



Mica Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

"POSTAGE-STAMP" MOLDED-IN-BAKELITE MICA CAPACITORS

Wide choice of designs, sizes, mountings, terminals offer the correct Aerovox unit for every application, as listed. Units built of selected mica and foil; molded bakelite casing impervious to mois-

ture, heat, mechanical damage. Micrometer test for mica thickness maintains capacity values for long life. Capacity values indicated on units.

Type 1467



Compact, size $\frac{3}{16}$ in. square, provided with wire leads. 1000 volts D.C. Test — 500 volts D.C. Wkg.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0005	\$0.25	\$0.15	.004	\$0.55	\$0.33
.00075	.25	.15	.005	.60	.36
.001	.30	.18	.006	.75	.45
.0015	.30	.18	.007*	.90	.54
.002	.40	.24	.008*	1.00	.60
.0025	.45	.27	.009*	1.10	.66
.003	.50	.30	.01*	1.20	.72

Size $25/32" \times 25/32" \times 9/32"$ or $(53/64" \times 53/64" \times 21/64")$ for units that have an asterisk [*]. Standard Tolerance $\pm 20\%$; for $\pm 10\%$ add 10% to list price; $\pm 5\%$ add 20% to list price; $\pm 3\%$ add 40% to list price; $\pm 2\%$ add 75% to list price.

Type 1468



Midjet size $\frac{1}{4}" \times \frac{1}{4}" \times \frac{1}{8}"$ provided with wire leads. 1000 volts D.C. Test — 500 volts D.C. Wkg.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00001	\$0.25	\$0.15	.00015	\$0.20	\$0.12
.000005	.25	.15	.0002	.20	.12
.00001	.25	.15	.00025	.25	.15
.000025	.25	.15	.0003	.25	.15
.00004	.20	.12	.00035	.25	.15
.00005	.20	.12	.0004	.25	.15
.000075	.20	.12	.0005	.25	.15
.0001	.20	.12	.00075	.25	.15
			.001	.30	.18

Size $25/32" \times 25/32" \times 9/32"$. Standard Tolerance $\pm 20\%$; for $\pm 10\%$ add 10% to list price; $\pm 5\%$ add 20% to list price; $\pm 3\%$ add 40% to list price; $\pm 2\%$ add 75% to list price.

Type 1478



With wire leads. Size $1\frac{1}{8}" \times \frac{1}{8}" \times \frac{1}{8}"$. 1000 volts D.C. Test—500 volts D.C. Working.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0005	\$0.30	\$0.18	.0015	\$0.45	\$0.27
.00075	.30	.18	.002	.50	.30
.001	.40	.24			

Type 1441W



With wire leads. Size $1" \times \frac{5}{8}"$. 1000 volts D.C. Test—500 volts D.C. Working.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0005	\$0.25	\$0.15	.003	\$0.50	\$0.30
.00075	.25	.15	.004	.55	.33
.001	.30	.18	.005	.60	.36
.0015	.30	.18	.006	.75	.45
.002	.40	.24	.008*	1.00	.60
.0025	.45	.27	.01*	1.20	.72

*5/16" thick. All others 3/16" thick.

MOLDED-IN-BAKELITE MICA CAPACITORS

Type 1460



Popular type molded-in-bakelite mica capacitor. Size $1\frac{1}{2}" \times \frac{1}{2}"$. Two soldering lug terminals. 1000 volts D.C. Test—500 volts D.C. Working.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0001	\$0.20	\$0.12	.00075	\$0.25	\$0.15
.00015	.20	.12	.001	.30	.18
.0002	.20	.12	.0015	.30	.18
.00025	.25	.15	.002	.40	.24
.0003	.25	.15	.0025	.45	.27
.00035	.25	.15	.003	.50	.30
.0004	.25	.15	.004*	.55	.33
.0005	.25	.15	.005*	.60	.36

*600v D.C. Test—300v D.C. Working; 9/32" thick. all others 17/64".

PORCELAIN-CASED MICA CAPACITORS

Ideal for those higher-frequency applications. Encased and hermetically sealed in glazed porcelain case. Heavy-duty terminals. Power loss due to dielectric absorption reduced to a minimum. Units operate at full load without heating up. Dimensions: $3\frac{1}{2}"$ between mounting holes, $4"$ overall by $3"$ high.



Types 1991-96

Types 1991—2000v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.02	\$14.75	\$8.85	.1	\$18.50	\$11.10

Type 1992—3500v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.001	\$6.50	\$3.90	.005	\$10.50	\$6.30
.0015	6.50	3.90	.01	16.00	9.60
.002	8.00	4.80	.02	16.00	9.60
.003	8.75	5.25	.05	18.50	11.10

Type 1993—5000v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.002	\$8.75	\$5.25	.005	\$10.50	\$6.30
.003	9.50	5.70	.01	15.25	9.15

Type 1994—7000v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0005	\$6.50	\$3.90	.003	\$10.25	\$6.15
.001	7.25	4.35	.005	11.00	6.60
.0015	8.00	4.80	.01	15.25	9.15
.002	9.50	5.70			

Type 1995—10000v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.002	\$10.25	\$6.15	.005	\$14.50	\$8.70
.003	13.00	7.80			

Type 1996—12500v. Max. D.C.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$8.00	\$4.80	.001	\$8.00	\$4.80
.0001	8.00	4.80	.0015	9.50	5.70
.00025	8.00	4.80	.002	11.00	6.60
.0005	8.00	4.80	.003	15.25	9.15

HIGH-VOLTAGE MOLDED-IN-BAKELITE MICA CAPACITORS



Type 1450

1000v D.C. Test—600v D.C. Work.

Intended for the more critical service of low-powered transmitting circuits, buffer stages, power amplifiers, and laboratory equipment, etc. Non-magnetic parts are used to reduce r.f. losses to minimum, and heavy terminals provide minimum r.f. and contact resistance. Intended for point-to-point wiring, being supported entirely by its soldered connections. $1\frac{1}{4}" \times 1\frac{1}{4}"$. $\frac{5}{8}"$ or $\frac{3}{4}"$ thick (see below).

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00025	\$0.45	\$0.27	.005	\$0.70	\$0.42
.0003	.45	.27	.006	.80	.48
.00035	.45	.27	.008	.90	.54
.0004	.45	.27	.01	1.00	.60
.0005	.45	.27	.015*	1.35	.81
.001	.50	.30	.02*	1.45	.87
.0015	.55	.33	.025*	1.75	1.05
.002	.55	.33	.03*	2.05	1.23
.0025	.60	.36	.04*	2.65	1.59
.003	.70	.42	.05*	3.30	1.98
.004	.70	.42			

*600v D.C. Test—300v D.C. Working. 13/4" thick. All others 5/16".

Types 1455-57



Size $1\frac{1}{4}" \times 1\frac{1}{8}" \times \frac{1}{4}"$. Types 1455-57, have insulated mounting holes, independent of soldering lugs, for connections. $1\frac{1}{2}"$ spacing between mounting hole centers. If $1\frac{1}{8}"$ spacing is preferred specify Types 1445-47. Large meter-mounting brackets permitting use of this type of unit for shunting meter windings may be obtained at 45c added to list price. Specify by adding suffix (A) to type number. Small brackets are also available at 25c additional. Specify by suffix (E). Both brackets have universal slots for either mounting hole spacing. Standard tolerance $\pm 20\%$; for $\pm 10\%$ add 10% to list price; $\pm 5\%$ add 20%; $\pm 2\%$ add 75%.

