315
1,500 "	250
2,000 "	220
2,500 "	200
3,000 "	180
4,000 "	155
5,000 "	140

List $2.25

6,000 ohms	130
7,500 "	115
8,000 "	110
10,000 "	100
15,000 "	80
20,000 "	70
25,000 "	63

List $2.50

30,000 ohms	58
40,000 "	50
50,000 "	44

List $2.75

60,000 ohms	41
75,000 "	36
0.1 meg.	31

200 WATTS
Type HOA (Adjustable)
10½" x 1⅛"
Mounting Brackets Included
Extra Bands
List $0.15—Net $0.09
List $3.00

RANGE	Max. m. a.
100 ohms	1414
500 "	632
1,000 "	447
1,500 "	365
2,000 "	316
2,500 "	283
3,000 "	258
5,000 "	200
10,000 "	141

List $3.50

15,000 ohms	115
20,000 "	100
25,000 "	90
30,000 "	81
40,000 "	70
50,000 "	63
60,000 "	57
75,000 "	51
0.1 meg.	44

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RESISTORS OHMITE RHEOSTATS

"Red Devil" Wire-Wound Resistors



Only unit capable of withstanding heat test. Porcelain core covered with cement to prevent injury. All units have 1½" tinned wire leads. 10-watt 1¾" long; 20-watt 2" long.

10-Watt Rating

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
50	447	700	119	2250	64	8000	31
75	365	750	115	2500	61	8500	30
100	315	800	111	3000	56	10000	24
150	258	900	105	3500	51	12000	20
200	223	1000	100	4000	47	12500	20
250	200	1200	91	4500	44	15000	18
300	182	1250	89	5000	40	17500	17
350	169	1500	79	6000	36	18000	16
400	158	1750	74	7000	33	20000	15
500	141	2000	69	7500	32	22500	15
600	129					25000	14

List Price **$0.40**

20-Watt Rating

Ohms	Mils.	Volts	Ohms	Mils.	Volts	Ohms	Mils.	Volts
30000	21	630	55000	10	550	80000	8	693
35000	18	648	60000	10	600	85000	7	595
40000	17	694	65000	9	585	90000	6.5	600
45000	14	630	70000	9	650	95000	6	570
50000	11	550	75000	9	670	100000	6	633
List Price		**$0.75**	**List Price**		**$1.00**	**List Price**		**$1.00**

"BROWN DEVIL"

Vitreous Enameled Resistors



Vitreous enamel coating instead of cement. Resists moisture. Size 10-watt 1¾" x ⅜": 20-watt 2" x ½".

10-Watt Rating

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
50	22	700	83	2250	144	8000	248
75	27	750	86	2500	154	8500	245
100	31	800	88	3000	169	10000	245
150	38	900	94	3500	179	12000	245
200	44	1000	100	4000	190	12500	250
250	50	1200	109	4500	197	15000	274
300	54	1250	111	5000	200	17500	298
350	59	1500	119	6000	219	18000	288
400	63	1750	130	7000	230	20000	316
500	70	2000	138	7500	245	22500	338
600	77					25000	354

List Price **$0.40**

20-Watt Rating

Ohms	Mils.	Volts	Ohms	Mils.	Volts	Ohms	Mils.	Volts
30000	21	635	55000	11	550	80000	8	693
35000	18	648	60000	10	600	85000	7	635
40000	17	694	65000	10	650	90000	6.5	600
45000	13	585	70000	9	650	95000	6	600
50000	11	550	75000	9	670	100000	6	633
List Price		**$0.75**	**List Price**		**$1.00**	**List Price**		**$1.00**

OHMITE "WIRE WATT"

1-Watt Wire Wound Resistors



Wire wound over core of special insulating material. Ends of wire mechanically locked and then brazed to terminal lugs to insure freedom from noise. 5% accurate. 1½" tinned wire leads. RMA color coded. Size 1¾" x 1¼".

Ohms	Mils.	Volts	Ohms	Mils.	Volts
100	100	10	2250	21	46
150	81	12	2500	20	50
200	70	14	3000	18	54
250	63	15	3500	16	56
300	67	17	4500	14	63
400	50	20	5000	14	70
500	44	22	6000	12	72
600	40	24	7000	11	77
700	37	26	7500	11	82
750	36	27	8000	11	88
800	35	28	9000	10	90
1000	31	31	10000	10	100
1100	30	33	12500	9	110
1200	28	33	15000	8	120
1250	28	35	17500	7	122
1500	25	37	20000	7	140
1750	23	40	22500	6	135
2000	22	44	25000	6	150

List Price, Each **$0.25**

"DIVIDOHM"

Vitreous Enameled Semi-Variable Resistors

OHMITE



Ideal replacement voltage dividers. Mounting brackets furnished with all units. Adjustable lugs, which lock in place, may be had. Resistance wire is wound over a porcelain core. Vitreous enamel covers 80% of the surface and protects the unit from mechanical and electrical injury. Wire cannot shift. Easy to set the lugs. Units are also available with fixed resistances.

25 WATTS

Size 2" x ⅝". Mounting centers 2¾".

Fixed Res. List	Res. Ohms.	Max. Cur. Mills	Var. Res. List
....	1	5450	$0.85
....	2	3880	.85
....	3	3160	.85
$0.75	5	2440	.85
....	7.5	2000	.85
.75	10	1730	.85
....	15	1410	.85
....	20	1220	.85
.75	25	1090	.85
.75	50	770	.85
.75	75	630	.85
.75	100	545	.85
.75	150	445	.85
.75	200	385	.85
....	300	310	.85
....	400	272	.85
.75	500	245	.85
.75	750	200	.85
.75	1000	173	.85
....	1250	155	.85
.75	1500	141	.85
.75	2000	122	.85
.75	2500	109	.85
.75	3000	100	.85
.75	3500	92	.85
.75	4000	86	.85
.75	5000	77	.85
.85	6000	70	.95
....	7000	65	.95
.85	7500	63	.95
....	8000	60	.95
....	9000	56	.95
.85	10000	54	.95
.85	12000	50	.95
.85	15000	44	.95
1.00	20000	36	1.10
1.00	25000	33	1.10

50 WATTS

Size 4" x ⅝". Mounting centers 4¾".

Fixed Res. List	Res. Ohms	Max. Cur. Mills	Var. Res. List
$1.10	5	3300	$1.35
1.10	10	2340	1.35
1.10	25	1480	1.35
1.10	50	1048	1.35
1.10	75	850	1.35
1.10	100	740	1.35
1.10	150	600	1.35
1.10	200	520	1.35
....	300	425	1.35
....	400	360	1.35
1.10	500	330	1.35
1.10	750	270	1.35
1.10	1000	234	1.35
....	1250	210	1.35
1.10	1500	190	1.35
1.10	2000	165	1.35
1.10	2500	148	1.35
1.10	3000	135	1.35
....	3500	126	1.35
1.10	5000	104	1.35
....	6000	94	1.50
....	7000	87	1.50
1.25	7500	85	1.50
1.25	8000	82	1.50
....	9000	76	1.50
1.25	10000	74	1.50
1.25	15000	60	1.50
1.25	20000	50	1.50
1.25	25000	45	1.50
....	30000	43	1.70
1.45	50000	34	1.70
1.45	100000	23	2.00

75 WATTS

Size 6" x ⅝". Mounting centers 7".

	10	2730	$1.75
	15	2230	1.75
	25	1730	1.75
	50	1220	1.75
	100	865	1.75
	200	612	1.75
Fur-	300	500	1.75
nished	400	432	1.75
in	500	387	1.75
Var.	750	316	1.75
Res.	1000	274	1.75
Only	1250	245	1.75
	1500	223	1.75
	2000	193	1.75
	2500	173	1.75
	3000	158	1.75
	3500	146	1.75
	4000	137	1.75
	5000	122	1.75
	6000	112	2.00
	7000	103	2.00
	7500	100	2.00
	8000	98	2.00
	9000	92	2.00
	10000	86	2.00
	12000	79	2.00
	15000	70	2.00
	20000	61	2.00
	25000	55	2.00
	35000	47	2.25
	40000	43	2.25
	50000	39	2.25
	100000	27	2.50

100 WATTS

Size 6½" x ⅞". Mounting centers 7¼".

$1.50	100	1000	$2.00
1.50	500	445	2.00
1.50	1000	316	2.00
1.50	2500	200	2.00
1.50	5000	140	2.00
1.75	10000	100	2.25
1.75	15000	81	2.25
1.75	20000	70	2.25
1.75	25000	63	2.25
2.00	30000	57	2.50
2.00	50000	44	2.50
2.25	75000	36	2.75
2.50	100000	31	2.75

160 WATTS

Size 8½" x 1¼". Mounting centers 9¼".

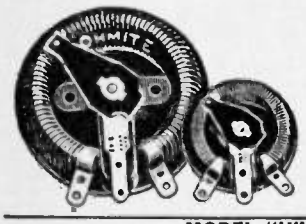
$2.00	100	1410	$2.50
2.00	500	630	2.50
2.00	1000	445	2.50
2.00	2500	280	2.50
2.00	5000	200	2.50
2.00	10000	140	2.50
2.40	15000	115	2.90
2.40	20000	100	2.90
2.40	25000	89	2.90
2.40	30000	81	2.90
2.40	50000	63	2.90
2.70	75000	51	3.25
2.70	100000	44	3.25

ADJUSTABLE LUGS

No.	List Price
0358—For ⅝" dia. resist...	$0.10
1958—For ⅞" dia. resist...	.15
2158—For 1¼" dia. resist...	.15

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RESISTORS OHMITE RHEOSTATS



OHMITE VITREOUS ENAMELLED RHEOSTATS

Every particle of material in the rheostats is either porcelain or metal: there is nothing to smoke or char. All models have insulated shafts and provision to keep the units from turning. Wire is wound over a porcelain core which is fused to porcelain base by vitreous enamel. Contact shoe is of metal-impregnated carbon-graphite. Ratings are for open air use. A trouble-free unit of small size and high wattage rating. Ohmite rheostats are also available in 300- and 500- watt sizes.

INSULATED SHAFTS AND BUSHINGS

MODEL "H"—25 Watt
Diameter 1½": depth behind panel 1½".

Stk. No.	Total Ohms Resist.	Max. Current Mils.	List Price
0140	1	5000	$4.50
0141	2	3450	4.00
0142	3	2880	4.00
0143	6	2040	4.00
0144	8	1770	4.00
0145	10	1580	4.00
0146	15	1290	4.00
0147	25	1000	4.00
0148	35	845	4.00
0149	50	709	4.00
0150	75	575	4.00
0151	100	500	4.00
0152	125	445	$4.00
0153	175	375	4.00
0154	250	315	4.00
0155	350	267	4.00
0156	500	222	4.00
0157	750	173	4.00
0158	1000	155	4.50
0159	1500	129	4.50
0160	2500	100	4.50
0161	3500	84	4.75
0162	5000	70	4.75

MODEL "J"—50 Watt
Diameter 2¼": depth behind panel 1½".

Stock No.	Total Ohms Resist.	Max. Current Mils.	List Price
0308	0.5	10000	$5.00
0309	1	7070	5.00
0310	2	5000	5.00
0311	4	3500	4.50
0312	6	2880	4.50
0313	8	2500	4.50
0314	12	2040	4.50
0315	16	1760	4.50
0316	22	1500	4.50
0317	35	1190	4.50
0318	50	1000	4.50
0319	80	790	4.50
0320	125	630	4.50
0321	150	575	$4.50
0322	225	470	4.50
0323	300	405	4.50
0324	500	315	4.50
0325	800	250	4.75
0326	1000	220	4.75
0327	1600	176	4.75
0328	2500	140	4.75
0329	3500	119	5.00
0330	5000	100	5.00
0331	8000	79	5.00
0332	10000	70	5.00

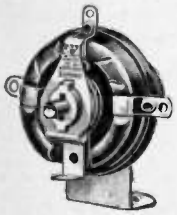
MODEL "K"—100 Watt
Diameter 3⅛": depth behind panel 1¾".

Stk. No.	Total Ohms Resist.	Max. Current Mils.	List Price
0440	0.5	12500	$7.50
0441	1	10000	7.50
0442	2	7070	7.50
0443	3	5750	7.50
0444	5	4450	7.00
0445	7.5	3650	7.00
0446	10	3150	7.00
0447	16	2500	7.00
0448	25	2000	7.00
0449	50	1420	7.00
0450	75	1150	7.00
0451	100	1000	7.00
0452	200	707	$7.00
0453	300	575	7.00
0454	400	500	7.00
0455	500	445	7.00
0456	750	365	7.00
0457	1000	315	7.50
0458	1500	258	7.50
0459	2000	224	7.50
0460	2500	200	7.50
0461	5000	141	8.00
0462	7500	115	8.50
0463	10000	100	9.00

MODEL "L"—150 Watt
Diameter 4": depth behind panel 1¾".

Stock No.	Total Ohms Resist.	Max. Current Mils.	List Price
0524	0.5	15000	$9.50
0525	1	12500	9.50
0526	2	8650	9.50
0527	3	7070	9.50
0528	5	5480	9.50
0529	7.5	4470	9.00
0530	10	3880	9.00
0531	15	3163	9.00
0532	25	2450	9.00
0533	35	2070	9.00
0534	50	1735	9.00
0535	75	1415	9.00
0536	100	1225	9.00
0537	150	1000	$9.00
0538	200	865	9.00
0539	250	775	9.00
0540	350	655	9.00
0541	500	548	9.00
0542	750	447	9.50
0543	1250	346	9.50
0544	1800	288	10.00
0545	2250	259	10.00
0546	3000	224	10.00
0547	4500	182	10.50
0548	7500	141	11.00
0549	10000	122	12.00

OHMITE BAND SWITCH



Contains no organic material. Made of porcelain, vitreous-enamel and metal. Each switch has 3 contacts. Mounting brackets and bakelite knobs are furnished with the switches. Efficient because of their low-loss, porcelain construction, low-contact resistance, and high current-carrying ability.

List Price, Complete with Knob and Mounting Bracket **$3.00**

"MULTIVOLT" Tapped Vitreous Enamelled Resistors



Each resistor has 10 equal sections. Each unit furnished with mounting brackets. **Voltage rating given is per section.**

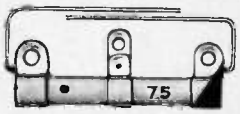
150 Watts
Size 8½"x1¼".
Mounting Centers 9¼".

Stk. No.	Res. Ohms	Max. Mils.	Max. Volts	List Price
1601	100	1225	12	$3.50
1602	500	548	26	3.50
1603	1000	385	38	3.50
1604	2500	245	60	3.50
1605	5000	173	85	3.50
1606	10000	122	120	4.00
1607	15000	100	150	4.00
1608	20000	86	170	4.00
1609	25000	77	190	4.00
1610	30000	63	190	4.00
1611	40000	50	200	4.00
1612	50000	40	200	4.00
1613	75000	26	200	4.75
1614	100000	17	175	4.75

75 Watts
Size 6½"x⅜".
Mounting Centers 7¼".

Stk. No.	Res. Ohms	Max. Cur. Mils	Max. Volts	List Price
1401	100	865	9	$2.75
1402	500	387	19	2.75
1403	1000	274	27	2.75
1404	2500	173	43	2.75
1405	5000	122	61	2.75
1406	10000	86	86	2.75
1407	15000	70	105	2.75
1408	20000	61	120	2.75
1409	25000	50	125	2.75
1410	30000	44	130	3.00
1411	40000	33	130	3.00
1412	50000	24	120	3.00

OHMITE CENTER-TAPPED RESISTORS



Center-tapped resistors are usually used across radio tube filaments to provide an electrical center when the transformer has no center-tap of its own.

"WIRE WATT"—1 Watt

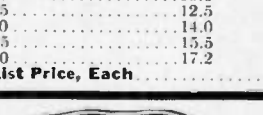
Res. Ohms.	Max. Volts	Res. Ohms	Max. Volts
10	3.15	40	6.3
15	3.85	50	7.0
20	4.4	75	8.5
25	5.0	100	10.0
30	5.3	200	14.0

List Price, Each **$0.35**

"RED DEVIL"—10 Watt

Res. Ohms.	Max. Volts	Res. Ohms.	Max. Volts
10	10.0	40	20.0
15	12.5	50	22.3
20	14.0	75	27.3
25	15.5	100	31.5
30	17.2	200	44.5

List Price, Each **$0.50**



"CORDOHM" Line Cord Resistor For A.C.-D.C. Sets

Replaces the internal voltage dropping resistor in older A.C.-D.C. sets thereby keeping the heat produced outside of the receiver. A third element in the line cord reduces the line voltage to that required by the tubes.

Stock No.	Voltage Drop	Ohms.	Stock No.	Voltage Drop	Ohms
C-330	18.0 to 24.0	330	C-180	53.0 to 61.0	180
C-290	25.0 to 31.5	290	C-160	62.0 to 68.9	150
C-250	32.0 to 44.5	250	C-135	69.0 to 75.2	135
C-220	45.0 to 52.0	220			

List Price, Any Value **$0.80**

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DEPENDABLE MUTER PRODUCTS

MORE WATTS PER DOLLAR — ZIPOHM — MORE WATTS PER INCH

5 WATT ZIPOHM WIRE WOUND REPLACEMENT RESISTORS



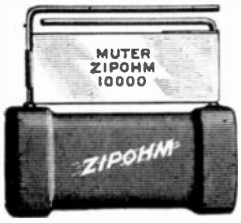
Size 1½" x ½"

Zipohms are flat and fit into tight places easily. The 1½" tinned leads are long enough for unusual installations. Accuracy is 5% and each unit is impregnated with a protective high temperature electric cement.

Number	Ohms	Number	Ohms	Number	Ohms	Number	Ohms
910 —	100	922 —	800	934 —	3500	944 —	12,500
911 —	125	923 —	900	935 —	4000	950 —	15,000
912 —	150	924 —	1000	936 —	4500	951 —	16,000
913 —	200	925 —	1100	937 —	5000	952 —	17,500
914 —	250	926 —	1200	938 —	6000	953 —	18,000
915 —	300	927 —	1250	939 —	7000	954 —	20,000
916 —	350	928 —	1500	940 —	7500	955 —	22,500
917 —	400	929 —	1750	941 —	8000	956 —	25,000
918 —	500	930 —	2000	942 —	9000	NOTE	
919 —	600	931 —	2250	943 —	10,000	Size of the above 8 units is ½"x2"	
920 —	700	932 —	2500				
921 —	750	933 —	3000				

List Price of Above Units—25c

10 WATT ZIPOHM WIRE WOUND REPLACEMENT RESISTORS



Size 1½" x ¾"

Number	Ohms	Number	Ohms	Number	Ohms	Number	Ohms
1005 —	5	1033 —	200	1044 —	1000	1056 —	4500
1010 —	10	1034 —	250	1046 —	1200	1057 —	5000
1020 —	20	1035 —	300	1048 —	1500	1058 —	6000
1025 —	50	1036 —	350	1050 —	2000	1060 —	7500
1027 —	75	1037 —	400	1052 —	2500	1063 —	10,000
1030 —	100	1038 —	500	1053 —	3000	1064 —	12,000
1031 —	125	1039 —	600	1054 —	3500	1067 —	15,000
1032 —	150	1041 —	750	1055 —	4000	1071 —	20,000
						1073 —	25,000

List Price of Above Units—40c

ZIPOHM SPECIAL RESISTOR KIT FOR SERVICEMEN

$15.45 Value for $11.75

57 Zipohms in 27 different varieties



The large clearly marked aluminum tags make it possible to quickly select the desired resistor value. Kit assortment is supplied in the compact, convenient box shown above. Size of box, 8¼ x 3¾ x 2½, weight, 1 lb.

5 Watt	Ohms	5 Watt	Ohms	5 Watt	Ohms	10 Watt	Ohms
2	100	4	750	4	5,000		
1	150	5	1,000	1	6,000	2	10,000
2	200	1	1,250	1	7,500		
1	250	3	1,500	2	10,000	2	15,000
2	300	4	2,000	1	15,000		
1	400	4	2,500	1	20,000	2	20,000
4	500	2	3,500				
1	600	1	4,000	1	25,000	2	25,000

The above units contained in the Zipohm Kit have been very carefully selected from frequency charts and will cover 80% of average replacement requirements for wire wound resistors. Other wire wound resistor values not contained in the Kit are listed above.

Stock No. 1075—Zipohm Resistor Kit $11.75

ORIGINAL EQUIPMENT CANDOHM REPLACEMENT RESISTORS



U. S. PATENT NO. 1,789,150

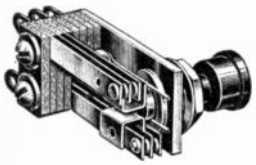
Candohm patented wire-wound resistors and Voltage Dividers are found in practically all radio sets today. Make replacements with genuine Muter units exactly the same as supplied manufacturers originally. LOOK FOR THE SET MANUFACTURERS' PART NUMBER STAMPED IN THE METAL CANDOHM CASE, which makes it easy to order. We can supply any Candohm, give name of set and manufacturer's part number. Do not order by model. If unable to locate part number, send actual unit to be replaced.

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DEPENDABLE MUTER PRODUCTS

MUTER PUSH BUTTON SWITCHES

NON-LOCKING TYPE WITH BAKELITE BUTTON

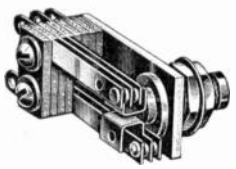


Size 1⅞" x ¾" x 1 5/16"
Bakelite buttons are removable without loosening set screw.

Stock No.	Description	List
4500	Single Pole Make Contact	$ .90
4501	Single Pole Break Contact	.90
4502	Single Pole Double Throw	1.00
4503	2 Pole—Make 2 Contacts	1.20
4504	2 Pole—Break 2 Contacts	1.20
4505	2 Pole—Double Throw	1.50
4506	2 Pole—Make 2—Break 1	1.30
4507	Double Throw—Make Before Break	1.65

NOTE.—To remove the bakelite button, merely rotate through one-half a turn and at the same time pull. To re-assemble, push in and at the same time rotate 180°. The button remains locked in postiion, held by a new unique spring design.

NON-LOCKING TYPE WITH METAL BUTTON



Size 1⅞" x ¾" x 1⅛"
Switches have built-in lifters, eliminating trouble from loose parts.

Stock No.	Description	List
4520	Single Pole Make Contact	$ .90
4521	Single Pole Break Contact	.90
4522	Single Pole Double Throw	1.00
4523	2 Pole—Make 2 Contacts	1.20
4524	2 Pole—Break 2 Contacts	1.20
4525	2 Pole—Double Throw	1.50
4526	2 Pole—Make 2—Break 1	1.30
4527	Double Throw—Make Before Break	1.65

NOTE.—This series of Muter Push Button Switches are equipped with permanent lifters which are positive acting and cannot be removed. All metal parts are plated.

SINGLE POLE PUSH BUTTON SWITCH



Size 1⅛" x ⅞" x 1¼"
Compact switch which can be used when back of panel space is very limited.

Stock No.	Description	List
4540	Single Pole Make Contact Non-Locking Type	70c

SPECIAL FEATURES.—A rugged compact switch using less space back of panel. Equipped with phosphor bronze springs, easily accessible solder lugs and metal push button insulated from contacts.

Midget Knife Throw Switches



Single Pole Single Throw
Base 1¼" long, ½" wide.
Jobbers' standard quantity 50.
Weight per 100 is 2 lbs.
Stock No. 1900.....List Price $0.15

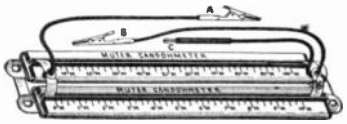


Single Pole Double Throw
Base 1¼" long, ½" wide.
Jobbers' standard quantity 50.
Weight per 100 is 2½ lbs.
Stock No. 1925.....List Price $0.25



Double Pole Double Throw
Base 1¼" long, 1" wide.
Jobbers' standard quantity 25.
Weight per 100 is 5 lbs.
Stock No. 1950.....List Price $0.40

Candohmeter Resistance Indicators



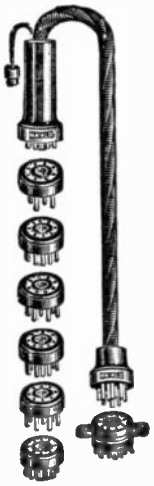
Description—An accurate uniform wire-wound resistor insulated from and enclosed in metal housing with exposed slot permitting contact with resistor. Furnished with insulated handle test prods. Has two scales, the upper one to determine approximate value, the lower to permit more accurate reading within that range. Serves to determine proper resistance to replace a defective resistor; useful as a voltmeter multiplier to secure high voltage readings with low-range voltmeter; also serves as calibrated resistor for use in experimental work. Packed in individual boxes 1¾"x1"x7½" with complete instructions for use. Approximate weight 7 oz. Jobbers' standard quantity 10.

Stock No.	Range in Ohms	List Price
1700	0 to 10,000 and 0 to 100,000	$2.00
1701	0 to 100 and 0 to 1,000	1.75

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METAL NA-ALD TUBE ACCESSORIES AND PARTS

New 9-Wire Octal Locking Analyzer Plug and Associate Adapters



New compact locking adapters with silver-plated clips for positive contact. Analyzer plug has special octal locking-base. Dual grid-stud takes both glass and metal tube cap-clips.

No.		List Price
908	Octal Analyzer Plug	$2.50
	5 ft. of 9-wire cable attached with 9-prong cable-plug and 9-contact socket to match	3.00
	Adapters	
984TL	8 to 4 prongs	1.00
985TL	8 to 5 prongs	1.00
986TL	8 to 6 prongs	1.00
987TL	8 to 7 (large)	1.00
987TLA	8 to 7 (small)	1.00
988TL	8 to 8 (octal)	1.00
908C	Kit—Complete as described above	$11.50

UNIVERSAL Metal Tube Checking Adapter

Checks All Metal Tubes In Any Tube Checker



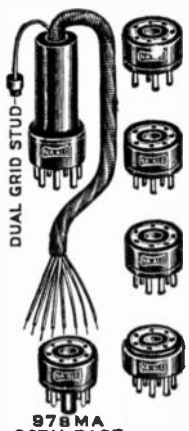
For those who prefer a universal adapter.

Every one of the new Metal Tubes is tested in this adapter which is always used in the 36 socket of any tube checker. Two toggle switches are provided for a thorough and complete test on every metal tube including both plates of the 6H6 and 5Z4 and both sections of the twin class "B" tube.

No.	List Price
950GEM	$6.50

New Small Seven Analyzer Plug with Dual Grid Cap

Cable Attached and Associate Adapters Including Octal



This Kit includes the small 7-prong analyzer plug with dual grid cap for glass and metal tubes, and cable attached together with associate adapters. The analyzer plug has the small base for entering closely-shielded sockets.

No.		List Price
907PA	Sm. 7-Analyzer Plug	$0.75
SMGD	Dual Grid Cap for Plug	.10
	5 ft. 8-wire cable attached	1.50
	Adapters—	
974DA	Sm. 7 to 4 pr.	.50
975DA	Sm. 7 to 5 pr.	.50
976DA	Sm. 7 to 6 pr.	.50
977D	Sm. 7 to 7 pr.	.50
978MA	Sm. 7 to 8 octal	1.00
907CA	Kit—Complete	$5.35

New Miniature Cap Contacts for Metal Tubes



Lustre nickel-plated brass tube-cap clips for contacting miniature caps on new metal tubes, with tubular wire terminal attached.

No.	List Price
CS-90T	Each 5c

Adapter for converting the regular control-grid clip to contact the new ¼" miniature cap used on the G. E. metal tubes.



No.	List Price
90-SM	Each 15c

Octal Grid Lug for Analyzer Plugs



Modernizes the old analyzer plugs having two grid studs. Replaces one of two regular studs for accommodating new small grid-clips used on metal tubes.

No.	List Price
SMGO	Each 10c

Double-ended molded Control-Grid Clip for contacting both regular and new miniature metal tube caps.



No.	List Price
9091	Each 20c

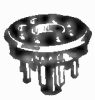
Octal Laboratory Socket



Easiest socket to use. Two holes easily drilled with hand-drill mount socket. Individual holes at contacts can be drilled for below-chassis wiring. Knurled nickel-plated binding posts —attractice in appearance—special contacts insure dependable operation under continual use. Flat base permits convenient use in temporary set-ups.

No.	List Price
498	Each 75c

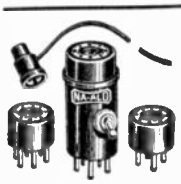
One-Piece Octal-Based Molded Speaker-Plug



Eight prongs securely molded in. Each conductor protected with molded insulation to prevent short from pushed-back braid.

No.	List Price
108	Each 15c

900-GE Kit



Recommended by G. E. engineers

944M1 checks 5Z4 in 80 socket
975M1 checks 6H6 in 37 socket
986M1 checks 6A8 in 78 socket
986M1 checks 6C5 in 41 socket
986M1 checks 6D5 in 42 socket
986M1 checks 6F6 in 42 socket
986M1 checks 6J7 in 77 socket
986M1 checks 6K7 in 78 socket
986M1 checks 6L7 in 78 socket

For checking the 6F5 Tube, the 956M1 Adapter listing at **$1.00** is recommended for use in the 75 socket of any tube checker.

No. 900GE Kit—
List Price, per Set **$4.80**

New ALL-METAL TUBE Adapters for Analyzers



Modernizes old set analyzers for use with all-metal tubes.

978MSA—†Small 7-latch lock plug. Octal sockets, except 5Z4 tubes.
List Price, $1.25

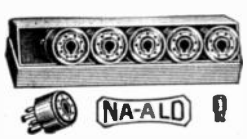
975MSA—Small 7-latch lock plug for 5Z4.
List Price, $1.25

987M3A—Octal tubes except 5Z4. Small 7-panel socket.
List Price, $1.00

944M1—Used on 5Z4 tube in UX analyzer socket.
List Price, $1.00

*If no latch-lock stud is required, order 978MA (**$1.00**).
†If no latch-lock required order 975MA (**$1.00**).

900-RCA Kit



Set of Seven Individual Adapters for Checking All Types of Metal Tubes

Recommended by RCA engineers. Each adapter checks metal tube in the socket of the nearest glass tube counterpart:

944M1	checks 5Z4 in 80	socket
987M1A	checks 6A8 in 6A7	socket
965M1	checks 6C5 in 76	socket
956M1	checks 6F5 in 75	socket
976M5R	checks 6H6 in 85	socket
986M1	checks 6F6 in 42	socket
986M1	checks 6J7 in 77	socket
986M1	checks 6K7 in 78	socket
986M1	checks 6L7 in 78	socket

90SM adapts metal tube caps to regular clip.
Complete instructions furnished with all sets.

No. 900RCA
List Price, per Set **$6.40**

Adapters for Using the New Metal Tubes in Any Set



Any set having a tube which is listed below in the first column can be modernized in a few seconds by replacing this old-type tube with the NEW METAL TUBE listed alongside.

Old Tube Replaced	New Metal Tube Used	No. of Adapter
80	5Z4	944M1
75 triode	6F5	956M1
37 or 76	6C5	965M1
41 or 42	6D5	966M5
77 or 6C6	6J7	976M1
78 or 6D6	6K7	976M1
41 or 42	6F6	976M1
75 or 85	6Q7	976M1
43	25A	976M1
6F7	6P7	977M5A
6A6	6N7	987M1
6A7	6A8	987M1A

List Price, Each **$1.00**

Note—When using the 6A8, 6Q7, 6J7 or 6K7 Metal Tubes the No. 90-SM Adapter (**List Price, 15c**) is required.

Here are the adapters for checking all ten of the new Metal Tubes in any earlier type tube checker not having the sockets mentioned above:



976M5—For checking the new 6H6 in the 85 diode socket.
List Price **$1.00**

985M1—Checks the new 6A8, 6C5, 6D5, 6F6, 6J7, 6K7 and 6L7 tubes in the 36 socket and the new class "B" twin amplifier metal tube in the 37 socket.
List Price ..... **$**

944M1—For checking the G. E. metal full-wave rectifier in the type 80 socket.
List Price .....

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Adapters Analyzer Plugs NA-ALD SOCKETS Plug-In Coils

New "Tuning Fork" Sockets



Life tests on the "tuning fork" clip have exceeded 1,700,000 perfect contacts without failure and are still going strong. A real instrument socket—attractive, rugged, and absolutely dependable.

1 13/32" mtg. hole spacing.
1 3/8" diam. panel hole.

No.	Prongs	List Price
424TF	4	$0.40
425TF	5	.40
436TF	6	.40
437TF	7 (large)	.40
437TFA	7 (small)	.40
477TF	7 (large-small)	.50
456TF	4, 5, 6	.50
438TF	8 (octal)	.40

Universal-Mount Chassis Socket



Here is a socket to replace any laminated socket that has proven defective in a set. The slotted holes in the plate plus the short screws and nuts enable you to quickly replace any laminated socket that has either 1 1/2", 1 11/16" or 1 13/16" mounting hole spacing.

Molded Bakelite

No.	Prongs	List Price
404P	4	$0.12
405P	5	.12
406P	6	.12
407P	7 (large)	.12
407PA	7 (small)	.12
477PA	7-7A (composite)	.12

Laminated Wafer Socket



Ruggedly constructed with reinforcing lower plate, plated terminals prevent oxidation. Three-line pressure contact.

Mounting Centers
1 5/16" 1 1/2"

No.	No.	Prongs	List Price
474L	474LB	4	$0.08
475L	475LB	5	.08
476L	476LB	6	.08
477L	477LB	7 (large)	.09
477LA	477LBA	7 (small)	.09
478L	478LB	8 (octal)	.09

Acorn Tube Socket



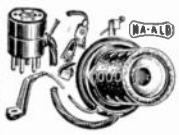
Specially designed socket with low loss ultra high frequency insulation for the new "Acorn" Tube

.....$1.50

...er Cable

...4.50 new 5Z4 ...ier ...$1.00 N-1

Electron-Ray Tuning Indicator Adapter



Enables any set having six-volt tubes and automatic volume control to use the new Electron-Ray Tube, Type 6E5, for the adapter is placed between the power output tube and its socket. Red lead connects to A.V.C. diode plate and black lead to chassis. 6E5 tube not supplied.

No.	List Price
9ER6—Electron-Ray Tuning Indicator Adapter for 41 or 42 Tubes.	$3.50
9ER5—Electron-Ray Tuning Indicator Adapter for 6A4 or LA Tubes.	3.50

9C7 Composite Adapter



7-Prong Bottom, top receives all 4, 5 and 6-prong tubes. Just the adapter for revamping small-space analyzers like the Jewell No. 199 and Supreme Diagnometers.

No. 9C7
List Price.....$1.00

Listening-In Adapters



These adapters are used for listening-in on detector or audio stages with headphones. DX stations that are not audible on the loud speaker can be brought in by the use of these adapters.

No.	Prongs	List Price
944PT	4	$0.75
955PT	5	.75
966PT	6	.75
977PT	7 (large)	.75
977PTA	7 (small)	.75

Universal Test Adapters



Has break-in plate circuit, all others brought out to phone-tip connectors. Makes possible many tests through the use of this adapter.

No.	Prongs	List Price
944PTT	4	$1.00
955PTT	5	1.00
966PTT	6	1.00
977PTTA	7 (small)	1.00
977PTT	7 (large)	1.00

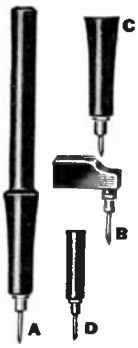
Pick-Up & Microphone Adapter



For connecting a ...no pick-up or ...hone to any ... or D.C. re... or amplifier. ... either UX or ... tubes.

...o. 949
...ist Price.....$0.45

Bakelite Test Handles



Two-Piece Test Handle Type A
No. 110 Black
No. 110R Red
List Price Each.....$0.40

One-Piece Dual Circuit Handle Type C
No. 111 Black
No. 111R Red
List Price Each.....$0.20

Bar Type Test Handle Type B
No. 113 Black
No. 113R Red
List Price Each.....$0.15

Insulated Terminal Sleeve Type D
No. 112 Black
No. 112R Red
List Price Each.....$0.10

Bakelite Bar Knob



Brass sleeve. Molded bakelite 1 1/2" long with 1/4" shaft.

No. K-415 **List Price**....$0.15

Liquid Victron



For R.F. Coils

Moisture-proof coil dope for holding windings rigidly in place. Air-dries.

No. LV2
List Price
Per Can...$0.35

Black Crystallizing Lacquer



Will give metal parts that professional finish. Servicement experimenters and amateurs can now crystallize their own panels and chassis.

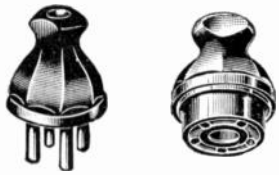
No. CL2
List Price Each.....$0.35

Two-Piece Speaker Plug



No.	Prongs	List Price
94	4	$0.25
95	5	.25
96	6	.25
97	7 (large)	.25
97A	7 (small)	.25
98S	8 (large)	.40
98	8 (octal)	.40

Sure-Grip Plugs and Connectors



Male Plugs

No.	Prongs	List Price
984	4	$0.30
985	5	.30
986	6	.30
987	7 (large)	.30
987A	7 (small)	.30
988S	8 (large)	.50
988	8 (octal)	.50

Female Connectors

No.	Contacts	List Price
984F	4	$0.40
985F	5	.40
986F	6	.40
987F	7 (large)	.40
987FA	7 (small)	.40
988FS	8 (large)	.50
988F	8 (octal)	.50

Long-Handle Two-Piece Molded Plug



For test benches, analyzers, converts, etc. 3/8" hole for cable, 3 1/8" overall length, 1 3/8" bottom diam.

No.	Prongs	List Price
974P	4	$0.35
975P	5	.35
976P	6	.35
977P	7 (large)	.35
977PA	7 (small)	.35
978PS	8 (large)	.50
978P	8 (octal)	.50

Aluminum Tube Shields



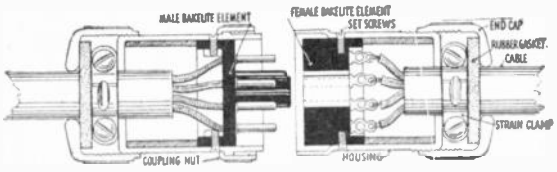
Three-piece aluminum Tube Shields for the ST-12 type tube, such as 55, 57, 58, etc. The ventilated shell dampens vibration and prevents microphonic disturbances. Height assembled, 4 1/4": shell diameter 1 5/8". The cap is slotted for grid lead.

No. ST-12B
1 1/2" Mtg. Centers.
No. ST-12
1 3/4" Mtg. Centers
List Price
Each.....$0.17

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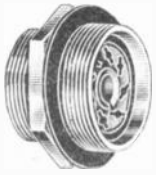
AMERICAN PHENOLIC PRODUCTS



CUT-AWAY VIEW OF OCTAL CONNECTOR

OCTAL CONNECTORS

The 8 contact plug follows the principle of the octal metal tube base and has the bakelite keyed pilot to guide prongs and contacts together. A sturdy, compact connector with metal shell locking ring and gasket cap, cadmium plated. A standardized universal plug—when less than 8 conductor cable is used merely cut off the prongs not required or omit wiring them. Bakelite elements, male or female, are interchangeable in either housing or chassis connector. An especially efficient screw clamp adjustable to any cable diameter with rubber gasket washer fits under end gasket caps to relieve contacts of any cable strain. Illustrations half actual size.

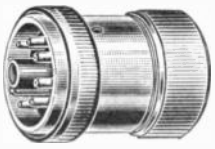


Chassis Connector

With lock washer and hex locking nut. Requires $1\frac{3}{32}$" chassis hole.

Type	List
P08M—Male	$0.60 ea.
P08F—Female	.60 ea.

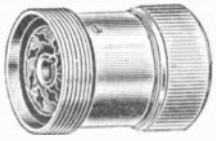
Cat. No. 08M



Cable Type—Male

List Price ..... $1.25 ea.

Cat. No. 08F



Cable Type—Female

List Price ..... $1.25 ea.

CABLE AND MICROPHONE TYPE CONNECTORS

Chassis Type



With knurled ring, lock washer and hex locking nut. Requires $\frac{7}{8}$" chassis hole.

Type	Contacts	List
PC3F	3 Female	$0.50 ea.
PC4M	4 Male	.55 ea.
PC4F	4 Female	.55 ea.

Stand Type—Female



Often used with MCM connectors for microphone stand work. $\frac{5}{8}$-27 female thread.

Type	Contacts	List
SC3F	3	$1.00 ea.
SC4F	4	1.10 ea.

These interchangeable, compact connectors are ideal for microphone and sound equipment work. Sturdy bronze contacts, moulded in genuine bakelite, are housed in heavy brass shells finished in polished chrome. The gasket cap at the end of the type MC connectors contains a Para rubber ring which expands against the cable when the cap is tightened and seals the plug against the entrance of moisture and dirt. All male and female threads are $\frac{7}{8}$-27, the standard for this industry, so that they may be screwed into microphone housings, rings or to the top of stands. Bakelite elements are interchangeable so that either male or female may be used in the same shell. In the three contact type, the contact most widely spaced from the other two is grounded to the brass shell of the connector with a flush screw. In connecting the cable the shield or neutral should always be connected to this contact. In case it is not desired to ground the shell, the bakelite element may be rotated slightly, bringing another threaded hole into place, which is insulated from all contacts.

Cable Type



Female	List	Male
MC3F 3 Cont.	$1.00 ea.	MC3M 3 Prong
MC4F 4 Cont.	1.10 ea.	MC4M 4 Prong

Connector Chain and Cap

Protects against dirt and tampering. For use on plugs, chassis or wall outlets.

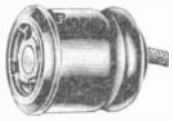


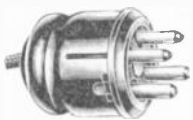
Type	Fits	List Ea.
CCC3	MC and PC mike type	$0.50
CCC8	Octal Chassis type	.50

AMPHENOL Cable Connectors

Made of our regular AMPHENOL sockets, snugly covered by a steel cap that fits tightly, but may be pried with an ordinary screw driver. Diameter $1\frac{1}{4}$", length $1\frac{3}{16}$". Shields and protects cable.

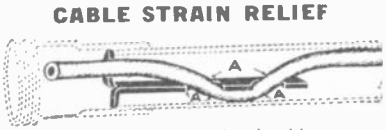
Female	List
PF4 4 Cont	$25.00 C
PF5 5	25.00 C
PF6 6	25.00 C
PF7 7 small	25.00 C





Male	List
PM4 4 Pr...	$25.00 C
PM5 5	25.00 C
PM6 6	25.00 C
PM7 7 small	25.00 C

CABLE STRAIN RELIEF



Relieves strain on the soldered cable connections. May be installed between mike and stand, connector and stand or connector and Side Cable Outlet.

CSR3—Cable Strain Relief—List .. $0.25 ea.

SIDE CABLE OUTLET

Designed to be placed between a microphone and stand having $\frac{5}{8}$"-27 threads. Its purpose is to provide an outlet for the microphone cable where it is not desired to run it through the stand tubing. Efficient cable grip relieves strain.



SC03—Side Cable Outlet—List Price ..... $0.75 ea.

AMPHENOL Cable Connector Covers



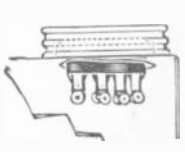


AMPHENOL makes two types of Cable Connector Covers, one for cable to cable connection, and other for cable to chassis connection. The former is illustrated at left, the latter at right. They consist of two sections: male and female, made of threaded steel.

The cable to cable type consists of two shielding shells which slip over our regular Cable Connectors and serve to lock the two sections together. By using soft rubber washers these shells can be made moisture proof. Diameter overall $1\frac{1}{2}$", length $2\frac{1}{2}$".

The cable to chassis type has the same design as the cover listed above, except that the female section has a flange to fit under an AMPHENOL socket, when mounted on a chassis. Diameter $1\frac{1}{2}$", length $1\frac{3}{8}$".





C-CAB	Cable Type	$25.00 C
C-CHA	Chassis Type	25.00 C

All illustrations half actual size.

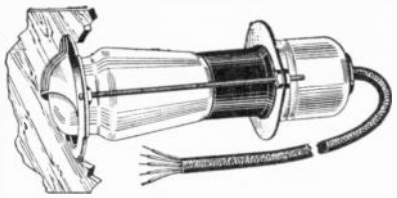
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AMPHENOL
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AMERICAN PHENOLIC PRODUCTS

AMPHENOL SOCKET ASSEMBLY FOR MAGIC EYE

The AMPHENOL mounting assembly consists of the mounted tube socket, its protective shell, a 22" five-wire coded cable, and the one-megohm target to plate resistor already wired on the socket. (All necessary hardware for assembling with an attractive modernistically styled escutcheon included.) The AMPHENOL mounting assembly makes possible the application of the electron ray tube or Magic-Eye to sets employing automatic volume control, but lacking a tuning indicator.



Tuning by eye is made possible. The ear alone cannot determine the proper tuning point on automatic volume control sets. With this assembly and the electron ray tube, visual tuning can be put on such receivers. With the set in tune the electron eye illumination narrows; when out of tune it broadens.