Type 1455

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$0.70	\$0.42	.0025	\$0.90	\$0.54
.0001	.70	.42	.003	1.00	.60
.00015	.70	.42	.004	1.00	.60
.0002	.70	.42	.005	1.00	.60
.00025	.70	.42	.006	1.20	.72
.0003	.70	.42	.008	1.40	.84
.00035	.70	.42	.01	1.60	.96
.0004	.70	.42	.015	1.80	1.08
.0005	.70	.42	.02	2.20	1.32
.0001	.70	.42	.025	2.65	1.59
.0015	.70	.42	.03	2.95	1.77
.002	.80	.48			

Type 1456

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$1.00	\$0.60	.0015	\$1.60	\$0.96
.0001	1.00	.60	.002	1.90	1.14
.00015	1.00	.60	.0025	2.00	1.20
.0002	1.00	.60	.003	2.10	1.26
.00025	1.00	.60	.004	2.10	1.26
.0003	1.00	.60	.005	2.40	1.44
.00035	1.00	.60	.006	2.40	1.44
.0004	1.00	.60	.008	3.10	1.86
.0005	1.00	.60	.01	3.90	2.34
.001	1.25	.75			

Type 1457

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$1.25	\$0.75	.0004	\$1.65	\$0.99
.000075	1.25	.75	.0005	1.70	1.02
.0001	1.25	.75	.001	2.05	1.23
.00015	1.30	.78	.0015	2.70	1.62
.0002	1.40	.84	.002	3.10	1.86
.00025	1.50	.90	.0025	3.45	2.07
.0003	1.55	.93	.003	3.80	2.28
.00035	1.60	.96			

Types 1650-54

Heaviest-duty molded in bakelite mica capacitors of the AEROVOX line. Provided with threaded holes taking the roundhead screw terminals. Also available with plain holes through which screws or rods may be slipped. Same price as 1650 series, but specify 1650A, etc. when later is desired. $\frac{1}{4}"$ or $\frac{3}{8}"$ thick (see * below). Types 1650, 1651 and 1652 are supplied in brown bakelite. Types 1653L and 1654L are supplied only in low-loss (yellow) XM Bakelite. Standard tolerance $\pm 20\%$; for $\pm 10\%$ add 10% to list price; $\pm 5\%$ add 20%; $\pm 2\%$ add 75%.

Type 1650

1000v D.C. Test—600v D.C. Work. 700v A.C. Test—350v A.C. Work.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$0.85	\$0.50	.004	\$1.20	\$0.72
.0001	.85	.51	.005	1.20	.72
.00025	.85	.51	.006	1.40	.84
.0003	.85	.51	.008	1.65	.99
.00035	.85	.51	.01	1.95	1.17
.0004	.85	.51	.015	2.25	1.35
.0005	.85	.51	.02	2.60	1.56
.001	.85	.51	.025	3.20	1.92
.0015	.90	.54	.03	3.45	2.07
.002	.90	.54	.04*	4.50	2.70
.0025	1.00	.60	.05*	5.35	3.21
.003	1.20	.72	.06*	6.20	3.72

Type 1651

2500v D.C. Test—1250v D.C. Work. 1750v A.C. Test—875v A.C. Work.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00005	\$1.00	\$0.60	.003	\$2.20	\$1.32
.0001	1.00	.60	.004	2.20	1.32
.00025	1.00	.60	.005	2.40	1.44
.0003	1.00	.60	.006	2.40	1.44
.00035	1.00	.60	.008	3.10	1.86
.0004	1.00	.60	.01	3.90	2.34
.0005	1.00	.60	.015	4.65	2.79
.001	1.25	.75	.		

AEROVOX

Mica Capacitors

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SILVERED MICA CAPACITORS

For most critical applications where precise capacity values must be attained and maintained, AEROVOX silvered mica units are generally available. Encased in red molded XM bakelite. Similar in external appearance to standard bakelite molded mica units.

Unique construction. Only plus .0022 per degree F.—a remarkably low temperature coefficient. Excellent retrace characteristics. Practically no capacity drift with time. Exceptionally high "Q". Mechanically protected against physical damage and changes in electrical characteristics due to varying atmospheric conditions. Wax impregnated externally. Ideal for use in circuits where inductance and capacity product must remain constant under all operating conditions. Specifically designed for use in push-button tuning, oscillator padding circuits, fixed tuned circuits, and as capacitance standards, etc., where accuracy and stability are of prime importance.

Standard tolerance $\pm 5\%$. For $\pm 20\%$ deduct 10% from price. For $\pm 10\%$ deduct 5%. For $\pm 3\%$ add 10%. For $\pm 2\%$ add 15%. For $\pm 1\%$ add 25%.



TYPE 1464—1000v. D.C. TEST
Size $\frac{3}{16}$ in. square. Provided with wire leads. *600v. D.C. test.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.00075	\$0.90	\$0.54	.002	\$1.35	\$0.81
.0008	.95	.57	.0025	1.80	1.08
.0009	1.00	.60	.003*	2.05	1.23
.001	1.10	.66	.004*	2.15	1.29
.0015	1.35	.81	.005*	2.25	1.35



TYPE 1469—1000v. D.C. TEST
Size $\frac{3}{16}$ " x $\frac{3}{16}$ ". Provided with wire leads.

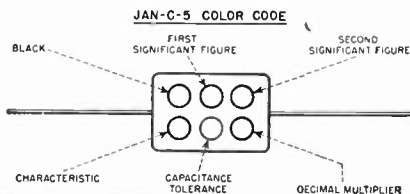
Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.000005	\$0.55	\$0.33	.00015	\$0.45	\$0.27
.00001	.40	.24	.0002	.45	.27
.000025	.40	.24	.00025	.45	.27
.00004	.40	.24	.0003	.55	.33
.00005	.40	.24	.00035	.60	.36
.00007	.40	.24	.0004	.65	.39
.000075	.40	.24	.0005	.70	.42
.0001	.40	.24			



TYPE 1479—1000v. D.C. TEST
Size $1\frac{1}{16}$ " x $1\frac{1}{16}$ ". Provided with wire leads.

Cap. Mfd.	List Price	Net Price	Cap. Mfd.	List Price	Net Price
.0001	\$0.40	\$0.24	.0005	\$0.70	\$0.42
.00015	.45	.27	.0007	.85	.51
.0002	.45	.27	.00075	.90	.54
.00025	.45	.27	.0008	.95	.57
.0003	.55	.33	.0009	1.00	.60
.00035	.60	.36	.001	1.10	.66
.0004	.65	.39			

MICA CAPACITOR COLOR CODES



Color	Figure or Multiplier	Characteristic Letter	Tolerance	Color	Figure or Multiplier	Characteristic Letter	Tolerance
Black	0	A	20% (M)	Blue	6	G	...
Brown	1	B	...	Violet	7	...	...
Red	2	C	2% (G)	Gray	8	...	...
Orange	3	D	...	White	9	...	...
Yellow	4	E	...	Gold	.1	...	...
Green	5	F	...	Silver	.01	...	10% (K)

CHARACTERISTIC LETTERS

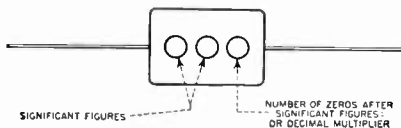
Characteristic	Q	Temperature Coefficient Parts / Million / deg. C	Maximum Capacitance Drift (F-6)	Verification of Characteristics by Production Test
A	Not specified	Not specified	Not specified	Not required
B	[As specified in D-5c (1)]	Not specified	Not specified	Not required
C	"	-200 to +200	0.5 per cent	Not required
D	"	-100 to +100	0.2 per cent	Not required
E	"	0 to +100	0.05 per cent	Not required
F	"	0 to +50	0.025 per cent	Required
G	"	0 to -50	0.025 per cent	Required

Type No.	AEROVOX No. & Remarks	Type No.	AEROVOX No. & Remarks
CM20	1468, 1469	CM56	1652A thin
CM25	1478, 1479		(up to .0043 mfd., incl.)
CM30	1464, 1467	CM56	1651A thin
CM35	1464, 1467		(.0047 to .013 mfd., incl.)
	(500 v. DCW up to .0083 mfd. incl.)	CM56	1650A thin
CM40	1441W or 1441WR		(.015 to .033 mfd., incl.)
	(500 v. DCW up to .0082 mfd. incl.)	CM60	1652 thick
CM45	1447 thin		(up to .012 mfd., incl.)
	(up to .0018 mfd., incl.)	CM60	1651 thick
CM45	1446 thin		(.018 to .033 mfd., incl.)
	(.002 to .0036 mfd., incl.)	CM60	1650 thick
CM45	1445 thin		(.036 to .047 mfd., incl.)
	(.0039 to .01 mfd., incl.)	CM61	1652A thick
CM50	1447 thick		(up to .012 mfd., incl.)
	(.002 to .0051 mfd., incl.)	CM61	1651A thick
CM50	1446 thick		(.018 to .033 mfd., incl.)
	(.0056 to .011 mfd., incl.)	CM61	1650A thick
CM50	1445 thick		(.036 to .047 mfd., incl.)
	(.012 to .027 mfd., incl.)	CM65	1570
CM55	1652 thin	CM70	1550
	(up to .0013 mfd., incl.)	CM75	1930
CM55	1651 thin	CM80	1960
	(.0047 to .013 mfd., incl.)	CM85	1970
CM55	1650 thin	CM90	1980
	(.015 to .033 mfd., incl.)	CM95	1910

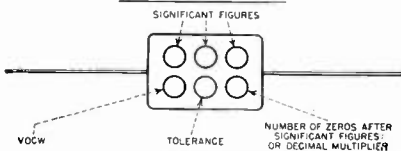
RMA COLOR CODE

THREE DOT RMA COLOR CODE

USED FOR 500 VDCW CAPACITORS WHOSE TOLERANCE IS GREATER THAN 10%



SIX DOT RMA COLOR CODE



Color	Significant Figure, or No. of Zeros, or Decimal Multiplier	VDCW	Tolerance	Color	Significant Figure, or No. of Zeros, or Decimal Multiplier	VDCW	Tolerance
Black	0	...	...	Violet	7	700	7%
Brown	1	200	1%	Gray	8	800	8%
Red	2	300	2%	White	9	900	9%
Orange	3	300	3%	Gold	.1	1000	5%
Yellow	4	400	4%	Silver	.01	2000	10%
Green	5	500	5%	None	..	500	20%
Blue	6	600	6%				

Commercial Grade MICA TRANSMITTING CAPACITORS

- Extra-heavy-duty Capacitors for
- Commercial Communication Companies
- Broadcasters
- Builders of Quality Radio and Electronic Equipment
- Amateurs, Experimenters

With these capacitors Aerovox is contributing its share towards narrowing still more the small remaining gap between professional and amateur radio practices.

Due to the normally limited demand for these extra-heavy-duty mica capacitors, as well as the considerable number of capacitance and voltage ratings in which they are made, this line is made to special order. However, your Authorized Aerovox Jobber is now able to order these commercial-grade capacitors for you.

Consult your Aerovox Jobber for specifications and quotations.

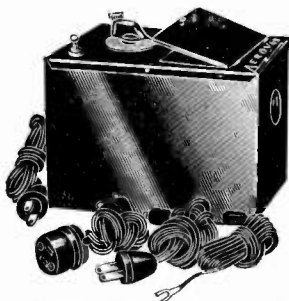


AEROVOX

Interference Filters and Auto-Radio CONDENSERS

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

AEROVOX INTERFERENCE FILTER SELECTOR



TYPE ANL-37

Plugs between interfering device and outlet. Selector switch adjusted until noise is eliminated or minimized. Dial indicates which type filter to use. Handsome, sturdy metal cabinet. Compartment contains necessary test leads and attachment plugs and clips. Size 5 1/2 x 5 1/2 x 8 inches.

TYPE ANL-37

Dealers Net Price.....\$17.50

AEROVOX Type IN-23



For elimination of interference caused by neon lamps or fractional horsepower motors. Mounting bracket for attaching to neon fixture (one eliminator needed for each fixture) or for attaching to frame of motor. Flexible leads for connecting across motors such as in hair-driers, fans, mixers, etc. .5-.5 mfd. 1 x 2 1/2 in.

TYPE IN-23

List Price \$1.25 Net Price \$0.75

AEROVOX Type IN-27



Simple, inexpensive noise filter. Inserted between set and outlet when interference is slight. Also used with appliance causing low-intensity interference. Keeps troublesome noises out of house wiring and power line. Size 1 3/8 x 1 1/2 inches.

TYPE IN-27

List Price \$1.50 Net Price \$0.90



AEROVOX Type IN-28

Intended for cases where ground is considerable distance from point of application. Most efficient when mounted directly on interfering device by bracket. Size 1 3/8 x 2 inches.

TYPE IN-28

List Price \$2.00 Net Price \$1.20

AEROVOX Type IN-29



Provides additional filtering action over IN-27 and IN-28. Especially effective for local sources of interference of variable character but strong intensity. Very effective for electric razor and other vibrating devices. Plugs between device and line. Size 1 3/8 x 3 inches.

TYPE IN-29

List Price \$1.75 Net Price \$1.05

AEROVOX Type IN-30



Similar to IN-29 but with additional inductance. Handles more severe interference. Plugs between set and outlet, or preferably between noisy appliance and outlet. Size 1 3/8 x 3 inches.

TYPE IN-30

List Price \$2.50 Net Price \$1.50

AEROVOX Type IN-31



Plugs in between attachment cord and electric outlet, either of set or preferably at appliance. Additional inductance for better filtering. Works best mounted by bracket directly on interfering appliance. Size 1 3/8 x 3 inches.

TYPE IN-31

List Price \$3.00 Net Price \$1.80



AEROVOX Type IN-42

Designed for use in the more serious cases of radio interference from power lines and appliances. Provided with inductance as well as capacitance for thorough filtering action. Plugs into electric outlet. Radio set or interfering device plugs into receptacle of the filter. Recommended for use between interfering device and power line. Size 2 1/2" x 3 3/4". Provided with mounting ring. Rated at 6 amps. for 110-220v. A.C..

TYPE IN-42

List Price \$7.50 Net Price \$4.50

AUTO-RADIO CONDENSERS

SUPPRESSOR CONDENSERS



Type	Cap. Mfd.	List Price	Net Price
1120	1.0	\$0.90	\$0.54
1140	0.5	.65	.39

Dual-Section

SUPPRESSOR CONDENSERS



Type	Cap. Mfd.	List Price	Net Price
1141	.5-.5	\$1.25	\$0.75

MOTOROLA Replacement Condenser

For Models 65 and 70 (Part No. 3321)



Consists of two Aerovox Type 1466 Mica Capacitors rated at .0008 mfd., 2500 volts D.C. Test.

List Price (complete).....\$0.65
Net Price\$0.39

SUPPRESSOR CONDENSERS FOR FORD AUTO RADIOS



Type	Cap. Mfd.	List Price	Net Price
1144	.5	\$0.65	\$0.39



For 1936 Models

Type	Cap. Mfd.	List Price	Net Price
1150	.5	\$0.85	\$0.51

TUBULAR VIBRATOR CONDENSERS

Aerolene Impregnated



Type	Cap. Mfd.	List Price	Net Price
1688	.005	\$0.55	\$0.33
1688	.006	.55	.33
1688	.01	.60	.36
1688	.02	.60	.36

GAS GAUGE FILTER CONDENSER

Type 1143-G



Cap. Mfd.	List Price	Net Price
.05	\$0.65	\$0.39

AMMETER CONDENSERS



Type	Cap. Mfd.	List Price	Net Price
1160	.5	\$0.65	\$0.39

OIL GAUGE FILTER CONDENSER



Type 1142-0

Cap. Mfd.	List Price	Net Price
.25	\$0.60	\$0.36

AEROVOX

Paper Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

TUBULAR PAPER CAPACITORS



Type 84

Aerovox cartridge capacitors 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.

Types and D.C.W. Voltages

Type 484 400v.			Type 684 600v.		
Cap. Mfds.	List Price	Sug. Resale Price	List Price	Sug. Resale Price	
.001	\$0.23	\$0.14	\$0.23	\$0.14	
.002	.23	.14	.23	.14	
.003	.23	.14	.23	.14	
.004	.23	.14	.23	.14	
.005	.23	.14	.23	.14	
.006	.23	.14	.23	.14	
.0075	.23	.14	.27	.16	
.01	.23	.14	.27	.16	
.015	.23	.14	.27	.16	
.02	.23	.14	.27	.16	
.025	.27	.16	.32	.19	
.03	.27	.16	.32	.19	
.05	.27	.16	.38	.22	
.06	.32	.19	.36	.22	
.075	.32	.19	.41	.25	
.1	.32	.19	.41	.25	
.15	.36	.22	.45	.27	
.2	.36	.22	.50	.30	
.25	.41	.25	.50	.30	
.5	.54	.32	.72	.43	
1.0	.81	.49	1.13	.68	

Type 1084 1000v.			Type 1684 1600v.		
Cap. Mfds.	List Price	Sug. Resale Price	List Price	Sug. Resale Price	
.001	\$0.45	\$0.27	\$0.50	\$0.30	
.002	.45	.27	.50	.30	
.003	.45	.27	.50	.30	
.004	.45	.27	.50	.30	
.005	.45	.27	.50	.30	
.006	.45	.27	.54	.32	
.0075	.45	.27	.54	.32	
.01	.45	.27	.54	.32	
.015	.45	.27	.54	.32	
.02	.45	.27	.54	.32	
.025	.45	.27	.54	.32	
.03	.54	.32	.63	.38	
.05	.54	.32	.68	.41	
.06	.54	.32	.72	.43	
.075	.63	.38	.81	.49	
.1	.68	.41			
.15	.81	.49			
.2	.90	.54			
.25	1.04	.62			

METAL-CASED Ultra-Compact PAPER CAPACITORS



Type 80

Ultra-compact heavy-duty capacitors. Wax-impregnated, wax-filled. Used as replacements in sound equipment, high power radio receivers, electronic devices, and communication equipment. Housed in a rust-proof container with soldering terminals conveniently located.