MEA-6
Socket Assembly for MAGIC-EYE
List Price $1.25

AMPHENOL Socket



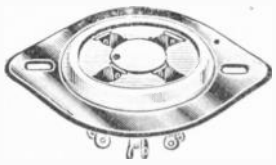
Sub-Panel Type

Cadmium-plated contacts, made of brass alloy with two ears for soldering, maintains firm, low resistance contact with tube prongs. Socket held to chassis by tempered steel ring. No rivet is necessary. Fits any chassis from .030 to .065 inches thick.

Type	Contacts	O.D.	List
S4	4	1¼"	$11.00 C
S5	5	1¼"	11.00 C
S6	6	1¼"	11.00 C
S7S	7 small	1¼"	11.00 C
S7L	7 large	1⅜"	11.00 C
S7C	7 comb.	1⅜"	14.00 C
S8	8 octal	1¼"	14.00 C

Price includes retainer ring.

AMPHENOL STEATITE SOCKETS



High Mechanical Strength.—Breakage, a common fault in Ceramic sockets is practically eliminated in this AMPHENOL product. The metal adapter plate takes the full strain of riveting or mounting and the Ceramic portion itself is held with a heavy resilient spring that places no strain on the Steatite.

Ease of Mounting.—The steel plate can be screwed or riveted to the panel, or using the spacers can be mounted above the panel. The best and neatest mounting is made by discarding the adapter plate and reassembling the socket into chassis.

Perfect Insulation.—This is an AMPHENOL socket of exceptionally high electrical resistivity. Willdefinitely improve the results of R. F amplifiers on wavelengths below 30 meters. Extremely low moisture absorption. Diameter 1¼", thickness ⅜". Cadmium plated steel plate mounting center 1½" to 2".

Type	Contacts	List
RSS4	4	$40.00 C
RSS5	5	40.00 C
RSS6	6	40.00 C
RSS7S	7 small	40.00 C
RSS7L	7 large	50.00 C
RSS8	8 octal base	50.00 C

AMPHENOL Plug

Chassis Type

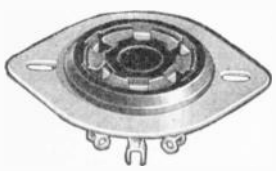


This high quality plug has the AMPHENOL feature of versatile mounting. A retainer ring holds the plug into position. This plug is also available mounted in a Cadmium plated steel plate and in a heavy aluminum shell. Plug diameter 1¼". Standard RMA prong spacing.

Type	Prongs	List
CP4	4	$11.00 C
CP5	5	11.00 C
CP6	6	11.00 C
CP7	7	11.00 C

Price includes retainer ring.

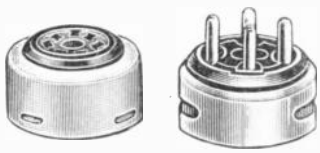
AMPHENOL Socket Replacement Type



Same as our regular type S, listed above. Comes set in cadmium plated steel adapter plate. It fits any rivet hole spacing from 1½" to 2". The adapter plate may be removed.

Type	Contacts	List
RS4	4	$12.00 C
RS5	5	12.00 C
RS6	6	12.00 C
RS7S	7 small	12.00 C
RS7L	7 large	12.00 C
RS7C	7 combination	15.00 C
RS8	8 octal base	15.00 C

AMPHENOL Sockets and Plugs For Above Chassis Type

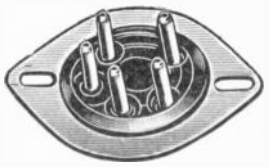


Sockets and plugs mounted in a heavy aluminum shell which raises 5/16" above subpanel—thus shielding all socket connections. Fastened by screw or bolt through center.

Sockets	Contacts	List	Plugs
ACS4	4	$12.00 C	ACP4
ACS5	5	12.00 C	ACP5
ACS6	6	12.00 C	ACP6
ACS7S	7 small	12.00 C	ACP7
ACS7L	7 large	12.00 C	.
ACS7C	7 comb.	15.00 C	.
ACS8	8 octal	15.00 C	.

AMPHENOL Plug Replacement Type

The same mounting as our Replacement Socket, using chassis type plug listed above.



Type	Prongs	List
RCP4	4	$12.00 C
RCP5	5	12.00 C
RCP6	6	12.00 C
RCP7	7	12.00 C

AMPHENOL Rubber Plug Handle

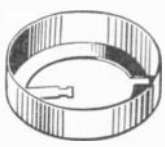


Fits snugly over all PF and PM style connector plug caps described on page N-5. For easy removal of plugs in recessed or hard to get at positions. Made of tough, flexible rubber. Will pull the tightest plug easily. Diameter overall, 1½"; length 3".

RPH—List Price $15.00 C

AMPHENOL Socket Accessories

Tube Shield Base. 1⅛" for standard tube shields. Fits under top of AMPHENOL sockets and chassis plugs. Has lug for soldering to chassis if desired. Punched from .016 cadmium plated steel.

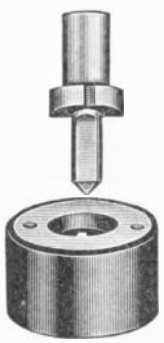


Type	Diameter	List
TSB1	1 3/32"	$3.50 C

Laboratory Chassis Die

For punching AMPHENOL socket holes in chassis or metal plates. In the experimental laboratory this punch and die is practical, inexpensive and reasonably fast.

Type LD1 for small base sockets, **LD2** for large base sockets, and **LD3** for Microphone connectors.



Type	Hole	List
LD1	1 1/32	$10.00 ea.
LD2	1 11/32	10.00 ea.
LD3	5/16	3.00 ea.

All illustrations half actual size.

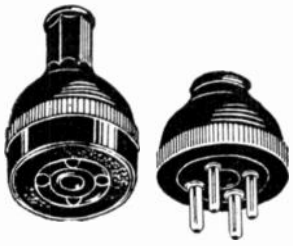
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BINDING POSTS
CABLE CONNECTORS
SPEAKER PLUGS

EBY QUALITY

MOULDED SOCKETS
KNOBS and DIALS
TERMINAL STRIPS, ETC.

RUBBER CAPPED
Male & Female PLUGS



Model 99-515 **Model 97-505**

Rubber capped male and female plugs furnished in two sizes of black rubber caps, as pictured above. 505 (small), 515 (medium length). Cable hole 5/16". Furnished for 4, 5, 6 or 7 conductors.

Male	Female	Cap	MALE List	FEMALE List
No. 97A—	No. 99A—	505 4-prong small cap	$0.30	$0.40
No. 97B—	No. 99B—	505 5-prong small cap	.30	.45
No. 97C—	No. 99C—	505 6-prong small cap	.35	.50
No. 97DN—	No. 99DN—	505 7-prong small cap .750" lay't	.35	.50
No. 97—	No. 99DO—	505 7-prong small cap .855" lay't		.50
No. 97A—	No. 99A —	515 4-prong med. cap	.35	.45
No. 97B—	No. 99B —	515 5-prong med. cap	.35	.50
No. 97C—	No. 99C —	515 6-prong med. cap	.40	.55
No. 97DN—	No. 99DN—	515 7-prong med. cap .750" lay't	.40	.55
	No. 99DO —	515 7-prong med. cap .855" lay't		.55



Model 28

SPEAKER PLUG

One piece moulded black bakelite. A moulded Speaker Plug with prongs securely fastened in. Each individual conductor protected with moulded insulation to prevent shorts from pushed back braid.

Cat. No.		List
28 A	4 Prong	$0.12
28 B	5 Prong	.12
28 C	6 Prong	.12
28 DN	7 Prong .750 Lay't	.12

MOULDED SOCKETS



No. 12 Moulded Socket

Both the No. 8 and No. 12 Eby Moulded Sockets are made with Eby recess ring, moulded through contact holes. Furnished in Black Bakelite finish.

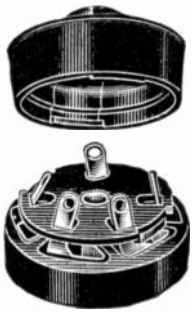
The Type 12 has entire shell and base moulded in one piece. Contact designations moulded on the top and bottom of the base close to terminals.



No. 8 Moulded Socket

No. 8 is very similar, but the base consists of separate, laminated Bakelite plate . . . Both sockets for use where severe service is likely to be encountered.

Cat. No.	No. of Prongs		List Price
Type 8—1 11/16" Mtg. Centers			
8A	4		$0.20
8B	5		.25
8C	6		.25
8DN	7	.750" dia. layout	.25
8DO	7	.855" dia. layout	.25
8E	8	octal	.30
Type 12—1 11/16" Mtg. Centers			
12A	4		$0.30
12B	5		.30
12C	6		.40
12BC	Com. 5 & 6 prong		.40
12DO	7	.855" dia. layout	.40
12DNO	Com. lg. & sm. 7 prong		.40
12E	8	octal	.45



Socket Cable Connector, Disassembled View

SOCKET CABLE CONNECTORS

Assembled View



This Eby Moulded Socket arrangement is the safest and most satisfactory method of connection to hot wires. Fitting together by means of a convenient bayonet arrangement, the assembled unit matches the moulded Male Plug Connector and provides a quick method of make and break multiple circuit connections.

Cat. No.	No. of Prongs	Hole	List Price
11A	4	Small Cap 5/16"	$0.30
11B	5	Small Cap ⅜"	.35
11C	6	Small Cap 7/16"	.40
11DN	7	.750" dia. lay't ½"	.40
11DO	7	.855" dia. lay't ½"	.40

KNOBS AND TERMINAL NUTS



E-18

¼" Insert and Set Screw. Filled arrow. Black only. List **.15**



E-17

¼" Insert and Set Screw. Filled arrow. Black only. List **.12**



E-280

Height 15/32", ¼" Hole. Two-tone Walnut only. List **$0.10**



List

No. S-312-3—¼" Insert **$0.65** ea.
No. S-312-1—No Insert **.60** ea.
Width 2 15/16"

No. S-311-3—¼" Insert **$0.50** ea.
No. S-311-1—No Insert **.45** ea.
Width 2 1/16"

Above knobs have skirt base.

No. S-310-3—¼" Insert **$0.50** ea.
No. S-310-1—No Insert **.45** ea.
Width 2⅛"

No. S-309-3—¼" Insert **$0.40** ea.
No. S-309-1—No Insert **.35** ea.
Width 1⅝"

No. S-308-3—¼" Insert **$0.30** ea.
No. S-308-1—No Insert **.25** ea.
Width 1 3/16"

With Set Screw. Black only

INSTRUMENT DIALS & KNOBS



S-505

2" Rheostat Dial
List **$0.25**
¼" Plain Insert with set screw. Graduations 100 to 0.
Black only.



E-127

1¼" Ornamental Top; Set Screw Type ¼" Plain Hole with Set Screw. Walnut only List **$0.10**



E-110

1⅜" Two-tone Knob —¼" Hole. No Insert. No Skirt. Set Screw Type.
List **$0.14**



E-292

1¼" Bar Knob Black or Walnut
List **$0.12**



E-293

2¼" Bar Knob Black or Walnut
List **$0.15**

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BINDING POSTS
CABLE CONNECTORS
SPEAKER PLUGS

EBY QUALITY

MOULDED SOCKETS
KNOBS and DIALS
TERMINAL STRIPS, ETC.



Type 21-S Moulded Twin Posts

TWIN and TRIPLE BINDING POSTS

These binding posts consist of standard Eby units mounted on moulded or laminated Bakelite Strips to form neat assemblies for making connections.

The standard insulated binding posts are used on all but the Type 22-S unit. Moulded units are furnished regularly in Black finish; laminated units in Brown.

Cat. No.	Type Material	Markings	List Price
Twin Post Units			
21-R*	Mld'd	Ant., Gnd.	$0.35
21-S*	Mld'd	Ant., Gnd.	.35
22-R	Lamin.	Ant., Gnd.	.25
22-S†	Lamin.	A. G.	.20
Triple Post Units			
21-T	Mld'd	L. Ant., S. Ant., Gnd.	$0.45
22-T	Lamin.	L. Ant., S. Ant., Gnd.	$0.30

TERMINAL STRIPS



New, Improved Types

These strips are equipped with new type lug shown above. Stamped thread, consisting of six or more turns, insures lasting contact without slightest danger of stripping. Supplied with from 1 to 8 terminals. Screws 6/32 thread.

Cat. No.	No. of Terminals	List Price
TS-561	1	$0.10
TS-562	2	.15
TS-563	3	.15
TS-564	4	.20
TS-565	5	.20
TS-566	6	.20
TS-567	7	.25
TS-568	8	.25

Above list prices are for strips unmarked.

NON-REMOVABLE HEAD BINDING POSTS



Junior or Ensign



Midget or Corporal or Sergeant or Captain

These famous Eby binding posts prevent loss of tops or errors due to a shift of knobs to wrong terminals. The all-metal posts have a milled slot in the base to serve as the lower contact, and a sliding shoe, operated by the knob to serve as the upper contact.

The insulated posts are provided with holes in the stud to receive the wire or pin tip lead.

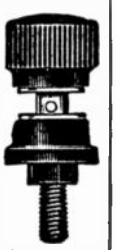
Because of the special milled construction in the all-metal posts and the proper placement of the hole in the insulated ones, even a fine wire can be clamped securely without any danger of breaking or shearing.



Buddy or Sergeant S.S.



Junior P-3 or Commander P-3



Commander P-4

Binding Post General Characteristics

Trade Name	Height Closed	Cap. Dia.	Type of Finish	Material	List Price
Metal Binding Posts					
Midget	7/16"	5/16"	Note 2	Brass	$0.15
Corporal	9/16"	⅜"	Note 2	Brass	.15
Buddy	9/16"	⅜"	Note 2	Brass	.15
Sergeant	¾"	½"	Note 2	Brass	.25
Sergeant SS	¾"	½"	Note 2	Brass	.25
Captain	1"	⅝"	Note 2	Brass	.35
Insulated Binding Posts					
Ace	29/32"	½"	Black	Composition	.15
Junior*	11/16"	½"	Black	Composition	.16
Junior P-4†	11/16"	½"	Black	Note 1	.25
Junior P-3	11/16"	½"	Black	Note 1	.25
Ensign	11/16"	½"	Black	Composition	.20
Comm'der	¾"	⅝"	Black	Composition	.35
Comm. P-4	¾"	⅝"	Black	Note 1	.45
Comm. P-3	¾"	⅝"	Black	Note 1	.45

Note 1: Composition top and Bakelite base.

Note 2: List prices given are for tumbled nickel finish

Note *: Available in plain top and following standard markings:—Ant.; Gnd.; Input.; Output; +; −.

Note †: Available with 3 lengths of extensions on base, i. e. 1/32", 1/16" and ⅛". In ordering please specify base extension desired.

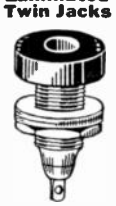
SINGLE, TWIN and TRIPLE TIP JACKS



Type 17, Moulded Twin Jacks



Type 18 Laminated Twin Jacks



Cat. No. 49M

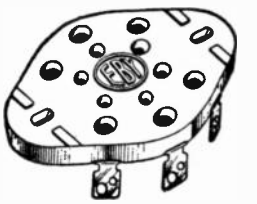
For making quick connections and for use with speakers and phonograph units.

The moulded units are furnished regularly in Black. They can also be supplied in Brown finish on special quantity orders. Laminated units furnished only in Brown finish.

Cat. No.	Mounting Hole	List Price	Specify whether Red or Black Bakelite Top desired.
49M	19/64	$0.12	

Cat. No.	Type Material	Mtg. Cen.	List Price
Twin Jacks			
17 Speaker	Moulded	*	$0.25
17 Phono	Moulded	*	.25
17 Plain	Moulded		.25
18 Speaker	Laminated	1 11/16"	.10
18 Plain	Laminated	1 11/16"	.10

*Note: Mounting screw at center. Jack centers 1 5/16". Jack centers on all except No. 17 units ⅞".



LOW LOSS SOCKETS

Of highest quality ceramic material for ultra high frequency use. Exposed surface glazed, underside unglazed. Special contacts of highest grade phosphor bronze, hot tinned. Socket adapted for mounting on chassis at 1-11/16" or 1-27/32" centers.

Low Loss Sockets

Cat. No.	No. of Prongs		List Price
13A	4		$0.50
13B	5		.50
13C	6		.55
13DN	7	.750" dia. layout	.55
13DO	7	.855" dia. layout	.55
13E	8	octal	.60

MOULDED PLUG CABLE CONNECTORS



Disassembled View

Eby Male plugs available with bayonet socket demountable moulded caps as illustrated. These plugs are made to match Eby No. 8 and No. 12 moulded tube sockets (See opposite page) and can be used with any standard tube socket, including octal.

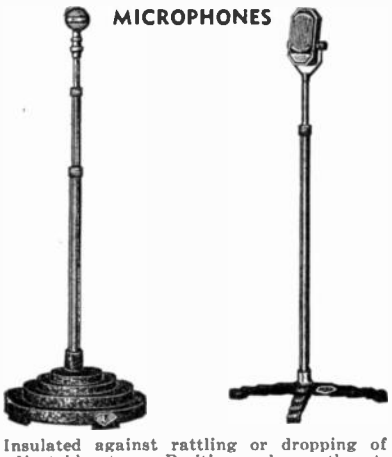
Two-Piece Moulded Male Plugs — Black

Cat. No.	No. of Prongs		List Price
Without Soldering Lug Terminals			
7A	4	5/16"	$0.15
7B	5	3/8"	.20
7C	6	7/16"	.25
7DN	7	.750" dia lay't 1/2"	.25
7DO	7	.855" dia. lay't 1/2"	.25
7E	8	As illustrated 1/2"	.30

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BUD RADIO PRODUCTS

BUD FLOOR STANDS for CRYSTAL, VELOCITY & DYNAMIC MICROPHONES



Insulated against rattling or dropping of adjustable stems. Positive and smooth acting chuck type lock. Telescoping stems finished in polished chromium plate. Two section stands adjustable 35" to 66". Three section 24" to 66". Heavy cast bases are finished in durable black crackle enamel. Adjustable stem has 5/8-27 thread. On stands supplied with ring, the ring is 6" dia. with E-Z hooks finished in black crackle enamel.

No. 585—List Price $12.50
Two section; modernistic base, base dia. 12". Weight 12 lbs.

No. 823—List Price $14.00
Same as No. 585, complete with 6" Microphone ring and 8 springs.

No. 587—List Price $13.50
Three section; modernistic, 12" dia. base. Weight 12 lbs.

No. 592—List Price $15.00
Same as No. 587, complete with 6" microphone ring and 8 springs.

No. 583—List Price $11.50
Three section; tripod base, leg spread 17". Weight 9½ lbs.

No. 597—List Price $13.00
Same as No. 583, complete with 6" microphone ring and 8 springs.

No. 586—List Price $10.50
Two section; tripod base, leg spread 17". Weight 9½ lbs.

No. 598—List Price $12.00
Same as No. 586, complete with 6" microphone ring and 8 springs.

No. 584—List Price $8.50
Two section; modernistic 10" dia. base. Weight 8½ lbs.

No. 840—List Price $10.00
Same as No. 584, complete with 6" microphone ring and 8 springs.

MICROPHONE SADDLE

An ideal mounting for crystal or dynamic microphones which permits microphone to be tilted to any angle and locked in place. Mounting hole threaded 5/8-27 to fit microphone stand. Made from aluminum casting.

No. 503.....List Price $2.00
Black Crackle Finished.

No. 504.....List Price $2.50
Chromium Plated Finish.

DUPLEX MICROPHONE FIXTURE

For using two microphones on one stand. Made of heavy brass tubing and finished in chromium plate. Supplied with two swivel joints for tilting microphones. Mounting hole tapped 5/8-27 to fit microphone stand.

No. 839—List Price $6.00

DESK & BANQUET STANDS



Ruggedly built for use on tables, desks, pulpits, etc. Heavy cast base of modernistic design is finished in black crackle enamel and will not tip easily. Stems are chromium plated finish. Adjustable types have thumb nut locking device. Stem is threaded 5/8-27. Where rings are supplied, they are also finished in black crackle.

No. 588—List Price $1.50
Height 6". Base Dia. 5". Weight 2 lbs.

No. 602—List Price $2.75
Same as No. 588, complete with 5" octagonal ring and 8 springs.

No. 589—List Price $2.00
Height 8". Base Dia. 6". Weight 3¼ lbs.

No. 603—List Price $3.50
Same as No. 589, complete with 6" microphone ring and 8 springs.

No. 590—List Price $4.35
Height adjustable 10" to 16". Base Dia. 6". Weight 3½ lbs.

No. 803—List Price $5.75
Same as No. 590, complete with 6" microphone ring and 8 springs.

No. 591—List Price $5.10
Height adjustable 13" to 22". Base Dia. 6". Weight 3½ lbs.

No. 802—List Price $6.50
Same as No. 591, complete with 6" microphone ring and 8 springs.

BUD DESK STANDS



These beautiful stands are preferred by most amateurs and are ideal for portable P.A. installations. Ruggedly constructed. Modernistic designed base casting. Black crackle finish.

No. 817—List Price $2.00
Height 9". Base Dia. 5". 5" octagonal microphone ring.

No. 818—List Price $2.50
Height 10". Base Dia. 6". 6" round microphone ring.

No. 819—List Price $3.00
Height 13". Base Dia. 6". 6" diameter round microphone ring.

ECONOMY & UTILITY FLOOR STANDS

Heavy cast base of modernistic design, is 10" in dia. and finished in lustrous black crackle enamel. Stems are heavy gauge brass seamless tubing. Chromium plated finish. Positive thumb nut locking device. Two section stands are adjustable 33" to 66". Three section 24" to 66".



No. 557—List Price $7.50
Two section; modernistic, 10" dia. base. Wt. 8½ lbs.

No. 558—List Price $9.00
Same as No. 557, complete with 6" microphone ring and 8 springs.

No. 834—List Price $9.50
Three section; 10" dia. base. Supplied with crystal microphone saddle (as illustrated). Weight 8½ lbs.

No. 822—List Price $8.75
Three section; 10" dia. base. Complete with 5" octagonal microphone ring and 8 springs.

MICROPHONE RINGS



Solid metal casting with E-Z hooks for attaching springs. Complete with 8 rust-proof microphone springs and suspension ring for hanging from ceiling.

No. 800—List Price $2.50
6" round ring. Chromium Plated finish.

No. 801—List Price $2.00
6" round ring. Black crackle finish.

No. 820—List Price $1.50
5" octagonal ring. Black crackle finish.

MICROPHONE PLUGS



Polarized three prong plug. Contact blades insulated with moulded bakelite.

No. 628—List Price $ .75
Bakelite Microphone Plug.

No. 629—List Price $1.00
Microphone Plug with armored cord grip.

No. 386—List Price $ .75
Shielded microphone plug with cord grip and hook to lock to connector. Same as illustrated.

MICROPHONE CONNECTORS



Polarized connector to fit three prong plug. Contacts are of phosphor bronze. Moulded bakelite insulation. Diameter 1½".

No. 387—List Price $1.00
Shielded connector with cord grip and hook to lock to plug. Same as illustrated.

No. 630—List Price $1.35
Moulded bakelite body connector.

No. 5073—List Price $2.00
Bakelite connector with mounting bracket to fit standard electric switch box.

PHONE & MICROPHONE PLUGS



No. 230—List Price $ .40
Duplex; takes 2 cords with tips; bakelite handle.

No. 282—List Price $ .75
Same as above with shielded metal handle.

No. 1057—List Price $ .75
Three way mike plug; bakelite handle

No. 284—List Price $1.05
Same as No. 1057 with shielded metal handle.

PORTABLE PHONE & MICROPHONE CONNECTORS



No. 1039—List Price $ .40
Two way; fits No. 230 plug; bakelite handle.

No. 279—List Price $ .80
Same as No. 1039 with shielded metal handle.

No. 1059—List Price $ .65
Three way; fits No. 1057 mike plug; bakelite handle.

No. 283—List Price $ .95
Same as No. 1059 with shielded metal handle.

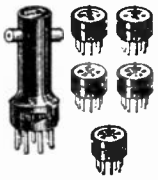


No. 1058—List Price $ .40
Three way microphone jack for panel mounting.

No. 1038—List Price $ .25
Two way microphone jack for panel mounting.

BUD RADIO PRODUCTS

7 PRONG ANALYZER PLUG AND ASSOCIATE ADAPTERS



For 8 wire cable to analyze glass and metal tube circuits. Has dual grid studs. Small 7 prong base for closely shielded sockets. Moulded Bakelite, sturdily built with latch type lock.

No. 815— Complete with 5 adapters as illustrated and 5 ft. 8 wire cable attached to plug.
List Price $5.75

No. 814—Same as above with 8 prong cable plug attached to other end of cable and mounting socket.
List Price $6.35

No. 869—Analyzer plug only.
List Price $1.50

No. 816—Plug with 5 ft. 8 wire cable attached.
List Price $2.50

No. 794—Same as No. 816 with 8 prong cable plug attached and 8 prong mounting socket.
List Price $3.50

ADAPTERS

With latch lock stud to fit analyzer plugs listed above.

No.		List Price
1078L	7 on 4 prong glass tube	$0.75
1079L	7 on 5 prong glass tube	.75
1080L	7 on 6 prong glass tube	.75
1081L	7 on 7 large glass tube	.75
1085L	7 on 8 prong metal tube	1.00
540	7 on 5 prong metal tube	1.00
541	7 on 5 (6F5) metal tube	1.00
542	7 on 6 prong metal tube	1.00
543	7 on 7 prong metal tube	1.00

TUBE TESTING ADAPTERS



For Octal Base Tubes

The adapters described herewith will test all the metal and metaglass tubes released to date in testers not equipped to test these tubes.

No. 483—Complete kit consisting of 3 adapters and a dual grid cap with lead to test octal based tubes.
List Price $4.00

No. 414—Complete kit of six adapters for making individual tests of octal based tubes. Complete with grid clip adapter. This kit recommended by RCA and other tube manufacturers.
List Price $5.00

No. 411—Tests 5Z4, 5Y3, 5W4 in 80 socket.
List Price $1.00

No. 412—Tests 6C5, 6D5 in 41 socket. 6L6, 6F6 in 42; 25A6 in 43; 6B6, 6Q7 in 75; 6J7 in 77; 6K7, 6A8, 6L7 in 78, and 6R7 in 85 socket.
List Price $1.00

No. 413—Tests 6N7 in 6A6 socket.
List Price $1.00

No. 415—Tests 6A8, 6C5, 6D5, 6F6, 6J7, 6L7 in 36 socket.
List Price $1.25

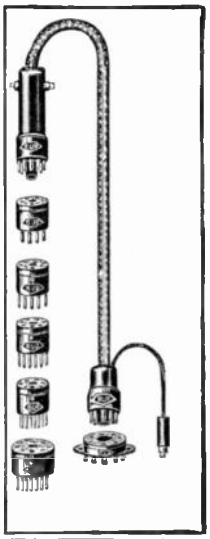
No. 417—Tests 6H6 in 85 socket.
List Price $1.00

No. 418—Tests 6C5 in 37 socket, 6X5 in 84 socket.
List Price $1.00

No. 422—Tests 6F5 in 75 socket.
List Price $1.00

No. 1271—Tests 25Z6 in 25Z5 socket.
List Price $1.00

No. 1272—Tests 6P7 in 6F7 socket.
List Price $1.00



OCTAL ANALYZER PLUG AND ASSOCIATE ADAPTERS

New 9 wire plug for analyzing metal or metaglass tube circuits. Moulded Bakelite; sturdily built. Adapters screw lock securely to plug. Dual grid stud for metal or glass tube grid caps.

No. 498—Complete with adapters as illustrated.
List Price $10.00

No. 491—Analyzer plug only.
List Price $1.75

No. 424—Plug with 5 ft. 9 wire cable attached.
List Price $4.00

No. 423—Complete analyzer cable, same as illustrated (less adapters).
List Price $5.00

No. 497—8 prong, octal cable plug, as illustrated. Dia. 1⅛".
List Price $0.75

ADAPTERS

Wired all circuits straight through according to new R.M.A. numbering system.

No.		List Price
341	8 on 4 prong glass tube	$1.00
342	8 on 5 prong glass tube	1.00
343	8 on 6 prong glass tube	1.00
344	8 on 7 small glass tube	1.00
345	8 on 7 large glass tube	1.00
536	8 on 5 prong metal tube	1.00
537	8 on 5 (6F5) metal tube	1.00
538	8 on 6 prong metal tube	1.00
539	8 on 7 prong metal tube	1.00

METAL TUBE MODERNIZING ADAPTERS

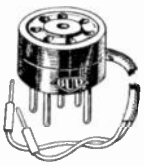


Any set having glass bulb tubes such as listed below can use metal tubes with the associate modernizing adapter. Greater selectivity and stability result. No tube shields necessary.

Cat. No.	Glass Tube Replaced	New Metal Tube Used
427	80	5Z4 or 5Y3
428	41 or 42	6D5
429	6A6	6N7
430	6A7	6A8
431	37 or 76	6C5
431	76	6F5
432	6C6 or 77	6J7
432	41 or 42	6F6
432	6D6 or 78	6K7 or 6L7
433	6F7	6P7
434	25Z5	25Z6
432	75	6B6
431	84	6X5

List Price, Each $0.50

EAR PHONE AND LOUD SPEAKER ADAPTERS



Enable you to listen to DX at any time without disturbing the rest of the family. Also ideal for people who are hard of hearing. Can also be used for adding additional speakers or reading receiver output.

Cat. No.		List Price
262	4 Prong	$0.75
162	5 Prong	.75
364	6 Prong	.75
572	Sm. 7 Prong	.75
573	Lge. 7 Prong	.75

Phonograph or Microphone Adapters

These adapters enable you to connect a microphone or phonograph pick-up to any radio set. Place adapter under detector tube.

Cat. No.		List Price
245	4 Prong	$1.00
299	5 Prong	1.00
247	6 Prong	1.00
246	Sm. 7 Prong	1.00
248	Lge. 7 Prong	1.00
244	8 Prong	1.00

NEUTRALIZING AND ALIGNING TOOLS

NEUTRALIZING WRENCH



Inside of tube is broached. If end breaks part can be cut off.

No. 254—5½" long.	**List Price**	$0.20
No. 255—8" long.	**List Price**	$0.25
No. 256—12" long.	**List Price**	$0.35

DE LUXE ADJUSTABLE NEUTRALIZING TOOL



No metal parts. Made of high di-electric, hard rolled fibre. Screw driver slides into one end of handle.

No.	List Price
236—Adjustable. 7" to 10".	$0.60
237—Adjustable. 11" to 17".	$0.80

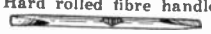
BUD NEUTRO-WRENCH



Alligator jaw type for knurled and hex head trimmers. Metal blade screw driver at other end.
No. 285—List Price $0.40

NEUTRALIZING SCREW DRIVER

Hard rolled fibre handle.



No.	List Price
235—No metal ends.	$0.35
287—With metal blade.	$0.30

BUD BALANCING TOOL AND ATTACHMENT



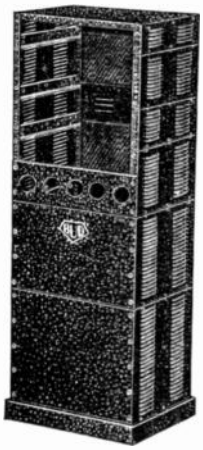
Enables working in close quarters and neutralizing sets without having to pull the chassis.
No. 281—List Price $0.40

4-IN-1 NEUTRALIZING AND ALIGNING TOOL



No.	List Price
118	$0.60
119M—Majestic Attachment	$0.15
119C—Crosley Attachment	$0.25

BUD RADIO PRODUCTS



BUD SECTIONAL CABINET RELAY RACK

A new innovation in rack design! Permits building a cabinet rack to your required height without having any waste space. You can have a complete rack starting from 3½" high and progressing in multiples of 1¾" to any desired height. Additional sections can be added at any time. **A screw driver is the only tool necessary for assembling.** Foundation consists of a ruggedly built base 20¼" x 15¾" x 2½" high on which the side sections are mounted and a formed top cover 19¼" x 14 7/16" x ½" high.

Side wall sections are 14½" deep with front and back flanges, drilled and tapped for 10-32 screw to fit both W.E. and Amateur type rack panels. Sides are louvred for ample ventilation and made in various heights to fit standard rack panels.

Back dust covers can be supplied to fully enclose cabinet and are made of cane design perforated sheet steel with re-enforced edges, for additional ventilation. All parts heavy gauge cold rolled steel finished in durable black crackle enamel, and furnished with all necessary hardware.

No.		List Price
1300	Base Assembly—Size 20¼" x 15¾" x 2½"	$4.50
1301	Top Cover—Size 19¼" x 14 7/16" x ½"	2.50

SIDE WALL SECTIONS

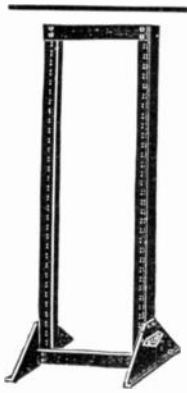
Consist of two side wall sections complete with mounting brackets, bolts, nuts, etc.

Cat. No.	Size	List Price
1302	3½ x 14½ in.	$2.00
1303	5¼ x 14½ in.	2.25
1304	7 x 14½ in.	2.50
1305	8¾ x 14½ in.	3.00
1306	10½ x 14½ in.	3.35
1307	12¼ x 14½ in.	4.00
1308	14 x 14½ in.	4.25
1309	15¾ x 14½ in.	4.50
1310	17½ x 14½ in.	5.00
1311	19¼ x 14½ in.	5.25
1312	21 x 14½ in.	5.50

DUST COVER BACK, SECTIONS

Slotted to fit standard rack drilling.

Cat. No.	Size	List Price
1313	3½ x 19 in.	$ .75
1314	5¼ x 19 in.	.90
1315	7 x 19 in.	1.00
1316	8¾ x 19 in.	1.25
1317	10½ x 19 in.	1.50
1318	12¼ x 19 in.	1.75
1319	14 x 19 in.	2.00
1320	15¾ x 19 in.	2.25
1321	17½ x 19 in.	2.50
1322	19¼ x 19 in.	2.75
1323	21 x 19 in.	3.00



BUD STANDARD RELAY RACKS

An ideal unit for that "ham" transmitter or public address system. Made to standard specifications. ⅛ inch steel channels braced with ⅛ inch steel brackets make a rigidly constructed sturdy job, and will hold units in correct alignment. These racks are intended for mounting standard 19 inch panels whose heights are multiples of 1¾ inches. Holes are accurately drilled and tapped for 10-32 thread. These universally drilled racks will fit either telephone or amateur type notched rack panels. Finished in black crackle enamel. Shipped knocked down with necessary bolts, nuts and washers. Easy to assemble.

No. 1263—Over-all height 38½ in.—Width 20 in.—depth 3 in. Base width 24 in.—depth 17 in. Panel space 31½ in. Net Weight 22 lbs. ..... **List $15.00**

No. 1264—Over-all height 73½ in.—width 20 in.—depth 3 in. Base width 24 in.—depth 17 in. Panel space 66½ in. Net Weight 32 lbs. ..... **List $18.50**

DELUXE RELAY RACKS

General specifications same as above except uprights are heavy duty channel iron supported by ⅜ inch thick angle iron base. Finished in black crackle enamel. Shipped knocked down with necessary bolts, nuts and washers. Easy to assemble.

No. 1265—Over-all height 72½ in.—width 20 in. depth 3 in. Base width 20 in.—depth 15 in. Panel space 66½ in. Net weight 90 lbs. ..... **List $27.50**



MIDGET RELAY RACKS

Just the rack you have wanted to set on your table. It is an ideal unit for that low power transmitter, amplifier, P. A. system, or test panel.

Made of heavy gauge sheet steel. Finished in baked on black crackle enamel. Drilled to fit standard 19 in. rack panels. Light in weight and sturdily built. Shipped knocked down with necessary self tapping screws. Easy to assemble.

No. 1248—Over-all height 25 in.—width 20 in.—depth of base 10 in.—panel space 21 in. **List $6.50**

No. 1249—Over-all height 32 in.—width 20 in.—depth of base 12 in.—panel space 28 in. **List $8.50**

RELAY RACK PANELS



Made of high grade steel ⅛ in. thick, 19 in. long, and finished in beautiful baked on black crackle enamel. Widths are 1/32 in. undersized for easy fit. Supplied with amateur rack notching (first notch ⅞ in. from end) or with notches to fit W. E. rack (first notch ¼ in. or 1½ in. from end).

Indicate Type Wanted by Using "A" After Catalog Number for Amateur or "W" for Western Electric.

		Nt. Wt.	List
No. 1250—	1¾x19 in.	1.04 lbs.	$ .90
No. 1251—	3½x19 in.	2.04 lbs.	1.00
No. 1252—	5¼x19 in.	3.25 lbs.	1.15
No. 1253—	7x19 in.	4.25 lbs.	1.20
No. 1254—	8¾x19 in.	5.25 lbs.	1.60
No. 1255—	10½x19 in.	6.25 lbs.	1.95
No. 1256—	12¼x19 in.	7.25 lbs.	2.30
No. 1257—	14x19 in.	8.25 lbs.	2.65
No. 1258—	15¾x19 in.	9.25 lbs.	2.95
No. 1259—	17½x19 in.	10.25 lbs.	3.30
No. 1260—	19¼x19 in.	11.25 lbs.	3.60
No. 1261—	21x19 in.	12.25 lbs.	4.00

METER PANELS

With three and five meter holes to fit any standard relay rack. Made of ⅛ in. thick steel, 19 in. long and 5¼ in. high with baked on Black Crackle finish. Hole diameter 2 1/32 in. to fit 3 in. meters and 2¼ in. to fit 2 in. meters. Specify "A" to fit amateur rack or "W" to fit Western Electric rack.

No. 440—	3 holes—2¼" dia.	**List Price**	**$1.75**
No. 441—	5 holes—2¼" dia.	**List Price**	**2.50**
No. 442—	3 holes—2 1/32" dia.	**List Price**	**1.75**
No. 443—	5 holes—2 1/32" dia.	**List Price**	**2.50**

CHASSIS MOUNTING BRACKETS



These brackets are made of heavy gauge sheet metal. Finished in black crackle enamel. They are 6½ in. high to fit 7 in. or larger panels, have a 1 in. flange for mounting on panel and will fit chassis from 8 in. to 13 in. deep. Brackets fasten securely to side of chassis.

		List Price
No. 458—	6½" high x 8" long	**$1.00 per pr.**
No. 459—	6½" high x 11" long	**1.50 per pr.**
No. 460—	6½" high x 13" long	**1.75 per pr.**

RACK MOUNTING BRACKETS



For mounting shelves and chassis to rack panels. Are triangular in shape, so that they may be used in numerous ways. Made from heavy gauge cold rolled steel. Finished in black crackle enamel.

		List Price
No. 1266—	5 in. Brackets	**$ .60 per pr.**
No. 1267—	7 in. Brackets	**.80 per pr.**
No. 1268—	9 in. Brackets	**1.00 per pr.**

INTER-STAGE SHIELDS



These shields are ideal for use on receiver and transmitter chassis for eliminating inter-stage coupling and isolating component parts. Made of 20 gauge electro zinc coated steel. Folded on front and bottom for fastening to panel or chassis.

No. 1246—	5½ in high, 7 in. long	**List**	**$ .30**
No. 1247—	5½ in. high, 10 in. long	**List**	**.40**
No. 1245—	6½ in. high, 10 in. long	**List**	**.45**

BUD RADIO PRODUCTS

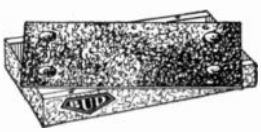
STEEL CHASSIS BASES



Made of heavy gauge bright finish cold rolled sheet steel. Ends are folded down and spot welded. Folded over on bottom to attach bottom plate. Supplied undrilled in the following sizes.

ELECTRO ZINC COATED Cat. No.	New List Price	Chassis Size — Inches —	BLACK CRACKLE FINISHED Cat. No.	New List Price
776 -	$ .70	5 x 9½ x 1½	788 -	$ .70
1191 -	.80	7 x 7 x 2	789 -	.80
1192 -	.85	7 x 9 x 2	790 -	.85
1193 -	.95	7 x 11 x 2	791 -	.95
1194 -	1.05	7 x 13 x 2	646 -	1.05
1198 -	.85	5 x 13½ x 2½	647 -	.85
1189 -	1.40	7 x 15 x 3	649 -	1.40
1066 -	1.05	4 x 17 x 3	1068 -	1.05
1199 -	1.25	7 x 17 x 2½	648 -	1.25
1195 -	1.40	10 x 12 x 3	652 -	1.40
779 -	1.50	10 x 14 x 3	653 -	1.50
774 -	1.40	8 x 17 x 2	650 -	1.40
775 -	1.50	8 x 17 x 3	651 -	1.50
769 -	1.50	10 x 17 x 2	654 -	1.50
1196 -	1.60	10 x 17 x 3	655 -	1.60
1197 -	2.00	10 x 23 x 3	656 -	2.00
770 -	1.80	11 x 17 x 2	657 -	1.80
771 -	1.85	11 x 17 x 3	658 -	1.85
661 -	2.00	12 x 17 x 2	663 -	2.00
662 -	2.25	12 x 17 x 3	664 -	2.25
772 -	2.25	13 x 17 x 2	659 -	2.25
773 -	2.35	13 x 17 x 3	660 -	2.35

CHASSIS BOTTOM PLATES



These plates make excellent dust covers and conceal the wiring and component parts in the chassis. Four formed bosses act as feet and eliminate marring or scratching of table.

Zinc Coated Cat. No.	Black Crackle Cat. No.	Bottom Plates Listed Fit the Following Chassis Size	New List Price
667	680	5 x 9½	$ .40
668	681	7 x 7	.45
669	682	7 x 9	.50
670	683	7 x 11	.55
671	684	7 x 13	.60
672	685	5 x 13½	.45
513	516	7 x 15	.65
1067	1069	4 x 17	.50
673	686	7 x 17	.65
674	687	8 x 17	.70
675	688	10 x 12	.65
514	517	10 x 14	.75
676	689	10 x 17	.80
677	690	11 x 17	.85
678	691	12 x 17	.90
679	692	13 x 17	1.00
515	518	10 x 23	1.05

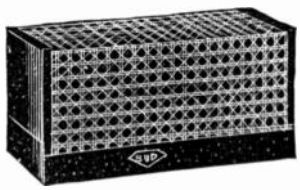
BUD BOX TYPE SHIELDS



These shields are recommended to shield transformers, audio chokes, variable gang condensers, etc., and isolate them from other circuits in the instrument, thereby eliminating magnetic and electrostatic interference. Made from cold rolled sheet static. All seams and corners spot welded for rigidity. Formed flanges on bottom to attach to chassis. Finished in black crackle enamel. Size 4½ x 7½ x 5 in. high.

No. 1244 ..... Price $1.10

AMPLIFIER FOUNDATION KIT



An amplifier built on these foundation kits will have real professional appearance. Chassis is formed from heavy-gauge cold-rolled steel. Corners are folded over and welded. Shield cover is sheet metal perforated in cane design. Finished in black crackle. Chassis furnished undrilled.

No.	Overall size Inches	Chassis Height	List Price
699	5x 9½x8¼	2½ in.	$2.35
1125	5x13½x8¼	2½ in.	2.65
1126	7x17 x8¼	2½ in.	3.50
1127	10x17 x8¾	3 in.	4.15
1128	10x12 x8¾	3 in.	3.50

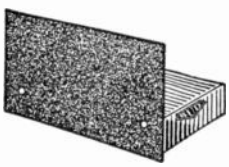
METAL CARRYING CASES



Ideal for housing portable transceivers, amplifiers, etc. Removable front and rear panels. Ruggedly constructed yet light in overall weight. Black crackle finished. All seams and corners re-enforced and spot welded. Substantial leather carrying handle.

Cat. No.	Size—Inches W.	L.	H.	List Price
1096	6	x 7	x 12	$2.60
1097	7	x 7¾	x 15	3.40
1100	7	x 10	x 10	2.85

METAL PANELS



Heavy gauge cold rolled steel, finished on both sides in beautiful black crackle enamel.

Cat. No.	Size	New List Price
1200—	7 x 8 inches	$ .40
1201—	7 x 10 inches	.50
1202—	7 x 12 inches	.60
1203—	7 x 14 inches	.65
1204—	8 x 14 inches	.70
1205—	8 x 16 inches	.80
1187—	8 x 18 inches	.90
1188—	8 x 19 inches	1.15
700—	9 x 15 inches	.75

ALUMINUM PANELS

Made of 16 gauge aluminum and have a bright polished finish. Easy to drill.

Cat. No.	Size	List Price
984—	7 x 10 inches	$ .80
985—	7 x 12 inches	1.00
986—	7 x 14 inches	1.20
987—	7 x 16 inches	1.40
988—	7 x 18 inches	1.60
989—	7 x 19 inches	1.65
990—	7 x 21 inches	1.80
991—	7 x 24 inches	2.00
992—	7 x 30 inches	2.50

METAL BOX CABINETS



Excellent for housing Monitors, oscillators, receivers, etc. Front and back panels removable. Black crackle finish.