Type 1080—1000v. D.C. Work.

Cap. Mfds.	Size-Ins. D. W. L.	List Price	Net Price
.5	1 1/4 x 1 1/4 x 2	\$2.25	\$1.35
1.0	1 1/4 x 1 1/4 x 2	3.15	1.89
2.0	2 1/2 x 1 1/4 x 2	4.85	2.91
4.0	2 1/2 x 2 1/4 x 2	7.85	4.71

DRAWN-CASE OIL FILLED "HYVOL" CAPACITORS Type 30



For applications requiring a compact superior-grade oil-impregnated, oil-filled capacitor. Non-inductive paper sections encased in a one-piece drawn metal case with soldered bottom plate for hermetic seal. Absolutely immersion-proof terminal assembly. Meets severe operating conditions encountered in aircraft, police, broadcast, p.a., and other types of communications equipment.

TYPE 430-400 V.D.C.W.

Cap. Mfds.	L x W x H	List Price	Net Price
.05	1 1/2 x 1 x 3/4	\$1.75	\$1.05
.1	1 3/4 x 1 x 3/4	2.00	1.20
.25	1 3/4 x 1 x 1 1/8	2.25	1.35
.5	1 3/4 x 1 x 1 1/2	2.40	1.44
.75	2 1/8 x 1 1/4 x 3/4	2.70	1.62
1.0	2 1/8 x 1 1/4 x 3/4	2.85	1.71
2.0	2 x 2 x 1 1/4	3.60	2.16
.05-.05	1 3/4 x 1 x 1 1/8	2.75	1.65
.1-.1	1 3/4 x 1 x 1 1/8	3.00	1.80
.25-.25	1 3/4 x 1 1/4 x 3/4	3.25	1.95
.5-.5	2 x 1 3/4 x 1 1/8	3.75	2.25
1.0-1.0	2 x 2 x 1 1/4	4.50	2.70
.05-.05-.05	1 3/4 x 1 x 1 1/8	3.50	2.10
.1-.1-.1	1 3/4 x 1 x 1 1/8	3.65	2.19
.25-.25-.25	2 x 1 3/4 x 3/4	4.00	2.40

Type 630—600v D.C. Working

Cap. Mfds.	L x W x H	List Price	Net Price
.05	1 3/4 x 1 x 3/4	\$2.60	\$1.56
.1	1 3/4 x 1 x 3/4	2.65	1.59
.25	1 3/4 x 1 x 1 1/8	2.80	1.68
.5	1 3/4 x 1 x 1 1/2	3.00	1.80
.75	2 1/8 x 1 1/4 x 3/4	3.20	1.92
1.0	2 x 1 3/4 x 3/4	3.40	2.04
2.0	2 x 2 x 1 1/4	4.55	2.73
.05-.05	1 3/4 x 1 x 1 1/8	3.30	1.98
.1-.1	1 3/4 x 1 x 1 1/8	3.35	2.01
.25-.25	1 3/4 x 1 1/4 x 3/4	3.40	2.04
.5-.5	2 x 1 3/4 x 3/4	3.90	2.34
1.0-1.0	2 x 2 x 1 1/4	4.80	2.88
.05-.05-.05	1 3/4 x 1 x 1 1/8	3.70	2.22
.1-.1-.1	1 3/4 x 1 x 1 1/8	3.80	2.28
.25-.25-.25	2 x 1 3/4 x 3/4	4.30	2.58

Type 1030—1000v D.C. Working

Cap. Mfds.	L x W x H	List Price	Net Price
.05	1 3/4 x 1 x 3/4	\$2.75	\$1.65
.1	1 3/4 x 1 x 3/4	2.85	1.71
.25	1 3/4 x 1 x 1 1/8	2.95	1.77
.5	2 1/8 x 1 1/4 x 3/4	3.20	1.92
.75	2 x 1 3/4 x 3/4	3.80	2.28
1.0	2 x 1 3/4 x 1	4.00	2.40
.05-.05	1 3/4 x 1 x 1 1/8	3.50	2.10
.1-.1	1 3/4 x 1 x 1 1/8	3.60	2.16
.25-.25	2 1/8 x 1 1/4 x 3/4	3.80	2.28
.5-.5	2 x 1 3/4 x 1	4.95	2.97
.05-.05-.05	1 3/4 x 1 x 1 1/8	3.85	2.31
.1-.1-.1	1 3/4 x 1 1/4 x 3/4	4.15	2.49
.25-.25-.25	2 x 2 x 1	5.00	3.00

UNCASED PAPER CAPACITORS Type UC



Non-inductively wound high grade, ultra-compact, uncase sections, neatly shaped and wrapped in black varnished paper with ends sealed with pitch and provided with insulated wire leads, eight inches long. Designed for replacement use in filter block repair work.

TYPE UC200-200 V.D.C.W.

Cap. Mfds.	Size-Ins. L. x W. x D.	List Price	Net Price
.1	2 x 3/4 x 1/4	\$0.65	\$0.39
.25	2 x 1 x 1/4	.70	.42
.5	2 x 1 x 1/2	.75	.45
1.0	2 x 1 3/4 x 1 1/8	1.00	.60

MIDGET TUBULAR METAL-CASED "HYVOL" CAPACITORS Type 38



These units are hermetically-sealed and are exceptionally compact. Originally designed as alternates for mica capacitors but have since become a standard item in the Aerovox oil-filled capacitor line. Not only used as replacements in existing equipment, but are especially suitable for newly-designed equipment particularly where allowable weight of the finished assembly and allotted space is at a minimum. Despite unusual ultra-small size for oil-impregnated, oil-filled capacitors, constructional and electrical characteristics meet many of the exacting conditions to which molded-in-bakelite mica capacitors are normally subjected. Type 38 units are normally supplied with case insulated, and are provided with outer insulating tube.

Type 338T—300v D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price
.001	1/8 x 1 1/8	\$0.85	\$0.51
.002	1/8 x 1 1/8	.85	.51
.003	1/8 x 1 1/8	.85	.51
.005	1/8 x 1 1/8	.85	.51
.006	1/8 x 1 1/8	.85	.51
.0075	1/8 x 1 1/8	.85	.51
.01	1/8 x 1 1/8	.85	.51

Type 538T—500v D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price
.001	1/8 x 1 1/8	\$0.95	\$0.57
.002	1/8 x 1 1/8	.95	.57
.003	1/8 x 1 1/8	.95	.57
.005	1/8 x 1 1/8	.95	.57
.006	1/8 x 1 1/8	.95	.57
.0075	1/8 x 1 1/8	.95	.57
.01	1/8 x 1 1/8	.95	.57

Type 638T—600v D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price
.001	1/8 x 1 1/8	\$0.95	\$0.57
.002	1/8 x 1 1/8	.95	.57
.003	1/8 x 1 1/8	.95	.57
.005	1/8 x 1 1/8	.95	.57
.006	1/8 x 1 1/8	.95	.57
.0075	1/8 x 1 1/8	.95	.57
.01	1/8 x 1 1/8	.95	.57

Type 838T—800v D.C. Working

Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price
.001	1/8 x 1 1/8	\$1.05	\$0.63
.002	1/8 x 1 1/8	1.05	.63
.003	1/8 x 1 1/8	1.05	.63
.005	1/8 x 1 1/8	1.05	.63

TUBULAR CAPACITORS OIL-IMPREGNATED OIL-FILLED Type 89



Immersion-proof, oil-impregnated, oil-filled units in handy, space-saving tubular form. Ideal for use in vibrator applications, coupling and by-pass functions in transmitters, high-voltage amplifiers, in r.f. by-pass circuits, interference eliminators for motors and generators, and in test equipment. Fully sealed against oil leakage or moisture penetration. Case is insulated, not connected to the capacitor section. Mounting strap and outer insulating tube are supplied.

Types and D.C.W. Voltages

Cap. Mfd.	List Price	Net Price	Price List	Price Net
.015	\$0.95b	\$0.57	\$1.00c	\$0.60
.02	1.00b	.60	1.05c	.63
.03	1.05c	.63	1.10c	.66
.04	1.05c	.63	1.10c	.66
.05	1.05c	.63	1.10d	.66
.075	1.10d	.66	1.20f	.72
.1	1.15d	.69	1.25f	.75
.25	1.45f	.87	1.70h	1.02
.5	1.70k	1.02		

1089-1000 2089-2000

Cap. Mfd.	List Price	Net Price	Price List	Price Net
.006	\$1.10a	\$0.66	\$1.25e	\$0.75
.0075	1.10b	.66	1.25e	.75
.01	1.10c	.66	1.25e	.75
.015	1.20c	.72	1.30f	.78
.02	1.20c	.72	1.35g	.81
.03	1.20d	.72	1.40g	.84
.04	1.20d	.72	1.40g	.84
.05	1.30d	.78	1.45g	.87
.075	1.40f	.84		
.1	1.50f	.90		

Sizes—Type 89

a—1/8 x 1 1/8	f—1 1/8 x 2 1/8
b—1/8 x 1 1/8	g—1 1/8 x 2 1/8
c—1/8 x 1 1/8	h—1 1/8 x 2 1/8
d—1/8 x 2 1/8	k—1 1/8 x 2 1/8
e—1/8 x 1 1/8	

COMPACT ENERGY-STORAGE CAPACITORS TYPE PX



For high-speed flash photography, capacitor discharge welding, flash signaling equipment, pulsing and other energy storage uses requiring extremely high currents during short discharge periods. Compact, minimum weight, solder lug terminals, terne plate containers.

22.5 WATT SECONDS

V.D.C. PEAK	Cap. Mfd.	Type No.	List Price	Net Price
1500	20	PX10D1	\$14.00	\$ 9.80

50.0 WATT SECONDS

2000	28	PX14D3	\$20.00	\$14.00
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75.0 WATT SECONDS

2500	24	PX14D2	\$20.00	\$14.00
3000	16	PX18D1	23.00	16.10

100.0 WATT SECONDS

2500	30	PX15D1B	\$34.00	\$23.80
4000	12.5	PX20D1	22.00	15.40

PX10D1 dimensions 2 1/8" x 3 3/8" x 4 1/8"
PX15D1B dimensions 4 1/8" x 3 3/8" x 6 1/8"
ALL OTHERS 4 1/8" x 3 3/8" x 4 1/8" high.

AEROVOX

Paper Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

AEROVOX "HYVOL" OIL-IMPREGNATED OIL-FILLED CAPACITORS

In Round Aluminum Cans
Type 05



Convenient round can, provided with ring mounting. High-voltage pillar terminals. Hermetically sealed in leak-proof containers. Very conservative ratings for continuous operation.

Type 605-600v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 x 2 3/4	\$3.80	\$2.28	
2	2 x 2 3/4	4.95	2.97	
4	2 x 3 3/4	6.85	4.11	

Type 1005-1000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 x 3 3/4	\$4.20	\$2.52	
2	2 x 4 3/4	5.70	3.42	
4	2 1/2 x 4 3/4	7.25	4.35	

Type 1505-1500v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 x 3 3/4	\$5.30	\$3.18	
2	2 x 4 3/4	7.25	4.35	
4	2 1/2 x 4 3/4	9.50	5.70	

Type 2005-2000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 x 4 3/4	\$6.85	\$4.11	
2	2 x 5 3/4	7.60	4.56	

Type 2505-2500v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 1/2 x 4 3/4	\$9.15	\$5.49	
2	2 1/2 x 5 3/4	15.00	9.00	

Type 3005-3000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
1	2 1/2 x 4 3/4	\$13.75	\$8.25	
2	3 x 5 3/4	16.75	10.05	

AEROVOX "HYVOL" VERTICAL-MOUNTING HIGH-VOLTAGE CAPACITORS

Type 14



Particularly applicable for use in high-voltage filter circuits such as cathode-ray tube power supplies, high-voltage by-pass circuits in transmitters and high-powered public address equipment. Type 14 units are made in the standard 1 1/2" diameter. Grounded can, with one-piece immersion - proof molded-bakelite pillar insulator which provides maximum spacing between live terminal and can. Mounting ring furnished for upright or inverted mounting.

Type 2014-2000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
.01	1 1/2 x 2 1/4	\$6.00	\$3.60	
.05	1 1/2 x 2 1/4	6.85	3.99	
.1	1 1/2 x 2 1/4	7.00	4.20	
.25	1 1/2 x 3 1/4	7.60	4.56	

Type 3014-3000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-High	List Price	Net Price	
.01	1 1/2 x 2 1/4	\$7.50	\$4.50	
.05	1 1/2 x 2 1/4	8.00	4.80	
.1	1 1/2 x 2 1/4	8.50	5.10	
.25	1 1/2 x 3 1/4	9.50	5.70	

AEROVOX "HYVOL" OIL-IMPREGNATED OIL-FILLED CAPACITORS

In Round Aluminum Cans
—Inverted Mounting
Type 10



This is an improved design, replacing the former single terminal type. This new design is physically interchangeable with the old. Ideal for crowded assemblies; a logical choice in filter circuits of power supplies, high-gain high-fidelity amplifiers, and small transmitters. Hermetically-sealed. Has one-piece molded bakelite terminal assembly. Both terminal lugs are insulated from container.

Type 610-600v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
2	1 1/2 x 3 1/2	\$4.15	\$2.49	
4	1 1/2 x 5 1/4	5.70	3.42	

Type 1010-1000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
1	1 1/2 x 2 1/2	\$3.80	\$2.28	
2	1 1/2 x 4 1/2	4.95	2.97	

Type 1510-1500v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.5	1 1/2 x 2 1/2	\$4.55	\$2.73	
1	1 1/2 x 4 1/2	4.95	2.97	

AEROVOX "HYVOL" VERTICAL-MOUNTING HIGH-VOLTAGE CAPACITORS OIL-IMPREGNATED OIL-FILLED Type 12



This is an immersion - proof capacitor designed to meet high - voltage operating requirements. Suitable for such high - voltage circuit applications as in television, cathode-ray tube power supplies, high-voltage rectifiers, or, as a high-voltage by-pass capacitor. Recommended where long leakage path between terminals is required. Barrier in bakelite top increases insulation and creepage path between terminals. For certain applications, the ceramic insulators may be removed if desired. Supplied with adjustable mounting ring for vertical mounting.

Type 2012-2000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
1.0	2 1/4 x 3 3/4	\$7.35	\$4.41	
2.0	2 1/4 x 5 1/4	9.10	5.46	

Type 3012-3000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.05	2 1/4 x 2 1/4	\$9.50	\$5.70	
.1	2 1/4 x 2 1/4	10.00	6.00	
.25	2 1/4 x 3 3/4	11.00	6.60	
.5	2 1/4 x 3 3/4	12.00	7.20	
1.0	2 1/4 x 5 1/4	15.25	9.15	

Type 4012-4000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.05	2 1/4 x 2 1/4	\$9.00	\$5.40	
.1	2 1/4 x 3 3/4	9.50	5.70	
.25	2 1/4 x 5 1/4	10.50	6.30	

Type 6012-6000v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.03	2 1/4 x 2 1/4	\$12.00	\$7.20	
.05	2 1/4 x 3 3/4	13.50	8.10	
.1	2 1/4 x 5 1/4	16.50	9.90	

Type 7512-7500v. D.C.W.				
Cap. Mfds.	Size-Ins. Dia.-Hgt.	List Price	Net Price	
.01	2 1/4 x 3 3/4	\$12.00	\$7.20	
.02	2 1/4 x 3 3/4	13.00	7.80	
.03	2 1/4 x 3 3/4	14.00	8.40	
.05	2 1/4 x 4 1/4	15.50	9.30	
.1	2 1/4 x 4 1/4	19.00	11.40	

AEROVOX "HYVOL" OIL-IMPREGNATED OIL-FILLED CAPACITORS In Rectangular Metal Cans

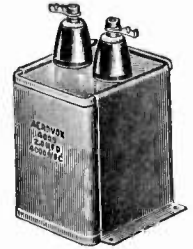
Type 09



Type 09 (Basic)



Type 09MB (Mounting Bracket)



Type 09MS (Strap Mounting)

Hermetically-sealed in sturdy can, leakproof and seepageproof. High tension pillar terminals fitted with locknuts and soldering lugs. Exceptionally compact dimensions for given capacity, working voltage—and safety factor due to use of "Hyvol." Intended for heavy-duty continuous service in transmitters,

amplifiers, etc. Type MB bracket is normally supplied as standard equipment, unless otherwise specified, on all units having base sizes other than 3 3/4" x 3 3/4" and 8 3/4" x 4 3/4". Type MS is normally supplied as standard with these latter base sizes.