Cat. No.	Size—Inches W.	L.	H.	List Price
1098	6	x 6	x 6	$1.15
1099	5	x 6	x 9	1.70
879	7	x 8	x 10	2.25
1124	6	x 7	x 12	2.25
880	8	x 10	x 10	2.75
881	8	x 11	x 12	3.00
882	7	x 9	x 15	3.25

CHASSIS DECKS

These mounting bases will fit Bud metal box cabinets. Made of rust proof zinc coated steel and sturdily constructed. Can be mounted to panel any height from bottom.

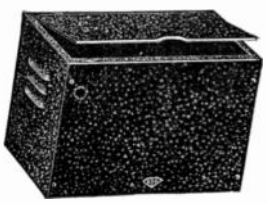
Cat. No.		List Price
522	Fits No. 1098 Cabinet	$ .40
523	Fits No. 1099 Cabinet	.35
524	Fits No. 879 Cabinet	.55
525	Fits No. 1124 Cabinet	.45
526	Fits No. 880 Cabinet	.65
527	Fits No. 881 Cabinet	.75
528	Fits No. 882 Cabinet	.60

METAL CABINETS



Made from heavy gauge, cold-rolled sheet steel. All joints are spot welded. Hinged lid. Supplied with undrilled sub-base. Black crackle finish. Back of cabinet removable.

Cat. No.	Size	List Price
870	7½ x 7½ x 7 in.	$3.00
871	7½ x 10 x 7 in.	3.50
872	7½ x 10 x 7 in.	4.00



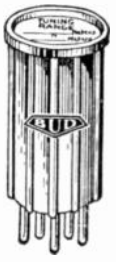
Made from heavy gauge sheet steel, all corners re-enforced and spot welded. Hinged lid, louvres on side. Removable front panel. Black crackle finish.

Cat. No.	Size—Inches W.	L.	H.	List Price
993	6	x 10	x 7	$2.75
994	7¼	x 12	x 7	3.25
995	7½	x 14	x 7	3.50

BUD RADIO PRODUCTS

SHORT WAVE PLUG-IN COIL FORMS

MADE OF LOW LOSS BAKELITE



Supplied with disc in top which permits writing in wave-length range, and makes identification positive. These forms are supplied in 4, 5, and 6 prong units to fit standard tube sockets. All sizes have eight ribs moulded on wall of coil forms which give low loss air core windings.

GIANT COIL FORMS

2¼" in diameter. 3¼" winding space.

No.		List
734	4 Prong	$0.60
735	5 Prong	.65
736	6 Prong	.70

Same as above, but threaded 12 turns per inch for space winding coils.

No.		List
1221	4 Prong	$0.85
1222	5 Prong	.90
1223	6 Prong	.95

SENIOR COIL FORMS

1½" in diameter. 2½" winding space.

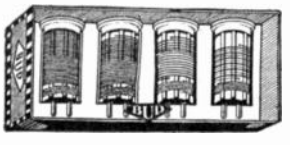
No.		List
125	4 Prong	$0.30
126	5 Prong	.30
310	6 Prong	.35

JUNIOR COIL FORMS

1¼" in diameter. 2⅛" winding space.

No.		List
594	4 Prong	$0.20
595	5 Prong	.25
596	6 Prong	.25

LO-COIL KITS



SENIOR

Wound on 1½" diameter coil forms. Covers wave-length of 16 to 200 meters when tuned with .00014 mfd. condenser. Each kit has 4 coils.

No.		List
222	4 Prong 2 Windings	$2.50
918	6 Prong 3 Windings	3.20
916	5 Prong 2 Windings Secondary tapped for electron coupled circuits.	3.00

JUNIOR

Wound on 1¼" diameter forms. Wave-length range, 11 to 210 meters with .00014 mfd. condenser. 4 coils to kit.

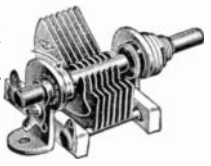
No.		List
354	4 Prong 2 Windings	$1.85
356	6 Prong 3 Windings	2.70

SUPERHETERODYNE

Consists of 8 coils. 4 detector coils and 4 oscillator coils to track with I.F. transformers tuned 465 KC. Wave-length range 13 to 200 meters with .00014 mfd. condenser.

No. 397 ..... List $5.00

MIDGET CONDENSERS



A superior built condenser for mid line tuning. Positive wiping contact with screw adjustment eliminates mechanical noises on high frequencies. Isolantite insulation. Soldered brass plate assemblies. Heavy aluminum end plates with closely fitted bearings for smooth operation. Carefully designed and constructed for maximum efficiency. Extended shaft from rear for ganging several units.

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Plates	List Price
926	15	3	3	$1.15
900	20	3	3	1.15
902	35	4	5	1.25
903	50	5	7	1.35
904	80	6	11	1.55
905	100	6	14	1.85
906	140	7	19	2.00
907	150	7	21	2.10
908	200	9	27	2.30
909	250	10	33	2.45
910	325	12	43	2.90

DUAL SPACED MIDGET CONDENSERS

Spacing between plates .060".

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	List Price
565	15	4	$1.50
897	35	6	1.55
898	50	7	2.00
899	75	8	2.50
941	100	10	3.00

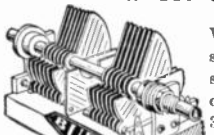
NEUTRALIZING CONDENSERS

Cat. No.	Max. Cap.	Air Gap	List Price
567	4	.200"	$1.40
564	8	.130"	1.50
565	15	.060"	1.50
566	35	.095"	2.00
897	35	.060"	1.55

BAND-SPREADING CONDENSERS

Cat. No.	Tank Cap. mmfd.	Tuning Cap. mmfd.	List Price
894	100	20	$2.75
895	100	50	3.00
896	100	80	3.25

DUAL MIDGET CONDENSERS



With extension shaft for ganging several units. Size of mounting base 3⅝" long, 1¾" wide.

No.		List
911	Capacity per section, 100 mmfd.	$3.00
912	Capacity per section, 140 mmfd.	3.50

DOUBLE SPACED DUAL CONDENSERS

Spacing between plates .060".

No.		List
913	Capacity per section, 35 mmfd.	$3.00
942	Capacity per section, 20 mmfd.	3.00

TRANSMITTER COILS

Oscillator, Buffer Doubler combination coils to cover the amateur bands. Wound to specifications of ALL STAR Transmitter. Wound on BUD GIANT BAKELITE plug-in coil forms.

No.		List
1273	160 Meter "A" Coil	$2.50
1274	80 Meter "B" Coil	2.00
1275	40 Meter "C" Coil	2.00
1276	20 Meter "D" Coil	2.00

BUD MIDGET CONDENSERS



These condensers are of the straight line frequency type. Panel or base mounting. Isolantite insulation. Closely fitted single end bearing for constant and definite capacity. Soldered brass plate assemblies.

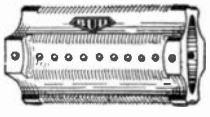
Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	Plates	List Price
324	10	2	2	$0.80
328	15	3	3	.85
323	20	3	3	.85
322	35	4	5	1.00
148	50	5	7	1.10
901	80	6	11	1.15
321	100	6	14	1.25
396	140	7	19	1.45
320	150	7	21	1.50

SINGLE BEARING DUAL-SPACED CONDENSERS

Spacing between plates .060".

Cat. No.	Max. Cap. mmfd.	Min. Cap. mmfd.	List Price
327	6	2	$0.85
311	15	4	1.10
319	35	6	1.25
312	50	7	1.40

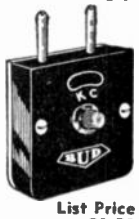
TRANSMITTER TANK FORMS



Made in three sizes to cover the inductance requirements of the amateur frequency spectrum. These forms are grooved for No. 10 wire or smaller and drilled with sufficient holes for wires and supports. Isotex is a special moulded low loss properties having exceptional low loss properties. All forms are glazed.

No.		List Price
383	20 or 40 meter form is grooved twenty-four turns in 4" of winding space. Size 2½" O. D. x 5" long	$1.00
384	20 or 40 meter form with supports	1.90
376	80 meter form is grooved thirty-two turns in 5" of winding space. Size 3" O. D. x 6" long	1.50
377	80 meter form with supports	2.40
393	160 meter form is grooved forty-eight turns in 6" of winding space. Size 4" O. D. x 7¼" long	2.00
394	160 meter form with supports	2.90

HY-FREQUENCY CRYSTAL HOLDER



Ideal for use with transmitters operating on high frequencies (500-7000 KCS.). Will hold crystals up to 1½" square and .25" thick. Housing made of moulded bakelite with nickel plated fittings. Tube prong contacts spaced ¾" apart. Mounts in 5 or 6 prong socket.

No.		List Price
763	With tube prongs	$1.50
762	With banana plugs	1.75

BUD CRYSTAL HOLDER

For use with crystals covering frequencies from 500 to 4000 KCS. Made of glazed Isotex (ceramic). Lapped in plates. Holds crystals 1½" square. Pressure type. Moisture-proof, dust-proof.

No.		List Price
764	Banana Plug contacts	$1.75
754	Tube Prong contacts	1.75
765	Mounting base for No. 764 and No. 762 Crystal holders	.65

BUD RADIO PRODUCTS

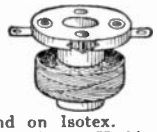
HY-FREQUENCY R.F. CHOKES



For H.F. receivers and low powered transmitters. Wound with SSE wire on Isolantite core. Extremely low distributed capacity.

Cat. No.	Inductance	List
920	2.5 M.H.	$0.50
922	5.5 M.H.	.65
923	8. M.H.	.75
924	10. M.H.	.85

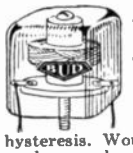
LATTICE-WOUND R.F. CHOKES



Low D.C. resistance, high impedance. Moisture proof; low distributed capacity. Wound on Isotex.

No.	M.H.	List	No.	M.H.	List
1212	2.5	$.40	1217	16	$.55
1213	3.4	.40	1218	30	.55
1214	5.5	.40	1219	60	.60
1215	8.	.45	1220	80	.65
1216	10.	.45			

MAGICORE "HY-Q" R.F. CHOKES



IRON CORE

These new metallic alloy core chokes have nearly double Q factor of air core coils. High permeability with minimum hysteresis. Wound with silk covered enamel wire.

SHIELDED

Cat. No.	Inductance	List Price
1277	1.5 M.H.	$0.85
1278	2.5 M.H.	.85
1279	3.4 M.H	.90
1280	5.5 M.H.	.90
1281	8 M.H.	1.00
1282	10 M.H.	1.00
1283	16 M.H.	1.15
1284	30 M.H.	1.15
1285	60 M.H.	1.30
1286	80 M.H.	1.45
1287	125 M.H.	1.80

UNSHIELDED

1288	1.5 M.H.	$0.70
1289	2.5 M.H.	.70
1290	3.4 M.H.	.75
1291	5.5 M.H.	.75
1292	8 M.H.	.85
1293	10 M.H.	.85
1294	16 M.H.	1.00
1295	30 M.H.	1.00
1296	60 M.H.	1.15
1297	80 M.H.	1.30
1298	125 M.H.	1.65

TRANSMITTER R.F. CHOKES

PIE WOUND

Exceptionally low power loss, no transmission bands. Continuous winding of six lateral wound tapered sections. Low D.C. resistance.

Ind. 2.8 MH.; 5 ohms D.C. Res.; rating 1000 M.A.
No. 568 ..... **List $2.00**

Ind. 5.3 MH.; 12½ ohms D.C. Res.; rating 500 M.A.
No. 569 ..... **List $1.75**

5-METER INTERRUPTER COIL

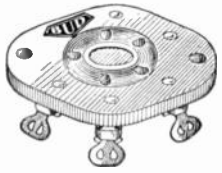
Low-frequency Oscillator in 5-meter circuits.
No. 452 ..... **List $1.00**

JACK NAME PLATES

For identifying input and output circuits. Polished letters on black satin background. Fit on ⅜" dia. bushings. 1⅛" diameter.

No.	Marking	List
1180	Microphone	$0.15
1181	Phono Pick Up	.15
1182	Phones	.15

ISOTEX SOCKETS



Moisture-proof, high surface resistance. Low loss effect. Sub-panel, base-mounting. Size 2¼" x 1⅝".

No.	List	No.	List
954 4 Pr.	$.40	957 7 Sm.	$.50
955 5 Pr.	.40	958 7 Lge.	.50
956 6 Pr.	.45	959 8 Pr.	.55

BUD TUBE SOCKETS

Made of Bakelite



Are constructed of the finest materials throughout, using genuine phosphor bronze contacts. Top is grooved for tube guide. Excellent for regular as well as experimental work. Used as standard equipment by manufacturers of test equipment.

PANEL MOUNT

No.		List Price
268	4 Prong	$0.20
269	5 Prong	.25
270	6 Prong	.25
271	7 Prong Lge.	.25
983	7 Prong Sm.	.25
1060	5, 6, Sm. 7 Pr. Comb.	.35
1061	7 Prong Combination	.30
1062	4, 5, 6 Prong Comb.	.35
1063	8 Prong, Octal	.30



BUD COMBINATION BASE OR PANEL MOUNT SOCKETS

Made of Bakelite

No.		List Price
264	4 Prong	$0.30
265	5 Prong	.30
266	6 Prong	.35
267	7 Prong (Reg.)	.40
885	7 Prong (Small)	.40

BUD TOGGLE SWITCHES



For controlling radio sets, small motors, lamps, etc. Underwriter approved. Rated 3 amps. at 125 volts or 1 amp. at 250 volts. Supplied in nickel plated or statuary bronze finish. Made by H&H for BUD. Packed 5 to Carton.

Cat. No.	Description	Shank Length	List Price
1003	S.P.S.T.	⅞"	$0.35
1004	S.P.S.T.	⅞"	.40
1005	S.P.D.T.	⅞"	.50
1006	S.P.D.T.	⅞"	.55
1007	D.P.S.T.	⅞"	.60
1008	D.P.S.T.	⅞"	.65
1009	D.P.D.T.	⅞"	.85
1010	D.P.D.T.	⅞"	.90
1077	Closes 3 circuits for R.C.A., etc.	¼"	.60

BUD ROTARY SWITCHES



Positive contact rotary power switch, underwriter approved. Rated 3 amps. at 125 volts and 1 amp. at 250 volts. Copper plated steel encased, Bakelite insulation. Shafts are 1½" long. Made by H&H for BUD.

Cat. No.	Description	Shank Length	List Price
499	S.P.S.T.	⅜"	$0.40
1070	S.P.S.T.	1"	.45
1071	S.P.D.T.	⅜"	.50
1072	S.P.D.T.	1"	.60
1073	D.P.S.T.	⅜"	.75
1074	D.P.S.T.	1"	.85
1075	D.P.D.T.	⅜"	.90
1076	D.P.D.T.	1"	1.00

PUSH BUTTON SWITCH

Two circuit non-indicating slow make and quick break momentary contact switch. One circuit is "ON" and the other is normally "OFF."

No. 743 **Price $0.60**

FLEXIBLE COUPLINGS



For ganging units or shaft extensions. Fit ¼" diameter shafts.

No.	Dia.	Insulation	List
855	1½"	Bakelite	$0.35
845	1"	Fibre	.35
795	1⅛"	Isotex	.45

High Voltage Type

Glazed Isolantite Rod Insulation
No. 741—3¼" long **List $0.90**
No. 740—1¾" long **List $0.80**

JACKS



Small, compact spring brass contacts, nickel plated. Supplied with insulating washers.
No. 232—Open circuit **$0.25**
No. 233—Single closed circ. **.30**

GIANT SOCKETS

For Transmitting Tubes



Base made of Isotex, glazed top and sides to resist moisture. Snug fitting machined jack type contacts.

226—50 watt size **$1.00**
227—For RK28, 803, etc. **1.50**

SHIELDED CABLE PLUGS AND SOCKETS



Prongs and contacts insulated in Bakelite. Shielded by metal cap. Cord grip.

PLUGS

No.		List
705	4 Prong	$0.50
706	5 Prong	.55
707	6 Prong	.55
708	7 Prong	.60
709	8 Prong	.65

SOCKETS

701	4 Prong	$0.60
702	5 Prong	.60
703	6 Prong	.65
704	7 Prong	.70
710	8 Prong	.75



BUD TUNING DIALS

For Use on Transmitters and Other Equipment

Made of heavy gauge brass, spun and chrome plated. Black numerals. Large fluted knob. Insulated from shaft.

Vernier Type—180 Deg.

No.	Dia.	Calibra.	List
163	2¾"	0-100	$1.25
164	2¾"	100-0	1.25
165	4"	0-100	1.75
166	4"	100-0	1.75

Indicator Type—180 Deg.

711	1¾"	0-100	$0.85
712	1¾"	100-0	.85
713	2¾"	0-100	1.00
714	2¾"	100-0	1.00
715	4"	0-100	1.50
716	4"	100-0	1.50

DIAL PLATES

Raised polished numerals and dial divisions on black satin background. Made of tempered aluminum.

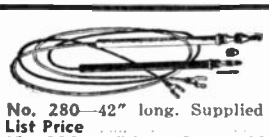
No.	Dia.	Deg.	Calibra.	List
1175	3"	180	0-100	$0.25
1176	3"	180	100-0	.25
1177	2"	180	0-100	.20
1178	2"	180	100-0	.20
1179	2"	325	0-100	.20

OSCILLATOR

ETCHED NAME PLATES

High quality aluminum used. Raised polished letters on black satin finish. For transmitters, amplifiers, etc. Furnished with following inscriptions:

Oscillator	Receiver	Amplifier
Plate Volts	Send-Receive	Plate Voltage
Microphone	Power Ampl.	Off-On
Input	Neutralizer	Class "B" Mod.
Monitor	Fader	Grid Current
Send	Antenna	Crystal Osc. Plate
Selector	Key	Microphone Current
Crystal Osc.	A.C. Input	200-Ohm Input
CW-Phone	Transceiver	200-Ohm Output
200-Ohm	Speech Ampl.	500-Ohm Input
500-Ohm	Gain Control	500-Ohm Output
Tone Control	Grid	Radio
Output	Modulator	Record
Freq. Meter	Doubler	Speaker
Beat Osc.	Transmitter	**List Price** **$0.10**



EVER-READY TEST LEADS

Made of the finest quality insulated flexible wire. Black lead is negative red positive.

No. 280—42" long. Supplied with spade terminals or phone tips.
List Price **$0.50**

No. 184—42" long. Removable needle point inserted into the chuck; penetrates the insulation without injury; spade or phone tip terminals.
List Price **$0.50**

No. 1841—42" long. Long fixed needle point; spade or phone tip terminals.
List Price **$0.50**

No. 621—De-Luxe Test Leads—60" long. Heavy duty with removable tips; phone tip terminals; handles are polished hard rolled fibre; extremely flexible. Continuity test tips are the chuck type.
List Price **$1.25**

Circuit Selector Switches
Tap Switches
Short Wave Switches

YAXLEY

Circuit Opening Switch
"Hamswitch"
Etched Dial Plates

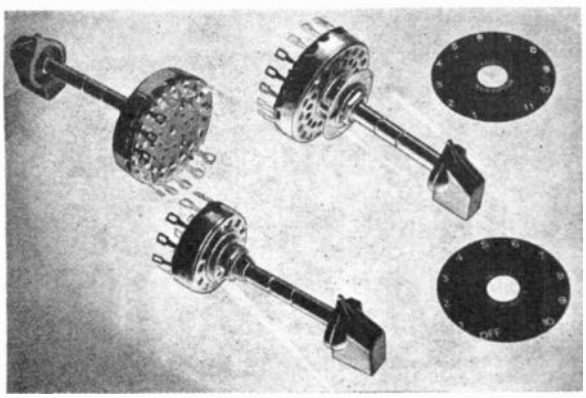
Multi-Gang Circuit Selector and All-Wave Switches—TYPES 1200L SERIES and 1300L SERIES

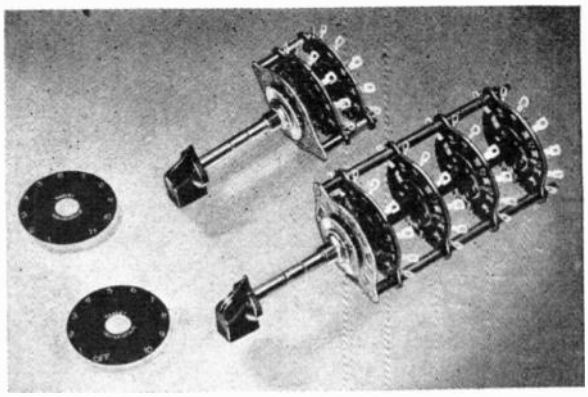
● The design used in the Yaxley 1200L and 1300L type Switches is identically the same construction as used and specified by the largest percentage of manufacturers making all-wave receivers. Set designers demand the lowest contact resistance and capacity between circuits, which requirements are supplied in this type of Yaxley Switch.

Switches, except one and two gang, are provided with one-inch spacings. If necessary, these switches can be disassembled, the spacers cut down to meet the requirements as to the length of the switch and the spacings of the sections.

A standard universal threaded bushing is supplied on all 1200L and 1300L switches, as well as the new universal 2-inch long notched shaft and shakeproof washer.

Number of Circuits per Section or Gang	Total Number of Circuits per Switch	Number of Points or Contacts per Circuit	Number of Sections or Gangs per Switch	Shorting Type Catalog Number	Non-Shorting Type Catalog Number	List Price
One	One	6	One	1216L	1316L	$1.00
One	One	11	One	1211L	1311L	1.15
Two	Two	5	One	1215L	1315L	1.25
Three	Three	3	One	1213L	1313L	1.35
Four	Four	2	One	1212L	1312L	1.45
One	Two	6	Two	1226L	1326L	1.60
One	Two	11	Two	1221L	1321L	1.75
Two	Four	5	Two	1225L	1325L	2.00
Three	Six	3	Two	1223L	1323L	2.10
Four	Eight	2	Two	1222L	1322L	2.25
One	Three	6	Three	1236L	1336L	2.20
One	Three	11	Three	1231L	1331L	2.35
Two	Six	5	Three	1235L	1335L	2.50
One	Four	6	Four	1246L	1346L	2.75
One	Four	11	Four	1241L	1341L	3.00
Two	Eight	5	Four	1245L	1345L	3.50





Single-Gang Circuit Selector Switches

—TYPES 3100J SERIES and 3200J SERIES

● The value of Yaxley's experience in manufacturing and selling over 6,500,000 all-wave switches is best demonstrated by the new Type 3100J Switch. This switch, engineered for short-wave, tone control and tap switch applications, provides small size and compactness—extreme flexibility in circuit and coil combinations—low capacity—low resistance. All contacts are silver to silver and are plated according to the exclusive and time-proved Yaxley formula. The new contacting arrangement has been shown by test to yield a longer quiet life than other methods.

Yaxley Type 3100J Switches are available only in single gang and in two sizes—one with 1¼-inch diameter base, the other with $1^{11}/_{16}$-inch diameter base. The circuit combinations shown below indicate respective sizes. They are made in both shorting and non-shorting types. Adjustable stop feature is available only in the $1^{11}/_{16}$-inch base size.

Number of Circuits	Number of Contacts per Circuit	Diameter of Base	Adjustable Stop	Shorting Type Catalog No.	Non-Shorting Type Catalog No.	List Price
One	12	1¼"	No	3112J	3212J	$0.75
Two	6	1¼"	No	3126J	3226J	.75
Three	4	1¼"	No	3134J	3234J	.90
Four	2	1¼"	No	3142J	*3242J	.85
Four	3	1¼"	No	3143J	3243J	.90
One	17	$1^{11}/_{16}$"	Yes	3117J	3217J	1.35
Two	9	$1^{11}/_{16}$"	Yes	3129J	3229J	1.35
Three	6	$1^{11}/_{16}$"	Yes	3136J	3236J	1.50
Six	3	$1^{11}/_{16}$"	Yes	3163J	†3263J	1.50

*Replaces No. 2742.
†Replaces No. 2762 by using adjustable stop

Yaxley Etched Dial Plates

Marking	For all Yaxley Switch types 1200L, 1300L and 1¼" base 3100J, 3200J. 30 degree spacing between numerals. Cat. No.	For all Yaxley type 3100J, 3200J Switches with $1^{11}/_{16}$" base. 20 degree spacing between numerals. Cat. No.	List Price
1 to 2	372		$0.15
1 to 3	373	453	.15
1 to 4	374	454	.15
1 to 5	375	455	.15
1 to 6	376	456	.15
1 to 7	377	457	.15
1 to 8	378	458	.15
1 to 9	379	459	.15
1 to 10	380	460	.15
1 to 11	381	461	.15
1 to 12	382	462	.15
1 to 13		463	.15
1 to 14		464	.15
1 to 15		465	.15
1 to 16		466	.15
1 to 17		467	.15
1 to 18		468	.15
Off 1 to 2		472	.15
Off 1 to 3	383	473	.15
Off 1 to 4	384	474	.15
Off 1 to 5	385	475	.15
Off 1 to 6	386	476	.15
Off 1 to 7	387	477	.15
Off 1 to 8	388	478	.15
Off 1 to 9	389	479	.15
Off 1 to 10	390	480	.15
Off 1 to 11		481	.15
Off 1 to 12		482	.15
Off 1 to 13		483	.15
Off 1 to 14		484	.15
Off 1 to 15		485	.15
Off 1 to 16		486	.15
1 to 24	394 Special 15° Spacing Between Numerals		.15

● Yaxley specializes in unusual selector switch problems. If any of the single-section, multi-section or special switches listed cannot be adapted to your application, submit complete details and specifications for quotations. The laboratories, facilities and experience of Yaxley switch engineers are available to help solve any specific requirement.

Yaxley "Hamswitch" No. 151L

● The Yaxley "Hamswitch" provides a simple method of using a single meter to measure currents or voltages up to and including five circuits of an Amateur Transmitter. It is less expensive, more reliable, compact and convenient than the conventional cord, plug and jack system. It finds wide use in diversified application.

Designed similarly to famous Yaxley circuit selector switches, it is of two-gang construction with 2¼" spacing between sections. This space permits multiplying resistors to be soldered directly to switch terminals when wired into the circuit.

The five complete circuits may be used in many combinations such as oscillator plate current, buffer plate current, final grid current, final plate current and plate voltage.

High insulating qualities and low loss construction permit a conservative rating of 1000 volts RMS A/C or 1500 volts D/C. Employs efficient silver to silver wiping contacts, adjustable stop, and permits the use of fewer positions. Has 2-inch notched shaft, shakeproof washer.

Yaxley "Hamswitch," complete with Yaxley Bar Type Knob No. 366—No. 151L. List price.....$1.80

Circuit Opening Switch No. 1400L

● Yaxley No. 1400L Switch will "open" any one of twelve "lines" for the insertion of a current reading meter and maintain a "Through" circuit on the other eleven lines. This switch has found wide application in the construction of test sets, tube checkers, analyzers, and other apparatus where it is desirable to use only one meter.

One particular advantage is that multiplying resistors for those circuits wherein a different range is needed for each line can be wired to the switch, so that the switch not only opens the line but also automatically cuts in the proper multiplying resistor for the range needed on that particular line.

Small size, 1¾" long, 2⅛" wide, ¾" bushing, 2" notched shaft "hill-and-valley" index and shakeproof washer.

Special Circuit Opening Switch complete with Yaxley Bar Type Knob No. 366 and Yaxley Etched Dial Plate No. 382—No. 1400L. List price..... $4.50

15-Point Tap Switch No. 150J

● An improved special switch—shorting type, single-gang only. Has 2-inch notched shaft and shakeproof washer.

Special 15-Point Tap Switch, complete with Yaxley Bar Type Knob No. 366 and Yaxley Dial Plate No. 465—No. 150J. List price.....$1.50

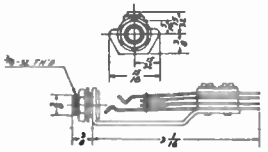
24-Point Tap Switch No. 13124

● A special single circuit, 24-point non-shorting switch, with notched shaft and other quality features found in the 1300L Series. Particularly useful in test equipment applications.

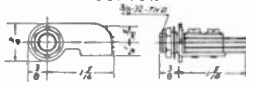
Special 24-point Tap Switch, complete with Yaxley Bar Type Knob No. 366 and Yaxley Dial Plate No. 394—No. 13124. List price.....$3.25

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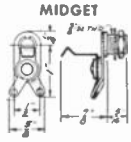
LONG FRAME



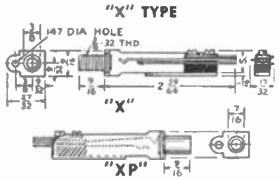
JUNIOR

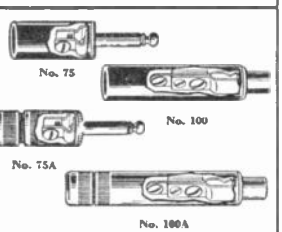


MIDGET

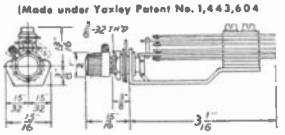


"X" TYPE

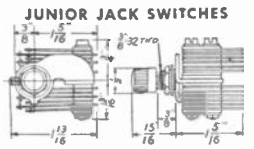




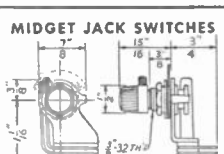
STANDARD JACK SWITCHES
(Made under Yaxley Patent No. 1,443,604



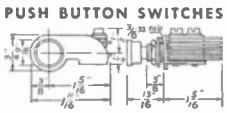
JUNIOR JACK SWITCHES



MIDGET JACK SWITCHES



PUSH BUTTON SWITCHES



Long Frame, Junior, Midget, New "X" Type Jacks

Circuit Arrangement	Long Frame Types		Junior Jacks		Midget Jacks		"X" Types	
	No.	List Price	No.	List Price	No.	List Price	No.	List Price
Open Circuit	1	$0.50	701	$0.40	A-1	$0.25	XP1	$0.65
Circuit Closing	2	.60	702	.55	A-2	.40		
Two Circuit	2A	60	702A	.55	A-2A	.50		
Three Circuit Microphone	2B	60	702B	.55			XP2B	.75
Single Circuit Filament Control	3	.70	703	.65				
Circuit Reversing	3A	.70	703A	.65	A-3A	.60		
Single Circuit Make Before Break							XP3B	1.00
Double Circuit	3C	.70	703C	.65				
Interstage	4	.80	704	.75				
Two Circuit Filament Control	4A	.80	704A	.75				
Two Circuit Filament Lighting	5	.90	705	.85				
Interstage Filament Control	6	1.00	706	.95				

Spring combinations of Midget, Junior and Long Frame Jacks are illustrated in "Circuit" column at left. "X" type circuits are at the right.

Phone Plugs, Microphone Plugs and Extension Jacks

● Yaxley Phone Plugs, Microphone Plugs and Extension Jacks can in no way be compared with imitations or inferior products. Yaxley exclusive design insulation of Bakelite positively prevents current leakage. Patented feature—insulating tip from sleeve prevents shorting between these parts.

	List Price
Two-Way Phone Plug (Bakelite Shell)—No. 75	$0.50
Two-Way Phone Plug (Bakelite Shell) (Tie Cord Type)—No. 75TC	.60
Two-Way Phone Plug (Shielded Nickel Shell)—No. 75A	2.25
Three-Way Microphone Plug (Bakelite Shell)—No. 76	1.00
Three-Way Microphone Plug (Shielded Nickel Shell)—No. 76A	2.50
Two-Way Extension Jack (Fiber Shell) for No. 75, 75TC Phone Plugs—No. 100	.75
Two-Way Extension Jack (Shielded Nickel Shell) for No. 75A Phone Plug—No. 100A	2.50
Three-Way Extension Jack (Fiber Shell) for No. 76 Microphone Plug—No. 101	1.50
Three-Way Extension Jack (Shielded Nickel Shell) for No. 76A Microphone Plug—No. 101A	2.75

Standard and Junior Jack Switches

(Made under Yaxley Patent No. 1,443,604)

Circuit Arrangement	Two Position			
	Standard		Junior	
	No.	List Price	No.	List Price
Single Pole, Single Throw	20	$0.75	720	$0.70
Single Pole, Double Throw	30	.90	730	.85
Double Pole, Single Throw	40	1.00	740	.95
Five Springs, two make and one break	45	1.15	745	1.10
Double Pole, Double Throw	60	1.25	760	1.20
Three Pole, Single Throw	73	1.25	733	1.25
Four Pole, Single Throw	74	1.60	744	1.60
Circuit Arrangement	**Three Position**			
Single Pole, Double Throw Center off Position	32	.90	732	.85
Double Pole, Double Throw Center off Position	62	1.25	762	1.20
Three Pole, Double Throw Center off Position	63	1.60	763	1.55
Four Pole, Double Throw Center off Position	64	2.00	764	1.95

Yaxley Jack Switches and Junior Jack Switches are furnished complete with Black Knob, Pointer and Off-On Name Plate. Mount in a single hole, $\frac{7}{16}$" diameter, on panels up to $\frac{1}{4}$" thick.

Yaxley Junior Jack Switches are especially desirable for mounting in a small space. The Switch lies parallel with the panel and has a depth of $1\frac{1}{4}$".

Midget Jack Switches

Yaxley Midget Jack Switches are of the same general construction as the Junior types but require less space.

Furnished complete with Black Knob and Pointer. Mount in single hole, $\frac{3}{8}$" diameter on panels up to $\frac{1}{4}$" thick. List Price

Single Pole, Single Throw, with "On-Off" Plate—No. 10 ....$0.50

Single Pole, Double Throw, for long and short antenna switch. Furnished with "L and S" Plate—No. 11 ..... .65

Push Button Switches

Yaxley Push Button Switches are made in locking and non-locking types. Especially adapted for use in laboratories, test panels, meter circuits and where permanent or momentary contact is desired.

The non-locking switch operates only when the button is pushed in and releases on removal of the pressure. The locking type maintains its position when the button is pushed in and is released when button is pulled out.

Furnished with polished black Bakelite Knob. Mounts in single hole $\frac{7}{16}$" diameter on panels up to $\frac{1}{4}$" thick. List Price

S. P. Make contact—Non-locking type—No. 2001	$0.90
S. P. Make contact—Locking type—No. 2001-L	.90
S. P. Break contact—Non-locking type—No. 2002	.90
S. P. Break contact—Locking type—No. 2002-L	.90
S. P. Double Throw—Non-locking type—No. 2003	1.00
S. P. Double Throw—Locking type—No 2003-L	1.00
2-Pole—Make two contacts—Non-locking type—No 2004	1.20
2 Pole—Make two contacts—Locking type—No. 2004-L	1.20
2 Pole—Break two contacts—Non-locking type—No 2005	1.20
2 Pole—Break two contacts—Locking type—No 2005-L	1.20
2 Pole—Double Throw—Non-locking type—No 2006	1.50
2 Pole—Double Throw—Locking type—No. 2006-L	1.50
2 Pole—Make two—Break one—Non-locking type—No. 2007	1.30
2 Pole—Make two—Break one—Locking type—No. 2007-L	1.30
Double Throw—Make before break—Non-locking type—No. 2008	1.65
2 Pole—Double Throw—Make before break—Locking type—No. 2008-L	1.65

Hexagon Head Type Tip Jacks

(Supplied with insulating washers.) With Hexagon Bakelite Top for mounting in $\frac{1}{4}$" hole. (U.S. Letters Patent No. 1,586,279—May 26, 1926).

	List Price
Red—No. 420	$0.15
Black—No. 421	.15
Pair (1 Black, 1 Red) in envelope—No. 422	.25
Dark Green—No. 423	.15
Brown—No. 424	.15
Light Blue—No. 425	.15
Orange—No. 426	.15
Yellow—No. 427	.15
Light Green—No. 428	.15
Dark Blue—No. 429	.15

When using insulating washers, mount in $\frac{3}{8}$" hole



No. 421

Round Bakelite Head Type Tip Jacks

(Supplied with insulating washers.) Mounts in $\frac{5}{16}$" hole in panel up to $\frac{3}{8}$" thick.

Pair (1 No. 419 Black, 1 No. 418 Red) in envelope—No. 407	$0.35
Green—No. 413	.20
Red—No. 418	.20
Black—No. 419	.20

When using insulating washers, mount in $\frac{3}{4}$" hole.



No. 418

Round Insulated Head Type Tip Jacks

(Supplied with insulating washers.) Mounts in $\frac{1}{4}$" hole in panel up to $\frac{3}{8}$" thick.

Red—No. 520	$0.15
Black—No. 521	.15
Green—No. 522	.15
Pair (1 Black—1 Red) in Envelope—No. 523	.25
Brown—No. 524	.15
Light Blue—No. 525	.15
Orange—No. 526	.15
Yellow—No. 527	.15
Light Green—No. 528	.15
Dark Blue—No. 529	.15

When using insulating washers mount in $\frac{3}{8}$" hole.



No. 416



No. 417



No. 16

Metal Type Tip Jacks

Round and Hexagon Heads. (Supplied with insulating washers)

	List Price
Round Head Type Tip Jack mounts in a $\frac{5}{16}$" hole. When using insulating washers, mount in $\frac{3}{8}$" hole—No. 416	$0.10
Envelope of two No. 416—No. 414	.20
Hexagon Head Type Tip Jack mounts in $\frac{1}{4}$" hole. When using insulating washers, mount in $\frac{3}{8}$" hole—No. 417	.10
Round Head Type Tip Jack mounts in $\frac{3}{8}$" hole. When using insulating washers, mount in $\frac{1}{2}$" hole—No. 16	.30



No. 415



No. 15

Tip Plugs

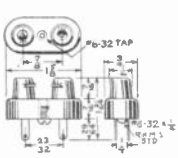
Designed especially for use with Tip Jacks and to serve as a Phone Tip without soldering.

No. 415	$0.08

For use with Yaxley Tip Jacks Nos. 416, 417, 413, 418, 419, 520 to 529 inclusive.

No. 15	.10

Same construction as No. 415 except has longer tip. To be used with Yaxley Tip Jacks Nos. 16, 420, 421, 423, 424, 425, 426, 427, 428, 429, 432, and all 401 Types.

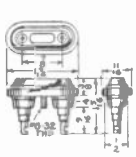


No. 432

Moulded Twin Tip Jacks

Mounting Holes—$\frac{3}{4}$"—Centers. No. 401 is a Twin Tip Jack. No. 432 is a circuit closing twin tip jack which closes circuit automatically when tips are removed.

Blank—No. 401B	$0.30
Marked "Speaker"—No. 401S	.30
Marked "Phono"—No. 401P	.30
Marked "+ −"—No. 401PM	.30
Marked "AG"—No. 401AG	.30
Shorting Type (Black)—No. 432	.30
Shorting Type (Red)—No. 433	.30



No. 401

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Rheostats • Potentiometers
Dial Lights • Panel Lights
Jewels

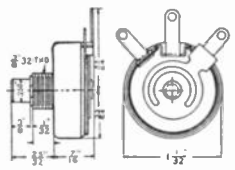
YAXLEY

Knobs • Nuts • Washers
Shadowgraph Meters
Terminal Clips

"C" Type Variable Resistor

Dissipates 2 Watts—Grounded Contact Arm

The Yaxley "C" Type Variable Resistor is the smallest wire wound control manufactured, finding its greatest application where space is at a premium. The contact arm is grounded to the shaft.



"C" TYPE POTENTIOMETERS

Prices do not include Knobs

Ohms Resistance	Carrying Capacity in Amperes	Catalog Number	List Price
5	.58	C5P	$1.00
10	.45	C10P	1.00
15	.36	C15P	1.00
20	.3	C20P	1.00
30	.25	C30P	1.00
40	.22	C40P	1.00
50	.2	C50P	1.00
100	.14	C100P	1.00
200	.1	C200P	1.00
400	.07	C400P	1.00
1M	.045	C1MP	1.25
3M	.025	C3MP	1.25
5M	.02	C5MP	1.50
6M	.018	C6MP	1.50
10M	.014	C10MP	1.50
15M	.011	C15MP	1.50

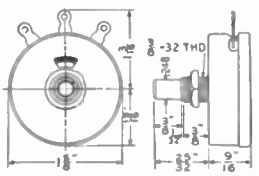
"C" TYPE RHEOSTATS

Prices do not include Knobs

Ohms Resistance	Carrying Capacity in Amperes	Catalog Number	List Price
5	.58	C5R	$0.75
10	.45	C10R	.75
15	.36	C15R	.75
20	.3	C20R	.75
30	.25	C30R	.75
40	.22	C40R	.75
50	.2	C50R	.75
100	.14	C100R	.75

"M" Type Variable Resistor

Dissipates 4 Watts—Insulated Contact Arm



"M" TYPE POTENTIOMETERS

Prices do not include Knobs

Ohms Resistance	Carrying Capacity in Amperes	Catalog Number	List Price
15	.57	M15P	$1.00
20	.50	M20P	1.00
25	.45	M25P	1.00
30	.4	M30P	1.00
40	.35	M40P	1.00
50	.32	M50P	1.00
60	.29	M60P	1.00
75	.25	M75P	1.00
100	.22	M100P	1.00
200	.15	M200P	1.00
400	.11	M400P	1.00
600	.09	M600P	1.00
1M	.07	M1MP	1.25
2M	.05	M2MP	1.25
3M	.04	M3MP	1.25
4M	.035	M4MP	1.25
5M	.03	M5MP	1.25
10M	.02	M10MP	1.50
15M	.017	M15MP	1.50
20M	.015	M20MP	1.50
25M	.014	M25MP	1.50
50M	.01	M50MP	2.00
70M	.0085	M70MP	2.00

"M" TYPE RHEOSTATS

Prices do not include Knobs

Ohms Resistance	Carrying Capacity in Amperes	Catalog Number	List Price
½	2.75	M05R	$0.75
1	2.2	M1R	.75
2	1.5	M2R	.75
3	1.3	M3R	.75
4	1.1	M4R	.75
6	.9	M6R	.75
10	.7	M10R	.75
15	.6	M15R	.75
20	.5	M20R	.75
25	.45	M25R	.75
30	.40	M30R	.75
40	.35	M40R	.75
50	.32	M50R	.75
60	.29	M60R	.75
75	.25	M75R	.75

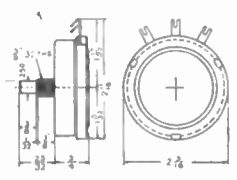
Yaxley Etched Dial Plates

for Rheostats and Potentiometers

Marking	Diameter	Cat. No.	Price
0 to 100 Increase Volume	2⅛" 1½"	369 391	$0.15 .15

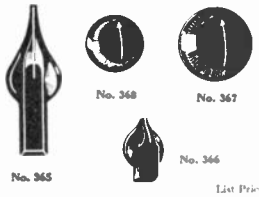
"E" Type Potentiometers

Dissipates 9 Watts—Contact Arm Grounded



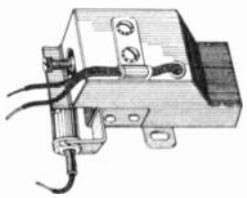
Ohms Resistance	Carrying Capacity in Amperes	Catalog Number	List Price
5M	.012	E5MP	$2.50
10M	.01	E10MP	2.50
20M	.021	E20MP	2.50
25M	.019	E25MP	2.75
50M	.0135	E50MP	2.75
75M	.011	E75MP	2.75
100M	.0095	E100MP	2.75
125M	.0085	E125MP	2.75
150M	.008	E150MP	2.75

Bar Type and Round Bakelite Knobs



	List Price
2¼" Bar Type Knob, Black . . . . No. 365	$0.20
2¼" Bar Type Knob, Brown . . . No. 365-B	.20
1¾" Bar Type Knob, Black . . . No. 366	.15
1¾" Bar Type Knob, Brown . . No. 366-B	.15
1½" Dia. Round Knob, Black . . No. 367	.20
1½" Dia. Round Knob, Brown . . No. 367-B	.20
1⅛" Dia. Round Knob, Black . . No. 368	.15
1⅛" Dia. Round Knob, Brown . . No. 368-B	.15

Shadowgraph Tuning Meter and Accessories



● The Yaxley Shadowgraph Tuning Meter may be used to replace almost any type of tuning meter where space permits. It is constructed with a translucent window upon which appears a shadow varying in width according to the intensity of the signal being received. The higher the strength of the signal the more narrow the shadow.

The Yaxley Shadowgraph Meter is adjustable over a wide range and is accordingly more universal. An easily accessible adjusting screw makes possible full scale shadow deflection for any coil current between 8 milliamperes and 16 milliamperes. This feature is a valuable asset in compensating for variations in maximum coil current induced by variations in the receiver tube characteristics, variations in supply line voltages, and at the same time always providing an accurate, easy-to-read tuning indicator.

Shadowgraph Meter (with lamp)—No. 175-176 . . . . . List price .$2.50

Yaxley Shadowgraph Meter Escutcheon Plate—No. 174 . . . . . List price .25

Special Shadowgraph Lamp—screw base for old type meters—6.3 volts—No. 177 .15

Special Shadowgraph Lamp—bayonet base for new type meters—6.3 volts—No. 173 .15



Terminal Clip

● A convenient and substantial clip. Hot tin dipped for easy soldering. Used as Antenna and Ground connections and power terminals. Furnished complete with two screws.

Envelope of Five—No. 112-E $0.25

Insulating Washers

Yaxley Washers are made from selected stock. Dimensions in inches shown in drawing at right.

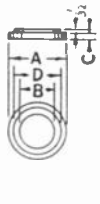
Extruded Washer—Fiber—No. 202. List price per 10 . . . . . .$0.25
For Set See No. 212 Flat Washer.

Extruded Washer—Fiber—No. 203. List price per 10 25
For Set See No. 212 Flat Washer.

Extruded Washer—Fiber—No. 204. List price per 10 25
For Set See No. 214 Flat Washer.

Extruded Washer—Fiber—No. 205. List price per 10 25
For Set See No. 213 Flat Washer.

Extruded Washer—Fiber—No. 1139. List price per 10 25



CAT NO	A	B	C	D
202	1	3/8	1/16	1/2
203	3/4	3/8	1/16	1/2
204	1/2	5/16	3/32	3/8
205	1/2	1/4	3/64	3/8
FIBRE 1139	7/16	1/8	1/16	7/32

Flat Washer—Bakelite—No. 212. List price per 10 . . . . . .$0.15

Flat Washer—Bakelite—No. 213. List price per 10 15

Flat Washer—Bakelite—No. 214. List price per 10 15

Metal Washer—Nickel Finish—.040 Brass—No. 225. List price per 10 15

Metal Washer—Nickel Finish—.040 Brass—No. 226. List price per 10 15

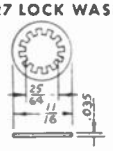
Lock Washer—Cadmium Plated Steel—No. 227. List price per 10 15

FLAT WASHERS

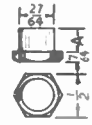


CAT NO	A	B	C
BAKELITE 212	3/8	3/8	1/32
213	1/2	1/4	1/64
214	1/2	5/16	1/32
BRASS 225	5/8	3/8	.040
226	5/8	7/16	.040

No. 227 LOCK WASHER



Hexagon Head Mounting Nuts



CAT NO	A	THREAD
255	7/64	3/8 -32
1260-2	15/32	3/8 -32
1260-12	1/32	3/8 -32



CAT NO	HEX	THD
232	1/2	3/8 -32
233	7/16	5/16 -40
234	3/8	1/4 -32

Description	Thread	Catalog No	List Price
Flat hex mtg nut	1/4-32	232	$0.15 per
Flat hex mtg nut	1/4-40	233	.10 phg
Flat hex mtg nut	1/4-32	234	.10 of 10
Hex mtg nut	3/8-32	255	.10 ea.
Hex mtg nut	3/8-32	A-11260-2	.20 ea.
Hex mtg nut	3/8-32	A-11260-12	.15 ea.

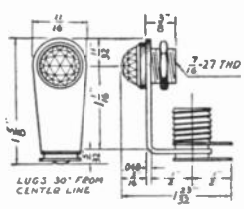
For Volume Controls, Jacks, Jack Switches, Junior Jacks, Tap and Selector Switches, use No. 232 flat hex nuts or catalog Nos. 255, A-11260-2 or A-11260-12 shoulder nuts.

For 417 Tip Jacks use No. 234 flat hex nut.

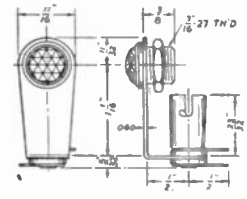
For 416, 418, 419 Tip Jacks use No. 233 flat hex nut.

Nos. 232, 233 and 234 are packed in standard packages of 10.

Pilot and Dial Light Brackets and Sockets



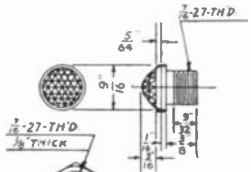
No. 310



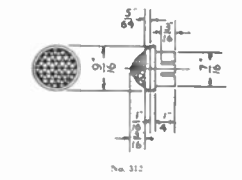
No. B-310

Description	Color of Jewel	Screw Base Type Catalog No.	Bayonet Base Type Catalog No.	List Price
*Pilot Light Bracket	Amber	310A	B310A	$0.50
*Pilot Light Bracket	Clear	310C	B310C	.50
*Pilot Light Bracket	Green	310G	B310G	.50
*Pilot Light Bracket	Red	310R	B310R	.50
Dial Light Slip-On Bracket		303AH	B303AH	.10
Dial Light Slip-On Bracket, Enameled Type		304CH	B304CH	.10
Shell Assembly Lugs at 30° Angles—No Bracket		317E	B317E	.10
Shell Assembly Lugs at 180° Angles—No Bracket		317H	B317H	.10

*Both terminals are insulated from bracket.



No. 311



No. 312

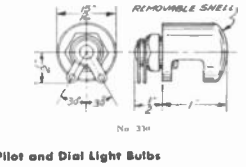
Jewels Only

	List Price
Clear Jewel and Mounting Nut No. 311-C	$0.15
Red Jewel and Mounting Nut, No. 311-R	.15
Green Jewel and Mounting Nut, No. 311-G	.15
Amber Jewel and Mounting Nut, No. 311-A	.15
Clear Jewel with Clamping Ears, No. 312-C	.15
Red Jewel with Clamping Ears, No. 312-R	.15
Green Jewel with Clamping Ears, No. 312-G	.15
Amber Jewel with Clamping Ears, No. 312-A	.15

Panel Lights

A convenient reflector for panel mounting. Mounts in a single ½" hole.

Panel Light No. 330 $0.50



No. 330

Pilot and Dial Light Bulbs

	Cat. No.	List Price
2.5 V. Screw Base Type	No. 120	$0.15
6.3 V. Screw Base Type	No. 121	.15
6.3 V. Bayonet Base Type	No. 122	.15

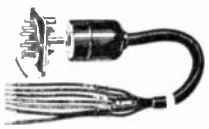
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P. R. MALLORY & CO. INC. MALLORY - YAXLEY

Cable • Cable Connectors • Markers • Battery Chargers
Radio Convenience Outlets • Grid Bias Cell • Dry Disc Rectifiers

Cable

	List Price
7 Conductor, 5-foot length	$1.00
Extra Lengths, 7 Conductors over 5 feet, per foot	.15
12 Conductor, 4-foot length	1.75
Extra Lengths, 12 Conductor over 4 feet, per foot	.40



No. 660

Cable Connectors

	List Price
7 Conductor Cable Connector Plug with 5-foot cable, receptacle plug and mounting plate—No. 660	$3.00
12 Conductor Cable Connector Plug with 4-foot cable, receptacle plug and mounting plate—No. 612	5.00
Pin Plate, 7 conductor—No. 680	.75
Pin Plate, 12 conductor—No. 682	1.00



No. 635



No. 631

Pin Plugs

Pin Plug, with cover, 7 conductor—No. 635	$1.00
Pin Plug, with cover, 12 conductor—No. 625	1.25
Pin Plug, with mounting ring, 7 conductor—No. 631	1.00
Pin Plug, with mounting ring, 12 conductor—No. 617	1.25

Note—For mounting on panels up to ⅛" thick.



No. 645



No. 644

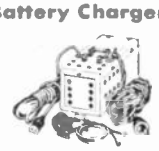
Receptacle Plugs

Receptacle Plug, with cover, 7 conductor—No. 645	$1.00
Receptacle Plug, with cover, 12 conductor—No. 615	1.25
Receptacle Plug, with mounting ring, 7 conductor—No. 644	1.00
Receptacle Plug, with mounting ring, 12 conductor—No. 614	1.25

Note—For mounting on panels up to ⅛" thick.

Receptacle Plug with Radio Convenience Outlet Mounting Bracket, 7 conductor—No. 139	1.50
Receptacle Plug with Radio Convenience Outlet Mounting Bracket, 12 conductor—No. 111	2.00

Battery Chargers



No. 5535



No. 3

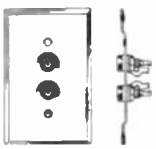
	No. 5535 Charger	No. 3 Booster
Size	7¾" long, 3⅛" wide, 3⅛" deep	5½" high, 3¼" wide, 2¾" deep
Weight	App. 7 lbs.	App. 4½ lbs.
Length of Cord: A.C.	12 foot	7 foot
D.C.	9 foot	9 foot
Rectifier	Mallory Dry Disc Type 16CD3	Mallory Dry Disc Type 8A3
Finish	Black Wrinkle	Black Wrinkle
List Price	$11.50	$7.45

Radio Convenience Outlets

No. 156—Single-Gang Radio Outlet for Antenna and Ground Connections

Receptacles are of polished Bakelite marked ANT. and GND. Complete with two plugs for antenna and ground wires. Suitable for homes, apartments, hotels or wherever a radio set is installed.

	List Price
Brass—No. 156	$1.00
Bakelite—No. 156-B	1.00



No. 156



No. 256

No. 256—Two-Gang Outlet for Antenna and Ground and Duplex Electrical Connections

The serviceability and attractiveness of this reasonably priced outlet have made it especially popular for houses and apartments. It is also widely used in rewire jobs. Furnished complete with two tip plugs.

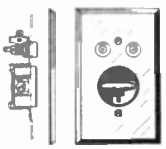
	List Price
Brass—No. 256	$1.50
Bakelite—No. 256-B	1.50

No. A-256—Two-Gang Radio Outlet for Antenna and Ground and Duplex AC Connections with Outlet Box

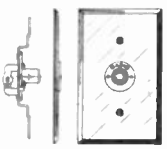
This unit is the same as No. 256 except for the addition of the special Yaxley Outlet Box.

Brass—No. A-256	$2.00
Bakelite—No. A-256-B	2.00

(Box listed as Standard by Underwriters' Laboratories.)



No. 133



No. 135

No. 133—Single-Gang Outlet for Antenna, Ground and AC Connections

A very useful number and popular seller. Its compact assembly of antenna and ground with a single AC outlet, makes it desirable wherever ANT. and GND. are required. Used extensively in homes, apartments, hotels, in rewire jobs and adaptable to any place where a radio set is in operation. Two tip plugs included.

Brass—No. 133	$1.35
Bakelite—No. 133-B	1.35

No. 135—Loud Speaker Connections

A well-designed, exceptionally popular number. Provides for loud speaker reception for any room in the house, apartment, hotels, and other installations.

Brass—No. 135	$0.90
Bakelite—No. 135-B	.90

No. 116—Single-Gang Radio Outlet for Antenna and Ground Connections

Receptacles are of Brass or Bakelite, marked ANT. and GND. Complete with two plugs, for antenna and ground wires.

	List Price
Brass—No. 116	$0.70
Bakelite—No. 116-B	.70

No. 216—Two-Gang Outlet for Antenna and Ground and Duplex AC Connections

Receptacles are of Brass or Bakelite, marked ANT. and GND. Complete with two plugs.

Brass—No. 216	$1.10
Bakelite—No. 216-B	1.10

Rectifiers



No. 16C3



No. 16C3B

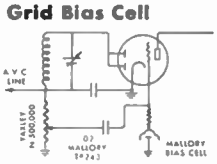
Replacement Rectifiers

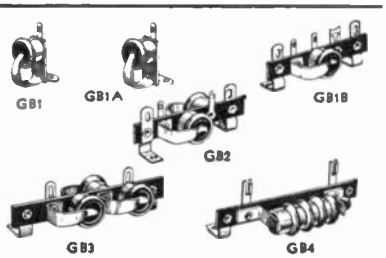
GENERAL REPLACEMENT REFERENCE

Make	Application	Model	Use Mallory Rectifier Cat. No.	List Price
Arma	Charger		4A1B	$4.00*
Amerecon	Speaker		16C3B	7.00
Arvin	Charger	400	8A3	3.00
Arvin	Charger	500	16C3	5.50
Arvin	Charger	600	16C3	5.50
Bernard	A Eliminator		16C3B	7.00
Bernard	Charger		4A1B	4.00*
Bosch	Charger	250H	16C3	5.50
Bosch	Charger	250J	16C3	5.50
Brach	A Eliminator		16C3B	7.00
Briggs-Stratton	Charger		16C3B	7.00
Cadillac	Bat. Booster	A1100	16CD3	6.00
Cadillac	Charger	A1180	16CD3	6.00
Chevrolet	Charger	250B	16C3	5.50
Elkon	A Eliminator		16C3B	7.00
Elkon	Charger	B	4A1B	4.00*
Elkon	Charger	E	12C1	4.00
Elkon	Charger	F	4A1B	4.00*
Elkon	Charger	3 Amp	16C3B	7.00
Elkon	Charger	310	16C3	5.50
Elkon	Rectifier	M16	16C3B	7.00
Elkon	Rectifier	ME16	16C3	5.50
Elkon	Rectifier	U12	12C1	4.00
Elkon	Rectifier	UP8	12A1BY	4.00
Elkon	Rectifier	XP12	12A1BY	4.00
Elkon	Rectifier	XB16	16C3B	7.00
Fada	A Eliminator		16C3B	7.00
Ferrand	Speaker		16C3B	7.00
General Motors	Charger	250	16C3	5.50
General Motors	Charger	600503	16C3	5.50
Green-Brown	A Eliminator		16C3B	7.00
Knapp	A Eliminator		16C3B	7.00
Knapp	Bat. Booster	No. 2	12C1	4.00
Knapp	Bat. Booster	No. 3	8A3	3.00
Lundy	Charger	250	16C3	5.50
Lundy	Charger	600	16CD3	6.00
Majestic	A Eliminator		16C3B	7.00
Mallory	Bat. Booster	No. 3	8A3	3.00
Mallory-Elkon	Charger	250	16C3	5.50
Mallory-Elkon	Charger	3535	16CD3	6.00
Mallory	Rectifier	XB1	4A1B	4.00*
Mallory	Rectifier	X12	12C1	4.00
Mallory	Rectifier	X16	16C3	5.50
Mallory	Rectifier	X20	20A1	7.00
Mallory	Rectifier	X112	12C1	4.00
Mallory	Rectifier	X116	16C3	5.50
Metro	A Eliminator		16C3B	7.00
National	Charger		4A1B	4.00*
Newman	Charger		12C1	4.00
Otrell	Charger	Safety-Super	16CD3	6.00
Packard	Charger		16CD3	6.00
Philco	A Eliminator	(Elkon Equipped)	16CB3	7.00
Philco	A Eliminator (Replaces Philcotron A and AA Jars)		12A1BY	4.00
Philco	Combination A and B Eliminator		12A1BY	4.00
Philco	Trickle Chargers		12A1BY	4.00
Precision	Charger		4A1B	4.00*
Sentinel	A Eliminator		16C3B	7.00
Silvertone	Charger		12C1	4.00
Song Bird	Charger		12C1	4.00
Stevens	Speaker		16C3B	7.00
Tobe Mayolian	A Eliminator		16C3B	7.00
Truetest	Bat. Booster		12C1	4.00
Truetest	Charger		8A3	3.00
Vitaltone	Speakers		16C3B	7.00
Webster	A Eliminator		16C3B	7.00
WLS	Charger		12C1	4.00
	SPECIAL APPLICATIONS			
Pin Game	Power Packs		W16A1	6.00
Pin Game	Power Packs		W20A1	7.00
Pin Game	Power Packs		W21A1	8.00

*Set of 3

Grid Bias Cell





Mallory Grid Bias Cell (packed 10 to the box)	$0.30 per cell
Mallory Grid Bias Cell Holder, Cat. No. GB1	.10
Mallory Grid Bias Cell Holder, Cat. No. GB1A	.10
Mallory Grid Bias Cell Holder, Cat. No. GB1B	.15
Mallory Grid Bias Cell Holder, Cat. No. GB2	.20
Mallory Grid Bias Cell Holder, Cat. No. GB3	.25
Mallory Grid Bias Cell Holder, Cat. No. GB4	.35

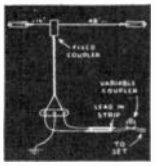
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ANTENNA SYSTEMS **Belden** WIRE and CABLE

BELDEN ALL-WAVE ANTENNA SYSTEMS



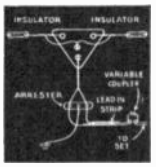
Covering a wide range of receivers, reception conditions, and installation problems, extensive research made by Belden engineers has resulted in the recommendation of 4 carefully designed and distinctly different antenna systems. For ease of erection, efficiency of signal pick-up, and the suppression of "man-made" interference, one or the other of these systems will be found unsurpassed at practically any location.



8906 —In this antenna system, the short leg responding to the higher frequencies is balanced against the long leg having resonant peaks which complement those of the short leg. A balancing coupler at the junction of the lead-in and aerial matches the antenna to the characteristic surge impedance of the line, which is reflected in the balanced coupler at the receiver. A variable capacity in the secondary circuit of the receiving coupler permits accurate matching of the antenna signal to the receiving circuit. A switch on this coupler converts the antenna to a conventional "T" type for broadcast reception. The twisted pair lead-in largely cancels the pick-up of unwanted interference. The shape of this antenna facilitates running it between a house and a single pole or adjoining building, with the advantage of a short lead-in. Completely assembled. Packed in display carton. Contains:

1—48′ Coil 7x24 Beldenamel Aerial Wire
1—16′ Coil 7x24 Beldenamel Aerial Wire
1—75′ Coil Twisted Pair Lead-in 8834
1—25′ Coil Twisted Pair Interior Lead-in Wire
1—Antenna Balancing Coupler
1—25′ Coil Single Conductor Ground Wire 818
6—Insulated Staples
2—6″ Stand-off Insulators
1—Type "C" Ground Clamp 8897
2—Porcelain Nail-on Knobs
2—Glass Insulators 8814
1—Double Lead-in Strip 8813
1—Doublet Lightning Arrester 8950
1—All-Wave Receiver Variable Coupler 8919
1—Instruction Sheet

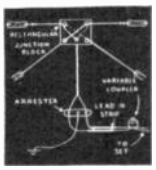
LIST PRICE $8.35



8917—Belden All-Wave Doublet Antenna System. A doublet type antenna is the accepted standard for all-wave reception with modern receivers. This twisted pair untuned transmission line (lead-in) offers the greatest freedom from ground level interference. When installed according to instructions, this set will permit any short-wave or all-wave receiver to function at its best. A switch in the special Belden coupler employed with this doublet converts it to a conventional "T" antenna on broadcast frequencies. Completely assembled in display carton. Contains:

2—33′ Coils 7x24 Beldenamel Aerial Wire
1—75′ Coil Twisted Pair Lead-in 8834
1—25′ Coil Twisted Pair Interior Lead-in Wire
1—Triangular Cross-over Junction Block
1—25′ Coil Single Conductor Ground Wire 818
6—Insulated Staples
2—6″ Stand-off Insulators
1—Type "C" Ground Clamp 8897
2—Porcelain Nail-on Knobs
2—Glass Insulators 8814
1—Double Lead-in Strip 8813
1—Doublet Lightning Arrester 8950
1—All-Wave Receiver Variable Coupler 8919
1—Instruction Sheet

LIST PRICE $7.80



8912—Belden Double Doublet Antenna System. The all-wave double doublet was developed with two primary considerations: first, to reduce the pick-up of "man-made" static and, second, to secure a uniform signal response over the short-wave and broadcast channels. Where local conditions will permit its installation with sufficient height to clear surrounding objects, better results may be obtained than with the ordinary type doublet. Complete instructions accompany each system. Aerial and transmission line assembled. Packed in display carton. Contains:

2—30½′ Coils 7x24 Beldenamel Aerial Wire
2—19′ Coils 7x24 Beldenamel Aerial Wire
1—75′ Coil Twisted Pair Lead-in 8834
1—25′ Coil Twisted Pair Interior Lead-in
1—25′ Coil Single Conductor Ground Wire 818
1—Rectangular Cross-over Junction Block
6—Insulated Staples
4—Glass Insulators 8814
3—6″ Stand-off Insulators
2—Porcelain Nail-on Knobs
1—Type "C" Ground Clamp 8897
1—Doublet Lightning Arrester 8950
1—Double Lead-in Strip 8813
1—All-Wave Receiver Variable Coupler 8919
1—Instruction Sheet

LIST PRICE $8.20



8914—Belden All-Wave Junior Aerial Kit complete, unassembled. Provides excellent reception on broadcast and short-wave bands. Also suitable for amateur transmitters up to 50 watts where maximum radiation and low losses are most important. Each arm of doublet should be cut to a length in feet equal to 0.39 times the wave length in meters to which transmitter is tuned. Unassembled. Contains:

2—50′ Coils 14 Solid Beldenamel Aerial Wire
1—50′ Coil Twisted Pair Lead-in Wire 8834
3—3″ Glass Insulators 8814
2—Porcelain Nail-on Knobs
2—Screw-eyes

LIST PRICE $2.65

BROADCAST KITS — These Kits Are Unexcelled for Broadcast Reception

8902 —Beldenamel 75-ft. Aerial Kit contains:

1—75′ Coil 7x22 Beldenamel 8820
1—35′ Coil Rubber Lead-in Wire 8852
1—Belden Arrester 8896
1—12″ Belden Lead-in Strip 8890
1—Type "C" Belden Ground Clamp 8897
2—3″ Glass Insulators 8814
2—Porcelain Nail-on Knobs
2—Galvanized Screw-eyes
1—Instruction Sheet

LIST PRICE $2.10

8904 —Belden 75-ft. Bare Copper Aerial Kit. Contains 75′ 7x22 Bare Copper Aerial 830; otherwise same as 8902.

LIST PRICE $1.95



8908 Belden 75-ft. Bare Copper Aerial Kit contains:

1—75′ Coil 7x22 Bare Copper Aerial 830
1—25′ Coil 18, Stranded Rubber Lead-in Wire
1—Belden Arrester 8896
1—Type "C" Belden Ground Clamp 8897
1—12″ Belden Lead-in Strip 8890
2—Porcelain Insulators
2—Porcelain Nail-on Knobs
1—Instruction Sheet

LIST PRICE $1.70

8909 Belden Aerial Kit Contains 75′ 7x24 Bare Copper Aerial 840; otherwise same as 8908.

LIST PRICE $1.50

8910 Belden Aerial Kit Contains 75′ 7x26 Bare Copper Aerial 860; otherwise same as 8908.

LIST PRICE $1.30

8905 Belden Aerial Kit contains:

1—50′ Coil 7x26 Bare Copper Aerial 859
1—25′ Coil 18 Solid Rubber Lead-in Wire
1—Lightning Arrester 8896
1—Lead in Strip 8890
1—Type "C" Ground Clamp 8897
2—Porcelain Nail-on Knobs
2—Porcelain Insulators
1—Instruction Sheet

LIST PRICE $1.10

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ANTENNA SYSTEMS Belden WIRE and CABLE



AERIAL WIRE

*Note: Solid Beldenamel 10, 12, and 14 is widely used as the modern bus wire in wiring of amateur transmitters and winding inductances for high frequency circuits. Its low "skin" effect, ductility, and extremely flexible enamel insulation have long made it the choice of leading amateurs as hook-up, as well as aerial wire.



				List
Stranded Beldenamel				
8820	75 ft.	7x22	in carton	$ .86
8821	100 ft.	7x22	in carton	1.11
8822	150 ft.	7x22	in carton	1.61
8823	1000 ft.	7x22	on spool	10.70
8824	1000 ft.	7x20	on spool	20.85
8825	100 ft.	7x20	in carton	2.14
Solid Beldenamel*				
8826	1000 ft.	10	on spool	20.20
8827	1000 ft.	12	on spool	13.20
8828	100 ft.	12	in carton	1.36
8829	100 ft.	14	in carton	.89
8832	1000 ft.	14	on spool	8.35

				List
Stranded Tinned Copper				
835	100 ft.	7x22		$ .97
836	1000 ft.	7x22	on spool	9.73
844	100 ft.	7x24		.67
845	1000 ft.	7x24	on spool	6.70
Stranded Bare Copper				
820	1000 ft.	7x20	on spool	14.32
829	50 ft.	7x22		.46
830	75 ft.	7x22		.67
831	100 ft.	7x22		.89
832	1000 ft.	7x22	on spool	8.90
873	50 ft.	7x23		.39

				List
Stranded Bare Copper (Cont.)				
870	75 ft.	7x23		$ .56
871	100 ft.	7x23		.72
872	1000 ft.	7x23	on spool	7.20
843	50 ft.	7x24		.32
840	75 ft.	7x24		.46
841	100 ft.	7x24		.60
842	1000 ft.	7x24	on spool	6.00
859	50 ft.	7x26		.23
860	75 ft.	7x26		.34
862	1000 ft.	7x26	on spool	4.17

All-Rubber Lead-in and Ground Wire



All-Rubber Lead-in Wire consists of 7 strands of tinned copper insulated with special durable finish rubber compound. It is easily stripped from the wires, leaving the conductor clean and ready for quick splicing and easy soldering.

		List
8850	50 ft. 14-3/64" wall in cartor	.021 ft.
8851	250 ft. 14-3/64" wall on spool.	.021 ft.
8852	50 ft. 16-1/32" wall in cartor	.015 ft.
8853	250 ft. 16-1/32" wall on spool.	.015 ft.
816	500 ft. 16-1/32" wall on spool	.015 ft.
812	1000 ft. 16-1/32" wall on spool.	.015 ft.
817	100 ft. 16-1/32" wall on spool.	.015 ft.
818	500 ft. 18-1/32" wall on spool.	.01 ft.
814	1000 ft. 18-1/32" wall on spool.	.01 ft.
819	100 ft. 18-1/32" wall on spool.	.01 ft.
809	100 ft. 18 solid tinned 1/32" rubber wall on spool...	.01 ft.
808	500 ft. 18 solid tinned 1/32" rubber wall on spool..	.01 ft.

New! Belden "Long Life" Duprene Sheathed Lead-in

Size 16 tinned, stranded wire with 1/32" wall of special Belden Duprene compound. (Duprene is Du Pont's new heat, oil, and age resisting synthetic rubber.)

		List
887	100-ft. spool	.02 ft.
888	500-ft. spool	.02 ft.



Belden Shielded Lead-in Wire

Standard Belden All-Rubber Lead-in Wire equipped with over-all shield of fine mesh tinned copper. Use with line matching transformers or auto-transformers between antenna and receiver.

		List
8856	50 ft.—14—4/64" rubber wall in carton	.043 ft.
8854	250 ft.—14—4/64" rubber wall on spool	.043 ft.
8894	50 ft.—16—1/32" rubber wall in carton	.03 ft.
8895	250 ft.—16—1/32" rubber wall on spool	.03 ft.
8858	250 ft.—16—4/64" rubber wall on spool	.03 ft.

Belden Twisted Lead-in Wire



Doublet style twisted lead-in designed for low impedance transmission line coupling between antenna system and receiver. 8834 and 8839 consist of two conductors size 20 (10x30 tinned), each with paper wrap and 1/32" wall. Color coded, with over-all braid of black cotton, weatherproofed.

		List
8834	80-ft. coil	2.10
8839	500-ft. spool	.025 ft.
8841	100-ft. spool. Low loss, transmission line, 19 solid Beldenamel. Intended for low power amateur transmitters and for antenna systems operating between 15 and 200 meters, surge impedence 93 ohms....	.025 ft.
8844	500-ft. spool	.025 ft.

HOOK-UP WIRE — PLAIN AND SPECIAL

Flexible colorubber hook-up wire—1/64" wall of colored rubber (natural, green, blue, red, brown, or yellow).

				List
8880	18	(16x30 tinned)	25 ft.	.34
8882	18	(16x30 tinned)	100 ft.	.01 ft.
8881	18	(16x30 tinned)	1000 ft.	.01 ft.

8881 furnished in natural, brown or red only.

Especially suitable for power pack, audio amplifier, and plate circuits where high voltage insulation is the requirement.

Easy-slip back insulation. With cotton wrap and .010" wall of rubber, colored braid, lacquered. Furnished in green, blue, red, yellow, or black.

				List
8884	20	Solid tinned	25 ft.	.36
8886	20	Solid tinned	100 ft.	.01 ft.
8883	20	Solid tinned	1000 ft.	.01 ft.

This is the most popular wire for use by radio servicemen because of the time saving effected by the convenient push-back insulation.

Easy-slip back insulation. Consists of double wrap of Celanese; colored cotton braid lacquered. Furnished in green, blue, red, yellow, or black.

				List
8940	20	Solid tinned	25 ft.	.34
8967	20	Solid tinned	100 ft.	.01 ft.
8941	20	Solid tinned	1000 ft.	.01 ft.

Flexible push-back wire for auto-radio chassis wiring.

Construction same as 8940. Same colors.

				List
8942	20	(10x30 tinned)	25 ft.	.36
8968	20	(10x30 tinned)	100 ft.	.012 ft.
8943	20	(10x30 tinned)	1000 ft.	.012 ft.

Intended for use in wiring cathode heater on filament circuits where currents in the order of 3 to 8 amperes must be carried with negligible voltage drop.

Construction same as 8940. Same colors.

				List
8944	18	Solid tinned	25 ft.	.40
8978	18	Solid tinned	100 ft.	.012 ft.
8945	18	Solid tinned	1000 ft.	.012 ft.

For portable and auto-radio filament circuit wiring.

Construction same as 8940. Same colors.

				List
8946	18	(16x30 tinned)	25 ft.	.43
8979	18	(16x30 tinned)	100 ft.	.012 ft.
8947	18	(16x30 tinned)	1000 ft.	.012 ft.

Heavy duty push-back wire for use in filament circuits of transmitters, large amplifiers, or multitube receivers.

Filament lead wire. Double wrap of Celanese; colored cotton braid lacquered. Red or black.

				List
8938	14	(41x30 tinned)	25 ft.	.72
8969	14	(41x30 tinned)	100 ft.	.025 ft.
8939	14	(41x30 tinned)	500 ft.	.025 ft.

Heavy duty hook-up wire for power transformers and compact sets, where high heat may be encountered. Also used for condenser leads.

Double wrap varnished cambric tape, colored cotton braid, lacquered. Green, blue, red, yellow, or black.

				List
8980	20	(10x30 tinned)	25 ft.	.49
8981	20	(10x30 tinned)	100 ft.	.015 ft.
8982	20	(10x30 tinned)	1000 ft.	.015 ft.

Shielded plate or grid wires in many compact receivers and amplifiers are essential to reduce stray coupling and feed-back. This fine mesh shielded rubber insulated wire is recommended.

1/64" rubber with over-all tinned copper shield.

				List
8885	18	(16x30 tinned)	100 ft.	.02 ft.

ARRESTERS, LEAD-IN STRIPS, GROUND CLAMPS AND COUPLERS



8950



8896



8811



8813



8814



8892



8897



8819

8950—Large Belden Porcelain Air Gap Type Doublet Arrester. **List .36 ea.**

8896—Belden Standard Size Bakelite Resistor Type Arrester designed to effectively dissipate destructive charges induced in the aerial system. Listed as standard by Underwriters. Furnished with $100.00 guarantee. Complete with wood screws in carton. **List .28 ea.**

8891—Belden Large Size Arrester; otherwise like 8896. **List .53 ea.**

8811—15 in. Single Lead-in Strip, tough rubber weatherproof insulation. Clips soldered on both ends. Packed in individual **List .17 ea.**

8890—12 in. Single Lead-in Strip with tough rubber weatherproof insulation. Clips soldered on both ends. 25 in carton. **List .12 ea.**

8812—12 in. Single Lead-in Strip. Lacquered braid, weatherproof insulation, and screw type connections. 25 in carton. **List .11 ea.**

8813 -12 in. Double Lead-in Strip. Lacquered braid, weatherproof insulation, and screw type connections. 10 in carton. **List .30 ea.**

8814 –Belden Glass Insulators. Sturdy, 3 in. over-all length, constructed with fins to extend path of discharge, as well as to provide added strength. Two in carton. **List .20 pr.**

8892—Belden Biter Type Ground Clamp. 8¼ in. long. Packed 25 in carton. **List .125 ea.**

8897—Belden "C" Type Ground Clamp. Fits pipe up to 1¾ in. in diameter. Packed 25 in carton. **List .125 ea.**

8919—Belden All-Wave Receiver Variable Coupler 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. In individual cartons. **List 2.65 ea.**

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ANTENNA SYSTEMS Belden WIRE and CABLE



RUBBER SHEATHED SHIELDED MICROPHONE CABLE



This cable is designed especially for the rough use accorded flexible weatherproof microphone cables used with portable public address and broadcast pick-up systems outdoors or on stages. In the descriptions which follow, each type of cable has specific applications, although it may be used for other purposes. It is recommended that those applications specified be followed as closely as possible; e.g., low capacity is an extremely important factor in 1 or 2-conductor cable for crystal microphones which Belden accomplishes with special wall of low capacitance high insulation resistance rubber. Low capacity is relatively unimportant in carbon microphone circuits or low impedance transmission lines. Belden Shielded Microphone Cable is the established standard of quality, offering to its users the maximum service and highest efficiency in microphone circuits. Number of conductors does not include the shield which may be used as a conductor.

For ribbon and crystal microphones within 50 feet of a high gain amplifier, single-button carbon microphones, and low impedance transmission lines up to 1000 feet.

Number	Conductors	Length in Ft. on a Spool	Outside Dimen. of Cable	List
8924	1	100	.250″	$ .065 ft.
8951	1	1000	.250″	.065 ft.

For single or multiple cell crystal microphones, photo-electric cells, and dual ribbon microphone circuits, employing the shield as a common conductor. This wire has exceptionally low capacity, hence, offers the least attenuation of high frequencies in crystal and ribbon microphone circuits.

8948	2	100	.350″	$ .13 ft.
8949	2	500	.350″	.13 ft.
8952	2	1000	.350″	.13 ft.

For double-button carbon microphone circuits, using the shield as the grounded or diaphragm connection, and for low impedance, 50 to 500-ohm transmission lines. Excellent for coupling a pre-amplifier to a power amplifier at any distance up to 2000 feet, employing the shield as a ground to prevent pick up of transient interference. This is a light, durable cable of good quality.

Number	Conductors	Length in Ft. on a Spool	Outside Dimen. of Cable	List
8877	2	100	.280″	$ .075 ft.
8878	2	500	.280″	.075 ft.
8879	2	1000	.280″	.075 ft.

For double-button carbon microphones feeding a mixer panel or circuits in which the diaphragm of the carbon microphone must be above ground potential, yet shielded from transient fields.

8874	3	100	.280″	$ .085 ft.
8925	3	500	.280″	.085 ft.
8926	3	1000	.280″	.085 ft.

For electro-dynamic microphones requiring a d-c field supply and a transmission line in the same cable. Also used for remote control circuits in conjunction with microphone transmission lines.

Number	Conductors	Length in Ft. on a Spool	Outside Dimen. of Cable	List
8846	4	100	.345″	$ .105 ft.
8845	4	500	.345″	.105 ft.

Extensively used for condenser microphone transmission line and power supply to microphone head amplifier.

8928	5	100	.390″	$ .13 ft.
8934	5	500	.390″	.13 ft.

For condenser microphone circuit with remote control switch at the microphone or pilot light at microphone.

8847	6	100	.430″	$ .14 ft.
8848	6	500	.430″	.14 ft.

Popular as an acid resisting analyzer cable with auto-radio test instruments.

8927	7	100	.430″	$ .165 ft.
8933	7	250	.430″	.165 ft.

MULTIPLE CONDUCTOR CABLE



All-Rubber Cord—This is the popular Belden parallel all-rubber lamp cord advertised extensively to relieve "Corditis." Supplied in brown. Use it to replace frayed receiver cords, extensions of supply outlets, and for test equipment requiring power line connection.

No.	No. Cond.	Length Spool	Specifications Individual Wires	O.D.	List
8860	2	100	2, 18 (41x34 bare) cotton	.125″x.230″	.03 ft.

Cable Specifications

Parallel All-Rubber



Glazed Cotton Multiple Conductor Cable—For permanent installation of speakers, remote control equipment, and multiple circuit, 500-ohm transmission lines. Cables with 2 No. 16 are provided for use where high current must be carried with a low potential drop. Modern metal tube analyzer cables may be assembled with the 8 or 9-conductor cable.

8953	3	100	20 (10x30 tinned) paper	.225″	.06 ft.
8889	4	100	wrap—1/64″ rubber wall with color coded glazed cotton braid lacquered	.275″	.07 ft.
8984	4	100	2, 16 (26x30 tinned) 2, 20 (10x30 tinned)	.300″	.085 ft.
8855	5	100	5, 20 (10x30 tinned)	.300″	.085 ft.

Brown glazed cotton braid over-all

All with paper wrap and 1/64 in. rubber wall with color coded glazed cotton braid lacquered

Construction same as 8889. Cabled with fillers for roundness and flexibility—brown glazed cotton braid over-all

8985*	5	100	2, 16 (26x30 tinned) 3, 20 (10x30 tinned)	.325″	.10 ft.
8956*	6	100	2, 16 (26x30 tinned) 4, 20 (10x30 tinned)	.350″	.11 ft.
8857*	7	100	2, 16 (26x30 tinned) 5, 20 (10x30 tinned)	.380″	.135 ft.
8958*	8	100	2, 16 (26x30 tinned) 6, 20 (10x30 tinned)	.400″	.145 ft.
8859*	9	100	2, 16 (26x30 tinned) 7, 20 (10x30 tinned)	.430″	.165 ft.

*Construction same as 8855

Rubber Sheathed Multiple Conductor Cable Especially suitable for the new permanent magnet dynamic speakers and long parallel circuits of magnetic speakers.



No.	No. Cond.	Length Spool	Specifications Individual Wires	O.D.	List
8972	2	250	18 (41x34 bare) cotton serve, 1/64″ rubber wall, color coded	.245″	.041 ft.

Cabled with fillers—wrap of cotton rubber sheath over-all

For electro-dynamic speakers in which one audio circuit serves also as the return lead of the field supply and for speakers with a center-tapped input transformer requiring a three-wire conductor.

8973	3	250		.265″	.06 ft.

Construction same as 8972

For four-wire a-c or electro-dynamic speaker lines.

8974	4	250	2, 16 (26x30 tinned) 2, 20 (10x30 tinned)	.300″	.075 ft.

Construction same as 8972

For center-tapped push-pull dynamic speakers requiring an independent field supply circuit.

8975	5	250	2, 16 (26x30 tinned) 3, 20 (10x30 tinned)	.350″	.09 ft.



Shielded Multiple Conductor Cable—For temporary indoor installations of low impedance or carbon microphone transmission circuits. The small outside diameter of this wire makes it convenient to install. The close mesh shield effectively prevents pick-up of hum or transient impulses from nearby electrical equipment.

20 (10x30 tinned), paper wrap, 1/64 in. rubber wall, glazed cotton braid lacquered color coded. Conductors cabled with tinned copper shield over-all.

8962	2	100	.215″	$ .05 ft.
8960	2	500	.215″	.05 ft.
8963	3	100	.230″	.07 ft.
8961	3	500	.230″	.07 ft.
8964	4	100	.260″	.085 ft.

For permanent installation of low impedance audio transmission lines (speech input cable) preceding a power amplifier.

19 solid Beldenamel with 2 serves cotton, color coded with soft cotton braid, waxed. Conductors twisted with tinned copper shield over-all

8965	2	100	.165″	$ .045 ft.
8966	2	500	.165″	.045 ft.

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ANTENNA SYSTEMS Belden WIRE and CABLE

MAGNET WIRE



A special feature of Belden Magnet Wire for the radio trade is its special put-up on small size metal spools, which are encased in attractive metal protective sleeves—an excellent package for the serviceman or amateur set builder. Belden Magnet Wire is uniform in gauge throughout its entire length, carefully inspected, and wound in one continuous length on the spool.

Size	Beldenamel Approx. Length ¼ Lb. Spool	Beldenamel Approx. Length ½ Lb. Spool	Double Cotton Covered Approx. Length ¼ Lb. Spool	Double Cotton Covered Approx. Length ½ Lb. Spool	Double Silk Covered Approx. Length ¼ Lb. Spool	Double Silk Covered Approx. Length ½ Lb. Spool
14	19 ft.	39 ft.	19 ft.	39 ft.		
16	30 ft.	60 ft.	30 ft.	60 ft.		
18	50 ft.	100 ft.	50 ft.	95 ft.	50 ft.	100 ft.
20	80 ft.	160 ft.	75 ft.	150 ft.	80 ft.	160 ft.
22	125 ft.	250 ft.	115 ft.	235 ft.	125 ft.	250 ft.
24	200 ft.	400 ft.	180 ft.	360 ft.	195 ft.	395 ft.
26	315 ft.	635 ft.	280 ft.	560 ft.	310 ft.	620 ft.
28	505 ft.	1010 ft.	430 ft.	860 ft.	490 ft.	980 ft.
30	805 ft.	1610 ft.	645 ft.	1295 ft.	765 ft.	1535 ft.
32	1275 ft.	2550 ft.	965 ft.	1930 ft.	1190 ft.	2380 ft.
34	2030 ft.	4065 ft.	1350 ft.	2700 ft.	1785 ft.	3570 ft.
36	3220 ft.	6440 ft.	1675 ft.	3355 ft.	2685 ft.	5370 ft.
38	5120 ft.	10245 ft.				
40	8140 ft.	16285 ft.				

8887—Belden Litz Wire—100-ft. spool, 20x38 stranded Beldenamel with double wrap of green silk. **List Price $ .70 ft.**

LEAD WIRE FOR TEST PRODS



Extra flexible lead wire 18 (65x36 tinned copper with wrap of flexible colored "Cellophane"), 3/64 in. wall of special durable rubber insulation. Furnished in red or black.

8809 Seven feet each color 8899 wound parallel on sleeve spool. Ideal for replacing short lengths furnished with present test equipment, permitting reaching into chassis when tester is placed on floor . . . . . **List $0.42**

8899 -100 feet, red or black, on spool. . . . . **List .02 ft.**

FLEXIBLE INDOOR AERIAL WIRE



Specially designed for midget receivers.

8840--20 Flexible Indoor Aerial Wire made up of 60 strands 38 soft and 5 strands 36 Hard Drawn Bare Copper Wire twisted, cotton wrap, and brown rayon braid, 100-ft. spool **List $.011 ft.**

8842--20 Flexible Indoor Aerial Wire made up of 60 strands 38 soft and 5 strands 36 Hard Drawn Bare Copper Wire with a double wrap of brown soft cotton, 60-ft. spool. **List $ .42**

8843—1000-ft. spool. Otherwise same as 8842. **List $ .006 ft.**

ELECTRICAL CORDS



A modern power supply cord for replacement on radios, lamps, fans, etc. Consists of the new small Belden Soft Rubber Plug and 7½-ft. Belden No-Fray Cord in green, grey, ivory, black, or brown—stripped, tinned, easy to attach.

1725--10 Belden All-Rubber Lamp Cords in carton (specify color. **List $ .31**

1737 -Belden Soldering Iron Replacement Cord. Special heavy duty cord with "Long-Wear" twine braid. Belden Unbreakable Soft Rubber Plug. . **List $ .48**

BELDEN HEAD PHONE CORDS



Made with special extra flexible tinsel conductors, over-all durable mercerized cotton braid. "Y" arm sections 15-in. coupled in series.

8872 -5-Ft. Head Phone Set—pin tips all ends. **List $ .78**

8873--5-Ft. Head Phone Set--spade tips on four phone ends, pin tips plug end . . **List $ .78**

8870—5-Ft. Magnetic Speaker Cord--pin tips both ends **List $ .50**

8871—5-Ft. Magnetic Speaker Cord -pin tips one end, spade tips opposite end . **List $ .50**

BELDENAMEL MAGNET WIRE Size	Spools ¼ Lb. List Pr.	Spools ½ Lb. List Pr.
14	$0.36	$0.59
16	.36	.59
18	.36	.59
20	.36	.59
22	.39	.59
24	.39	.61
26	.45	.70
28	.48	.75
30	.50	.84
32	.59	.92
34	.70	1.09
36	.84	1.34
38	1.11	1.84
40	1.53	2.34

DOUBLE COTTON WHITE MAGNET WIRE Size	Spools ¼ Lb. List Pr.	Spools ½ Lb. List Pr.
14	$0.40	$0.64
16	.40	.64
18	.42	.70
20	.45	.75
22	.50	.81
24	.53	.95
26	.67	1.12
28	.78	1.34
30	.84	1.59
32	1.09	1.92
34	1.31	2.40
36	1.67	3.06

DOUBLE SILK WHITE MAGNET WIRE Size	Spools ¼ Lb. List Pr.	Spools ½ Lb. List Pr.
14		
16		
18	$0.53	$0.98
20	.56	1.03
22	.59	1.14
24	.70	1.31
26	.84	1.53
28	.98	1.73
30	1.12	2.03
32	1.42	2.62
34	1.95	3.56
36	2.65	5.15

BELDEN A.C., D.C. RESISTANCE CORDS



A line cord into which a voltage drop resistor is incorporated, thus reducing the line voltage to that needed for the tube filaments. The construction affords a permanent strain relief for the resistance wire and a maximum dissipation of heat. All cords are coded with colored tracers so that resistance can be easily determined. With each cord is a data sheet explaining how to determine proper resistance to be used. Equipped with a Belden Unbreakable Soft Rubber Plug. These cords must not be cut.