Type 609-600v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.5	2 1/2 x 1 1/2 x 1 1/2	\$4.15	\$2.49
1.0	2 1/2 x 1 1/2 x 1 1/2	5.30	3.18
2.0	2 1/2 x 1 1/2 x 1 1/2	6.45	3.87
3.0	3 1/2 x 1 1/2 x 1 1/2	7.60	4.56
4.0	3 1/2 x 2 1/2 x 1 1/2	8.35	5.01
5.0	4 1/2 x 2 1/2 x 1 1/2	9.50	5.70
6.0	4 1/2 x 2 1/2 x 1 1/2	10.25	6.15
8.0	3 1/2 x 3 1/2 x 1 1/2	12.15	7.29
10.0	4 1/2 x 3 1/2 x 1 1/2	13.65	8.19
12.0	4 1/2 x 3 1/2 x 1 1/2	15.20	9.12
15.0	4 1/2 x 3 1/2 x 1 1/2	16.80	10.08

Type 1009-1000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.1	2 x 1 1/2 x 1 1/2	\$3.80	\$2.28
.25	2 1/2 x 1 1/2 x 1 1/2	4.15	2.49
.5	2 1/2 x 1 1/2 x 1 1/2	4.55	2.73
1.0	2 1/2 x 1 1/2 x 1 1/2	5.70	3.42
2.0	3 1/2 x 1 1/2 x 1 1/2	7.60	4.56
3.0	3 1/2 x 2 1/2 x 1 1/2	8.60	5.16
4.0	4 1/2 x 2 1/2 x 1 1/2	9.50	5.70
5.0	3 1/2 x 3 1/2 x 1 1/2	11.40	6.84
6.0	4 1/2 x 3 1/2 x 1 1/2	12.55	7.53
8.0	4 1/2 x 3 1/2 x 1 1/2	13.65	8.19
10.0	4 1/2 x 3 1/2 x 1 1/2	15.20	9.12
12.0	3 1/2 x 3 1/2 x 2 1/2	16.70	10.02
15.0	4 1/2 x 3 1/2 x 2 1/2	18.25	10.95

Type 1509-1500v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.5	2 1/2 x 1 1/2 x 1 1/2	\$6.05	\$3.63
1.0	4 x 1 1/2 x 1 1/2	6.85	4.11
2.0	4 1/2 x 2 1/2 x 1 1/2	9.50	5.70
3.0	4 1/2 x 2 1/2 x 1 1/2	11.40	6.84
4.0	4 1/2 x 3 1/2 x 1 1/2	12.90	7.74
5.0	4 1/2 x 3 1/2 x 1 1/2	13.65	8.19
6.0	4 1/2 x 3 1/2 x 1 1/2	15.55	9.33
8.0	4 1/2 x 3 1/2 x 2 1/2	19.00	11.40
10.0	4 1/2 x 3 1/2 x 3 1/2	22.80	13.68
12.0	4 1/2 x 3 1/2 x 3 1/2	25.05	15.03
15.0	4 1/2 x 3 1/2 x 4 1/2	27.35	16.41

Type 2009-2000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.1	2 x 1 1/2 x 1 1/2	\$6.05	\$3.63
.25	2 1/2 x 1 1/2 x 1 1/2	6.45	3.87
.5	2 1/2 x 1 1/2 x 1 1/2	6.85	4.11
1.0	3 1/2 x 2 1/2 x 1 1/2	8.35	5.01
2.0	4 x 3 1/2 x 1 1/2	9.90	5.94
3.0	4 1/2 x 3 1/2 x 1 1/2	12.15	7.29
4.0	3 1/2 x 3 1/2 x 2 1/2	13.65	8.19
5.0	4 1/2 x 3 1/2 x 2 1/2	15.20	9.12
6.0	4 1/2 x 3 1/2 x 3 1/2	17.85	10.71
8.0	4 1/2 x 3 1/2 x 3 1/2	22.80	13.68
10.0	4 1/2 x 3 1/2 x 4 1/2	28.10	16.86
12.0	5 1/2 x 3 1/2 x 4 1/2	30.40	18.24
15.0	6 1/2 x 3 1/2 x 4 1/2	36.70	22.02

Type 2509-2500v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.5	3 1/2 x 2 1/2 x 1 1/2	\$10.65	\$6.39
1.0	3 1/2 x 3 1/2 x 1 1/2	12.15	7.29
2.0	4 1/2 x 3 1/2 x 1 1/2	19.75	11.85
4.0	4 1/2 x 3 1/2 x 3 1/2	27.35	16.41
10.0	6 1/2 x 3 1/2 x 4 1/2	68.35	41.01

Type 3009-3000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.1	2 x 2 1/2 x 1 1/2	\$12.90	\$7.74
.25	2 1/2 x 2 1/2 x 1 1/2	13.65	8.19
.5	3 1/2 x 3 1/2 x 1 1/2	15.20	9.12
1.0	3 1/2 x 3 1/2 x 1 1/2	18.25	10.95
2.0	4 1/2 x 3 1/2 x 3 1/2	22.80	13.68
4.0	4 1/2 x 3 1/2 x 4 1/2	33.40	20.04

Type 4009-4000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.1	2 1/2 x 3 1/2 x 2 1/2	22.80	13.68
.25	2 1/2 x 3 1/2 x 2 1/2	24.30	14.58
.5	3 1/2 x 3 1/2 x 2 1/2	27.35	16.41
1.0	5 1/2 x 3 1/2 x 2 1/2	33.40	20.04
2.0	5 1/2 x 3 1/2 x 4 1/2	42.55	25.53
4.0	8 x 3 1/2 x 4 1/2	60.75	36.45

Type 5009-5000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
1	2 1/2 x 3 1/2 x 2 1/2	24.35	14.61
.25	3 1/2 x 3 1/2 x 2 1/2	27.55	16.53
.5	4 1/2 x 3 1/2 x 2 1/2	30.40	18.24
1.0	4 1/2 x 3 1/2 x 4 1/2	38.00	22.80
2.0	6 x 3 1/2 x 4 1/2	48.60	29.16

Type 6009-6000v. D.C.W.

Cap. Mfds.	Size-Ins. L. W. D.	List Price	Net Price
.1	3 1/2		

AEROVOX

Paper Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

HIGH-VOLTAGE TRANSMITTER TYPE D.C. CAPACITORS

Type 20

6,000v. D.C. Work. to 50,000v. D.C. Work.



These capacitors meet the exacting requirements of radio transmitter service and other applications requiring high-voltage, heavy-duty, transmitter-type oil capacitors. Available in ratings from 6000 volts to 50,000 volts D.C. working. These are single-section or parallel-section capacitors. Type 20 units are critically checked to close standards of physical and electrical perfection. Capacitor sections consist of multi-layered capacitor tissues and high-purity aluminum foil, uniformly and accurately wound under critically-controlled tension, then vacuum-impregnated with Aerovox Hyvol to insure stability of full-rated capacitance, even at zero temperatures. Welded steel containers finished in non-corrosive, dark grey lacquer. Heavy-duty porcelain insulator assembly is cork-gasketed and pressure sealed to prevent leakage of oil or entrance of moisture at the terminals. Single-section units rated at 30 KV or less are normally supplied with capacitor section insulated from ground. Additional information on Type 20 units rated at 37,500 volts and 50,000 volts, as well as voltage-doubler units rated at 25,000 volts output is available on application.

All Type 20 units are built to special order—not carried in stock. Submit full application information when ordering.