Number	Length	Resistance (Ohms)	Color Marker (in outer braid)	List
8920	6 ft.	135	Olive	$ .67
8921	6 ft.	165	Maroon	.67
8976	6 ft.	180	Orange	.67
8929	6 ft.	220	Blue	.67
8977	6 ft.	250	Grey	.67
8922	6 ft.	290	Black	.67
8923	6 ft.	330	Light Brown	.67

AUTO-RADIO WIRES AND SHIELDING

BELDEN AUTO-RADIO SHIELDING



For use in shielding automotive wires in making automobile radio installations. Tinned copper shielding furnished on spools. 8931 fits over 7 mm. spark plug cables.

Number			List per Ft.
8930	50 ft.	13/64 in. inside diameter	$ .035
8935	250 ft.	13/64 in. inside diameter	.035
8931	50 ft.	3/8 in. inside diameter	.06
8937	250 ft.	3/8 in. inside diameter	.06
8932	50 ft.	25/32 in. inside diameter	.15
8936	250 ft.	25/32 in. inside diameter	.15

BELDEN AUTO-RADIO SHIELDED LOW CAPACITANCE LEAD-IN WIRE



8876 100 ft. 18 (16x30 tinned) cotton wrap with ¼ in. wall rubber cabled with jute fillers and shielding over-all—O.D. .500 in. **List $ .125**

8888 100 ft. 18 (16x30 tinned) cotton wrap with four cotton braids waxed and shielding over-all—O.D. .250 in. Per Ft. **List $ .06**

8971—100 ft. 18 (16x30 tinned) same as 8888 with rubber sheath over-all—O.D. .325 in. (See Belden 8924 for similar characteristics and smaller O.D.) . . . . . Per Ft. **List $ .08**

BELDEN SHIELDED IGNITION CABLE



For use on radio equipped automobiles.

7778 -7 mm. Belden Aircraft Standard Ignition Cable with tinned copper shield. **List $ .14**

781 7 mm. commercial automotive grade ignition cable with tinned copper shield . . . . . Per Ft. **List $ .10**

BELDEN SHIELDED PRIMARY WIRES



For use on battery leads and other auto-radio installations which must be shielded from the high tension system radiations.

7782 -12 Shielded Primary (19x25 tinned), wrap colored "Cellophane," .031 in. wall of rubber, glazed cotton braid lacquered, and an over-all tinned copper shield. Per Ft. **List $ .07**

7784 -14 Shielded Primary (19x27 tinned), wrap colored "Cellophane," .027 in. wall of rubber, glazed cotton braid lacquered, and an over-all tinned copper shield Per Ft. **List $ .06**

7786 16 Shielded Primary (19x29 tinned), wrap colored "Cellophane," .022 in. wall of rubber, glazed cotton braid lacquered, and an over all tinned copper shield . . Per Ft. **List $ .05**

BELDEN FABRIC LOOM



Specially constructed loom, shielded with tinned copper wire, used on any automobile wire or cable; also very satisfactory for shielding the antenna lead from the top of the car to set. Inner surface is smooth, making it easy to slip over all wires.

7787 ⅜ in. I.D. Shielded Fabric Loom, 50-ft. coil, in carton. **List $ .09**

7788 - ½ in. I.D. Shielded Fabric Loom, 50-ft. coil, in carton. **List $ .12**

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Birnbach Products

NO. 375—ALL-WAVE ANTENNA

Pat. No. 99911 and other Pats. Pending



Factory connected and soldered assembly which eliminates the possibility of incorrect and poor connections. Every unit is designed to give the utmost in service and durability and greatly reduces man-made interference and background noises. The Antenna Transformer matches the impedance of the Transmission Line. The noise reducing transmission cable conveys the signal without loss to the Receiver Coupler which automatically adjusts itself to the frequency tuned in by the receiver. No switching is required for either shortwave or broadcast reception.

Contents: 1 Complete Antenna Soldered Assembly consisting of: 2 coils Aerial Wire, 1 No. 467 Antenna Transformer, 1 coil Transmission Cable. 1 No. 905 Receiver Coupler. 2 No. 666 Porcelain Insulators White. 2 No. 669 Porcelain Nail-It Knobs. 2 No. 617 Self-locking Screw Terminal Window Lead-in Strips. 1 No. 615 Ground Clamp 1 Instruction Sheet.

List Price

No. 375—All-Wave Antenna.....each **$4.25**

No. 376—All-Wave Antenna for sets with built-in serial selectors (Contents same as above, **less coupler**) each **3.50**

NO. 150—ALL-WAVE ANTENNA

All-Wave reception depends upon an efficient noise reducing antenna.



Birnbach engineers have contributed greatly with the newly designed Navy type Insulators, Center Insulators, All-Wave Coupler, and Transmission Cable. The All-Wave Coupler does not require a switching device for reception of broadcast and short wave stations.

List of Parts: 2 50-ft. Coils No. 14 Solid Enamel Wire. 1 50-ft. Coil Stranded Transmission Cable. 1 Birnbach All-Wave Coupler. 1 Birnbach Center Insulator. 2 Birnbach New Navy-Type Insulators. 2 Birnbach All-Wave Leadin Strips. 1 7″ Screw Eye Insulator. 1 Ground Clamp. 2 Nailit Knobs. Complete instructions.

No. 150—Birnbach All-Wave Antenna..... **List Price $3.75**

No. 152—Does Not Include Coupler.

The Birnbach No. 152 All-Wave Antenna possesses all the efficient noise reducing qualities of the No. 150 All-Wave Antenna, and is intended for use with All-Wave Receivers having terminals for doublet antennas.

List of Parts: 2 40-ft. Coils 7/24 Stranded Bare Aerial Wire. 1 50-ft. Coil Stranded Transmission Cable. 1 Birnbach Center Insulator. 2 Birnbach New Navy Type Insulators. 2 Birnbach All-Wave Lead-in Strips. 2 Nailit Knobs. 1 7″ Screw Eye Insulator. 1 Ground Clamp. Complete Instructions.

No. 152—Birnbach All-Wave Antenna..... **List Price $2.75**

Receiver Coupler

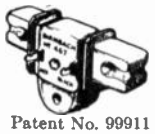


Increased signal strength and reduction of noises are the marked characteristics of the No. 905 Birnbach All-Wave Coupler. It permits the prope coupling of the doublet antenna and the all-wave receiver, without disturbing the wiring of the receiver. Comes complete with instructions and has one hole mounting.

No. 905—Receiver Coupler

List, Each $1.00

Antenna Transformer



Patent No. 99911

The No. 467 Antenna Transformer is ideal for replacement on all antenna systems as it matches the transmission line impedance through the antenna. It is made of a high tensile strength ceramic body with a cavity for the antenna transformer. The Antenna Transformer matches the antenna to the transmission line impedance without loss of signal strength. The broadcast and short-waves automatically choose the proper circuit when the receiver is tuned.

No.	List Price
467—Birnbach Antenna Transformer.....	**$1.25**

Antenode



Birnbach Antenode is designed for use as an indoor aerial. The use of the Antenode instead of the regular noisy aerial gives better selectivity, reduction of static, and a better tone quality. Easily installed by the layman. Put up in an attractive box with simple instructions included.

No.	List Price each
755—Birnbach Antenode	**$0.75**

ANTENNA KITS



No. 555—Aerial Kit.....each **$0.62½**

50 ft. 7-Strand Cop. Aerial Wire
25 ft. R.C. Lead-in Wire
2 No. 666 Porcelain Insulators
2 No. 669 Nail-It Knobs
1 No. 600 Ground Clamp
1 No. 611 Lead-in Strip
Std. Pkg. 24 Weight 38 lbs.

No. 505—Aerial Kit.....each **$0.80**

75 ft. 7-Strand Cop. Aerial Wire
25 ft. R.C. Lead-in Wire
1 No. 65 Lightning Arrester
2 No. 666 Porcelain Insulators
2 No. 669 Nail-It Knobs
1 No. 600 Ground Clamp
1 No. 611 Lead-in Strip
Std. Pkg. 24 Weight 48 lbs.

No. 501—Aerial Kit...each **$1.40**

75 ft. 7/24 Copper Aerial Wire
40 ft. R.C. Lead-in Wire
15 ft. Birnbach Flexible R.C. Wire
1 No. 611 Lead-in Strip
1 No. 650 Lightning Arrester
1 No. 630 Ground Clamp
2 No. 666 Porcelain Insulators
2 No. 669 Nail-It Knobs
2 No. 665 Galvanized Screw Eyes
6 Insulated Staples
Std. Pkg. 24 Weight 65 lbs.

No. 500—Aerial Kit...each **$1.00**

75 ft. 7/26 Copper Aerial Wire
25 ft. R.C. Lead-in Wire
1 No. 650 Lightning Arrester
1 No. 611 Lead-in Strip
1 No. 600 Ground Clamp
2 No. 666 Porcelain Insulators
2 No. 669 Nail-It Knobs
2 No. 665 Galvanized Screw Eyes
Std. Pkg. 24 Weight 50 lbs.

Lightning Arrester



A low price Lightning Arrester designed for easy installation. Comes complete with nickel-plated hardware and instructional

No.	Each
65—Std. Pkg. 100.....	**$0.12½**

Doublet Arrester



This Arrester is of the air gap type which is the accepted means of protecting doublet antennas from lightning. Installation instructions are printed on the box:

No.	Each
2650—Std. Pkg. 25.....	**$0.35**



Porcelain Screw Eyes

No.	List Price
663— 3″.....	per 100 **$6.00**
664— 7″.....	per 100 **8.00**
667—12″.....	per 100 **20.00**
Bakelite Eyes	
963—3″.....	per 100 **$6.00**
964—7″.....	per 100 **8.00**

Lightning Arrester



Made of brown glazed porcelain body with nickel-plated hardware. Suitable for outdoor or indoor use. Complete with mounting screws and instructions.

No.	Each
650—Std. Pkg. 50.	**$0.25**

All-Wave Coupler



Increased signal strength and reduction of noises are the marked characteristics of the No. 904 Birnbach All-Wave Coupler. It permits the proper coupling of the doublet antenna and the all-wave receiver, without disturbing the wiring of the receiver. Comes complete with instructions and has one hole mounting.

No. 904—All-Wave Coupler

List, Each $1.00

Glass Insulators



Made of crystal clear glass. Have a smooth surface which prevents dirt or ice to collect.

No.	Length	List Price
00—3″	per 100	**$5.00**
660—3½″	per 100	**8.00**
661—3¾″ Flat Type.	per 100	**8.00**
662—3¾″	per 100	**8.50**
659—4½″	per 100	**12.00**

Porcelain Insulator Nail-It Knobs



No.	List Price
669—Porcelain Nail-It Knobs...	per 100 **$4.00**
666—Brown Porcelain Insulators..	per 100 **4.00**

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Birnbach Products



Stranded Bare Wire

No.		List Price
	7/20	
493—	100-ft. coil	$1.25
	7/22	
640—	75-ft. coil	.55
670—	100-ft. coil	.70
639—	1000-ft. spool	7.00
	7/22 (14 B&S)	
1640—	75-ft. coil	.50
1670—	100-ft. coil	.65
1639—	1000-ft. spool	6.50
	7/23 (15 B&S)	
1643—	75-ft. coil	.45
1673—	100-ft. coil	.55
1634—	1000-ft. spool	5.50
	7/24 (16 B&S)	
1646—	75-ft. coil	.35
1680—	100-ft. coil	.45
1647—	1000-ft. spool	4.50
	7/26	
647—	75-ft. coil	.30
681—	100-ft. coil	.35
1648—	1000-ft. spool	3.50
	7/27	
740—	75-ft. coil	.25
700—	100-ft. coil	.30
1741—	1000-ft. spool	3.00

Solid Enamel Wire

No.		List Price
	No. 10	
497—	100-ft. coil	$1.90
2497—	1000-ft. spool	19.00
	No. 12	
492 —	100-ft. coil	1.10
492A—	150-ft. coil	1.65
492B—	200-ft. coil	2.20
1494 —	1000-ft. spool	11.00
	No. 14	
490 —	100-ft. coil	.75
490A—	150-ft. coil	1.20
490B—	200-ft. coil	1.50
1495 —	1000-ft. spool	7.50
	No. 15	
498—	100-ft. coil	.60

Phosphor Bronze

No.		List Price
	7/18	
499—	100-ft.	4.00

Copperweld Enamel Antenna Wire

(Stretchless)

Has a steel core covered with copper and heavily enameled. It will not elongate because of its high tensile strength. Low R.F. resistance and is ideal for transmitting doublet and directional antenna systems.

No. 12 Gauge	List Price	No. 14 Gauge	List Price
100-ft.	$1.57½	100-ft.	$1.10
250-ft.	3.85	250-ft.	2.70
500-ft.	7.50	500-ft.	5.12¼
1000-ft.	15.00	1000-ft.	10.15
2500-ft.	37.50	2500-ft.	26.00

Special Lengths Available

Copper Aerial Wire

Stranded Enamel Wire

No.		List Price
	7/20	
494—	100-ft. coil	1.70
	7/22	
642—	75-ft. coil	.75
672—	100-ft. coil	.90
637—	1000-ft. spool	9.00
	7/22 (14 B&S)	
1642—	75-ft. coil	.65
1672—	100-ft. coil	.80
1637—	1000-ft. spool	8.00
	7/23 (15 B&S)	
1645—	75-ft. coil	.55
1675—	100-ft. coil	.70
1631—	1000-ft. spool	7.00
	7/24 (16 B&S)	
1683—	75-ft. coil	.45
1682—	100-ft. coil	.60
1627—	1000-ft. spool	6.00

Stranded Tinned Wire

No.		List Price
	7/20	
495—	100-ft. coil	1.60
	7/22	
641—	75-ft. coil	.60
671—	100-ft. coil	.80
638—	1000-ft. spool	8.00
	7/22 (14 B&S)	
1641—	75-ft. coil	.55
1671—	100-ft. coil	.75
1638—	1000-ft. spool	7.50
	7/23 (15 B&S)	
1644—	75-ft. coil	.50
1674—	100-ft. coil	.65
1633—	1000-ft. spool	6.50
	7/24 (16 B&S)	
1697—	75-ft. coil	.40
1696—	100-ft. coil	.55
1628—	1000-ft. spool	5.50

Solid Tinned Wire

No.		List Price
	No. 10	
1498—	100-ft. coil	1.75
	No. 12	
1493—	100-ft. coil	1.00
2493—	1000-ft. spool	10.00
	No. 14	
1491—	100-ft. coil	.65
2491—	1000-ft. spool	6.50
	No. 16	
1499—	100-ft. coil	.55
2499—	1000-ft. spool	5.50

Solid Bare Wire

No.		List Price
	No. 10	
1497—	100-ft. coil	1.60
	No. 12	
1492—	100-ft. coil	.95
2492—	1000-ft. spool	9.50
	No. 14	
1490—	100-ft. coil	.60
2490—	1000-ft. spool	6.00
	No. 15	
496—	100-ft. coil	.50

Saddle Ground Clamps

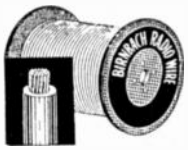


Has a hard pointed screw which digs through all rust and makes a positive contact. Fits a ⅜″ to 2″ pipe and up to 5″ with the No. 626.

Standard Package—50

No.		List Price each
625—	Hvy. Saddle Gnd. Clamp	$.10
626—	¼″ to 5″ Saddle Clamp	.15
630—	Lt. Saddle Gnd. Clamp	.07

Stranded Rubber Lead-In and Ground Wire



It is constructed of a stranded tinned copper conductor with a heavy wall of special rubber compound for outdoor use. Strips cleanly and easily leaving the surface ready for splicing and soldering.

No.	Ft.	Size		List Price	No.	Ft.	Size		List Price
2331	100	18—1/32″	spool	$1.00	1552	25	18—3/64″	coil	$0.35
2330	500	18—1/32″	spool	4.00	1551	50	18—3/64″	coil	.60
1541	50	16—1/32″	coil	.60	1550	100	18—3/64″	spool	1.20
1543	250	16—1/32″	spool	2.75	1549	500	18—3/64″	spool	5.40
1544	500	16—1/32″	spool	5.50	1548	500	16—3/64″	spool	6.00

Solid Plain Lead-In and Ground Wire



It is constructed of a pure tinned copper solid conductor with a special grade of live rubber compound for outdoor use. Rubber strips easily and leaves the wire clean and bright, and ready for splicing and soldering.

No. 18—3/64				No. 16—3/64			
No.	Ft.		Price	No.	Ft.		Price
1525	25	coil	$0.25	517	25	coil	$0.30
1526	50	coil	.45	516	50	coil	.55
1527	100	coil	.80	519	100	coil	1.00
1528	500	spool	3.75	518	500	spool	4.50

No. 14—3/64					
No.	Ft.		List Price	No.	Ft.		List Price
521	25	coil	$0.35	522	100	coil	$1.25
520	50	coil	.65	523	500	spool	6.25

Shielded Lead-In Wire



Consists of a stranded tinned copper conductor with a wall of live rubber over which a tinned copper braid is woven.

No. 18 Shielded				No. 16 Shielded			
No.	Ft.		List Price	No.	Ft.		List Price
807	25	coil	$0.70	825	25	coil	$0.80
808	50	coil	1.40	850	50	coil	1.55
809	100	spool	2.75	851	100	spool	3.10
803	250	spool	6.75	802	250	spool	7.50

No. 14 Shielded					
No.	Ft.		List Price	No.	Ft.		List Price
804	25	coil	$1.15	806	100	spool	$4.40
805	50	coil	2.20	801	250	spool	11.00

No. 617—All-Wave Lead-In Strip



Is constructed with a screw terminal that locks the wire together with the strip in a firm and secure connection assuring perfect contact under all weather conditions. Has weather-proof covering over a copper strip. Available in white or black.

No.	Std. Pkg.	List Price
617	50	each $0.10

No. 2611 Doublet Lead-In Strip



Two strips covered with a heavy cotton braid which is weather-proofed with numerous coats of Duco lacquer. Available in black or white.

Standard Package—25

No.	List Price
2611	Each $0.16

No. 615—Ground Clamp



The cone-pointed screw cuts through and makes a positive contact. Cadmium finish prevents rusting.

No.	Std. Pkg.	List Price each
615	25	$0.09

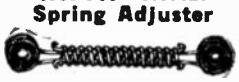
Weatherproof Lead-In Strips



Covered with a heavy cotton braid, weather-proofed. Birnbach Clips are riveted and soldered at both ends.

No.	Lgth.	Std. Pkg.	List Price each
611—Black	12″	50	$0.08
612—Black	16″	25	.12
613—White	12″	50	.08

No. 765—Aerial Spring Adjuster



Prevents swinging and swaying of antennas and eliminates the resultant fading of signals. Cadmium plated throughout.

No.	List Price
765	each $0.50

No. 600—Copper Strap Clamp



Will take ⅜″ to 2″ Pipe. Made of copper with Birnbach clip riveted and soldered to strap.

Standard Package—50

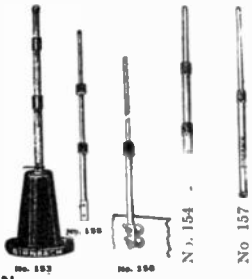
No.	List Price
600—Copper Strap Clamp	$0.07

All list prices subject to change with copper market.

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Birnbach Products

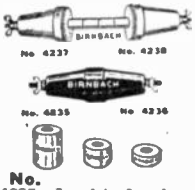
ULTRA-HIGH FREQUENCY ANTENNAS



They cover all requirements for stationary or portable use. The Nos. 156 and 157—¼-wave antennas can be used on 2½ meters as a ½-wave antenna. The Nos. 153, 154 and 155—½-wave antennas can be used as a ¼-wave 10-meter antenna. Operation on a wavelength from 2½ to 10 meters is possible by the proper choice of antenna. Two types of mountings are available:—standoff mounting, having ¼-20 threaded bushing on No. 154 and 10-32 threaded bushing on No. 157, and binding post mounting, consisting of a reinforced flattened end with two holes drilled 1″ between centers. Constructed of Hard Drawn Aluminum Tubing.

No.		List Price
153	—3 Section, 36″ closed, 102″ open with No. 4450 Insulator	$2.50
154	—3 Section, 36″ closed, 102″ open without standoff mounting	2.00
155	—3 Section, 36″ closed, 102″ open, binding post mounting	2.00
156	—2 Section, 26″ closed, 50″ open binding post mounting	1.00
157	—2 Section, 26″ closed, 50″ open, 10-32 threaded bushing	1.10
164	—Taper Lock Bushings, brass N. P. for ¾″ or ⅝″ dia. Tubes	.10

TRANS. LEAD-IN INSULATORS



Cone is 2¾″ high and made of low absorption highly vitrified glazed porcelain. All lead-in insulators come complete with brass nickel-plated hardware and lead and cork washers to permit a water-tight seal to be made both indoors and outdoors. Highly vitrified, unglazed porcelain bushings are available in three sizes, 1″, ½″ and ¼″ high by ¾″ diameter with a 11/64″ diameter hole.

No.		List Price
4235	—Lead-in Insulator, 10″ rod	each $0.90
4236	—Lead-in Insulator, 15″ rod	each 1.00
4237	—Lead-in Insulator, 10″ rod with bushings	each 1.20
4238	—Lead-in Insulator, 15″ rod with bushings	each 1.50
4240	—Bushing, 1″ long, ¾″ diameter	each .05
4241	—Bushing, ½″ long, ¾″ diameter	each .05
4242	—Bushing, ¼″ long, ¾″ diameter	each .05

STEATITE ANTENNA INSULATORS



Steatite gives the required physical strength and insulation value to withstand strains up to 1500 lbs. and powers up to 1 Kw. when 2–12″ Insulators are connected in series. The leakage path is long and the cross section as small as consistent with the strength required.

No.		List Price
470	—Steatite Antenna Insulator, 7″ long	each $0.50
471	—Steatite Antenna Insulator, 12″ long	.70

FEEDER SPREADERS



They are available in 2″, 4″, and 6″ lengths. Highly vitrified, low absorption, high tensile strength porcelain is used with a smooth white glaze overall.

No.		List Price
462	—Feeder Line Spreader, 2″ long	each $0.12
464	—Feeder Line Spreader, 4″ long	.15
469	—Feeder Line Spreader, 6″ long	.20

AIRPLANE INSULATOR
2″ Long



The Airplane Insulator is useful where heavy compression loads are applied on an insulator. It is ideal for use on all mobile antenna installtions, particularly on aircraft, as it is shaped for the least air resistance.

No.	Std. Pkg.	List Price
473	100	each $0.07

TRANSPOSITION BLOCKS



It is constructed of high tensile ceramic, glazed over its entire surface, making it smooth and increasing the surface insulation which is a necessity at high frequencies where the insulation must be of the best.

Standard Package (25)

No.	List Price
456—Transposition Block ea.	$0.12

DOUBLET TRANSMITTING AND RECEIVING INSULATORS



Birnbach Antenna Insulators possess high insulation value and a long leakage path.

The No. 468 and No. 668 Insulators can be used on transmitting antennas up to 50 watts when used singly and up to 100 watts when two are used in series. They will withstand a pull of 500 lbs.

No. 468—Center Insulator
Standard Package (10)
List Price, each $0.25

No. 668—Navy Type Insulator
Standard Package (25)
List Price, each $0.15

STEATITE CONE STANDOFF INSULATORS

A complete range of heights having threaded holes and jacks is available. Condenser, coils, tube sockets and high frequency apparatus can be mounted on them with a minimum of labor and expense. They are available only in a white glaze Steatite.

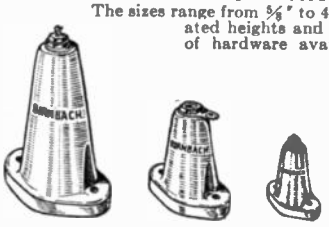


No. 430 No. 431 No. 432 No. 433
No. 431J No. 432J No. 433J

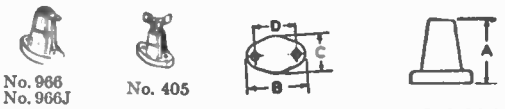
No.	A	B	C	Threaded Holes D	Threaded Holes E	Mtg. Hole	Std. Pkg.	List Price each
430	5/16	5/16	1/8	6-32	6-32	13/64″	100	$0.10
431	1	5/8	1/2	8-32	8-32	1/4″	50	.15
431J	1	5/8	1/2	8-32	1/4-28	1/4″	50	.20
432	1 1/2	7/8	5/8	10-32	10-32	13/64″	50	.20
432J	1 1/2	7/8	5/8	10-32	1/4-28	13/64″	50	.25
433	2 3/4	1 1/4	3/4	1/4-20	1/4-20	13/64″	25	.25
433J	2 3/4	1 1/4	3/4	1/4-20	5/16-24	13/64″	25	.50

STANDOFF INSULATORS

The sizes range from 5/8″ to 4½″ high in five properly graduated heights and together with the large variety of hardware available, every need is covered. No cork washers are necessary for mounting the larger standoff insulators, but for the No. 405 and 966 Standoff Insulators, we have available cork washers which will permit mounting them securely without breakage. All brass nickel plated hardware is supplied.



No. 4450 No. 4450J
No. 4275 No. 4275J
No. 866 No. 866J



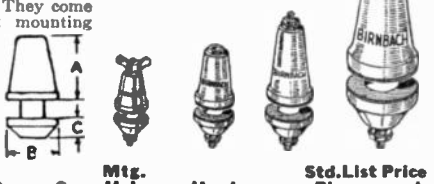
No. 966 No. 966J
No. 405

No.	A	B	C	D	Mtg. Hole	Hardware	Std. Pkg.	List Price each
405	5/8	5/8	1/2	11/16	1/4″	6-32	100	$0.06½
966	1	1 3/16	7/8	1	13/64″	8-32	50	.07½
966J	1	1 3/16	7/8	1	13/64″	No. 403 Jack	50	.10
866	1 1/2	1 3/4	1 1/8	1 1/4	13/64″	10-32	25	.12
866J	1 1/2	1 3/4	1 1/8	1 1/4	13/64″	No. 403 Jack	25	.15
866SJ	1 1/2	1 3/4	1 1/8	1 1/4	13/64″	No. 395 Jack	10	.35
4275	2 3/4	2 3/4	2	2 1/8	1/4″	1/4-20	10	.30
4275J	2 3/4	2 3/4	2	2 1/8	1/4″	No. 399 Jack	10	.55
4450	4 1/2	3 5/8	2 1/2	2 5/8	13/64″	1/4-20	5	.50
4450J	4 1/2	3 5/8	2 1/2	2 5/8	13/64″	No. 399 Jack	5	.75

For Stand-off Insulators with Wing Nuts add $0.05 to List Price.
Specify White or Brown Glaze.

FEEDTHRU STANDOFF INSULATORS

Highly vitrified, low absorption porcelain is used throughout. They are ideal for use as terminals on all kinds of high frequency and high voltage, low frequency devices. They come supplied with cork mounting washers which permit a secure and shakefree installation to be made with a minimum breakage. Brass nickel-plated hardware is supplied.



No.	A	B	C	Mtg. Hole	Hardware	Std. Pkg.	List Price each
458	5/8	5/8	1/4	1/4″	6-32	25	$0.12
478	1	5/8	5/8	13/64″	10-32	25	.20
478J	1	5/8	5/8	13/64″	No. 403 Jack	25	.25
4125	1 1/4	7/8	5/8	13/64″	10-32	25	.25
4125J	1 1/4	7/8	5/8	13/64″	No. 403 Jack	25	.30
4234	2 3/4	2	1	1/4″	1/4-20	10	.55
4234J	2 3/4	2	1	1/4″	No. 399 Jack	10	.80

For Stand-off Insulators with Wing Nuts add $0.05 to List Price.
Specify White or Brown Glaze

CORK WASHERS

No.	Standard Package	List Price
12—For No. 405 Insulator	1000	$3.75
13—For No. 458 Insulator	1000	3.75
14—For No. 478 or No. 4125 Insulator	1000	3.75
15—For No. 4234 or No. 766 Insulator	1000	10.00
Cork Washers for No. 966 Insulator	1000	4.25

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Birnbach Products

Kinkless Test Leads



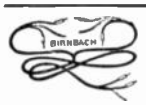
These Test Leads are designed to eliminate all the disadvantages found in ordinary test leads. Birnbach Kinkless Lead Wire, which is extremely flexible and will not kink or break down in service under rough usage and repeated bendings, is used throughout.

No.		List Price
21	Needlepoints and Lugs	$0.50
21	Needlepoints and Pin Tips	.50
21	Pin Tips and Lugs	.50
21	Pin Tips and Pins	.50
22	Needlepoints and Alligator Clips	.75
22	Solderless Pin Tips and Alligator Clips	.75
22	Solderless Pin Tips and Solderless Pin Tips	.75

Kinkless Test Lead Wire for Replacement
Red and Black

No.		List Price
64	25-ft. package	$0.75
66	100-ft. Spool	2.15
67	500-ft. Spool	10.50

Headset Phone Cords



These cords are closely woven and are very durable and strong.

No.		List Price each
104	5-ft., Pin Tips on both ends	$0.60
105	5-ft., Pin & Spade Tips	.60
107	5-ft., Pin & Eye Tips	.60
108	8-ft., Pin & Eye Tips	.75
109	10-ft., Pin & Eye Tips	1.00

Speaker Cords



Made of stranded wire, insulated with rubber, with a closely woven brown mercerized cotton overall.

No.		List Price each
102	5-ft., Pin Tips on both ends	$0.35
103	5-ft., Pin & Spade Tips	.35
106	5-ft., Pin & Eye Tips	.35
413	10-ft., Pin & Eye Tips	.55
414	20-ft , Pin & Eye Tips	.75
701	5-ft., 4-wire Crosley Pin & Eye Tips	.60

Speaker Extension Cords



These Extension Cords are constructed of stranded annealed copper wire insulated with rubber over which a brown mercerized cotton braid is closely woven. Complete with easily attached bakelite connector.

No.		List Price
166	10-ft. each	$0.70
120	20-ft. each	.90
121	30-ft. each	1.20
122	40-ft. each	1.40
123	50-ft. each	1.60
124	100-ft. each	3.00
151	Bakelite Extension Cord Connector, only each	.30

Magnet Wire

Birnbach Magnet Wire is made of thoroughly annealed pure copper wire. Genuine Italian silk is used for silk insulated wire and unbleached cotton for cotton insulated wire. The enameled wire has a coating of extra flexible enamel of high dielectric strength All wires come in continuous lengths.



List Prices per Spool

Gauge (B&S)	D'ble. Cotton Cov'd ¼ lb. Spool	D'ble. Cotton Cov'd ½ lb. Spool	D'ble. Cotton Cov'd 1 lb. Spool	Plain Enameled ¼ lb. Spool	Plain Enameled ½ lb. Spool	Plain Enameled 1 lb. Spool	Double Silk Covered ¼ lb. Spool	Double Silk Covered ½ lb. Spool	Double Silk Covered 1 lb. Spool
14	$0.26	$0.45	$0.83	$0.22	$0.41	$0.70	$0.38	$0.72	$1.32
16	.27	.47	.85	.23	.42	.72	.41	.78	1.42
18	.28	.52	.88	.24	.43	.74	.46	.87	1.58
20	.31	.57	.98	.25	.44	.77	.53	1.04	1.94
22	.35	.65	1.12	.26	.46	.81	.61	1.18	2.08
24	.41	.77	1.34	.28	.49	.85	.73	1.42	2.54
26	.49	.92	1.62	.33	.59	1.06	.90	1.74	3.22
28	.58	1.12	1.90	.35	.62	1.12	1.13	2.18	3.90
30	.69	1.32	2.26	.38	.70	1.28	1.46	2.84	5.40
32	.85	1.63	3.10	.42	.76	1.40	1.85	3.60	6.94
34	1.22	2.30	4.36	.48	.87	1.62	2.34	4.44	8.58
36	1.68	3.18	5.98	.55	1.02	1.91	2.88	5.48	10.56
38	5.00	9.00	17.50	.64	1.18	2.22	5.50	10.50	20.00

Radex Slipback Hookup Wires



Available in either stranded or solid tinned copper conductor. It has a covering of rubber over a cotton wrap and is then covered with a bright color cotton braid and dipped into paraffin.

*25-ft. Coils

Size	Solid No.	Solid List Price	Stranded No.	Stranded List Price
20	280	$0.30	281	$0.35
18	282	.35	283	.40
16	284	.45	285	.50
14	286	.60	287	.70

*Coils without cartons, deduct 2c from list price.

Size	100-ft. Spools Solid No.	Solid List Price	Stranded No.	Stranded List Price	500-ft. Spools Solid No.	Solid List Price	Stranded No.	Stranded List Price	1000-ft. Spools Solid No.	Solid List Price	Stranded No.	Stranded List Price
20	380	$0.95	381	$1.10	480	$4.50	481	$5.25	580	$8.50	581	$10.00
18	382	1.10	383	1.20	482	5.50	483	6.00	582	10.50	583	12.00
16	384	1.80	385	2.00	484	9.00	485	10.00	584	17.50	585	20.00
14	386	2.25	387	2.50	486	10.50	487	11.25	586	20.00	587	22.00

Colors: Black, Red, Blue, Yellow, Green

Birntex Slipback Wire

Either solid or stranded tinned copper conductor insulated with a cotton wrap over which a cotton braid is closely woven, and then saturated with paraffin. It recommends itself for hooking-up of Radio Receivers, Public Address Systems, Sound Systems, etc.

Size	*25-ft. Coils Solid No.	Solid List Price	Stranded No.	Stranded List Price	100-ft. Spools Solid No.	Solid List Price	Stranded No.	Stranded List Price
20	80	$0.25	81	$0.30	84	$0.90	85	$1.00
18	82	.30	83	.35	86	1.00	87	1.10
		500-ft. Spools				1000-ft. Spools		
20	88	$4.00	89	$4.50	92	$7.50	93	$8.75
18	90	4.50	91	5.25	94	8.75	95	10.00

* Coils without cartons, deduct 2c. from list price.

Colors: Red, Black, Green, Blue, Yellow

AC-DC Antenna Wire



It is ideal as an indoor antenna of AC-DC Universal Receivers, loop antennas, and flexible leads.

No.		List Price
2125	25-ft. hank each	$0.25
2100	100-ft. spool each	.85
2500	500-ft. spool each	4.00
2000	1000-ft. spool each	7.50

Ground Rods



Radiator or water pipe grounds do not always give a low resistant ground which is so necessary for the reduction of man-made static. These Ground Rods, driven into the ground, will afford a highly efficient permanent ground. Copper plated.

No.		Std.Pkg.	List Price
616	4-ft.	12 each	$0.50
618	6-ft.	12 each	.75

Stranded Colored Rubber Wire

It is constructed of carefully annealed stranded tin-copper conductors with a cotton wrap, and insulated with a special grade of non-cracking live colored rubber compound. It strips readily and is available in various colors for easy identification.



No. 18—1-64
16 Strands No. 30 B&S Current Carrying Capacity 3 Amperes

No.	25-Ft. Coil List Price	1000-ft. Spool List Price
Black	225—$0.30	1225—$9.00
Red	226— .30	1226— 9.00
Green	227— .30	1227— 9.00
White	228— .30	1228— 9.00
Brown	229— .30	1229— 9.00
Yellow	230— .30	1230— 9.00

No. 16 1-32
26 Strands No. 30 B&S Current Carrying Capacity 6 Amperes

Color	25-ft. Coil No.	List Price	100-ft. Coil No.	List Price
Black	425	$0.45	1440	$1.50
Red	426	.45	1441	1.50
Green	427	.45	1442	1.50
White	428	.45	1443	1.50
Brown	429	.45	1444	1.50

Color	50-ft. Coil No.	List Price	500-ft. Spool No.	List Price
Red	440	$0.85	2440	$7.00
Black	441	.85	2441	7.00
Green	442	.85	2442	7.00
White	443	.85	2443	7.00
Brown	444	.85	2444	7.00

Filament and Colored Hookup Wire

No. 14
26 Strands No. 28 B&S Current Carrying Capacity 15 Amperes

No.	Stranded	Price each
782	25-ft., No. 14. 1/32" Red	$0.65
783	25-ft., No. 14. 1/32" Black	.65
786	500-ft., Spool, No. 14. 1/32" Red or Black	13.00

No. 12
41 Strands No. 28 B&S Current Carrying Capacity 20 Amperes

No.	Stranded	Price each
784	25-ft., No. 12. 1/64" Red	$0.90
785	25-ft., No. 12. 1/64" Black	.90
787	500-ft. Spool, No. 12. 1/64" Red or Black	18.00

Lamp Cord

All our Lamp Cord is constructed of cotton wrapped stranded copper wire and insulated with the best grade of live rubber. Birnbach Zip Cord is an all rubber covered insulated parallel cord which has a cotton strip imbedded between conductors, which can be separated by starting with a knife and pulling the cotton strip down the center. Connects easily and cannot fray. Sanitary and neat.

No. 564—List Price, each $16.50
1000-ft. No. 20 Parallel Silk Braid
No. 571—List Price, each $13.00
500-ft. No. 18 P. O. Silk Braid
No. 572—List Price, each $9.00
500-ft. No. 18 P. L. Silk Braid
No. 573—List Price, each $15.00
500-ft. Zip Cord, Ivory, Brown, Black,
No. 574—List Price, Each $25.00
500-ft. S. J. Rubber Covered Cord

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Birnbach Products

RUBBER SHIELDED MICROPHONE CABLE



A tinned copper shield is woven over all conductors, and then cotton-wrapped. A heavy wall of tough polished **rubber** is placed overall. It is a weatherproof cable, ideal for outdoor use, and will withstand hard and rough usage.

No.		List Price
772	2 Conductor . . . 100-ft. spool, each	$8.00
1772	2 Conductor . . . 250-ft. spool, each	19.00
773	3 Conductor . . . 100-ft. spool, each	9.50
1773	3 Conductor . . . 250-ft. spool, each	23.50
774	4 Conductor . . . 100-ft. spool, each	11.25
1774	4 Conductor . . . 250-ft. spool, each	27.50
775	5 Conductor . . . 100-ft. spool, each	13.25
1775	5 Conductor . . . 250-ft. spool, each	32.25
776	6 Conductor . . . 100-ft. spool, each	15.00
1776	6 Conductor . . . 250-ft. spool, each	36.75

Cotton-Covered Shielded Microphone Cable

780	3 Conductor . . . 100-ft. spool, each	$8.00
1780	3 Conductor . . . 250-ft. spool, each	19.00

CRYSTAL MICROPHONE CABLE



871	100-ft. Spool, 2 Braid . . . . . each	$4.40
1871	250-ft. Spool, 2 Braid . . . . . each	10.00
874	100-ft. Spool, 4 Braid . . . . . each	6.00
1874	250-ft. Spool, 4 Braid . . . . . each	14.00

RUBBER MICROPHONE CABLE UNSHIELDED



Consists of individual flexible tinned copper conductors, each insulated with a heavy wall of colored rubber for easy identification. A heavy wall of tough polished **rubber** is placed overall. It is a weatherproof cable, ideal for outdoor use, and will withstand hard and rough usage.

No.		List Price
788	2 Conductor . . . . 100-ft. spool, each	$6.00
789	2 Conductor . . . . 250-ft. spool, each	13.50
790	3 Conductor . . . . 100-ft. spool, each	7.00
791	3 Conductor . . . . 250-ft. spool, each	16.00
792	4 Conductor . . . . 100-ft. spool, each	8.00
793	4 Conductor . . . . 250-ft. spool, each	18.50



FIXTURE WIRE

A flexible stranded rubber insulated wire with a closely woven cotton braid overall.

No.		List Price
565	1000 ft. No. 20 Single Conductor. . ea.	$8.00
566	1000 ft. No. 18 Single Conductor. . ea.	9.00
569	500 ft. No. 20 Twisted Pair . . . . . ea.	8.25
568	500 ft. No. 18 Twisted Pair . . . . . ea.	9.00

Colors: White or Brown.

VARNISHED TUBING (Spaghetti)

A quality Varnished Tubing with a high dielectric strength. Used to cover and insulate Bus Wire.

No.		List Price
300	Varnished Tubing, 30" length, ea.,	$0.12½

Colors: Black, Red, Yellow, Green, Brown.

BUS BAR WIRE

No.	Cut to 2-ft. lengths.	List Price
2010	No. 10 Round Tinned. . per 100 lgths	$4.50
2012	No. 12 Square Tinned. . per 100 lgths	4.00
2013	No. 12 Round Tinned. . per 100 lgths	3.50
2014	No. 14 Square Tinned. . per 100 lgths	3.00
2015	No. 14 Round Tinned. . per 100 lgths	2.50

Special Prices 1000-length Lots

EOI TRANSMISSION CABLE



This cable has a surge impedance of 72 ohms, which accurately matches the impedance at the center of the half wave Hertz Antenna. The construction is such that it can be used in any required length up to 1000 ft., with negligible losses, and can handle any power up to 1 Kw. Moisture absorption of rubber as measured by percentage change, in capacity, after 30 days in water—less than 5%. Attenuation—less than 1.5 Db. per 1000 ft. of line at 3500 Kc., 4.0 Db., 7 Mcs., 5.2 Db. at 14 Mcs.

No.		List Price
953	Transmission Cable, 1000-ft. coil. .	$90.00
954	Transmission Cable, 500-ft. reel. .	45.00
955	Transmission Cable, 250-ft. reel. .	22.50
956	Transmission Cable, 100-ft. spool.	10.00

BATTERY CABLES



Birnbach Battery Cable is constructed of individual rubber insulated stranded conductors, cotton braided and color coded.

No.	100-Ft. Spools	List Price Each
172	2 Conductor Cable	$3.75
173	3 Conductor Cable	4.00
174	4 Conductor Cable	5.50
175	5 Conductor Cable	6.50
176	6 Conductor Cable	7.50
177	7-Conductor Cable	8.50
178	8-Conductor Cable	12.00
179	9-Conductor Cable	14.00
180	10-Conductor Cable	16.00
182	12-Conductor Cable	18.00

All cables available in special lengths

SHIELDED BATTERY CABLE



Constructed of flexible stranded conductors covered with quality rubber compound and braided with cotton, color-coded. A tinned copper shield is woven overall.

No.		List Price
972	2-Conductor Cable, 100-ft. spool, ea.	$5.00
973	3-Conductor Cable, 100-ft. spool, ea.	7.00
974	4-Conductor Cable, 100-ft. spool, ea.	8.50
975	5-Conductor Cable, 100-ft. spool, ea.	10.00
976	6-Conductor Cable, 100-ft. spool, ea.	12.00
977	7-Conductor Cable, 100-ft. spool, ea.	15.00

All cables available in special lengths

JACKS AND PLUGS



Large area of contact is one of the outstanding features of Birnbach Jacks and Plugs. The Jacks and Plugs are made of brass, nickel-plated and come complete with nut and lug, or screw and lug, depending upon type chosen.

No.		List Price
395	Giant Jack, ⅜" Mounting Hole. . ea.	$0.25
396	Giant Plug with 10-32 Threaded Hole . . . . . ea.	.25
397	Giant Plug with ¼-20 Threaded Hole . . . . . ea.	.25
398	Giant Plug, ½-28 Threaded Shank . . . . . ea.	.25
399	Giant Jack, ½" Mounting Hole. . ea.	.25
400	Plug, 6-32 Threaded Shank, ½" Long . . . . . ea.	.06
401	Plug, 6-32 Threaded Hole . . . . . ea.	.07
402	Jack, ¼" Mounting Hole . . . . . ea.	.06

A.C.-D.C. RESISTANCE CORDS



No.	Sets having following tubes	List Price Each
35	135-ohm cord 25Z5-43-4 (6.3 volt)	$0.70
36	160-ohm cord 25Z5-43-3 (6.3 volt)	.70
34	180-ohm cord 12Z3-43-4 (6.3 volt) 25Z5-43-2 (6.3 volt)	.70
37	220-ohm cord 12Z3-43-3 (6.3 volt)	.70
41	250-ohm cord 12Z3-43-2 (6.3 volt) 25Z5- 3 (6.3 volt)	.70
38	290-ohm cord 12Z3- 3 (6.3 volt)	.70
45	300-ohm cord	.70
39	330-ohm cord 4 (6.3 volt) 12Z3- 2 (6.3 volt)	.70
40	350-ohm cord 12Z3- 1 (6.3 volt) 3 (6.3 volt)	.70
47	390-ohm cord 2 (6.3 volt)	.70

DIAL CABLE



This Phosphor-Bronze Dial Cable is constructed of 42 strands over a linen thread center. Due to its high tensile strength it will not stretch. The all-linen dial cable is the finest available for replacement purposes. The 25, 50, and 100 ft. lengths are put up on attractive wooden spools.