Type 6020—6000v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
2.0	11x 8x4	\$136.00	\$ 82.00
4.0	11x12x4	167.00	100.00
5.0	11x12x4	189.00	113.00
6.0	13x12x4	212.00	127.00
10.0	13x12x6	265.00	159.00

Type 7520—7500v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
0.5	11x 8x4	\$ 75.00	\$ 45.00
1.0	11x 8x4	98.00	59.00
2.0	11x 8x4	151.00	91.00
4.0	13x12x4	227.00	136.00
6.0	13x12x6	273.00	164.00

Type 10020—10,000v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
1.0	11x 8x4	\$197.00	\$118.00
2.0	11x12x4	250.00	150.00
4.0	13x12x6	303.00	182.00
5.0	13x12x6	334.00	200.00

Type 12520—12,500v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
0.5	11x 8x4	\$167.00	\$100.00
1.0	11x12x4	212.00	127.00
2.0	13x12x6	265.00	159.00
5.0	15x12x9½	501.00	300.00

Type 15020—15,000v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
0.25	11x 8x4	\$159.00	\$ 95.00
0.5	11x12x4	189.00	113.00
1.0	13x12x4	265.00	159.00
2.0	15x12x9½	349.00	209.00
3.0	15x12x9½	478.00	287.00

Type 20020—20,000v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
0.25	11x 8x4	\$189.00	\$113.00
0.5	11x12x4	243.00	145.00
1.0	13x12x6	326.00	195.00
1.5	15x12x9½	440.00	264.00
2.0	15x12x9½	524.00	314.00
4.0	15x14x16	919.00	551.00

Type 25020—25,000v. D.C.W.

Cap. Mfd.	Case Size—Ins. H x W x D	List Price	Net Price
0.2	11x12x4	\$197.00	\$118.00
0.25	11x12x4	265.00	159.00
0.5	13x12x6	288.00	173.00
1.0	15x12x9½	432.00	259.00

Type 37520—37,500v. D.C.W.

(Information supplied on application.)

Type 50020—50,000v. D.C.W.

(Information supplied on application.)

Type 12520 VD

25,000 Volts Output (12,500—12,500 Volts)—Dual Units
(Information supplied on application.)

COMPACT HERMETICALLY-SEALED OIL-IMPREGNATED, OIL-FILLED "HYVOL" CAPACITORS

Type 16T

(Terminals on Top)



Compact, oil-filled, hermetically-sealed units for use where least space and minimum weight are essential. Corrosion-proof metal container. Special immersion-proof terminals designed for equipment subjected to severe atmospheric and climatic conditions. Suitable for by-pass and filter applications in receivers and low-power transmitters.

Type 416T

400v. D.C. Working

Cap. Mfd.	H x W x D	List Price	Net Price
.01	1½x1½x1½	\$2.60	\$1.56
.05	1½x1½x1½	2.85	1.59
.1	1½x1½x1½	2.85	1.71
.25	1½x1½x1½	2.90	1.74
.5	1½x1½x1½	2.95	1.77
1.0	2½x1½x1½	3.30	1.98

Type 616T

600v. D.C. Working

Cap. Mfd.	H x W x D	List Price	Net Price
.01	1½x1½x1½	\$2.65	\$1.59
.05	1½x1½x1½	2.80	1.68
.1	1½x1½x1½	2.90	1.74
.25	1½x1½x1½	2.95	1.77
.5	2½x1½x1½	3.05	1.83
1.0	2½x1½x1½	3.40	2.04

Type 1016T

1000v. D.C. Working

Cap. Mfd.	H x W x D	List Price	Net Price
.01	1½x1½x1½	\$2.80	\$1.68
.05	1½x1½x1½	2.85	1.71
.1	1½x1½x1½	2.95	1.77
.25	1½x1½x1½	3.05	1.86
.5	2½x1½x1½	3.30	1.98

COMPACT HERMETICALLY-SEALED OIL-IMPREGNATED, OIL-FILLED "HYVOL" CAPACITORS

Type 18B

(Terminals on Bottom)



Compact, oil-filled, hermetically-sealed units. Type 18 is smaller in height and depth than Type 16. However, greater width makes Type 18 adaptable for applications where small-sized dual- and triple-section capacitors with three terminals are required. Otherwise, similar to Type 16 with respect to construction and application.

Type 418B 400v. D.C. Working Single Section Units

Cap. Mfd.	H x W x D	List Price	Net Price
.05	1 x1½x1½	\$2.85	\$1.71
.1	1 x1½x1½	2.95	1.77
.25	1½x1½x1½	3.05	1.83
.5	1½x1½x1½	3.15	1.89
1.0	2 x1½x1½	3.50	2.10

Dual-Section Units

.05-.05	1 x1½x1½	\$3.65	\$2.19
.1-.1	1½x1½x1½	3.75	2.25
.25-.25	1½x1½x1½	3.90	2.34
.5-.5	2 x1½x1½	4.25	2.55

Triple-Section Units

.05-.05-.05	1 x1½x1½	\$4.50	\$2.70
.1-.1-.1	1½x1½x1½	4.80	2.88
.25-.25-.25	2 x1½x1½	5.20	3.12

Type 618B

600v. D.C. Working

Single Section Units

.05	1 x1½x1½	\$2.90	\$1.74
.1	1 x1½x1½	3.05	1.83
.25	1½x1½x1½	3.15	1.89
.5	1½x1½x1½	3.35	2.01
1.0	2½x1½x1½	3.65	2.19

Dual-Section Units

.05-.05	1 x1½x1½	\$3.80	\$2.28
.1-.1	1½x1½x1½	3.90	2.34
.25-.25	1½x1½x1½	4.15	2.49
.5-.5	2½x1½x1½	4.50	2.70

Triple-Section Units

.05-.05-.05	1½x1½x1½	\$4.55	\$2.73
.1-.1-.1	1½x1½x1½	4.95	2.97
.25-.25-.25	1½x1½x1½	5.30	3.18

Type 1018B

1000v. D.C. Working

Single Section Units

.05	1 x1½x1½	\$3.05	\$1.83
.1	1 x1½x1½	3.15	1.89
.25	1½x1½x1½	3.30	1.98
.5	1½x1½x1½	3.50	2.10

Dual-Section Units

.05-.05	1½x1½x1½	\$4.15	\$2.49
.1-.1	1½x1½x1½	4.45	2.67
.25-.25	1½x1½x1½	4.55	2.73

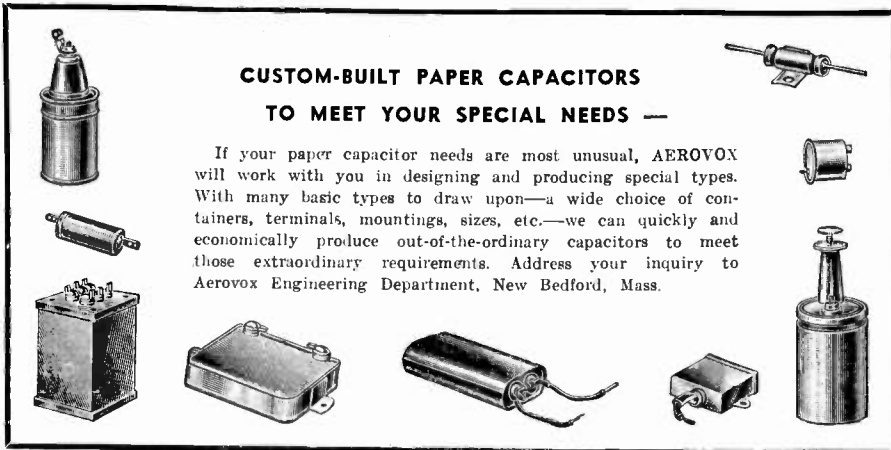
Triple-Section Units

.05-.05-.05	1½x1½x1½	\$4.95	\$2.97
.1-.1-.1	2½x1½x1½	5.30	3.18

CUSTOM-BUILT PAPER CAPACITORS

TO MEET YOUR SPECIAL NEEDS —

If your paper capacitor needs are most unusual, AEROVOX will work with you in designing and producing special types. With many basic types to draw upon—a wide choice of containers, terminals, mountings, sizes, etc.—we can quickly and economically produce out-of-the-ordinary capacitors to meet those extraordinary requirements. Address your inquiry to Aerovox Engineering Department, New Bedford, Mass.

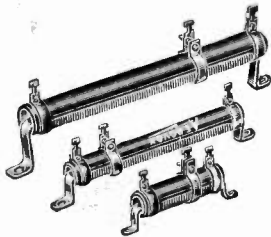


AEROVOX

Vitreous-Enameled and Carbon RESISTORS

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

"SLIDEOHM" Wire-Wound Vitreous-Enameled ADJUSTABLE RESISTORS



Adjustable resistors combining adjustment to any resistance value within unit's range, with positive, permanent, non-fluctuating qualities of wire-wound resistor. Each Slideohm resistor is provided with horizontal mounting brackets and one adjustable contact slider.