No.	PHOSPHOR BRONZE	List Price
1025	25-ft. spool . . . . . each	$1.50
1050	50-ft. spool . . . . . each	2.75
1051	100-ft. spool . . . . . each	5.00
1052	1000-ft. spool . . . . . each	40.00

LINEN DIAL CABLE

No.	Heavy	List Price
2025	25-ft. spool . . . . . each	$1.50
2051	100-ft. spool . . . . . each	5.00
2052	1000-ft. spool . . . . . each	40.00

No.	Light	List Price
3025	25-ft. spool . . . . . each	$1.30
3051	100-ft. spool . . . . . each	4.50
3052	1000-ft. spool . . . . . each	35.00

WING NUTS



Standoff Insulators can be used as binding posts by substituting our brass nickel-plated Wing Nut instead of nut supplied.

No.	Standard Paclage	List Price
6	6-32 thread . . . . . 100 . . . . . per 100	$5.00
8	8-32 thread . . . . . 100 . . . . . per 100	5.00
10	10-32 thread . . . . . 100 . . . . . per 100	5.00
11	¼-20 thread . . . . . 100 . . . . . per 100	5.00

PORCELAIN TUBES



To bring a lead-in into a building without breaking, we advise our Porcelain Tubes, which require a ¾" diam. hole for installation.

No.	Standard Package	List Price
42	2" . . . . . 100 . . . . . per 100	$2.50
43	3" . . . . . 100 . . . . . per 100	3.00
44	4" . . . . . 100 . . . . . per 100	4.00
46	6" . . . . . 100 . . . . . per 100	5.00
48	8" . . . . . 100 . . . . . per 100	7.00

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Birnbach Products

7MM HIGH TENSION CABLE



Useful in reducing interference from auto secondary circuits instead of the unshielded spark distributors. Also used as photo electric cell leads and wherever a low loss shielded lead is required.

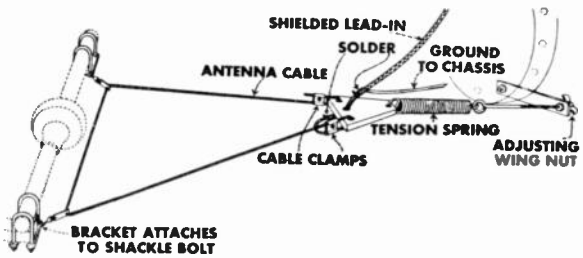
No.		List Price Per 100 Ft.
781	7MM Shielded Secondary Wire	$9.00
1600	7MM High Tension Unshielded Cable	5.50

SHIELDED LOW TENSION WIRE

It is constructed of stranded tinned copper wire and has two layers of cambric insulation and a high lacquer finish cotton braid with a closely woven tinned copper shield. Is oil, heat, and moisture-proof.

No.		List Price Per 100-Ft. Spool
1800	Shielded Low Tension Wire No. 16	$5.50
1818	Shielded Low Tension Wire No. 18	4.75
1820	Shielded Low Tension Wire No. 20	4.25

AUTO ANTENNAS



$2.25 List — Cat. No. 302

- ★ For Turret-Top Cars
- ★ Easy to Install
- ★ Shielded Lead-in
- ★ Reduces Noise
- ★ Bakelite Insulators
- ★ Rugged, Permanent
- ★ Out of Sight

$1.90 List — Cat. No. 303

- ★ For Turret-Top Cars
- ★ Easy to Install
- ★ Lacquered Lead-in
- ★ Bakelite Insulators
- ★ Rugged, Permanent
- ★ Out of Sight
- ★ Low Cost

AUTO RADIO COPPER SHIELDING



Used for shielding leads of interference creating circuits; and for bonding motor block and other parts of the automobile to the chassis, where floating power is used.

BARE

No.		List Price
860	¼"—50-ft. spool	each $1.75
861	⅜"—50-ft. spool	each 2.00
862	⅝"—50-ft. spool	each 4.50

TINNED

No.		List Price
863	¼"—50-ft. spool	each $2.00
864	⅜"—50-ft. spool	each 2.25
865	⅝"—50-ft. spool	each 5.00

IGNITION FILTER



Birnbach Ignition Filter completely eliminates all ignition and high-tension circuit interference. The **only Ignition Filter** having these features:

Only 120 Ohms D.C.
Copper-Wound Inductance
Less Gasoline Consumption
Perfect Motor Idling

Filter encased in a heat resistant moisture-proof bakelite shell. Brackets fit any spark plug. Positive electrical contact.

No.		List Price
350	Spark Plug Filter, each	$0.55
351	Cable Type Filter, each	.55
352	Distributor Filter, each	.55
353	Ignition Filter, Screw Type, each	.55
354	Master Filter, Cable or Distributor Type, each	2.75

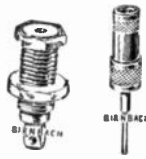
BATTERY AND TEST CLIPS



Battery Clips—Made of extra heavy gauge steel heavily lead-coated. Test clips are made of steel, cadmium-plated. The Alligator Clip is made out of heavy - gauge steel, nickel-plated.

		Amps.	Std. Pkge.	List Price each
27	Midget Test Clip	5	50	$0.07
28	Pee-Wee Test Clip	10	50	.07
29	Battery Clip, Medium	25	50	.10
30	Battery Clip, Large	50	30	.18
31	Alligator Clip	..	50	.07

PHONE TIPS AND JACKS



No 402 Phone Tip is ideal for replacement on headset, speaker and extension cords. Nos. 23 and 24 Solderless Phone Tips are designed for easy insertion of wire through the hole at the end of the tip and brought through the side hole and then wrapped around the groove.

No.		List Price
402	Carton, 100 Phone Tips, per 100	$0.90
416	Envelope, 4 Phone Tips, per env.	.06
23	Junior Solderless Phone Tip, per 100	5.00
24	Senior Solderless Phone Tip, per 100	6.00
26	Phone Tip Jack, per 100	6.00

AUTO RADIO SHIELDED LEAD-IN



Consists of a stranded tinned copper conductor, insulated with rubber and braided with cotton and with a tinned copper braid overall.

No.		List Price
799	Auto Radio Shielded lead-in, ¼" diam., 100 ft.	$7.00
800	Auto Radio Shielded lead-in, ½" diam., 100 ft.	13.50

AUTO RADIO SHIELDED LOOM



Tinned copper braid over a weatherproof loom. Used to shield auto antenna leadin and grouped leads against interference; also, in shielding the output of signal generators.

No.		List Price
1316	⅜" inside diam., per 100 ft.	$7.40
1516	½" inside diam., per 100 ft.	12.00
1038	⅝" inside diam., per 100 ft.	14.00
1716	⅞" inside diam., per 100 ft.	15.00
1012	1½" inside diam., per 100 ft.	18.00

LACQUERED AUTO WIRE



Constructed of a stranded tinned copper conductor for easy soldering, with a heavy wall of live rubber over which a cotton braid is woven. A high gloss lacquered finish covers this braid.

Colors: Red, Black, Green, Brown, Yellow, Blue

No.		List Price
3425	25-ft. coil, each	$0.45
3450	50-ft. coil, each	.90
3460	100-ft. coil, each	1.80
3600	500-ft. spool, each	8.00

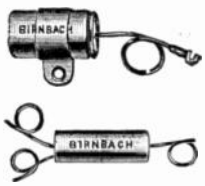
INSULATED STAPLES and TACKS



These are essential for the securing of leadin, ground, and other wires for installations.

No.		Per Box	Std. Pkge.	List Per M
R 100	Plain	100	1000	$2.75
D 50	Plain	50	1000	3.00
C 40	Colored	40	1000	3.50
C 41	Perfection Tacks—White or Brown	1000		3.00

AUTO NOISE FILTER



These are specially designed for the elimination of noise created by generator commutator, electrical windshield wiper, horn, and especially dome, tail, and stop light cables.

No.		List Price
355	Auto Noise Filter ½ Mfd.	each $0.50
356	Auto Noise Filter 1 Mfd.	each .60
357	Ammeter Filter	each .50
358	Dome Light Inductance Capacity Filter	$each .80

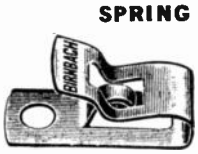
KNIFE SWITCHES



Made of nickel-plated brass on a porcelain base. Special spring brass material used assures perfect contact. Screw terminals located conveniently for easy connections in circuit. Two-hole mounting.

No.	Pole	Throw	Std. Pkg.	List Price
6100	Single	Single	25 each	$0.17½
6102	Single	Double	10 each	.20
6103	Double	Single	10 each	.35
6104	Double	Double	10 each	.45
6105	Triple	Double	10 each	.87½

SPRING CLIPS

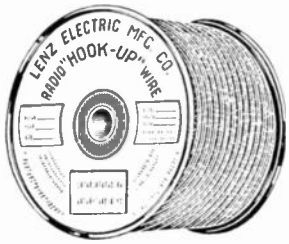


Will hold a wire, up to No. 10 B&S Gauge, in a secure contact. Ideal for temporary hookups requiring simple and inexpensive terminals. The twin clips have facility for connecting two wires in a temporary or permanent connection. All clips are nickel-plated.

No.		Std. Pkg.	List Price
32	Spring Clip—1" long	100	per C $1.00
33	Twin Clip—1¾" long	100	per C 3.50

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LENZ WIRES Quality Products CABLES



RADIO HOOK-UP WIRE

Consists of push-back non-fraying insulation, thoroughly saturated in MOISTURE-PROOF compound effective in reducing leakage. Has high insulation resistance and other essential dielectric properties. Can be furnished in SOLID or STRANDED, WAXED or LACQUERED. Neatly packed in attractive cartons or supplied on spools. Colors: Blue, Orange, Green, Brown, Slate, Red, Yellow, White and Black. If color is not specified, BLACK will be furnished.



WAXED HOOK-UP WIRE (BRADAX) DOUBLE COTTON BRAIDS WAXED

No. 22 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1010	25′ carton	20	.14	$0.25
1011	50′ carton	15	.24	.44
1012	100′ spool	10	.45	.86
1013	1000′ spool	1	4.7	7.25

No. 22 STRANDED TINNED COPPER

1016	25′ carton	20	.14	.28
1017	50′ carton	15	.24	.49
1018	100′ spool	10	.45	.96
1019	1000′ spool	1	4.7	8.30

Coils furnished without cartons—deduct two cents each from list price.

No. 20 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1022	25′ carton	20	.17	.28
1023	50′ carton	15	.31	.49
1024	100′ spool	10	.58	.96
1025	1000′ spool	1	6.1	8.30

No. 20 STRANDED TINNED COPPER

1028	25′ carton	20	.17	$0.31
1029	50′ carton	15	.31	.56
1030	100′ spool	10	.58	1.10
1031	1000′ spool	1	6.1	9.65

Coils furnished without cartons—deduct two cents each from list price.

No. 18 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1035	25′ carton	20	.17	.33
1036	50′ carton	15	.35	.60
1037	100′ spool	10	.7	1.17
1038	1000′ spool	1	7.7	10.40

No. 18 STRANDED TINNED COPPER

1041	25′ carton	20	.17	.37
1042	50′ carton	15	.35	.68
1043	100′ spool	10	.7	1.34
1044	1000′ spool	1	7.7	12.10

Coils furnished without cartons—deduct two cents each from list price.

WAXED HOOK-UP WIRE (LENZITE)

Two Wraps Cellulose Acetate Textile Plus One Cotton Braid Waxed

No. 22 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1310	25′ carton	20	.14	$0.25
1311	50′ carton	15	.24	.44
1312	100′ spool	10	.45	.86
1313	1000′ spool	1	4.7	7.25

No. 22 STRANDED TINNED COPPER

1316	25′ carton	20	.14	.28
1317	50′ carton	15	.24	.49
1318	100′ spool	10	.45	.96
1319	1000′ spool	1	4.7	8.30

No. 20 SOLID TINNED COPPER

1322	25′ carton	20	.17	.28
1323	50′ carton	15	.31	.49
1324	100′ spool	10	.58	.96
1325	1000′ spool	1	6.1	8.30

No. 20 STRANDED TINNED COPPER

1328	25′ carton	20	.17	$0.31
1329	50′ carton	15	.31	.56
1330	100′ spool	10	.58	1.10
1331	1000′ spool	1	6.1	9.65

No. 18 SOLID TINNED COPPER

1335	25′ carton	20	.17	.33
1336	50′ carton	15	.35	.60
1337	100′ spool	10	.7	1.17
1338	1000′ spool	1	7.7	10.40

No. 18 STRANDED TINNED COPPER

1341	25′ carton	20	.17	.37
1342	50′ carton	15	.35	.68
1343	100′ spool	10	.7	1.34
1344	1000′ spool	1	7.7	12.10

Coils furnished without cartons—deduct two cents each from list price.

LACQUERED HOOK-UP WIRE (LENZAC)

Two Wraps Cellulose Acetate Textile Plus One Cotton Braid Lacquered

No. 22 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1350	25′ carton	20	.14	$0.28
1351	50′ carton	15	.24	.48
1352	100′ spool	10	.45	.93
1353	1000′ spool	1	4.7	8.00

No. 22 STRANDED TINNED COPPER

1360	25′ carton	20	.14	.30
1361	50′ carton	15	.24	.53
1362	100′ spool	10	.45	1.04
1363	1000′ spool	1	4.7	9.05

No. 20 SOLID TINNED COPPER

1370	25′ carton	20	.17	.30
1371	50′ carton	15	.31	.54
1372	100′ spool	10	.58	1.05
1373	1000′ spool	1	6.1	9.20

No. 20 STRANDED TINNED COPPER

1380	25′ carton	20	.17	$0.33
1381	50′ carton	15	.31	.61
1382	100′ spool	10	.58	1.20
1383	1000′ spool	1	6.1	10.60

No. 18 SOLID TINNED COPPER

1391	25′ carton	20	.17	.36
1392	50′ carton	15	.35	.66
1393	100′ spool	10	.7	1.29
1394	1000′ spool	1	7.7	11.63

No. 18 STRANDED TINNED COPPER

1395	25′ carton	20	.17	.40
1396	50′ carton	15	.35	.74
1397	100′ spool	10	.7	1.46
1398	1000′ spool	7	7.7	13.28

Coils furnished without cartons—deduct two cents each from list price.

LACQUERED HOOK-UP WIRE (BRALAC)

Double Cotton Braids Lacquered

No. 22 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. in lbs.	List Price Each
1050	25′ carton	20	.14	$0.28
1051	50′ carton	15	.24	.48
1052	100′ spool	10	.45	.93
1053	1000′ spool	1	4.7	8.00

No. 22 STRANDED TINNED COPPER

1060	25′ carton	20	.14	.30
1061	50′ carton	15	.24	.53
1062	100′ spool	10	.45	1.04
1063	1000′ spool	1	4.7	9.05

No. 20 SOLID TINNED COPPER

1070	25′ carton	20	.17	.30
1071	50′ carton	15	.31	.54
1072	100′ spool	10	.58	1.05
1073	1000′ spool	1	6.1	9.20

No. 20 STRANDED TINNED COPPER

1080	25′ carton	20	.17	$0.33
1081	50′ carton	15	.31	.61
1082	100′ spool	10	.58	1.20
1083	1000′ spool	1	6.1	10.60

No. 18 SOLID TINNED COPPER

1220	25′ carton	20	.17	.36
1221	50′ carton	15	.35	.66
1222	100′ spool	10	.7	1.29
1223	1000′ spool	1	7.7	11.63

No. 18 STRANDED TINNED COPPER

1230	25′ carton	20	.17	.40
1231	50′ carton	15	.35	.74
1232	100′ spool	10	.7	1.46
1233	1000′ spool	1	7.7	13.28

Coils furnished without cartons—deduct two cents each from list price.

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LENZ WIRES Quality Products CABLES

Shielded Rubber Jacketed Microphone Cables



Conductors all color-coded. Braided with tinned copper shield. Heavy Jacket Tough Black Polished Rubber applied overall. Will withstand severe service. Adaptable to carbon, condenser, and moving coil microphones. POSITIVELY WATERPROOF—excellent for field microphones.

Cat. No.	Put-up	Approx. O.D.	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1185	100-ft. spool, 2-conductor	11/32"	1	7.5	$7.65
1186	250-ft. coil, 2-conductor	11/32"	1	18.7	18.70
1186A	500-ft. coil, 2-conductor	11/32"	1	37.4	37.20
1187	100-ft. spool, 3-conductor	11/32"	1	9.5	9.35
1188	250-ft. coil, 3-conductor	11/32"	1	23.7	23.18
1188A	500-ft. coil, 3-conductor	11/32"	1	47.4	46.16
1180	100-ft. coil, 4-conductor	3/8"	1	10.0	11.25
1181	250-ft. coil, 4-conductor	3/8"	1	25.0	27.50
1181A	500-ft. coil, 4-conductor	3/8"	1	50.0	54.80
1182	100-ft. coil, 5-conductor	3/8"	1	10.5	13.15
1183	250-ft. coil, 5-conductor	3/8"	1	26.0	32.15
1183A	500-ft. coil, 5-conductor	3/8"	1	52.0	64.10
1189	100-ft. coil, 6-conductor	7/16"	1	15.0	14.90
1190	250-ft. coil, 6-conductor	7/16"	1	37.0	36.60
1190A	500-ft. coil, 6-conductor	7/16"	1	74.0	73.00

Shielded Rubber Jacketed Microphone Cables

Light Weight

Cat. No.	Put-up	Approx. O.D.	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1800	100-ft. spool, 2-conductor	11/32"	1	3.6	$6.20
1801	250-ft. coil, 2-conductor	11/32"	1	7.5	15.05
1802	500-ft. coil, 2-conductor	11/32"	1	15.0	29.90
1810	100-ft. spool, 3-conductor	11/32"	1	5.0	7.45
1811	250-ft. coil, 3-conductor	11/32"	1	12.5	18.10
1812	500-ft. coil, 3-conductor	11/32"	1	25.0	36.00

Special Extra Flexible Shielded Rubber Jacketed Microphone Cable

Conductors of EXTRA FLEXIBLE CONSTRUCTION. Closely woven tinned copper shield, heavy Jacket Tough Black Polished Rubber overall.

Cat. No.	Put-up	Approx. O.D.	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1192	100-ft. spool, 3-conductor	11/32"	1	6.4	$9.85
1193	250-ft. coil, 3-conductor	11/32"	1	16.0	24.15
1193A	500-ft. coil, 3-conductor	11/32"	1	32.0	48.10

Crystal Microphone Cable

Shielded—Rubber Jacketed



The conductor is of stranded copper, extremely flexible. Insulation consists of Cellulose Acetate treated textile. A closely woven tinned copper shield is applied, over which is placed a durable, high quality rubber jacket.

SINGLE CONDUCTOR

Cat. No.	Put-up	Approx. O.D.	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1252	100-ft. spool	1/4"	3	3.0	$7.50
1253	250-ft. spool	1/4"	1	6.75	18.00
1253A	500-ft. coil	1/4"	1	13.5	35.80

TWO-CONDUCTOR

Cat. No.	Put-up	Approx. O.D.	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1254	100-ft. spool	1/4"	1	3.55	$10.00
1255	250-ft. spool	1/4"	1	8.80	24.00
1255A	500-ft. coil	1/4"	1	17.6	47.80

Shielded Cables



Flexible tinned co per conductors plus good grade of rubber insulation. Each conductor braided with color-coded cotton braid, thoroughly saturated in MOISTURE-PROOF compound, CLOSELY WOVEN tinned copper shield overall. Especially adaptable to AUTO RADIO, PUBLIC ADDRESS SYSTEMS and SOUND RECORDING EQUIPMENT.

NO. 20 FLEXIBLE R.C. COTTON B AID CONDS.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1110	100-ft. spool, 2-conductor No. 20	3	3.3	$4.80
1111	250-ft. spool, 2-conductor No. 20	1	7.4	11.65
1111A	500-ft. coil, 2-conductor No. 20	1	14.8	23.10
1112	100-ft. spool, 3-conductor No. 20	3	4.7	6.50
1113	250-ft. spool, 3-conductor No. 20	1	10.7	15.95
1113A	500-ft. coil, 3-conductor No. 20	1	21.4	31.70
1114	100-ft. spool, 4-conductor No. 20	3	5.6	8.15
1115	250-ft. coil, 4-conductor No. 20	1	13.1	20.05
1115A	500-ft. coil, 4-conductor No. 20	1	26.2	39.90
1116	100-ft. spool, 5-conductor No. 20	3	6.5	9.85
1117	250-ft. coil, 5-conductor No. 20	1	14.8	24.20
1117A	500-ft. coil, 5-conductor No. 20	1	29.6	48.20
1118	100-ft. spool, 6-conductor No. 20	3	7.5	11.40
1119	250-ft. coil, 6-conductor No. 20	1	16.6	27.85
1119A	500-ft. coil, 6-conductor No. 20	1	33.2	55.50

NO. 18 FLEXIBLE R.C. COTTON BRAID CONDS.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1120	100-ft. spool, 2-conductor No. 18	3	3.8	$5.10
1121	250-ft. spool, 2-conductor No. 18	1	8.6	12.40
1121A	500-ft. coil, 2-conductor No. 18	1	17.2	24.60
1122	100-ft. spool, 3-conductor No. 18	3	5.4	6.95
1123	250-ft. coil, 3-conductor No. 18	1	12.7	16.95
1123A	500-ft. coil, 3-conductor No. 18	1	25.4	33.70
1124	100-ft. spool, 4-conductor No. 18	3	7.0	8.50
1125	250-ft. coil, 4-conductor No. 18	1	16.2	20.85
1125A	500-ft. coil, 4-conductor No. 18	1	32.4	41.50
1126	100-ft. spool, 5-conductor No. 18	3	8.2	10.20
1127	250-ft. coil, 5-conductor No. 18	1	19.6	25.00
1127A	500-ft. coil, 5-conductor No. 18	1	39.2	49.80
1128	100-ft. spool, 6-conductor No. 18	3	9.8	11.50
1129	250-ft. coil, 6-conductor No. 18	1	23.0	28.35
1129A	500-ft. coil, 6-conductor No. 18	1	46.0	56.50



Shielded Cables

Cotton Braid Overall

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1160	100-ft. spool, 2-conductor No. 20	3	3.5	$5.60
1161	250-ft. spool, 2-conductor No. 20	1	8.0	13.80
1161A	500-ft. coil, 2-conductor No. 20	1	16.0	27.40
1162	100-ft. spool, 3-conductor No. 20	3	4.9	7.40
1163	250-ft. spool, 3-conductor No. 20	1	11.1	18.20
1163A	500-ft. coil, 3-conductor No. 20	1	22.2	36.20
1164	100-ft. spool, 4-conductor No. 20	3	6.0	9.10
1165	250-ft. coil, 4-conductor No. 20	1	14.0	22.40
1165A	500-ft. coil, 4-conductor No. 20	1	28.0	44.60
1166	100-ft. spool, 5-conductor No. 20	3	7.3	10.95
1167	250-ft. coil, 5-conductor No. 20	1	15.5	26.95
1167A	500-ft. coil, 5-conductor No. 20	1	31.0	53.70
1168	100-ft. spool, 6-conductor No. 20	3	8.0	12.50
1169	250-ft. coil, 6-conductor No. 20	1	18.0	30.85
1169A	500-ft. coil, 6-conductor No. 20	1	36.0	61.50

Cat. No.	Put-up	St. Pkg.	Wt. Ea. Lbs.	List Price Each
1170	100-ft. spool, 2-conductor No. 18	3	4.2	6.00
1171	250-ft. coil, 2-conductor No. 18	1	9.5	14.55
1171A	500-ft. coil, 2-conductor No. 18	1	19.0	28.90
1172	100-ft. spool, 3-conductor No. 18	3	6.2	8.15
1173	250-ft. coil, 3-conductor No. 18	1	13.0	19.85
1173A	500-ft. coil, 3-conductor No. 18	1	26.0	39.50
1174	100-ft. spool, 4-conductor No. 18	3	7.4	9.60
1175	250-ft. coil, 4-conductor No. 18	1	17.2	23.60
1175A	500-ft. coil, 4-conductor No. 18	1	34.4	47.00
1176	100-ft. spool, 5-conductor No. 18	3	8.7	11.30
1177	250-ft. coil, 5-conductor No. 18	1	20.0	27.90
1177A	500-ft. coil, 5-conductor No. 18	1	40.0	55.60
1178	100-ft. spool, 6-conductor No. 18	3	10.4	12.75
1179	250-ft. coil, 6-conductor No. 18	1	24.5	31.45
1179A	500-ft. coil, 6-conductor No. 18	1	49.0	62.70

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SHIELDED LEAD-IN AND GROUND WIRE

FREE STRIPPING RUBBER

Consists of FLEXIBLE tinned copper conductors, heavy wall of FREE STRIP rubber and CLOSELY WOVEN tinned copper shield. Shield can be grounded, reducing interference, resulting in better reception.



No. 18 Flexible 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1100	50-ft. carton.....	5	1.1	$1.25
1101	250-ft. spool.....	1	5.9	6.00
1101A	500-ft. spool.....	1	11.8	11.80

No. 16 Flexible 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1102	50-ft. carton.....	5	1.4	$1.50
1103	250-ft. spool.....	1	7.2	7.15
1103A	500-ft. spool.....	1	14.4	14.10

No. 14 Flexible 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1104	50-ft. carton.....	5	1.8	$1.75
1105	250-ft. spool.....	1	9.0	8.50
1105A	500-ft. spool.....	1	18.0	16.80

RUBBER JACKETED SHIELDED LOW CAPACITY CABLE

SINGLE CONDUCTOR



Outer rubber jacket insures **Positive Weatherproofing.** Excellent interference eliminator on broadcast band. Suggest ends be sealed after installation to prevent moisture absorption.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1198	50-ft. coil 5/16" O.D.	1	10.0	$8.60
1198A	50-ft. coil 3/8" O.D.	1	4.0	4.95
1199	100-ft. coil 5/16" O.D.	1	20.0	16.65
1199A	100-ft.coil 3/8" O.D.	1	8.0	9.50

TWO CONDUCTOR RUBBER JACKETED SHIELDED SHORT WAVE TRANSMISSION LEAD-IN

APPROXIMATELY 5/8" O.D.



Properly installed this cable is truly a half-wave transmission lead-in. Suggests ends be sealed after installation to prevent moisture absorption and consequent DB. drop.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1200	50-ft. coil 2 cond.	1	10.0	$9.40
1201	100-ft. coil 2 cond.	1	20.0	18.15

SHIELDED LOW CAPACITY CABLE



For auto antennae lead-in and short-wave converters. Extremely low capacity between conductor and shield permits shield grounding without excessive loss of signal.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1194	50-ft. coil 1/2" O.D.	3	4.0	$5.60
1195	100-ft. coil 1/2" O.D.	1	8.0	10.60
1196	50-ft. coil 1/4" O.D.	3	2.5	4.15
1197	100-ft. coil 1/4" O.D.	1	5.0	7.90

SHIELDED LEAD-IN AND GROUND WIRE

With Waxed Cotton Braid Under Shield

Consists of FLEXIBLE tinned copper conductors, heavy wall of FREE STRIP rubber, plus WAXED COTTON BRAID and CLOSELY WOVEN tinned copper shield.

NO. 18 FLEXIBLE 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
118	50-ft. carton.....	5	1	$1.50
118A	250-ft. spool.....	1	5.5	7.20
118B	500-ft. spool.....	1	11.0	14.20

NO. 16 FLEXIBLE 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
116	50-ft. carton.....	5	1.3	$1.70
116A	250-ft. spool.....	1	7	8.30
116B	500-ft. spool.....	1	14.0	16.40

NO. 14 FLEXIBLE 1/32" R.C.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
114	50-ft. carton.....	5	1.6	$1.95
114A	250-ft. spool.....	1	8.5	9.20
114B	500-ft. spool.....	1	17.0	18.20

BLACK POLISHED RUBBER COVERED LEAD-IN AND GROUND WIRE

Conductor consists of stranded clean tinned copper wire. Insulation—high quality live rubber easily stripped. Put up in attractive CARTONS and on SPOOLS.

NO. 18 STRANDED, 1/32" WALL RUBBER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1094	50-ft. carton...	15	.45	$0.50
1095	100-ft. spool....	10	.95	.86
1096	1000-ft. spool....	1	5.0	7.50

NO. 16 STRANDED, 1/32" WALL RUBBER

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1097	50-ft. carton...	15	.90	$0.60
1098	100-ft. spool....	10	1.75	1.10
1099	1000-ft. spool....	1	17.8	10.00

INDOOR AERIAL

EXTREMELY FLEXIBLE conductor, tightly woven brown cotton braid. Will not kink and can be easily concealed. Also suitable for loop aerials.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1089	20-ft. carton...	20	.05	$0.15
1090	60-ft. carton...	5	.16	.50
1091	125-ft. carton...	5	.30	.86
1092	1000-ft. spool....	1	2.75	5.60

TRANSMISSION LINE FOR ALL-WAVE DOUBLET ANTENNA SYSTEM

NOT SHIELDED



Excellent for short-wave reception. Conductors are of solid copper, insulated with a heavy coating of enamel, and weatherproof cotton braid, color coded.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1260	100-ft. spool.....	5	1	$1.65
1261	500-ft. spool.....	1	5	7.60



SHIELDED

Ideal for short-wave reception. Conductors are of solid copper, insulated with a heavy coating of enamel, over which is placed a weatherproof cotton braid, color coded. A closely woven bare copper shield is placed over all for grounding interference.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1262	100-ft. spool.....	5	2.25	$3.00
1263	500-ft. spool.....	1	11.25	14.15

TWISTED PAIR BRAID OVERALL DOUBLET TRANSMISSION CABLE



BLACK weatherproof braid overall suitable as transmission line for DOUBLET ANTENNA SYSTEM required on "ALL WAVE" RADIO RECEIVERS.

Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1264	100-ft. spool.....	5	2.45	$2.55
1265	500-ft. spool.....	1	11.90	12.05

SHIELDED IGNITION CABLE



No. 16 7MM rubber wall lacquered braid plus overall shield. Effective in reducing interference in auto secondary circuit. Can also be used as photo electric cell leads.

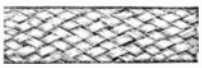
Cat. No.	Put-up	Std. Pkg.	Wt. Ea. Lbs.	List Price Each
1295	100-ft. spool.....	1	8.0	10.90

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LENZ

WIRES *Quality Products* CABLES

Tinned Copper Shielding and Bonding Braids



Conveniently furnished on spools in complete range of various widths. Used for general shielding purposes, especially auto radio. No. 1208 can be used as auto aerial. Wider widths used for bonding purposes, especially where automotive floating power exists.

1/8" Wide—Opens to 7/32"

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1208	50-ft. spool	5	.4		$1.25
1208A	100-ft. spool	3	1.0		2.15
1209	250-ft. spool	1	2.5		4.70
1209B	500-ft. spool	1	5.0		9.20

3/16" Wide—Opens to 1/4"

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1210	50-ft. spool	5	1.1		$1.65
1210A	100-ft. spool	3	2.2		2.85
1211	250-ft. spool	1	3.7		6.50
1211B	500-ft. spool	1	7.4		12.80

1/4" Wide—Opens to 3/8"

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1212	50-ft. spool	5	1.4		$2.00
1212A	100-ft. spool	3	2.8		3.65
1213	250-ft. spool	1	4.7		7.80
1213B	500-ft. spool	1	9.4		15.40

3/8" Wide—Opens to 7/16"

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1214	50-ft. spool	5	1.7		$2.35
1214A	100-ft. spool	3	3.4		4.55
1215	250-ft. spool	1	6.7		10.65
1215B	500-ft. spool	1	13.4		21.10

9/16" Wide—Opens to 15/16"

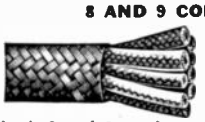
Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1216	50-ft. spool	5	2.4		$4.15
1216A	100-ft. spool	3	4.8		7.70
1217	250-ft. spool	1	9.6		16.50
1217B	500-ft. spool	1	19.2		32.80

11/16" Wide—Opens to 1 1/4"

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List P ice Each
1218	50-ft. spool	5	3 2		$6.10
1218A	100-ft. spool	3	6.4		11.30
1219	250-ft. spool	1	13.3		24.00
1219B	500-ft. spool	1	26.6		47.80

Analyzer Cable

8 AND 9 CONDUCTOR



Constructed of flexible color coded conductors. Cable consists of two heavy conductors for filament circuit. Supplied in both 8 and 9 conductors. Black glazed braid with red tracers overall.

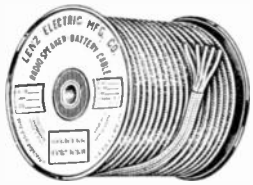
Cat. No.	Put-up	Wt. Ea. Lbs.	List Price Each
1154	100-ft. spool, 8 cond.	7.2	$10.80
1155	250-ft. coil, 8 cond.	18.0	26.50
1155A	500-ft. coil, 8 cond.	36.0	52.80
1156	100-ft. spool, 9 cond.	8.1	11.75
1157	250-ft. coil, 9 cond.	20.0	28.88
1157A	500-ft. coil, 9 cond.	40.0	57.56

Test Prod Lead Wire

A standard rubber covered tinsel conductor used in construction of most all nationally known Analyzer, Oscillators and all types of test apparatus. Furnished in brown, red and black. SPECIFY COLOR.

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1158	100-ft. spool	5	1.1		$2.25
1159	1000-ft. spool	1	6.1		19.40

Dynamic Speaker Extension Cable



Individual conductors consist of flexibled tinned copper, rubber insulation and color-coded cotton braid. Brown cotton braid applied overall.

Suitable for either permanent or portable PUBLIC ADDRESS systems.

NO. 20 STRANDED CONDUCTORS

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1139	100-ft. spool, 2 cond.	3	2.0		$3.15
5139	500-ft. coil, 2 cond.	1	10.0		14.95
1140	100-ft. spool, 3 cond.	3	2.7		4.15
5140	500-ft. coil, 3 cond.	1	13.5		19.95
1141	100-ft. spool, 4 cond.	3	3.5		5.00
5141	500-ft. coil, 4 cond.	1	17.5		24.20
1142	100-ft. spool, 5 cond.	3	4.0		5.85
5142	500-ft. coil, 5 cond.	1	20.0		28.45
1143	100-ft. spool, 6 cond.	3	5.0		6.85
5143	500-ft. coil, 6 cond.	1	25.0		33.45
1144	100-ft. spool, 7 cond.	3	6.0		7.90
5144	500-ft. coil, 7 cond.	1	30.0		38.70

Cable consists of two heavy conductors for voice coil circuit.

2 NO. 16 & 2 NO. 20 ST'D CONDUCTORS

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1141A	100-ft. spool, 4 cond.	3	4.5		$6.50
1141B	500-ft. coil, 4 cond.	1	22.5		31.70

2 NO. 16 & 3 NO. 20 ST'D CONDUCTORS

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1142A	100-ft. spool, 5 cond.	3	5.6		7.50
1142B	500-ft. coil, 5 cond.	1	28.0		36.70

2 NO. 16 & 4 NO. 20 ST'D CONDUCTORS

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1143A	100-ft. spool, 6 cond.	3	6.6		8.50
1143B	500-ft. coil, 6 cond.	1	33.0		41.70

2 NO. 16 & 5 NO. 20 ST'D CONDUCTORS

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1144A	100-ft. spool, 7 cond.	3	7.6		9.55
1144B	500-ft. coil, 7 cond.	1	38.0		46.95

Rubber Jacketed Dynamic Speaker Extension Cable

HEAVY TOUGH RUBBER JACKET APPLIED OVERALL

Suitable for Portable Address Systems

(Not Shielded)

NO. 20 STRANDED CONDUCTORS

Cat. No.	Put-up	Approx. O.D.	Wt. Ea. Lbs.	List Price Each
1700	100-ft. spool, 4 cond.	1/2"	6.5	$7.50
1701	500-ft. coil, 4 cond.	5/8"	32.5	36.70

2 NO. 16 & 2 NO. 20 ST'D CONDUCTORS

Cat. No.	Put-up	Approx. O.D.	Wt. Ea. Lbs.	List Price Each
1700A	100-ft. spool, 4 cond.	11/16"	8.0	9.10
1700B	500-ft. coil, 4 cond.	11/16"	40.0	44.70

Radio Battery Cable

Consists of two heavy conductors for "A" battery supply. All conductors color-coded. Durable brown cotton braid overall.

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1150	100-ft. spool, 5 cond.	3	5.0		$6.50
1150A	500-ft. coil, 5 cond.	1	25.0		31.70
1151	100-ft. spool, 7 cond.	2	7.0		8.50
1151A	500-ft. coil, 7 cond.	1	35.0		41.70
1152	100-ft. spool, 9 cond.	1	10.0		10.60
1152A	500-ft. coil, 9 cond.	1	50.0		52.20

RF. Circuit Hook-Up Wire

A wire with insulation of extremely low losses at high frequencies. Designed especially for wiring the SWITCHING SYSTEM, AVC, PLATE and GRID of RF stages. Conductors supplied in several sizes either solid or stranded. Insulation pushes back freely without adhering to the conductor, and is mechanically strong enough to resist abrasion. A fine production wire with insulation impregnated in a high resistant, low-loss, moisture resisting compound.

NO. 22 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
900	25-ft. carton	15	.16		$0.44
901	50-ft. carton	10	.24		.80
902	100-ft. spool	5	.45		1.51
903	1000-ft. spool	1	4.7		13.88

NO. 20 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
920	25-ft. carton	15	.17		.47
921	50-ft. carton	10	.31		.87
922	100-ft. spool	5	.58		1.65
923	1000-ft. spool	1	6.1		15.25

NO. 18 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
940	25-ft. carton	15	.19		.52
941	50-ft. carton	10	.35		.96
942	100-ft. spool	5	.70		1.82
943	1000-ft. spool	1	7.7		17.08

NO. 16 SOLID TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
960	25-ft. carton	15	.28		.62
961	50-ft. carton	10	.52		1.15
962	100-ft. spool	5	1.10		2.21
963	1000-ft. spool	1	11.25		20.95

NO. 22 STRANDED TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
910	25-ft. carton	15	.16		.47
911	50-ft. carton	10	.24		.85
912	100-ft. carton	5	.45		1.61
913	1000-ft. spool	1	4.7		14.93

NO. 20 STRANDED TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
930	25-ft. carton	15	.17		.51
931	50-ft. carton	10	.31		.94
932	100-ft. spool	5	.58		1.79
933	1000-ft. spool	1	6.1		16.75

NO. 18 STRANDED TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
950	25-ft. carton	15	.19		.58
951	50-ft. carton	10	.35		1.07
952	100-ft. spool	5	.70		2.05
953	1000-ft. spool	1	7.7		19.33

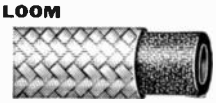
NO. 16 STRANDED TINNED COPPER

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
970	25-ft. carton	15	.28		.70
971	50-ft. carton	10	.52		1.32
972	100-ft. spool	5	1.10		2.56
973	1000-ft. spool	1	11.25		24.38

COLORS: White with red tracer; white—blue tracer; white—green tracer; white—yellow tracer; white—brown tracer; white—orange tracer; white—black tracer; and plain white. Coils furnished without cartons—deduct two cents each from list price.

Shielded Low Capacity Weatherproof Tubing

LOOM



1/4" I.D. Shielded low capacity weatherproof tubing, approximately 1/4" O.D. Small outside diameter permits easy assembly in corner post of auto as shield for antennae lead-in. Excellent for shielding output of signal generators. Used by many prominent manufacturers of auto radio.

Cat. No.	Put-up	Std. Pkg.	Wt. Lbs.	Ea.	List Price Each
1203	50-ft. coil 1/4" I.D.	3	2.0		$3.90
1204	100-ft. coil 1/4" I.D.	1	4.0		7.40
1206	500-ft. coil 1/4" I.D.	1	20.0		36.20

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HARDWARE for RADIO

Nickel Plated Brass Wood Screws, Round, Flat and Oval Head



Size	Length	Doz.	Gr.
Round Head		**List Price**	
4	3/8"	$0.08	$0.80
5	1/2"	.10	1.00
5	3/4"	.12	1.20
5	1"	.16	1.20
Oval Head			
4	3/8"	.08	.80
5	1/2"	.10	1.00
5	3/4"	.12	1.20
5	1"	.16	1.20
Flat Head			
4	3/8"	.08	.80
5	1/2"	.10	1.00
5	3/4"	.12	1.20
5	1"	.16	1.20

Nickled Brass Machine Screws



Length	Doz.	Gr
6-32 Round Head	**List Price**	
3/8"	$0.06	$0.60
1/2"	.08	.76
3/4"	.10	1.00
1"	.10	1.00
1 1/4"	.12	1.30
8-32 Round Head		
1/2"	.08	.80
3/4"	.10	.96
6-32 Flat Head Machine Screws		
3/8"	$0.06	$0.60
1/2"	.08	.76
3/4"	.10	1.00
1"	.10	1.00
1 1/4"	.12	1.20
6-32 Oval Head Machine Screws		
3/8"	$0.06	$0.60
1/2"	.08	.76
3/4"	.10	1.00
1"	.10	1.00
1 1/4"	.12	1.20

Fancy Head Bronze Finish Screws

For Mounting Speakers, etc.

Size	Length	Doz.	Gr.
		List Price	
6-32	3/4"	$0.16	$1.90
6-32	1"	.18	1.90
6-32	1 1/2"	.20	2.00
8-32	3/4"	.20	2.00
8-32	1"	.20	2.00
8-32	1 1/2"	.28	3.00

Handy Hardware Assortment



A big assortment for the serviceman, of assorted screws, nuts, washers, eyelets, lugs, brackets, etc. (3¾ pounds). Something of everything in the way of small parts used in radio receivers. Shpg. Wt. 5 lbs.
List Price **$1.50**

Same as above, but contains 2 lbs. of hardware. Shpg. Wt. 3 lbs.
List Price **$1.00**

Hex Nuts, Knurled Nuts, Washers Nickeled Brass



6–32x¼" Hex Nuts. Envelope of 20.
List Price **$0.10**
Per 100 ..... **$0.40**

8–32x¼" Hex Nuts. Envelope of 20.
List Price **$0.10**
Per 100 ..... **$0.40**

6–32x⅝" Hex Nuts. Envelope of 15.
List Price **$0.10**
Per 100 ..... **$0.50**

8–32x⅝" Hex Nuts. Envelope of 15.
List Price **$0.10**
Per 100 ..... **$0.50**

6–32x¾" Knurled Nuts. Envelope of 6.
List Price **$0.10**
Per 100 ..... **$1.50**

No. 6 Washers. Envelope of 25.
List Price **$0.10**
Per 100 ..... **$0.40**

No. 8 Washers. Envelope of 25.
List Price **$0.10**
Per 100 ..... **$0.40**

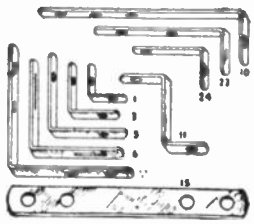
Tinned Brass Lugs



All have No. 8 hole which will fit either No. 6 or 8 screws. Shpg. Wt. 6 oz.

Style No. 1, Style No. 2, Style No. 3—Solderless; Style No. 4—⅝" long; Style No. 5—⅞" long.
List Price, Per 100, Any Type **$0.36**

Angle Brackets



Brass nickel plated. Width ⅜"

No.	Size	List Per Pair
1	½"x ½"	$0.04
3	⅝"x ⅝"	.06
5	1" x1"	.08
6	1⅛"x1⅛"	.10
7	1½"x1½"	.14
10	½"x2¼"	.14
11	¾" high	.04
15	3" long	.12
23	½"x1½"	.12
24	½"x ⅞"	.06

FAHNESTOCK Clips



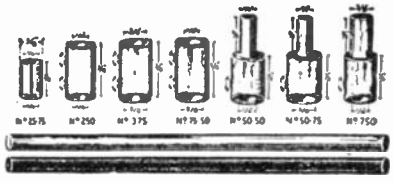
Single—¾".
List Price, Per Dozen **$0.20**

Single—1".
List Price, Per Dozen **$0.25**

Twin—1⅛" long.
List Price, Per Dozen **$0.50**

Twin—1¾" long.
List Price, Per Dozen **$0.60**

Shaft Couplings, Extenders, Reducers



These accurately machined brass fittings can be used for coupling shafts of the same or different diameter, for straight extension, or for extension with smaller or larger shaft diameter.

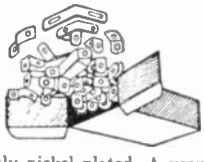
Type No.	Length	Description	List Price
25-75	3/8"	¼" Hole I.D.—⅜" O.D. Dial Bushing	$0.10
250	¾"	¼" Hole I.D.—½" O.D. Coupling	.20
375	¾"	⅜" Hole I.D.—⅝" O.D. Coupling	.20
75-50	¾"	⅜-¼" Hole I.D.—⅝" O.D. Coupling	.20
50-50	1⅛"	¼" Hole I.D.—½" O.D. Extender	.20
50-75	1⅛"	⅜" Hole I.D.—⅝" O.D. Reducer	.20
750	1⅛"	¼" Hole I.D.—⅜" O.D. Reducer	.20
6250	6"	¼" Diameter Brass Shafting	.20
12250	12"	¼" Diameter Brass Shafting	.35
637	6"	¼" Diameter Amerloid Shafting	.35
1237	12"	¼" Diameter Amerloid Shafting	.50

Complete Hardware for Shortwave and Radio Receivers



This assortment is composed of machine screws, wood screws, hex nuts, brass washers, fibre washers, rubber grommets, terminal lugs, screen grid caps, fibre pieces and fibre bushings. Approximately 225 pieces to the box. Shpg. Wt. 1 lb.
List Price **$1.60**

Angle Bracket Assortment



Contains 28 of the most popular angles and brackets used on the average radio set. Solid brass neatly nickel plated. A very handy assortment that no service man should be without. Shpg. Wt. 1 lb.
List Price **$0.50**

Mounting Lugs



For anchoring shield can to chassis. Made of cadmium plated steel. Flat end with hole to fit 6–32 screw. Threaded end size 6–32.
List Price, Per 10 ..... **$0.10**
List Price, Per 100 ..... **$0.80**

Tapered Lugs



Will fit over all diameters of screws up to No. 10. Shank fits banana plugs. Width of lug ½", length 1¼". Bridge in barrel for easy soldering.
List Price. Per Dozen **$0.25**
List Price, Per 50 ..... **$0.80**

Insulating Washers



Extruded Washer, Fibre

O.D.	I.D.	Thick
1"	3/8"	1/16"
3/4"	3/16"	1/16"
1/2"	5/16"	1/32"
1/2"	1/4"	1/16"

List Price, Either Type, Package of 10 ..... **$0.25**

Flat Washer, Bakelite

O.D.	I.D.	Thick
3/4"	3/16"	1/32"
1/2"	1/4"	1/16"
1/2"	5/16"	1/32"

List Price, Either Type, Package of 10 ..... **$0.16**

Fibre Washers



A handy assortment for the service kit. Contains various sizes of both shouldered and plain fibre washers in cardboard box. 100 pieces. Shpg. Wt. 8 oz.
List Price, Per Box **$0.50**

Rubber Grommet Assortment



Kit "A" contains 12 assorted grommets in 4 sizes—⅛" to ½".
List Price **$0.25**

Kit "B" contains 30 assorted grommets in 5 sizes—⅛" to ½"
List Price **$0.50**

Self Tapping Screw Assortment



Box of forty assorted self-tapping screws. These screws are used in many modern receivers. Require no nut.
List Price **$0.50**

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HARDWARE for RADIO

The insulation on the various items listed below is available in the following attractive colors: Red, Black, Blue, Green, Purple or Yellow. When ordering state color desired.

Alligator Test Clips



Head of clip is long thin design. Round barrel and made to fit plug-in prongs. Has firm spring grip. Ideal for meters, test boxes, etc. Size ¼" wide, 2" long.

No. 45AT—Per Dozen.....**$0.80**
List Price, Each.....**.08**
No. 2—Same style as above but 2¾" long, ⅝" wide.
List Price, Each.....**$0.10**
Per Dozen.....**1.10**

Jacks and Plugs



For use with all types of transmitting equipment. All milled of solid brass, nickel plated and furnished with lugs. Plugs have alloy contact springs secured over a pin, making them non-collapsible. Giant plugs and jacks have capacity of 25 amps, others 8 amps. The construction of these jacks and plugs insure perfect electrical contact, and consequently makes them also ideal for use with test equipment.

Giant Plug with 10-32 ¾" screw;
Giant Plug with ¼-¾" screw;
Giant Plug with ¼-28 Threaded Shank;
List Price, Each, Any Type, $0.60
Giant Jack ½" mounting-hole;
List Price, Each.....**.40**
Plug, 6-32 Threaded Shank;
Jack, ¼" mounting-hole;
List Price, Either Type.....**.08**

JUMBO Jack and Plug



Heavy duty jacks and plugs for coils, etc. Brass nickel plated. Ends threaded for 10-32 screw.
Plug (fits ⅜" hole)
List Price...**$0.60**
Jack (fits ⅜" hole).
List Price, Each.....**.45**

Tip Jacks



For test equipment. Nickel plated. Powerful bronze spring.
¼" mounting-hole.
No. 137
List Price, Each.**$0.06**
Per Dozen.....**.70**

Senior Tip Plug



All-metal tip-lug for tip-jack use. Solderless connection.
No. 10—Per Dozen.....**$0.70**
List Price, Each.....**.06**

Junior Tip Plug

As above, but only 1" long.
No. 9
List Price, Each.....**$0.06**

Regular Type



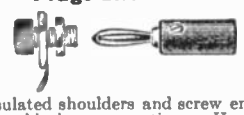
Nickel plated brass.
No. 16
List Price, Per Dozen.....**$0.10**
Per 100.....**1.00**

Laboratory Test Prods



Solderless, needlepoint test prods. Colored insulation. Two handle lengths—5½" and 7".
No. 145—5½"
List Price, Each.....**$0.30**
No. 149—7"
List Price, Each.....**.40**

Insulated and Banana Plugs and Jacks



Insulated shoulders and screw ends for solderless connections. Heavy brass nickel plated springs. Jacks have insulated caps and are provided with washer, soldering lug and nut. Fit ¼" hole. Specify color desired.
No. 131—Insulated Banana Plugs.
No. 135—Insulated Banana Jacks.
List Price, Each, Either Type.....**$0.13**
Per 10.....**1.00**

Insulated Tip Jacks



Have new type springs which provide sure grip contact. Tip nests all the way in jack. Mounts in ⅜" hole. Caps lessen danger of shorting. All colors. **Per Dozen**.**$1.00**
No. 138
List Price, Each.....**.10**

Combination Jack



New type, takes both phone tips and banana plugs. Fully insulated. Colors available as above. 1¼" long. Insulated washer furnished.
No. 148
List Price, Each..**$0.15**

Bakelite Terminal Strip Assemblies



Screw and collar terminals mounted on ⅛" bakelite strips, ⅞" wide. Hardware is nickel-plated. Terminals spaced ½" apart. Ideal for use as speaker connection terminals. "Ant" and "Gnd" strips, etc. Collar and lugs cannot loosen or pull out.

Terminals	Mtg. Centers	List Price
2	1½"	$0.20
3	2"	.30
4	2½"	.40
5	3½"	.50
6	4"	.60

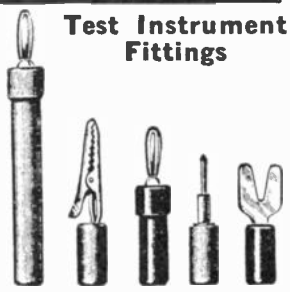


Lug Terminal Strip

For mounting resistors, condensers, etc.

No.	Lugs	Lugs Tinned Bakelite Strip List Price Each	10 For
520	2	$0.06	$0.50
530	3	.06	.50
540	4	.10	1.00
560	6	.12	1.20

Test Instrument Fittings



These fine quality fittings add immeasurably to the attractiveness of your test instruments, etc. The bright colors provide an easy means of terminal identification.
1—4" Test Prod with banana plug tip.
No. 134—List Price.....**$0.30**
2—Insulated Alligator Clip to fit test prod or any banana plug.
No. 129—List Price.....**.10**
3—Short Test Prod, 2½" long.
No. 131A—List Price.....**.25**
4—Insulated Needle-point Phone Tip Plug to fit test prods.
No. 132—List Price.....**.12**
5—Insulated Plug with tapered lug.
No. 133—List Price.....**.12**

Senior Insulated Plugs



A positive contact plug of the solderless type fits all standard tip jacks. Used for test leads on meters, analyzers, etc. Specify color desired. 1⅞" long.
No. 141—Per Dozen.....**$1.20**
List Price, Each.....**.12**

Junior Insulated Plug

Similar to the above but only 1½" long. All colors.
No. 142—Per Dozen.....**$1.20**
List Price, Each.....**.12**

Rubber Grommet Type



No. 38A
List, Each.....**$0.10**
Per Dozen.....**1.00**

Adjustable Bracket Type

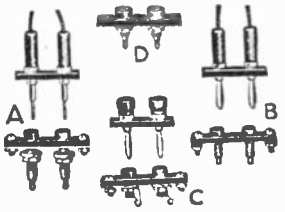


Slot in bracket for adjusting.
No. 36
List, Each...**$0.10**
Per Dozen...**1.00**

Insulated Grommets

For insulating holes in chassis, etc., for power line cords, grid leads, etc. Red or black.
No. 160—⅛" h. ⅜" d., ⅜" l.
List Price.....**$0.09**
No. 161—¾" h., ⅞" d., ⅜" l.
List Price.....**.10**
No. 162—¼" h., ½" d., ⅞" l.
No. 163—⅜" h., ⅝" d., ½" l.
List Price, Either Type.....**.12**

Twin Plugs and Jacks



Sturdy material of high insulating qualities. Plugs finished with red and black 36" leads and corresponding colored tip sleeve. Jacks have all necessary lugs, washers, and nuts. Surface terminals are red and black. Banana plugs are non-collapsible. The variety offered should find favor with those who modernize or "build their own" test units.

(A) Twin Phone Tip and Jack.
No. 413—List Price.....**$0.80**
(B) Twin Banana Plug and Jack
No. 408—List Price.....**$0.80**
(C) Twin Banana Plug with Binging Post, and Jack.
No. 402—List Price.....**$0.70**
Single Post only, red or black.
No. 401—List Price.....**$0.22**
(D) Twin Tip Jack.
No. 406—List Price.....**$0.25**

Insulated Plug Type Binding Post



Hole in top fits banana plug. Hole in stem for wire. Red or black. Specify color.
List Price, Each.**$0.15**

Wing Nuts



Brass, nickel-plated. For all types of portable equipment and test instruments.

Thread	Your Cost Each
6-32	$0.07
8-32	.07
10-32	.07
¼-20	.07
Per 100	**5.50**

New Miniature Tube Caps



Control-grid caps for use on the new miniature metal tubes.
Adapter to fit any regular control-grid clip for contacting new miniature tube caps.
List Price, Type A, Each...**$0.15**
Luster nickel-plated brass tube-cap clip for contacting miniature caps on metal tubes.
List Price, Type B, Each...**$0.04**
Above with wire ferrule for making neat soldered connection.
List Price, Type C, Each...**$0.06**

Upright Clip Mount



Each.....**$0.10**
Per Dozen...**1.00**

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KRAEUTER

The choice of skilled mechanics

Supreme Brand Pliers

The first requisite of quality pliers is good steel . . . Kraeuter Supreme Brand Pliers are drop-forged from an extra high grade steel especially chosen as best adapted for quality pliers after rigid testing and experimenting extending over a period of several years.

All Kraeuter Pliers are heat-treated and hardened in automatic furnaces where the temperature is regulated automatically, and the possibility of human error is entirely eliminated. The result of using this Supreme quality steel and the extreme accuracy in tempering make the Kraeuter Supreme Brand Pliers unequalled for durability, gripping and cutting power. The teeth do not mash down or crumble and the cutting edges will not dent or nick.

New Industrial Finish Pliers

INDUSTRIAL FINISH is a Kraeuterized, non-smudging-black lasting finish impregnated into the metal by a special process. It is not just a baked lacquer.

Many industrial trades using pliers do not need the finely nickeled and highly polished finish on their pliers. By eliminating certain grinding and polishing operations on the Industrial Finish Pliers, it has been possible to offer these pliers at a greatly reduced price. The Industrial Pliers are drop-forged from the same extra high grade steel used on the highly finished pliers, have the same careful tempering and pass the same rigid tests.

"Griptite" Combination Pliers

NEW PATTERN



No. 356

Supreme Full Nickel Finish and Industrial Finish

These are of new design with slightly tapered nose, and are fitted with special non-slipping serrated edge wire cutters. The two larger sizes have three slip-joint adjustments which give a wider range of parallel grips on large nuts.

		Industrial Finish		Supreme Full Nickel Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
5½ in.	3½ lbs.	565½	$ .60	356	$ .80
6 in.	5¾ lbs.	566	.65		.85
8 in.	8½ lbs.	568	.85		1.10
10 in.	13 lbs.	5610	1.00		1.40

Ignition Pliers — Straight Handles



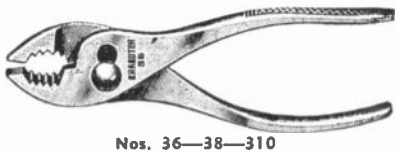
No. 743—4½"

Dull Nickel Finish Only

Designed to replace 10 to 12 piece sets of ignition wrenches. For use on distributor, generator, magneto, and dash panel connections, and any small nut.

		Dull Nickel	
Length	Wt. per Doz.	No.	Price Each
4½ in.	¾ lbs.	743	$ .50

Combination Pliers — Dull Nickel



Nos. 36—38—310

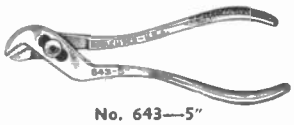
Dull Nickel Finish Only

These well-made dull nickel finish pliers are designed to meet the demand for medium priced good quality pliers that will give good service.

		Dull Nickel	
Length	Wt. per Doz.	No.	Price Each
6 in.	5¾ lbs.	36	$ .30
8 in.	8½ lbs.	38	.50
10 in.	13 lbs.	310	.70

"Sure-Grip" Ignition Pliers

NEW PATTERN



No. 643—5"

Supreme Full Nickel Finish and Industrial Finish

A handy little plier to replace 10- or 12-piece sets of ignition wrenches. Has bulldog grip, slip joint adjustment, serrated teeth, narrow nose, and thin, strong, shaped handles.

Can be used to advantage on distributor, generator, magneto, carburetor, dash panel connections, and on any small or awkwardly placed nuts.

Instantly adjustable and a marvelous time saver.

		Industrial Finish		Supreme Full Nickel Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
5 in.	⅞ lbs.	435	$1.00	643	$1.25

Combination Side Cutting Pliers

Supreme Full Nickel and Industrial Finish



No. 1973

A very popular automotive combination slip-joint plier. Has side cutter suitable for cutting insulated or bare wire. Small groove in nose for holding cotter pins.

		Industrial Finish		Supreme Full Nickel Finish	
Length	Wt. per Doz.	No.	Price Each	No.	Price Each
5½ in.	4 lbs.	9735½	$1.35	1973	$1.65
7 in.	6¾ lbs.	9737	1.60		1.90

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KRAEUTER

The choice of skilled mechanics

Hy-Power Side Cutting Pliers



No. 1801

Supreme Kraeuter Finish & Industrial Finish

Useful for heavy duty jobs of wire cutting and twisting. Very strongly constructed and have extra tough jaws.

Length	Wt. per Doz.	Industrial Finish No.	Industrial Finish Price Each	Supreme Kraeuter Finish No.	Supreme Kraeuter Finish Price Each
6 in.	5¾ lbs.	8016	$1.50	1801	$1.75
7 in.	8¼ lbs.	8017	1.75		2.00
8½ in.	11½ lbs.	8018½	2.00		2.25

Auto Electricians' Pliers



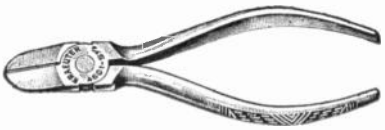
No. 1831

Supreme Kraeuter Finish & Industrial Finish

Used extensively for electrical and general wiring work around the car. Strongly constructed with sturdy wire cutters.

Length	Wt. per Doz.	Industrial Finish No.	Industrial Finish Price Each	Supreme Kraeuter Finish No.	Supreme Kraeuter Finish Price Each
4 in.	2½ lbs.	8314	$1.10	1831	$1.20
5 in.	3½ lbs.	8315	1.15		1.40
6½ in.	5¾ lbs.	8316	1.35		1.55
7 in.	6¾ lbs.	8317	1.50		1.65
8 in.	9½ lbs.	8318	1.60		1.80

Electrician's Diagonal Cutting Pliers



No. 4601

Supreme Kraeuter Finish & Industrial Finish

Longer jaws and made especially for close cutting. Forged from special plier steel and finely fitted for exact work.

Length	Wt. per doz.	Industrial Finish No.	Industrial Finish Price Each	Supreme Kraeuter Finish No.	Supreme Kraeuter Finish Price Each
4½ in.	2 lbs.	6014½	$1.25	4601	$1.65
5 in.	3 lbs.	6015	1.40		1.75
5½ in.	3¾ lbs.	6015½	1.60		1.90
6 in.	5 lbs.	6016	1.70		2.00
7½ in.	6¾ lbs.	6017½	1.90		2.50

Extra Heavy Diagonal Cutting Pliers



No. 4611

Supreme Kraeuter Finish & Industrial Finish

Designed to meet the demand for a larger and more powerful diagonal cutter. Is practically unbreakable. joint is extra heavy and rigid.

Length	Wt. per Doz.	Industrial Finish No.	Industrial Finish Price Each	Supreme Kraeuter Finish No.	Supreme Kraeuter Finish Price Each
6½ in.	6 lbs.	6116½	$1.70	4611	$2.00

"DREADNOUGHT" LINEMEN'S PLIERS

Heavy Duty — Lap-Jointed



No. 2801

Supreme Kraeuter Finish Only

Powerful and durable—wonderful strength and cutting power. Drop forged—perfectly hardened, accurately fitted.

Length	Wt. per Doz.	No.	Price Each
6 in.	5¾ lbs.	2801	$2.00
7 in.	8¼ lbs.		2.25
8½ in.	11½ lbs.		2.75

With Stripping Notch



No. 2801-S

Supreme Kraeuter Finish Only

Extensively used on electrical outside lighting fixtures, for cutting and stripping the asbestos insulation on 14 gauge wire without injury to the wire.

Length	Wt. per Doz.	No.	Price Each
6 in.	5¾ lbs.	S-2801	$2.25
7 in.	8¼ lbs.		2.75
8½ in.	11½ lbs.		3.00



No. 2612

Radio Pliers

Supreme Kraeuter Finish Only

Diagonal cutting pliers specially developed for close cutting in radio and radio tube work. Complete with spring and stripping notch.

Length	Wt. per doz.	No.	Price Each
6 in.	5 lbs.	2612	$1.95

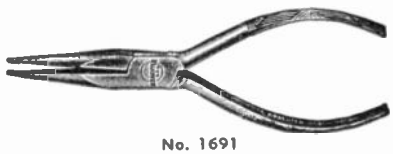
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KRAEUTER

The choice of skilled mechanics

Long Nose Chain Pliers



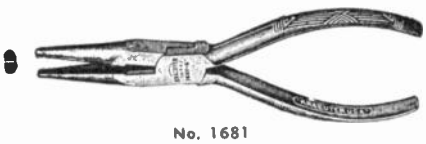
No. 1691

Supreme Kraeuter Finish Only

Designed for use as a half-round nose, chain nose and flat nose plier. Made without cutter.

Length	Wt. per Doz.	No.	Price Each
6 in.	3¼ lbs.	1691	$1.15

Long Nose Side-Cutting Chain Pliers



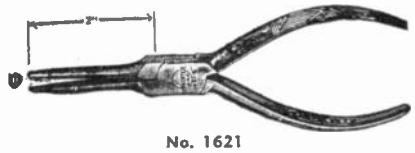
No. 1681

Supreme Kraeuter Finish and Industrial Finish

The long slender jaws are milled inside, and the side-cutters are built to cut. An easy operating plier with sturdy joint.

		Industrial Finish		Supreme Kraeuter Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
6 in.	3¼ lbs.	6816	$1.25	1681	$1.50

Long Fine Needle Nose Pliers



No. 1621

Supreme Kraeuter Finish and Industrial Finish

This pattern is especially made for difficult and odd jobs where no other plier will answer. Especially useful for auto mechanics and vulcanizers. Its capacity for fine work is unusual. The long, fine nose is very carefully tempered.

		Industrial Finish		Supreme Kraeuter Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
6 in.	3¼ lbs.	6216	$1.15	1621	$1.35

Needle Nose Side Cutting Pliers



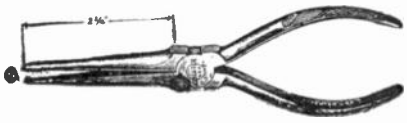
No. 1661

Supreme Kraeuter Finish and Industrial Finish

A fine slender nosed, tapered point plier. Handy on all ignition work and on generators, starters, switch work, etc.

		Industrial Finish		Supreme Kraeuter Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
6 in.	3¼ lbs.	6616	$1.25	1661	$1.50
Without Cutters		6716	1.15	1671	1.40

Extra Long Nose Pliers



No. 1771

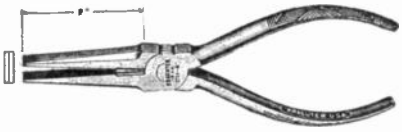
Supreme Kraeuter Finish and Industrial Finish

Very popular with auto mechanics and repair men. Especially good for radiator repair work and in places difficult to reach. Used on auto ignition work on generators, starters, switch work, etc., and on speedometer repair work.

		Industrial Finish		Supreme Kraeuter Finish	
Length	Wt. per doz.	No.	Price Each	No.	Price Each
7 in.	3½ lbs.	7717	$1.20	1771	$1.50
With Side Cutters		7817	1.40	1781	1.65

Extra Long Reach Flat Nose Pliers

SIDE CUTTING

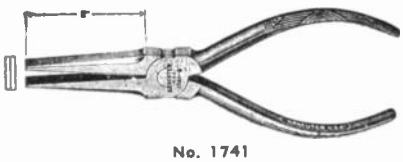


No. 1751

Supreme Kraeuter Finish Only

An appropriate tool for electrical workers and very useful for special work. The long, flat nose is nicely tapered and beveled. The cutting edges are superior.

Length	Wt. per Doz.	No.	Price Each
6 in.	3½ lbs.	1751	$1.55



No. 1741

Extra Long Reach Flat Nose Pliers

Supreme Kraeuter Finish and Industrial Finish

The long, flat nose is nicely tapered and beveled. No cutter. Adaptable to all the uses of a flat nose plier with the added feature of an extremely long nose.

		Industrial Finish		Supreme Kraeuter Finish	
Length	Wt. per Doz.	No.	Price Each	No.	Price Each
6 in.	3½ lbs.	7416	$1.15	1741	$1.40

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KRAEUTER

The choice of skilled mechanics

Offset Screw Drivers

"Chrome-Molly" Steel



Invaluable for reaching screws in difficult places.

			Price Each
No. 497	1/4 in. x 4 1/2 in.	1 lb.	$ .40
	3/8 in. x 8 in.	3 lbs.	.50
No. 97	7/16 in. x 6 in.	2 lbs.	.50

Plumbers' Wood chisels



An exclusive Kraeuter design, with beveled edges and bit, making it easier to operate in heavy wood. The handle is slightly raised to clear the hand when using.

Made of "Chrome-Molly" steel, perfect temper, highly polished face, side of grip, bevels and bit. Absolutely guaranteed. Number and size stamped on shank.

No.	Cut	Stock	Length	Wt., Doz.	Price Each
403	5/8 in	1/2 in.	11 in.	6 lbs.	$ .55
	3/4 in	1/2 in.	11 in.	7 lbs.	.65
	1 in	5/8 in.	11 in.	10 1/2 lbs.	.75
	1 1/4 in	5/8 in.	11 in.	11 1/2 lbs.	.85
	1 1/2 in	3/4 in.	11 in.	15 lbs.	1.00
	2 in.	7/8 in.	12 in.	23 lbs.	1.75

Cold Chisels



(Sold by Cutting Size)

Drop forged perfectly tempered chisels with tough cutting edges.

Furnished in two qualities to take care of all classes of trade.

No. 330—Made of the finest "chrome-molly" steel, correctly tempered, individually tested, with both ends polished.

No. 430—A lower priced drop forged chisel—fine quality steel—well tempered—black finish.

Cut	Stock	Lngth.	Weight Per doz.	Price Each No. 330	No. 430
1/8 x	3/16 x	5	1/2 lbs.	$ .28	$ .14
1/4 x	1/4 x	5	3/4 lbs.	.28	.16
3/16 x	3/16 x	5	1 1/4 lbs.	.28	.18
3/16 x	3/8 x	5	1 3/4 lbs.	.33	.20
1/2 x	1/16 x	6	2 3/4 lbs.	.38	.22
5/16 x	1/2 x	6 1/2	4 lbs.	.50	.26
3/4 x	5/16 x	7	6 3/4 lbs.	.55	.34
7/8 x	3/4 x	8	11 1/4 lbs.	.70	.44
1 x	7/8 x	8 1/2	15 lbs.	.95	.60
1/2 x	1/8 x	12	5 3/4 lbs.	—	.38
5/8 x	1/2 x	12	7 3/4 lbs.	—	.45
3/4 x	5/8 x	12	12 lbs.	—	.55
7/8 x	3/4 x	12	17 1/2 lbs.	—	.78
1 x	7/8 x	12	22 lbs.	—	1.00
5/8 x	1/2 x	18	10 lbs.	—	.60
3/4 x	5/8 x	18	19 1/4 lbs.	—	.77
7/8 x	3/4 x	18	27 1/2 lbs.	—	1.05
1 x	7/8 x	18	33 1/2 lbs.	—	1.40
5/8 x	1/2 x	24	16 1/2 lbs.	—	.75
3/4 x	5/8 x	24	25 1/4 lbs.	—	1.00
7/8 x	3/4 x	24	36 1/2 lbs.	—	1.35
1 x	7/8 x	24	48 lbs.	—	1.75
7/8 x	3/4 x	30	46 lbs.	—	1.60
1 x	7/8 x	30	60 3/4 lbs.	—	2.00
7/8 x	3/4 x	36	41 lbs.	—	1.75
1 x	7/8 x	36	73 1/2 lbs.	—	2.40

Star Drills No. 342



These tools are drop forged from high-carbon steel, oil hardened and oil tempered on both cutting and striking end. The size and number are plainly marked on each drill. The blades have a rounded bevel which gives support to the cutting edge, and permits fast work without splintering or cracking the edge. The flutes are large enough to prevent clogging, and the blades are specially designed for ease in rotating the drill in the holes.

	Size Hole	Length	Wt. per doz.	Price Each
342	1/4 x	8 in.	1 lb.	$ .25
	5/16 x	8 in.	1 1/2 lbs.	.28
	3/8 x	8 in.	2 1/4 lbs.	.28
	7/16 x	8 in.	2 1/4 lbs.	.28
	1/2 x	8 in.	3 1/4 lbs.	.30
	9/16 x	8 in.	4 lbs.	.40
	5/8 x	8 in.	4 lbs.	.40
	11/16 x	8 in.	5 1/2 lbs.	.45
	3/4 x	8 in.	5 1/2 lbs.	.45
	13/16 x	8 in.	9 lbs.	.50
	7/8 x	8 in.	9 lbs.	.50
	15/16 x	8 in.	13 lbs	.60
	1 x	8 in.	13 lbs.	.70
	1/4 x	12 in.	1 1/2 lbs.	.35
	5/16 x	12 in.	2 1/4 lbs.	.35
	3/8 x	12 in.	3 1/2 lbs.	.35
	7/16 x	12 in.	3 1/2 lbs.	.35
	1/2 x	12 in.	5 lbs.	.40
	9/16 x	12 in.	6 1/2 lbs.	.45
	5/8 x	12 in.	6 1/2 lbs.	.45
	11/16 x	12 in.	8 1/4 lbs.	.50
	3/4 x	12 in.	8 1/4 lbs.	.55
	13/16 x	12 in.	13 lbs.	.60
	7/8 x	12 in.	13 lbs.	.80
	15/16 x	12 in.	19 lbs.	.80
	1 x	12 in.	19 lbs.	.85
	1 1/16 x	12 in.	25 lbs.	1.05
	1 1/4 x	12 in.	30 lbs.	1.20
	1 1/2 x	12 in.	34 lbs.	1.85
	3/8 x	18 in.	5 1/4 lbs.	.45
	7/16 x	18 in.	5 1/4 lbs.	.45
	1/2 x	18 in.	7 1/2 lbs.	.50
	9/16 x	18 in.	10 1/4 lbs.	.55
	5/8 x	18 in.	10 1/4 lbs.	.55
	11/16 x	18 in.	12 1/4 lbs.	.65
	3/4 x	18 in.	12 1/4 lbs.	.65
	13/16 x	18 in.	20 lbs.	.85
	7/8 x	18 in.	20 lbs.	.85
	15/16 x	18 in.	28 lbs.	1.00
	1 x	18 in.	28 lbs.	1.05
	1 1/16 x	18 in.	38 lbs.	1.30
	1 1/4 x	18 in.	50 lbs.	1.50
	1 1/2 x	18 in.	50 lbs.	2.10
	1/2 x	24 in.	9 1/4 lbs.	.70
	9/16 x	24 in.	14 lbs.	.70
	5/8 x	24 in.	14 lbs.	.70
	11/16 x	24 in.	16 1/4 lbs.	.80
	3/4 x	24 in.	16 1/2 lbs.	.80

Solid Machine or Drift Punches — No. 291



Accurately machined precision tools made by an improved method which insures perfectly square ends. Number and size stamped on each tool. Made from "Chrome-Molly" steel.

No.	0	1	2	3	4	5	6	7	8	9	Price Each
291	1/16	5/32	1/4	13/64	3/16	11/64	3/32	9/64	1/8	3/32	

Length	Stock			Price Each
	1/16	7/16	9/16	
4 1/2 in.				$.20
6 in.	1/2			.30
10 in.	1/2			.35

Center Punches



Points polished. Forged from "Chrome-Molly" steel. Number and size stamped on each one.

No.	Stock	1 1/2 in. Long Price Each	6 in. Long Price Each
23	1/8 in.	$.22	$.28
	3/8 in.	.22	.28
	7/16 in.	.28	.28
	1/2 in.	.28	.28

Prick Punches



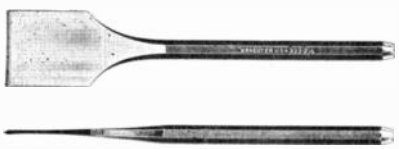
Points polished. Forged from "Chrome-Molly" steel. Number and size stamped on each one.

No.	Stock	Length	Price Each
24	1/8 in.	4 1/2 in.	$.22
	3/8 in.		.22
	7/16 in.		.28

Long Slender Pattern

No.	Stock	Length	
24-A	1/8 in.	6 in.	$.28
	3/8 in.		.28
	7/16 in.		.28
	1/2 in.		.28
25	3/8 in.		.28

Electrician's Chisels No. 333



Used by electricians, plumbers and other workmen for taking up floor boards without damage.

The blade is inserted between two boards, and they are pried apart sufficiently to open the tongue-and-groove joint. In this way, one board is raised without splitting its tongue or groove.

Drop-forged from special chisel steel perfectly hardened—spring tempered.

Blade is ground thin, with sharp edge, and extremely gradual bevel.

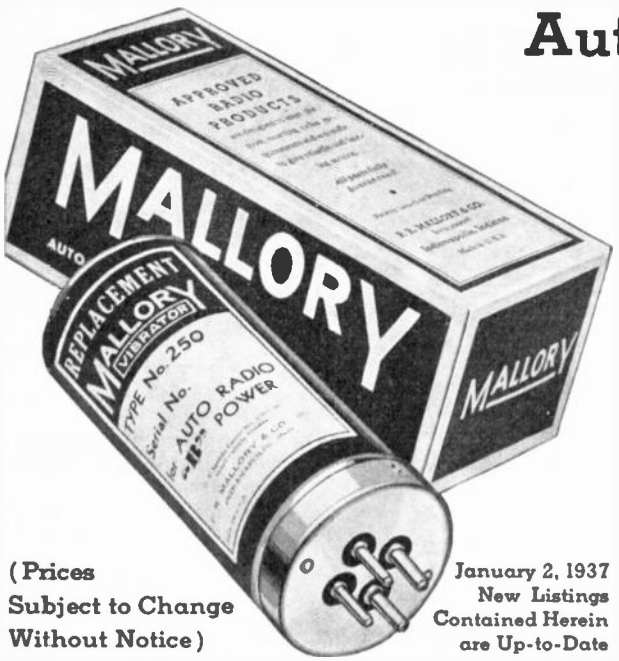
No.	Width of Blade	Length	Wt., Doz.	Price Each
333	2 in.	12 in.	15 lbs.	1.50
	2 1/2 in.	12 in.	15 1/2 lbs.	1.50
	3 in.	12 in.	16 lbs.	1.50

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P. R. MALLORY & CO. Inc.

MALLORY REPLACEMENT VIBRATOR CHART... for All Popular Auto Radio Receivers



(Prices Subject to Change Without Notice)

January 2, 1937 New Listings Contained Herein are Up-to-Date

Three Out of Four!

● Over three million of the four million automobile radio receivers in operation today are equipped with Vibrators made by Mallory.

That is typical of Mallory leadership—a leadership that is proving of tremendous assistance to Service Men—with Mallory Vibrators, Mallory Condensers and Yaxley Volume Controls.

Name of Set	Model Number	Correct Mallory Replacement Vibrator Number	List Price
Acratone	40, U6	294	$4.50
	49, 51, 92, 92A, 94A, 460	292	4.00
	L7, X6, Z4, Z5	245C	5.50
Addison	N655	285XS	7.00
	531, 631	292	4.00
Admiral	U6	294	4.50
Aircastle	603	292	4.00
	BA41, L7, X6, Z4, Z5	245C	5.50
	U6	294	4.50
Airline—See Montgomery-Ward & Co.			
Airmate—See United Motors Service.			
All-American Mohawk	A60	292	4.00
Allied Radio Corp. (Knight)	F9515, F9541, F9551, G9515, G9517, G9881, G9882, T (Auto)	292	4.00
	F9727	F292	5.00
	L7, Z4, Z5	245C	5.50
	U6	294	4.50
Arcadia—See Wells-Gardner.			
Arvin—See Noblitt-Sparks.			
Atwater Kent	424, 534	222	5.75
	816	226	6.00
	126, 136, 416, 446, 556, 237Q, 467Q	294	4.50
	666, 776	296	4.50
	135Z, 215Z, 305Z, 265Z	F297	5.50
Audiola—See Fairbanks-Morse.			
Autocrat	5	292	4.00
Automatic	1933, 1934, 1935, Junior, Senior, Junior Twin Six, A600, AR600, Jr.	292	$4.00
	A1, J80	503	4.50
Baldwin	Chassis 54, 64	294	4.50
Balkeit	GT156BA, L7 ('36), Z4, Z5	245C	5.50
	Chassis 54, 64, U6	294	4.50
Belmont	660	292	4.00
	1932 Models	311S	7.50
	566, 666, 666 "A"-"B," 670A, 690, 880A, 880B, 880C	294	4.50
	580, 670, 680, 680A, 680B, 680C	296	4.50
Blackhawk	6U	253	4.50
"Bosch"—See United American Bosch.			
Buick-Olds-Pontiac—See United Motors Service.			
Cavalcade	Chassis 54, 64	294	4.50
	3511	245C	5.50
Cadillac	06W Standard	210	7.50
	06W Master	237	7.50
	2721 (062)	206	6.75
	2722 (072A)	211	7.50
	6U2	253	4.50
	56V1	221	4.50
Canadian Radio Corp.	513C, 513DOR	223	6.00
Chevrolet—See United Motors Service.			
Clarion	100AR	294	4.50
	TC 50		
	4-prong Socket	294	4.50
	6-prong Socket	296	4.50

*Requires Special Cup Adapter. Supplied with Vibrator at $.50 list, or separately at $1.00 list.
†See CAUTION note at end of table.
The prefix letter "F" designates Vibrator designed for 32-volt Service.
The prefix letter "G" designates Vibrator designed for 12-volt Service.

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MALLORY REPLACEMENT VIBRATOR CHART
for all Popular Auto Radio Receivers—continued

Name of Set	Model Number	Correct Mallory Replacement Vibrator Number	List Price
Clinton	803, 1935, 1936	294	$4.50
Colonial	106B-Power Supply	221	4.50
	150	271	6.00
	164	220B	6.50
	164B	296	4.50
Consolidated	51	223	6.00
Continental	"Admiral" U6	294	4.50
	"Admiral" L7, "Admiral" Z4, "Admiral" Z5	245C	5.50
Crosley	98, 99, 102, 103, 5A1	223	6.00
	4A1, 6B1, 5A3, A155	247	5.75
	435, 546, 636, 6615	246	5.50
	A166, A255, A355, A366, A455, A555	273C	5.50
	119, 159	F223	6.75
	A156, A266	501P	3.00
DeForest Crosley (Canada)	51, 510, 513C, 513D	223	6.00
Delco—See United Motors Service.			
Detrola	6A-1100-1100A	220B	6.50
	6M, 6R	294	4.50
	1934, 1935	292	4.00
Dewald	52	221	4.50
	61	292	4.00
	517, 606, 607	294	4.50
	605	253Y	4.50
Electric Autolite—See Wells-Gardner.			
Electronic	B, Eliminator, 331	292	4.00
	332, 32V	F292	5.00
Emerson	965-667	296	4.50
	5A	277S	6.00
	678-1	225	6.00
	6A	253Y	4.50
Erla-Sentinel	5500	294	4.50
	600-602-603	292	4.00
Fada	101-102-104-104B	221	4.50
	166	253Y	4.50
	266, 266SD, 266SG	294	4.50
Fairbanks-Morse	23-S-7, 33-S-6 (1st Series)	312T	7.50
	23-S-7, 33-S-6 (2nd Series)	292	4.00
	33-A-6	225	6.00
	43 (43TIB) (43CIB), 67 (6717, 6746), 73 (73T3B, 73C3B)	246	5.50
	346, 347, B6	297	4.50
	C6, 64, 74	294	4.50
Federated Purchaser	92, 92A, 94A, 460	292	4.00
	40 Auto	294	4.50
Firestone	R-1322 (R-132)	289Y	5.50
	54, 64, R-1332 (R-133)	294	4.50
	Trayler (1314)	294	4.50
	R-1431	294SW	4.50
Ford (Majestic)	40-18805	220B	6.50
	Glove Box Police	220B	6.50
(Philco)	All	500P	3.00
(Lincoln)		296	4.50
Ford (Canada)	Majestic (Utah Carter Pack)		
	Marconi	296	4.50
	Majestic	220B	6.50
	Philco (Prior to 1936), 816	500P	3.00
	Philco (1936), 817, 818, 819	501P	3.00
Fordson	FP32V (350001 Up)	F221	5.25
Freed	A7, A9	210	7.50
Galvin Mfg. Corp. (Motorola)	Motorola Police	282B	5.50
	34, 50, 60, 80, 90 (Golden Voice)	294	4.50
	88	302S	7.50
	61	303S	7.50
	77	230	7.50
	77A, 44A, 66, Super 6	270B	6.00
	55	231	7.25
	55A	234	7.25
	44	235	7.25
	57, 62, 75, 79, 100, 110	253T	4.50
	Dual 6 and Twin 8	253	4.50
Gamble-Skogmo	26S1	253	4.50
	670	296	4.50
General Electric (Also Canadian General Electric)	B40-C41	273*	$6.00
	B52 Arm-Rest Model	273*	6.00
	C60	253	4.50
	C61	224	7.00
	D50, D51, D52	287M	5.50
	D72, N-60	294	4.50
	N51	248	5.50
General Motors (Canada)	134, 135	223	6.00
	136, 137, 138, 640, 641, 540	273C	5.50
Gilfillan	All 1933-34-35-36	296	4.50
B. F. Goodrich Rubber Co.—See Galvin (Motorola).			
Goodyear Service Stores—See Belmont.			
Goldentone	U6	294	4.50
	L7, Z4, Z5	245C	5.50
Gold Medal	U6	294	4.50
	L7, Z4, Z5	245C	5.50
Graybar	150 (Chassis)	271	6.00
Grebe	61-R	292	4.00
Grigsby-Grunow Co. (Majestic)	66, 116, 116A, 118	220B	6.50
	40-18805 (Ford)	220B	6.50
Grunow	4NB (410, 411)	245	5.50
	614-618	294	4.50
	625	273D	5.50
Gulbransen—See Wells-Gardner.			
Halson	199, Roadmaster	220B	6.50
Harley-Davidson	All	271HD	6.00
Howard Radio Co.	HA4, HA1 (670A)	294	4.50
	HA6	249	5.50
Hudson Terraplane	Majestic Head	220B	6.50
	650HD, 651HE	292	4.00
	660TD, 661TE	292	4.00
	666, 668, 680, H-6	294	4.50
Hudson Terraplane (Canada)	Marconi, 650, 660	292	4.00
	680, H6	294	4.50
International	K-60 (K-6)	296	4.50
Karadio	57, 65, 66, 88, 150, 160, 180, 57B	296	4.50
Knight—See Allied Radio Corp.			
Lafayette	S17762	210	7.50
	B62	286S	5.50
	062-062A	206	6.75
	L-30, 6S	253	4.50
	L-23, AM20	296	4.50
	C-60, LW 10	294	4.50
Larkin Company	91	292	4.00
"Lewol"	9101, 9102	292	4.00
	9682	285XS	7.00
Lyric (Canada)	A60	292	4.50
Majestic—See Grigsby-Grunow Co.			
Mallory Eliminator	Type 1	201	6.75
	Type 2	202	6.75
	Type 3	203	6.75
	Type 4	204	6.75
	Type 5	205	6.75
	Type 6	206	6.75
	Types 10, 10C, 10CA, 10P, 10PC, and 10ST	210	7.50
	Types 11, 11M, 11C, 11CD, 11P, and 11PC	211	7.50
	Types 12, 12C and 12PC	212	7.50
	Types 13 and 13S	213	7.50
	Types 14, 14C and 14PN	214	7.50
Marconi (Canada)	48	292	4.00
	Ford	296	4.50
	69	294	4.50
Mission Bell	10A, 11, 12, 14, 16, 25A	292	4.00
Monarch	Chassis 54, 64, U6	294	4.50
	L7, Z4, Z5	245C	5.50

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MALLORY REPLACEMENT VIBRATOR CHART

for all Popular Auto Radio Receivers—continued

Name of Set	Model Number	Correct Mallory Replacement Vibrator Number	List Price
Montgomery-Ward (Airline)	87	292	$4.00
	62-166, 62-118 (6U)	253	4.50
	Auto Radio, 62, 062	206	6.75
	62-199 (5Y)	286S	5.50
	102	296	4.50
	62-136, 32-138	F253	5.50
Motomaster	611	504	4.50
Motorola—See Galvin Mfg. Corp.			
Music Master	Ten-Ten	292	4.00
Noblitt-Sparks (Arvin)	15, 25, 35, 45 (1st Series)	296	4.50
	15, 25, 35, 45 (2d Series)	292	4.00
	10A, 20A, 30A	292	4.00
	20B, 30B, 16	292	4.00
	7, 17, 17A, 27, 37, 38	294	4.50
	18, 28, 33	294	4.50
	61B, 62B, 517B, 527B, 617B, 627B	245	5.50
Northern Electric (Canada)	33, 40	273*	6.00
	61	296	4.50
Pacific	101, 102	292	4.00
	101B, 102B, 101C	294	4.50
	682	285XS	7.00
Packard Bell Co.	25, 6 tube Auto	294	4.50
Philco (Also Canadian)	Police (810PB, 811P)	282P	5.50
	Prior to 1936, 816	500P	3.00
	1936 and 817, 818, 819	501P	3.00
Phonola (Canada)	3A61, 3A62	220B	6.50
Pierce-Arrow	517 Auto, 617	294	4.50
Pilot	253, 255 (1st)	285XS	7.00
	253, 255 (2nd)	245	5.50
	253, 255 (3rd)	245A	5.50
Radiart	B. Eliminator	292	4.00
	Majestic Replacement Unit	292	4.00
Radiette	Chassis 54, 64	294	4.50
RCA Victor (Also Canadian RCA)	5M, 6M, 6M2	249	5.50
	M34-M105	273*	6.00
	M116 (Arm-Rest Model)	273*	6.00
	M107	253	4.50
	M107 (12-volt)	G253	6.00
	AR 4229	273*	6.00
	H 6 (Hudson), RS 63-1	294	4.50
	M123	224	7.00
	M101, M104, M108	287M	5.50
	M101, M104, M108, 12-V. Automotive	G287M	7.50
	M109	294	4.50
	BC6-6, BT6-5	285	5.50
	6BK6, 6BT6, 8BK6, 8BT6	W285	5.50
Radio Products Corporation	U6	294	4.50
	L7, Z4, Z5	245C	5.50
Radolek	10968 (32 Volt)	F292	5.00
	K16743, K16746	245C	5.50
	K16825	294	4.50
Reliance	U6	294	4.50
	L7, Z4, Z5	245C	5.50
Remler	27 (Scotty)—35	292	4.00
Rogers (Canada)	918	223	6.00
Sears-Roebuck	4100, 107HA62	249	5.50
	3400	504	4.50
	7128 4-prong Socket, 566, 666	294	4.50
	6-prong Socket	296	4.50
	7117, 1859, 1859-A	271	6.00
	7157, 7167, 1869	294	4.50
Sentinel—See Erla-Sentinel.			
Serenader (Canada) See Phonola (Canada).			
Sheridan	5 Tube	292	4.00
Simplex	T	292	4.00
	DB, PB	245C	5.50
	P32V (No. 350001 and up)	F292	5.00
Solar—See Wells-Gardner.			

Name of Set	Model Number	Correct Mallory Replacement Vibrator Number	List Price
Sparton (Also Canadian)	33-33A	292	$4.00
	333	292	4.00
	36	222	5.75
Star—See Wells-Gardner.			
Stewart Radio	50, 60	292	4.00
Stewart Warner	1171, 1172, 1181, 1182, 1183	294	4.50
	R-117, R-118	294	4.50
	R-112, 1121, 1122, 1123	292	4.00
	1311, 1312, 1314, 1315, 1316, 1317, 1318, 1319	294	4.50
	R-131	294	4.50
	R-132, R-1322	289Y	5.50
	R-133, R-1332	294	4.50
	1601, 143	294SW	4.50
	R189	285XS	7.00
Stromberg-Carlson (Also Canadian)	33, 33A	236	7.50
Supertone	L7, Z4, Z5	245C	5.50
	U6	294	4.50
L. Tatro Products Corporation	F83, F913	F204	6.75
	L54, N54, O84	F211	7.50
	C625, D625, F725, L74, N74, O94, P54, T6216, U5226, V5226, W6236, X6236, Y6236	F251	5.50
	H465, I465, J665, K665	275	6.00
	M4616, O4626, P4626, Q5636, R5636, S5636	285XS	7.00
Tiffany Tone (Herbert Horn)	535, 536	296	4.50
Transformer Corp. of America	TC50, 100AR	294	4.50
Trav-ler	54, 64	294	4.50
Tropic-Aire—See Wells-Gardner.			
Troy	TR-86	296	4.50
Truetone—See Western Auto.			
Truevalue	6U	253	4.50
United American Bosch	139 (Types V, VC, VT, VTC), 140 (Types V, VC, VT, VTC), 524A-634-634A, 636, 637	253Y	4.50
	140 (Ed. 2 & 3)	271	6.00
	150 (Edition 1)	219	7.50
	150 (Edition 2)	271	6.00
	160, 45A, 45C	271	6.00
	189HB, 189HR (Police)	249	5.50
	79C	253	4.50
	536, 636, 637, 736, 737, 738	294	4.50
	600	245	5.50
United Motors Service Buick-Olds-Pontiac	393884-393885	273C	5.50
	405045-405046, 405047	273C	5.50
	405057	273C	5.50
	405062-405063	273C	5.50
	544245-544246	273C	5.50
	544267-544268-544289-544290-544291-544297-544298	273C	5.50
	364441, 980393	221	4.50
	980441	222	5.75
	980455-980459	222	5.75
	980507-980508	273D	5.50
	980509, 980525, 980526, 980529	273D	5.50
	982006-982007	273C	5.50
	982008	273C	5.50
	983506-983507	273C	5.50
	983526, 983527, 982041, 983534, 985200	294	4.50
	1291344-1291345	273C	5.50
	980534-5	514	5.50
	982043	294	4.50
Chevrolet	364441	221	4.50
	600153-600566	222	5.75
	600249-600565	222	5.75
	601038	273C	5.50
	601176-601177	273C	5.50
	601525, 601574	273C	5.50
	601586	273C	5.50
	601662, 601814	273C	5.50
	985100-985200	294	4.50
	985300	273D	5.50
	985400	273C	5.50

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MALLORY REPLACEMENT VIBRATOR CHART—Cont'd

Name of Set	Model Number	Correct Mallory Replacement Vibrator Number	List Price
United Motors Service—Continued			
Delco	626, 627, 628, 629, 634, 635	273C	$5.50
	630, 631, 632, 633, 500, 631A	294	4.50
	2035, 4036	221	4.50
	4037, 4038	222	5.75
Utah	"B" Eliminator Non-synchronous	221	4.50
Wells-Gardner	V6Z2†	292	4.00
	Z6Z1†	292	4.00
	25Y1	286S	5.50
	25Y1-12 volt	G286S	7.50
	062-062A	206	6.75
	072-072A	211	7.50
	06W (1st Series)	210	7.50
	06W (2d Series)	237	7.50
	26U1 (6U)	253	4.50
	26S1 (6S)	253	4.50
	06X	210	7.50
	6K	248	5.50
	6R	294	4.50
	6N	294	4.50
	06Z	292	4.00
	6L	294	4.50
Western Auto (Truetone)	S-732 (Z6Z1)†, S-733, (V6Z2)†, 06Z	292	4.00
	S-690, (062), S-691, (062-A)	206	6.75
	S-740 (6U)	253	4.50
	S-735 (25Y1)	286S	5.50
	S-743, 1312 (R-131)	294	4.50
	670 (6S)	253	4.50
	06W	210	7.50
	670	296	4.50
	L7, Z4, Z5	245C	5.50
Westinghouse	WR-25, WR-26 4-prong Socket	294	4.50
	6-prong Socket	296	4.50
	WR-500-501	253Y	4.50
Westinghouse (Canada)	A43, A44	273*	6.00
Wilcox-Gay	4B6, Roadmate	292	4.00
Wurlitzer	460-A60	292	4.00
Zenith	4B106, 4B131, 4B132 (5406), 4V31, 4V59 (5405), 6B107, 6B129, 6B164 (5635), 6V27, 6V62 (Chassis 5621)	246	5.50
	5M90 (Chassis 5510), 663-4	294SW	4.50
	460-462 (2057)	292	4.00
	650HD-651HE 660TD-661TE	292	4.00
	Ford	296	4.50
	7	296	4.50
	666, 668, 680, 6M91D, 7M91S	294	4.50
	7M91D, 6M90S, 6M90D, 6M92	294	4.50

6-VOLT HOUSEHOLD RECEIVERS

Addison	N-655	285XS	$7.00
Admiral	L7, X6, Z4, Z5	245C	5.50
Aircastle	BA41, L7, X6, Z4, Z5	245C	5.50
Acratone	L7, X6, Z4, Z5	245C	5.50
Balkeit	L7, X6, Z4, Z5	245C	5.50
Cavalcade	3511	245C	5.50
Crosley	6615, 435	246	5.50
Delco	6010	281	5.50
Goldentone	L7, X6, Z4, Z5	245C	5.50
Goldmedal	L7, X6, Z4, Z5	245C	5.50
Jacobs	None	246	5.50
Knight	L7, X6, Z4, Z5	245C	$5.50
	(Chassis 6820)	285XS	7.00
LeWol	9682	285XS	7.00
Lafayette	J60	285XS	6.00
Monarch	L7, X6, Z4, Z5	245C	5.50
Pacific	682	285XS	7.00
Reliance	L7, X6, Z4, Z5	245C	5.50
Supertone	L7, X6, Z4, Z5	245C	5.50
L'Tatro	6A, K665, J665, H465, I465. R5236, Q5636, P4626, Q4626, M4616, All 1st Series	275	6.00
		275XS	7.50
	R5236, Q5636, P4626, Q4626, M4616, All 2d Series	285XS	7.00
RCA Victor	6BK6, 6BT6, 8BK8, 8BT8	249	5.50
Western Auto (Truetone)	L7, X6, Z4, Z5	245C	5.50
Zenith	4V31, 4V59, 6V27, 6V62	246	5.50

32-VOLT HOUSEHOLD RECEIVERS

Allied Radio Corp.	F9777	F292	$5.00
Atwater Kent	135Z, 215Z, 265Z, 305Z	F297	5.50
Crosley	119, 159	F223	6.75
Delco	4050, 4051	F223	6.75
	3203	F247	6.50
Electronic	332	F292	5.00
Erla-Sentinel	5600	F253	5.50
	6101	F292	5.00
Fairbanks-Morse	33-S-8 (1st Series)	F312	7.50
	33-S-8 (2d Series)	F221	5.25
Fordson	FP32V	F221	5.25
Lafayette	B64	F253	5.50
Majestic	490, 491, 493 (Transformer Type)	F220C	7.00
	490, 491, 493 (Plug-in Type)	F294	5.50
Montgomery-Ward (Airline)	62-136, 62-138	F253	5.50
Philco	32	F502P	6.00
Radolek	10968	F292	5.00
Simplex	P	F292	5.00
L'Tatro	Admiral F293	F204	6.75
	Captain F913	F204	6.75
	Commander E83	F204	6.75
	Governor N54	F211	7.50
	Governor N74	F251	5.50
	Lt. Governor L54	F211	7.50
	Lt. Governor L74	F251	5.50
	Pilot J5, G63	F204	6.75
	President 084	F211	7.50
	President 094	F251	5.50
	F725, D625, C625	F251	5.50
	Recorder P54	F251	5.50
	Recorder P64	F251	5.50
	X6236, W6236, V5226, U5226, T6216	F251	5.50
United Motors Service	4049, 4051	F247	6.50
Wells-Gardner	26B1, 26B5	F253	5.50

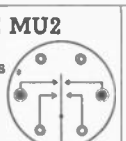
MALLORY UNIVERSAL VIBRATORS

TYPE MU1
Non-Synchronous
Size 1¼ x 3¼
4 Prongs
Price $3.00



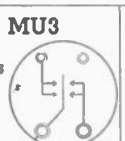
Representative Applications: Arvin, Bosch, Motorola, Philco, Sparton, Stewart-Warner, United Motors Service (Delco, Chevrolet, B. O. P.), Zenith.

TYPE MU2
Reversible Synchronous
Size 1¼ x 3¼
6 Prongs
Price $4.50



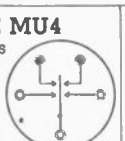
Representative Applications: Firestone, Stewart-Warner, Wells-Gardner.

TYPE MU3
Non-Synchronous
Size 1¼ x 3¼
4 Prongs
Price $3.50



Representative Applications: 1937 Delco, General Motors, Stewart-Warner.

TYPE MU4
Synchronous
Size 1¼ x 3¼
5 Prongs
Price $4.50



Representative Applications: 6-volt Farm—Delco, United Motors Service, Sentinel.

TYPE MU6
Synchronous
Size 1¼ x 3¼
6 Prongs
Price $4.50



Representative Applications: 6 volt Farm—Zenith.

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RADIO BATTERIES

EVEREADY Radio Batteries

All EVEREADY "B" and "C" BATTERIES are now equipped with both the new plug-in connecting socket as well as the regular clip type connectors.

Layerbilt "B" Batteries



Exclusive flat-cell construction eliminates waste space . . . Concentrates the power-making materials. Layerbilt batteries cost more initially than round-cell batteries, but last from 50% to 100% longer. Will give good service all the way down to 24 volts. Sell your customers "Layerbilt" batteries—the millions of advertising dollars that have, and are, being spent to inform the receiver owners about the superiority of the "Layerbilt" makes it easy. **Particularly recommended for "Air Cell" Receivers.**

Medium Size

No. 485—45 Volts

List Price, each **$1.89**
Package Lot (6), each **1.76**

Height 8", length 8 $\frac{1}{32}$", width 3 $\frac{1}{16}$". Weight 11 lbs. Terminals to give +22½ and +45 volts. Equipped with both clip type and plug-in connections. Plug included. 9½ lbs.

Large Size

No. 486—45 Volts

List Price, each **$2.39**
Package Lot (6), each **2.23**

Height 8", length 8" width 4 $\frac{13}{16}$". Weight 16 lbs. Terminals to give +22½ and +45 volts. Equipped with bloth clip type and plug-in connections. Plug included. 14¼ lbs.

"A" Batteries

Dry Cell
Standard 1½-V.
No. 7111

List Price
Each **$0.40**
Pkge Lot (25) **.37**



Recovers rapidly during a short period of rest. Size 2 $\frac{5}{8}$"x6". Weight 2 lbs. 2 ozs.

No. 6 Eveready Columbia Igniter

List Price **$0.35**

Eveready Air Cell "A" Battery



An air-depolarized, constant voltage, non-rechargeable primary battery, especially designed and guaranteed ONLY for use as the "A" Battery for Air-Cell Receivers. High capacity of 600 ampere-hours is sufficient for at least 1000 hours' operation. Activated for service by filling with water. Length 9 $\frac{3}{8}$", width 6 $\frac{9}{16}$", height overall 10 $\frac{5}{16}$". Weight, dry, 23 lbs.

No. A-600 . . . **List Price $5.95**

For Heavy-Drain Air-Cell Receivers which consume excessive "A" current.

No. SA-850 . . . **List Price $7.50**

Large Size "B" No. 570—45 Volts



A low-priced heavy-duty round cell battery. Weight 13 $\frac{3}{4}$ lbs.

List Price, each **$1.69**
Package Lot (6), each **1.59**

No. 572, Medium Size, each 1.15
Package Lot (6), each **1.07**

"B" for Oscillators, Ohmmeters, V.-T. Voltmeters, Portable Radio Receivers



Standard equipment in hundreds of test instruments. It matches in height and depth the standard No. 6A battery — and is about twice as wide as one 6A. Tapped at 22½ and 45. Weight 3¼ lbs. Height 6 $\frac{3}{8}$", length 4 $\frac{7}{8}$", width 2½".

No. 762, 45 Volts, List Price $1.35
Package Lot (5), each **1.27**

"C" for Test Equipment "B" for Radio Receivers

No. 768—22½ Volts



List Price, each **$0.85**
Package Lot (5), each . . . . . **.80**

Tapped at —3, —4½, —16½, —22½. Excellent for Ohmmeters, small service oscillators, as well as for "B" replacement in portable receivers, noise locaters, etc. Used extensively as "C" battery for 120, 31, 71A tubes on 135 volts. Shelf life over 8 months. Size: height 2¾", length 4 $\frac{1}{8}$", width 2½".

Midget "C" for Oscillators

No. 763—22½ Volts

The smallest of the 22½-volt "C" batteries for use with one or two-tube test oscillators or in portable two-tube short-wave receivers. Size: length 3 $\frac{3}{8}$", width 2", 2½" high. Six-months' shelf life.

List Price, each **$0.75**
Package Lot (5), each . . . . . **.71**

Test Set and Flashlight Batteries

No. 703—Large 4½ Volts

Same size as Burgess No. 532, 3-cell. Size: 2 $\frac{5}{8}$"x2 $\frac{5}{16}$"x4 $\frac{1}{16}$".
List Price **$0.30**

No. 751—Medium

Same size as Burgess No. 432. 3-cell. Size 2¼"x2"x4 $\frac{5}{16}$".
List Price **$0.30**

No. 750—Medium

2-cell. Size 2 $\frac{5}{16}$"x1 $\frac{5}{16}$"x3 $\frac{5}{8}$".
List Price **$0.15**

Unit Cells

No. 950—Standard

Tubular. Size 1¼"x2 $\frac{3}{8}$".
List Price **$0.10**

No. 935—Baby

Tubular. Size 1"x1 $\frac{7}{8}$".
List Price **$0.10**

No. 915—Penlight Type

Tubular Sgle. Cell. Size $\frac{9}{16}$"x1 $\frac{1}{16}$"
List Price **$0.05**

"C" Bias

No. 773—7½ Volts



List Price, each **$0.65**
Package Lot (5), each . . . . . **.59**

Brass posts and one flexible terminal. Height 2 $\frac{3}{4}$", length 4", width $\frac{7}{8}$".

Standard "C"

No. 771—4½ Volts
Plug-In Terminals



Contains 3 special "C" Battery cells of the same size and composition as those in the 22½-volt No. 768 "C" Battery. Weight 9 oz.

List Price, each **$0.30**
Package Lot (5), each . . . . . **.29**

4½-Volt General Purpose Battery

No. 761-2 Fahnestock Terminals

Designed to meet a wide variety of applications where a 4½-volt battery is required. Not recommended for use as a "C" battery, as the size and composition of the cells are not so well suited for this work as the special "C" battery cell used in "C" batteries. Where a 4½-volt "C" battery is required, use the standard plug-in "C" battery, No. 771. Weight, 14 ozs.

No. 761-T 4 Brass Screw Terminals

Same as No. 761, except for Terminals.

List Price, No. 761 or 761-T . **$0.30**
Package Lot (5), each . . . . . **.29**

Ohmmeter "C"

No. 781—4½ Volts

Used in Analyzers, and in majority of ohmmeters requiring 4½ volts. Extremely long life on intermittent 1-milliampere drain. Used in Zenith, Operadio and RCA battery radio sets as "C" bias. Size: height 2 $\frac{5}{8}$", length 2 $\frac{3}{16}$", width $\frac{3}{4}$".

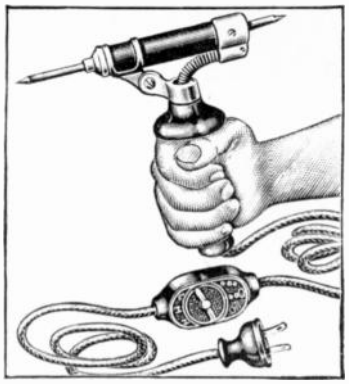
List Price, each **$0.40**
Package Lot (5), each . . . . . **.37**

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THE SUPREME MODEL 525 SOLDERING TOOL

"SUPREME BY COMPARISON"

(1) The greatest individual contribution to the art of soldering in many years. Unexcelled for radio, telephone, and general soldering.
(2) Three definite, different core heats controlled by cord switch, together with adjustable soldering rod provide a great number of possible tip temperatures.
(3) Non-scaling copper soldering rod may be extended 6 inches maximum from heating body to reach locations totally inaccessible with straight soldering tools.
(4) 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.
(5) Soldering rod easily removable for pointing and shaping.
(6) Soldering rods obtainable in a variety of shapes.
(7) New working comfort with perfect mechanical balance is allowed by the handle mounted at right angles to the heating body.
(8) 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.

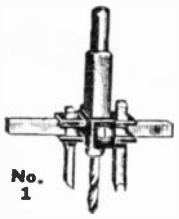


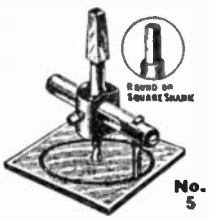
(9) Heating unit which is easily replaceable reaches working temperature quickly.
(10) Wattages: 75 watts for general light work; 125 watts for medium work and rod extensions to approximately 4 inches; 200 watts for quick heating from cold, heavy duty soldering, and for rod extensions to 6 inches.
(11) Weight approximately 18 ounces.
(12) Also available in single heat models.

THE SUPREME MODEL 525 SOLDERING TOOL

(Triple-Heat— 75, 125 and 200 Watts)
List Price $9.00*

(Single-Heat—125 Watts)
List Price 8.00*





"General" Adjustable Circle Cutters

Cut holes easily and quickly in metal, wood, bakelite, hard rubber, etc. Nos. 1 and 2 cut holes from 1" to 4" in diameter. No. 5 cuts holes from 1" to 5" in diameter. No. 1 cutter has an extra beading cutter attached. No. 5 cutter available with square or round shank. State type desired on order.

	List Price
No. 1—With beading cutter	$3.20
No. 2—Less beading cutter	1.80
Junior—Light work only—2½" maximum	1.20
No. 5—Heavy Duty Model. For brace or electric drill	3.20
Extra Blades	.40



"General" Socket Hole Punches

Consists of 2 units, punch proper and anvil, for knocking out socket holes. Ideal for constructor or experimenter. Available in following sizes: ¾", ⅞", 1 1/16" and 1¾". Specify sizes desired. Average shipping weight 1 lb. each punch.

No. 2009—List Price $2.85

HYDROMETER

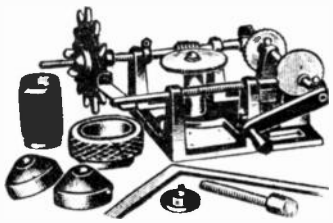


To determine the exact condition of any storage battery. Durable rubber bulb, clear readings on float.
List Price $0.40

MORRIS De Luxe Coil Winder

Will wind Honey Comb, Spiderweb, or Solenoid coils of various widths and diameters. Equal in appearance to factory-made coils. Includes all accessories necessary for winding the various types. Has recorder and indicator that counts turns. Black enamel finish. Shipping Wt. 6 lbs.

List Price $7.50



KESTER Paste Flux

An entirely new different, and more efficient soldering paste flux — designed for the serviceman, constructor, and for speeding up production. Made by a new viscosiforming process which makes possible a uniform non-varying paste. All fluxing ingredients are finely divided and evenly distributed. Results in better soldering. Packed in handy-sized tins. Contains 2 ounces of flux. Only small quantity necessary for joints.

No. 2065—List Price $0.24







KESTER Radio Solder

Preferred by radio men everywhere. Will not spatter. Makes clean joints. Servicemen and other large users will find it more economical to buy their solder this way.

	Rosin Core		Acid Core		Alum. Solder	
	No.	List	No.	List	No.	List
Per Tin	2054	$0.25	2057	$0.25	2060	$0.30
1-lb. Spool	2055	.94	2085	.94	2061	3.00
5-lb. Spool	2056	4.42	2059	4.42		

JENKINS FRICTION TAPE

Highest quality tape, kept fresh by tin foil wrapper. Always a radio, auto and household necessity. Rubber tape listed below is of live rubber under a layer of friction tape. Used for properly insulating electrical splices. Kept fresh by wrapper of tin foil. Available in small roll sizes for small requirements. Wrapped and packed in boxes.

Stock No.	Roll	List Price	10 Rolls
2017	2 oz.	$0.10	$0.90
2018	4 oz.	.14	1.25
2019	8 oz.	.29	2.84
	RUBBER TAPE		
2020	¼ lb.	$0.25	$2.10
2021	½ lb.	.47	4.20



Genuine Mazda Pilot Bulbs

Used for radio dial lamps, indicators, etc. Standard carton contains 10 bulbs. Shipping Weight 8 oz., per box of 10.

Volts	Amps.		List Price
2.5	0.50	Pkge.	$0.90
3.2	0.45	of	1.17
6.8	0.50	10	.90

Special Air Cell Bulb
Tubular bulb, miniature base. 2-volts, 0.06-amps. Has lowest current drain of any bulb.
List Price, ea. $0.33

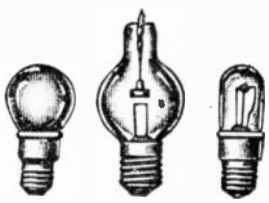
Victor-Mazda Pilot Bulb
Intermediate base, frosted bulb, 110-volts. For use in Colonial, Victor, and other receivers.
List Price, ea. $0.28

Special Auto Radio Bulb
Round bulb, miniature base. 6-8 volts, 0.15-amps. Small size.
List Price, ea. $0.13

GENUINE TUNGAR BULBS

Used in battery chargers, "A" eliminators, etc. All guaranteed. Tested before shipment.

Type	List Price
.6 amp.	$4.65
2 amp. (new)	4.65
2 amp. (old)	4.65
6 amp.	9.30



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Mueller Electric Co.

MUELLER BATTERY AND TEST CLIPS



No. 45 Pee-Wee

A very small test clip for radio, ignition, meter and similar work. 1½" long. Jaw Spread ⅜". Steel, Cadmium plated.



No. 27

A high grade test clip with meshing teeth on three sides of jaws. For laboratory and shop test work. 2⅞" long. Jaw spread ⅝". Steel, Cadmium plated.



No. 21-A

A large heavy duty battery charging clip. Lead coated copper shunt protects spring. 4" long. Jaw spread 1¼". Steel, Lead plated.

COPPER CLIPS AND LARGER SIZES

Any of the above clips (except No. 85 Alligator) may be had made of solid copper. Prices on application. Also the following larger sizes

No. 11-A—100 Ampere. Steel, Lead plated. 5⅝" long.
No. 11—100 Ampere. Solid Copper. 5⅝" long.
No. 33—300 Ampere. Solid Copper. 7¾" long.
(Above furnished with lug connections.)



No. 48-B

A small test and battery clip for radio use and general testing purposes. 2" long. Jaw spread ½". Steel, Cadmium plated.



No. 24-A

A medium sized battery clip. Stands erect on battery post. Lead coated, copper shunt protects spring. 2⅞" long. Jaw spread 1". Steel, lead plated.

ALLIGATOR CLIP

With or Without Rubber Insulator



No. 85 Clip—No. 87 Insulator

No. 85—A very small clip with slender, elongated jaws for getting into tight places in radio or electrical test work. Teeth really mesh. Screw and barrel connection.

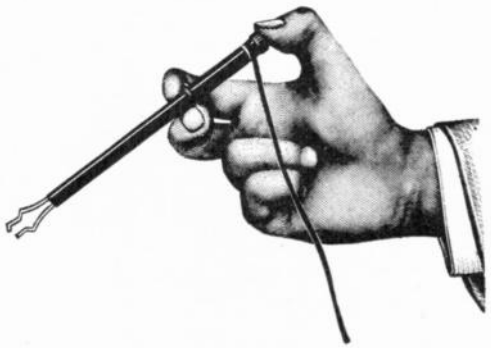
No. 87—Insulators. Red and black. Cover entire clip, except nose. Prevent shorts and shocks.

CLAMPIPE GROUND CLAMP



Heavy construction, will not bend or lop over when applied. Patented design gives 5-point contact and rigid hold on pipe. Large screw case hardened to dig into clean metal. Takes pipes ⅜" to 1⅜" O. D. Packed 10 in a box.

THE No. 99 SNAPPER



A TRIPLE THREAT RADIO TOOL

The Snapper is an elongated, completely insulated electric test clip. It lends itself also to a variety of other applications as described below.

The long tube of insulating material is fitted with spring contact jaws on the far end. The jaws are operated by a push of the thumb on the near end as illustrated.

IT MAY BE USED AS

1. **A "Deep Sea" Electric Test Clip**
2. **An Electric Contact Prod**
3. **A Starter and Retriever for Screws and Nuts**

UNIVERSAL COPPER, RADIO FREQUENCY CLIP



No. 45-C

Entirely non-ferrous clip with phosphor bronze spring and brass screw. Will not heat up on high frequency circuits. No. 45-C Clip with No. 47 Insulator is an ideal combination for use on transmitters and helices.

RUBBER INSULATORS FOR MUELLER UNIVERSAL CLIPS



To prevent short circuit, and electric shock rubber insulators may be had to fit any size clip. Packed ½ red, ½ black, to designate polarity. 10 in a box.

SEE REVERSE SIDE FOR YOUR NET PRICES

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Mueller Electric Co.

SNAPPER No. 99: Retail List Price $0.65; Net Price $0.39

MOST POPULAR SIZES OF CLIPS

Code No.	DESCRIPTION	Length of Clip	Spread of Jaws	PRICE EACH IN LOTS OF			Shipping Weight in Lbs. Per 100
				Retail Price	10	100	
45	PEE WEE CLIP, WITH SCREW, STEEL, CADMIUM-PLATED	1 1/2"	3/8"	$.05	$.03	$.027	2
48-B	CLIP, WITH SCREW, STEEL, CADMIUM-PLATED	2"	1/2"	.05	.0325	.029	2
27	CLIP, WITH SCREW, STEEL, CADMIUM-PLATED	2 7/16"	5/8"	.10	.07	.06	4
24-A	CLIP, WITH SCREW, STEEL, CADMIUM-PLATED	2 7/8"	1"	.10	.06	.0525	7
21-A	CLIP, WITH SCREW, STEEL, LEAD-PLATED	4"	1 1/4"	.16	.11	.09	15
11-A	100-AMPERE CLIP, WITH LUG, STEEL, LEAD-PLATED	5 5/8"	1 1/8"	.50	.35	.30	34
85	ALLIGATOR CLIP, WITH SCREW AND BARREL, STEEL, CADMIUM-PLATED	2 3/8"	1/2"	.07	.05	.04	2

SOLID COPPER CLIPS

45-C	10-AMPERE CLIP, SOLID COPPER, PHOSPHOR BRONZE SPRING, BRASS SCREW	1 1/2"	1/4"	$.08	$.055	$.0475	2
48-C	10-AMPERE CLIP, WITH SCREW, SOLID COPPER	2"	1/2"	.10	.07	.06	2
24	25-AMPERE CLIP, WITH SCREW, SOLID COPPER	2 7/8"	1"	.20	.14	.12	7
21	50-AMPERE CLIP, WITH LUG, SOLID COPPER	4 1/2"	1 1/4"	.50	.35	.30	18
11	100-AMPERE CLIP WITH LUG, SOLID COPPER	5 7/8"	1 1/8"	.85	.60	.51	36
33	300-AMPERE CLIP WITH LUG, SOLID COPPER	7 3/4"	2"	1.35	.95	.81	95

RUBBER INSULATORS (Also listing clips each will fit.)

Insulator Code No.	FOR USE WITH CLIP NUMBER:	PRICE EACH IN LOTS OF			Shipping Weight in Lbs. Per 100
		Retail Price	10	100	
87	85 ALLIGATOR CLIP	$.05	$.03	.$0275	1
47	45 PEE-WEE 45-C SOLID COPPER	.08	.057	.049	2
74	95 FOR 7MM IGNITION CABLE	.09	.063	.054	4
49	48-B 48-C SOLID COPPER 82 NEEDLE CLIP	.10	.065	.055	4
29	27 27-C SOLID COPPER	.12	.082	.07	5
90	SPECIAL 27 CLIP FOR 7MM IGNITION CABLE	.12	.082	.07	5
26	24-A 24 SOLID COPPER	.20	.14	.12	10
23	21-A 21 SOLID COPPER	.34	.24	.20	16
13	11-A 11 SOLID COPPER	.63	.44	.38	23
35	33 SOLID COPPER	.80	.56	.47	55

JUMPERS, CARRIER, GROUND CLAMP

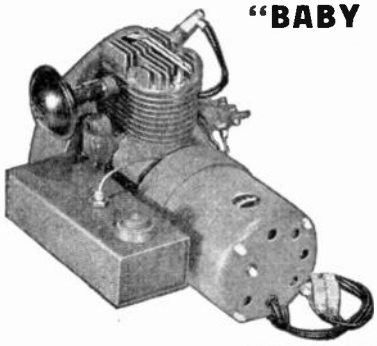
Code No.	DESCRIPTION	PRICE EACH IN LOTS OF			Shipping Weight in Lbs. Per 100
		Retail Price	10	100	
89	CLIP JUMPER	$.20	$.15	$.125	16
57	TAP-TITE CONNECTOR	.20	.15	.12	9
77	JUMPING JACK CONNECTOR	.14	.10	.085	9
73	COCK-EYED CARRIER	.35	.25	.19	19
58	CLAMPIPE GROUND CLAMP	.08	.055	.0475	9

The above prices apply to the Mueller Products described on the reverse side of this page.

ASSORTMENTS — All Mueller Products may be assorted to obtain quantity prices.

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Pioneer
POWER SUPPLY DEVICES



"BABY JUMBO" PORTABLE ELECTRIC POWER PLANTS

WITH PUSH-BUTTON STARTING

6, 12, 32, and 110-Volt—5/8 H.P. 4-Cycle, Single Cylinder Engine

For Farm —Boats—Camps—Trailers—Contractors—Roadside Stands

Anyone can now enjoy the convenience and comfort of electricity—and he doesn't have to be a master mechanic to do it. This energetic little "plant" is extremely simple in design. It's sturdily built for long life under heavy-duty service. The complete unit is easily moved about—it weighs only 46 pounds. It will furnish current for a lighting system, charge batteries, run electrically-driven tools, and operate the washing machine, cream separator, water pumps, and other belt-driven machines.

Fuel Consumption—Fifteen hours on one gallon at 150 watts. Oil consumption, 2 ounces in 10 hours.

Generator—Self-excited, two-pole for highest efficiency. Armature mounted directly on crank-shaft, outer end supported in oil-less self aligning bearing. Surplus oil for 1000 hours' operation. Easily removable cover provides ready inspection of commutator, brushes, and bearings.

Starting—A touch of the push button automatically starts the motor, with current provided by the storage battery. An emergency rope-pull starter is also provided.

NEW "CUB" TYPE "LB" PLANTS

6 or 12 Volts, 200 Watts

PUSH BUTTON STARTING BATTERY IGNITION

PIONEER now furnishes this remarkable plant at the amazingly low ist price of $44.95. The engine is the same as those used on the popular plants shown at the right, with the exception that the small current for the ignition is taken from the storage battery. For installations where engines of this type are satisfactory, the type LB plants have no equal.

Output—200 Watts **Weight—49 Lbs.**

Code	Type No.		List Price
Feign	**LB6X**	For use with 6-volt batteries	**$44.95**
Felon	**LB12X**	For use with 12-volt batteries	**44.95**

Furnished with carrying handle. Wooden base $1.00 additional to List Price.

STANDARD MODEL *with* HIGH TENSION MAGNETO

Code	Type No.	For Use With	Output Watts	Wt. Lbs.	List Price
Fable	**L6**	6-volt batteries	150	46	**$49.95**
Fanny	**L6M**	6-volt batteries (Marine Type)	150	49	**55.00**
False	**L6X**	6-volt batteries	200	49	**55.00**
Fatal	**L6XM**	6-volt batteries (Marine Type)	200	52	**59.95**
Facer	**L12**	12-volt batteries	150	46	**55.00**
Famed	**L12X**	12-volt batteries	250	49	**59.95**
Favor	**L12XM**	12-volt batteries (Marine Type)	250	52	**64.45**
Faint	**L32**	32-volt batteries	250	49	**59.95**
Fairy	**L32R**	For operation of 32-volt lights or D.C. appliances without batteries	250	49	**59.95**
Faker	**L110**	For operation of 110-volt lights or D.C. appliances without batteries	250	49	**59.95**

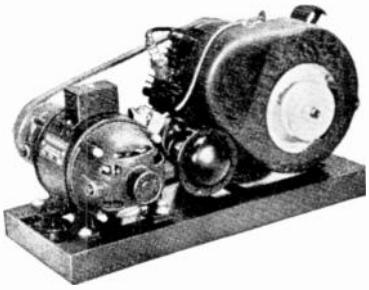
Wooden base and carrying handle furnished on Marine Type units. If wanted on other types add $4.00 to List Price.

Accessories—All plants for use with storage batteries are furnished complete with ammeter, cutout relay, leads, and battery clips. Simply fill with gas and oil, connect with battery, press the starter button, and it goes to work.

"BLUE DIAMOND" 110-VOLT A.C. GAS-ELECTRIC PLANT

110 Volts—300 Watts—60 Cycles A.C.

Operates Standard A.C. "City" Electrical Appliances



This new PIONEER "Blue Diamond" Gas-Electric Plant furnishes "city" electricity! 110 volts—A.C.—300 watts—60 cycles! Standard A.C. electrical appliances can be used! The "Blue Diamond" Unit is ideal for farms, camps, summer homes, etc., because it will supply plenty or current for lights, as well as 50 watts D.C. which will keep all 6-volt batteries charged. It's a perfect power plant for mobile radio units and public address systems! A.C. radio equipment gives better, more powerful performance and requires less investment. Batteries are not needed, eliminating breakage and acid spilling.

The "Blue Diamond" Gas-Electric Unit will operate 12 hours on one gallon of gas—weighs only 72 pounds—is extremely compact.

List Price, only $79.95

Generator only for the "Blue Diamond," speed 3600 R.P.M. Code—Bluge. **List Price $45.00.**

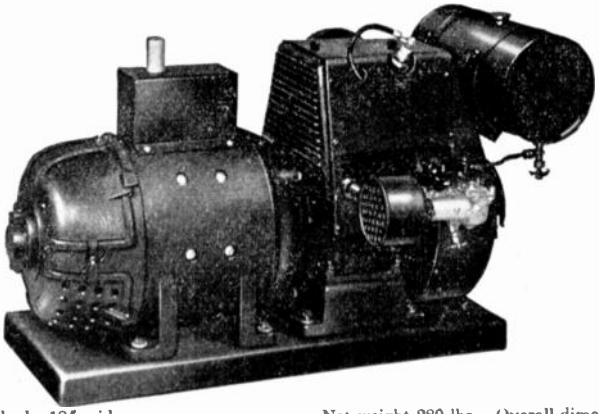
Filter for use with these generators. Code—Blufi. **List Price $7.50.**

"GOLD CROWN" GAS-ELECTRIC PLANTS

32 VOLTS D.C. 800 WATTS

Push Button Starting

Self Excited



Larger capacity than the popular "Baby Jumbo," for use with 32-volt storage batteries. The engine is the 4-cycle, single cylinder, air cooled type, with high tension magneto ignition. Weighs 195 lbs. Overall dimensions, 30" long, 17" wide, 17" high. Complete with starter, ammeter and cutout. Code Goldc. **List Price, $149.50.**

The "Gold Crown" Plant to deliver 110 volts D.C., regardless of load, is similar to the above. This unit is equipped with a hand crank starter and can be used without batteries. Less ammeter, cutout and push button starter. Capacity 800 watts. Code Golsr. **List Price $157.50.**

Larger capacity plant 1500 watts, 110 volts D.C. units with hand crank starter. Weight 280 lbs. Overall dimensions 37" long, 18" high, 18" wide. Code Golfi. **List Price $267.50.**

110-VOLT A.C. 60-CYCLE 1800 R.P.M.

Sufficient alternating current for practically any purpose can be generated with these sturdy, reliable plants. The 4-cycle, air cooled engine with automatic speed control assures a constant frequency of 60-cycle with no flicker. Furnished with hand crank starter. Self-excited, no batteries required. Engine and generator mounted on heavy cast iron base.

110-Volt A.C. Plant with Hand Crank Starter

Output 110 Volts A.C.

Code	Capacity	List Price
Golsi	600 watts	**$165.00**
Golth	1000 watts	**240.00**
Golac	1500 watts	**290.00**

Net weight 280 lbs. Overall dimensions, 37" long, 18" wide, 21" high. Prices slightly higher in West and South.

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Pioneer
POWER SUPPLY DEVICES

PIONEER ROTARY CONVERTERS



Converts 6, 12, 32, 110, 220 Volts Direct Current to 110 Volts Alternating Current

Rotary converters with and without filters for operation of: Public Address Systems, Power Amplifiers, Radio Receivers, Electric Phonographs, A. C. Motor, Neon Signs, and any other similar apparatus requiring a reliable source of A. C.

Here's a PIONEER double-wound rotary converter of dynamotor construction with separate D. C. and A. C. windings. Less heating and longer brush life result from the engineered PIONEER converter design! The double-wound converter results in more efficient commutation than is obtainable with "tapped" winding.

Converters are rated in volt amperes—the Power Factor of the load determines the size of converter to be used—all PIONEER converters are engineered for the apparatus with which they are to be used.

		INPUT		OUTPUT		LIST PRICE	
CODE	Type No.	D.C. Volt.	D.C. Current	A.C. Volt.	Volt-Amps	Less Filter	With Filter
Daily	640	6	13.3 amps	110	40	$44.00	$51.50
Dance	660	6	19. "	110	60	55.00	59.00
Darky	1240	12	7.5 "	110	40	32.50	40.00
Daunt	1280	12	11.8 "	110	80	44.00	47.00
Death	1212	12	17.5 "	110	120	51.00	54.50
Debar	1216	12	20.0 "	110	160	66.00	77.00
Debit	3240	32	2.78 "	110	40	31.00	38.50
Decay	3280	32	4.7 "	110	80	34.00	38.50
Defer	3211	32	5.6 "	110	110	37.00	41.50
Deity	3215	32	7.8 "	110	150	41.50	46.00
Delta	3220	32	10.0 "	110	200	45.50	50.50
Delve	3225	32	13.0 "	110	250	49.50	55.50
Demos	3230	32	15.0 "	110	300	55.50	64.50
Denim	1140	110	0.8 "	110	40	31.00	38.50
Dense	1180	110	1.30 "	110	80	34.00	38.50
Depot	1111	110	1.78 "	110	110	37.00	41.50
Depth	1115	110	2.23 "	110	150	41.50	46.00
Derby	1120	110	2.80 "	110	200	45.50	50.50
Derma	1125	110	3.55 "	110	250	49.50	55.50
Deter	1130	110	3.85 "	110	300	55.50	64.50

All Pioneer 6 and 12-volt converters operate on ball bearings. Can be supplied on other units—add $3.50 to the list price.

PIONEER GEN-E-MOTOR Auto "B" Eliminators



New Compact Models

Complete with built-in filter units, for use as battery eliminators for auto receivers using "B" batteries, and for installation in auto sets where it is desired to remove the filter system used with the old vibrator unit. The entire unit is housed in a sturdy metal case measuring 2⅞"x5 ⅞"x5 ⅞". The Gen-E-Motor is floated in rubber, assuring complete freedom from vibration. The armature is supported by two sets of ball bearings. Shpg. Wt. 7¼ lbs.

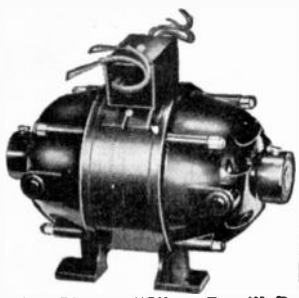
Code	No.	Output Volts	Output M.A.	Battery Drain	List Price
Baggy	5135-A	135	30	1.80	$18.00
Balmy	5180-A	180	30	2.50	18.00
Balsa	5200-A	200	40	3.15	18.00
Bandy	5225	225	50	4.3	18.00
Banjo	5250	250	50	4.7	18.00

The above units may be furnished with intermediate tap for 50c additional. Add "T" to code word. Shipping weight 7¼ lbs.

Model "H" For Amplifiers and Sound Trucks

Code	No.	Output Volts	Output M.A.	Battery Drain	List Price
Basic	7565	265	75	7.75	$31.00
Baste	7300	300	100	9.5	34.00

PIONEER DYNAMOTORS





Use Pioneer "Silver Band" Dynamotors for Better Performance in Sound Systems, Police Units, Aircraft, Marine and Broadcast Service.

FEATURES

No ripple or voltage variation.
Nothing to adjust!
Compact, light weight, and completely enclosed in dust-tight case.
Welded steel ring construction—end brackets of tough, high quality malleable iron.
Armature, dynamically balanced, runs on grease-sealed bearings insures quiet, smooth operation.

Code	Type No.	Output Volts	Output M.A.	Input Volts	Input A.	Wt. Lbs.	SIZE Lgth. Ins.	SIZE Width Ins.	SIZE Hgt. Ins.	List Price
Gavel	E1W272	250	50	6	4.7	7½	5⅝	4⅝	4⅝	$35.00
Gayal	E2W353	250	50	6	4.8	9¼	6⅛	4⅝	4⅝	40.00
Galea	E1W339	250	100	6	7.5	7½	5⅝	4⅝	4⅝	35.00
Gecko	E2W397	250	150	6	13.2	9¼	6⅛	4⅝	4⅝	40.00
Genet	E2W351	300	100	6	9.7	9¼	6⅛	4⅝	4⅝	40.00
Gatch	E2W243	300	150	6	14.0	9¼	6⅛	4⅝	4⅝	40.00
Genus	E2W256	350	150	6	15.2	9¼	6⅛	4⅝	4⅝	42.00
Giant	E2W438	400	125	6	14.2	9¼	6⅛	4⅝	4⅝	42.00
Gaily	E3W143	500	100	6	15.0	11	6⅝	4⅝	4⅝	47.50
Girth	RA0W158	300	200	6	18.0	16	8	5¾	5⅞	75.00
Given	RA1W201	400	225	6	25.0	17½	8⅞	5¾	5⅞	82.50
Glade	RA1W189	500	200	6	27.0	17½	8⅞	5¾	5⅞	85.00
Glair	RA1W331	600	200	6	31.0	17½	8⅞	5¾	5⅞	87.50
Grate	RA1W549	750	125	6	25.0	17½	8⅞	5¾	5⅞	90.00
Glint	RA3W550	750	250	12	24.0	23¼	9¼	5¾	5⅞	97.50
Gonad	RA2W475	1000	150	12	20.0	19¼	8⅞	5¾	5⅞	105.00
Grist	RA3W534	1000	250	12	32.0	23¼	9¼	5¾	5⅞	115.00

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.

	List Price		List Price
Standard Filter for "E" units	$19.50	Transient Filter for "RA" units	$25.00
"EA" units, using aluminum wherever possible to reduce weight additional to list price of corresponding "E" unit.			$10.00

Most "RA" units may be furnished in "DA" frame at 15% less than "RA" list.
Prices Slightly Higher in West and South

TYPE M ROTARY CONVERTER



Less Filter and Remote Control. Output 110 Volts A.C.

Designed for the most exacting requirements — this PIONEER Model M converter furnishes 60 cycles at 1800 R.P.M. with a pure sine wave. Up to 1000-volt amps prices on request.

MODEL JW-GEN-E-MOTOR . WITHOUT FILTER



It is being used with remarkable success to replace vibrators in auto radio receivers—as it can be easily installed usually within the set itself. It is excellent for this service because it is extremely compact (4⅛"x5½"x2⅞") and can be used without circuit alterations—complete instructions included.

Supplies a uniform voltage output, eliminating noisy or weak reception.

Code	No.	Output Volts	Output M.A.	Battery Drain	List Price
Abate	JW-18	180	30	2.5	$13.00
Abbey	JW-20	200	40	3.15	13.00
Abhor	JW-25	225	50	4.3	13.00
Abide	JW-50	250	50	4.7	13.00
	For 32-Volt Radios				
About	JW-32	210	45	.7	$16.50

Shipping weight, each 6 lbs.

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This List Price Catalog is designed to give you an opportunity to solicit consumer business. Use it for that purpose and watch your sales and profits increase!

DISCOUNTS: Your confidential trade discount is indicated by the small figure which appears at the bottom-center of each page. Thus, where the figures 50, 40 or 30 appear, your discount is 50% or 40% or 30% from list for the items on those respective pages. On some complete pages and for some individual articles, only NET prices apply; in such cases, the word "NET" appears at the bottom of the page or next to the item itself.

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RADIO

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