Type 952—25 Watts Size 3/8 x 2 inches

Ranges	List	Net
1-5000	each \$1.24	\$0.74
6000-10,000	.....	1.43 .85

Extra Slider Bands—13c ea., Net 7c

Type Resis. Ohms	952 25 Watts Cur. M.A.	954 50 Watts Cur. M.A.	956 75 Watts Cur. M.A.	957 100 Watts Cur. M.A.	958 200 Watts Cur. M.A.
1	5000				
3	2880				
5	2230	3160	3870	4470	6320
10	1580	2240	2740	3160	4470
15	1290		2240	2580	
20	1115				
25	1000	1410	1730	2000	2825
50	710	1000	1220	1410	2000
75	580	815	1000	1150	
100	500	705	865	1000	1400
150	410	575			
200	355	500	610		
250	315	445	550	680	900
300	290	405	500		
400	250	350	430		
500	225	315	385	445	630
750	180	260	315	365	
800		250	305		
850	170				
1000	160	225	275	315	450
1950	140	200	245		
1500	130	180	225	260	365
2000	110	160	195	225	315
2250	105	150			
2500	100	140	173	200	280
3000	90	130	158	180	260
3500	85	120	146	170	240
4000	80	110	137	160	225
4500	74	105	129	150	210
5000	70	100	122	140	200
6000	65	91	111	130	
7000	57	85	103		
7500	53		100	115	165
8000	50	79	97	110	
8500	47				
9000	44	75	91		
10,000	40	71	87	100	140
12,000		64			
15,000		58	71	80	115
20,000		48	61	70	100
25,000		40	55	60	90
30,000		33	50	50	82
35,000			43	43	71
40,000		25	37	37	62
50,000		20	30	30	50
60,000			25	25	42
70,000			21	21	
75,000				20	33
100,000					25
125,000					20
150,000					16

Type 954—50 Watts Size 3/8 x 4 1/2 inches

Ranges	List	Net
5-5000	each \$1.95	\$1.17
6000-25,000	.....	2.15 1.29
30,000-50,000	.....	2.47 1.48

Extra Slider Bands—13c ea., Net 7c

Type 956—75 Watts Size 3/8 x 6 1/2 inches

Ranges	List	Net
5-5000	each \$2.54	\$1.52
6000-25,000	.....	2.86 1.71
30,000-50,000	.....	3.25 1.95
60,000-70,000	.....	3.58 2.14

Extra Slider Bands—20c ea., Net 12c

Type 957—100 Watts Size 1 1/8 x 6 1/2 inches

Ranges	List	Net
5-5000	each \$2.86	\$1.71
6000-25,000	.....	3.25 1.95
30,000-50,000	.....	3.58 2.14
60,000-75,000	.....	3.90 2.34

Extra Slider Bands—20c ea., Net 12c

Type 958—200 Watts Size 1 1/8 x 10 1/2 inches

Ranges	List	Net
5-10,000	each \$4.29	\$2.57
15,000-100,000	.....	5.01 3.00
125,000-150,000	.....	5.33 3.19

Extra Slider Bands—20c ea., Net 12c

"PYROHM JUNIOR" Wire-Wound Vitreous-Enameled FIXED RESISTORS

Types 931 and 933



Compact, genuine wire-wound units. Covered with vitreous-enamel. Highest quality materials used throughout. Correctly designed. Note these features:

1. Crack-proof refractory tubing for the support. Adequate heat dissipation.
2. Quality resistance wire precisely space wound under tension.

3. Copper terminal band clamped to tubing. Wire ends wrapped about raised ear and brazed to same.

4. Heavy vitreous-enamel coating for permanent seal against moisture, oxidation and mechanical damage.

5. Pig-tail of stiff wire 2 in. long soldered to terminal band for positive, non-breakable connection.

Type 931—10 Watts Size—Ins. 1/8 x 1 3/8

Ranges	List	Net
1-10,000	\$0.59	\$0.35
12,000-50,000	.....	.65 .39

30,000 to 50,000 ohms, rated at 5 watts.

Stock Resistance Ranges

1	200	1750	12,000
2	250	2000	12,500
3	300	2500	13,500
4	350	2750	14,300
5	400	3000	15,000
7.5	450	3500	16,000
10	500	4000	17,500
12	600	4500	18,000
15	650	5000	20,000
20	700	5500	22,500
25	750	6000	25,000
30	800	7000	30,000
35	850	7500	35,000
40	900	8000	40,000
50	1000	8500	45,000
75	1100	9000	50,000
100	1200	10,000	
125	1250		
150	1400		
175	1500		

Type 933—20 Watts Size—Ins. 3/8 x 2

Ranges	List	Net
1-15,000	\$0.91	\$0.59
20,000-50,000	.....	1.11 .66
55,000-100,000	.....	1.43 .85

25,000-100,000 ohms rated at 7 watts.

Stock Resistance Ranges

1	650	3000	35,000
3	700	3500	40,000
5	750	4000	45,000
10	800	4500	50,000
15	850	5000	55,000
25	1000	6000	60,000
50	1200	7000	65,000
75	1250	7500	70,000
100	1500	8000	75,000
150	1750	10,000	80,000
175	1850	12,500	85,000
200	2000	13,000	90,000
250	2250	15,000	95,000
300	2400	20,000	100,000
350	2500	25,000	
400	2750	30,000	
500			

INSULATED MOLDED CARBON RESISTORS

Types 1097 and 1098



Small, noiseless, vibration-proof. Crack-proof molded casing around molded carbon resistance element. Tinned copper pig-tail leads 2 in. long. Resists humidity effects. Ideal for AVC circuits, high-gain amplifiers. RMA color-coded; stamped with resistance value. Precision tested. Standard tolerance 10%. These types may come thru for some time in slightly larger sizes until complete changeover is achieved.

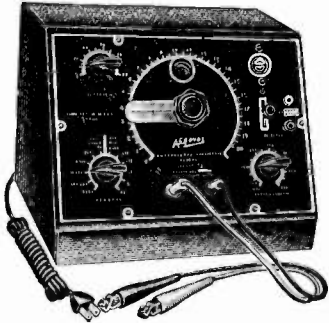
Stock Resistance Ranges—Ohms

10	750	11000	150000
15	800	12000	175000
20	900	12500	200000
25	1000	13000	250000
30	1250	14000	300000
40	1500	15000	400000
50	1750	17500	500000
60	2000	20000	600000
75	2250	22500	750000
100	2500	25000	1 Meg.
120	3000	30000	1 1/2 Meg.
150	3500	35000	2 Meg.
200	4000	40000	2 1/2 Meg.
250	5000	50000	3 Meg.
300	6000	60000	4 Meg.
350	7000	65000	5 Meg.
400	7500	70000	6 Meg.
450	8000	75000	7 Meg.
500	9000	100000	10 Meg.
600	10000	125000	20 Meg.

Types	Rating Watt	Size Ins.	List ea.	Net ea.
1098	1	1 1/4 x 3/8	\$.17	\$.10
1097	1/2	1/2 x 3/8	.13	.08

AEROVOX

TEST INSTRUMENTS



Model No. 76
\$44.75
Net, Each

AEROVOX CAPACITANCE AND RESISTANCE BRIDGE

AEROVOX MODEL 76 Resistance Capacitance Bridge is the new postwar general-utility instrument combining simplicity of operation, remarkable degree of accuracy, and modest price. Extreme ruggedness makes it equally suitable out on the job, in the shop, or in the laboratory.

Sloping panel 10" x 6". Aluminum, etched and anodized. Steel cabinet, black crackle finish. All readings taken from main 4" dial. Same calibrated scale eliminates trouble and chances for errors in reading. Linear scale, also an exclusive feature, means no crowding at high end to make readings difficult and inaccurate. Both the resistance and the capacitance readings are covered by six overlapping ranges, as against two or three in usual service instruments, for maximum sensitivity and accuracy. Positive "magic eye" indicator.

Here is what Model 76 Bridge does: (1) Measures capacitance from 100 mmf. to 200 mfd. in six ranges. (2) Measures resistance from 10 ohms to 20 megohms in six ranges. (3) Measures power factor from 0 to 50%. (4) Provides D.S. polarizing potential for leakage measurements, from 0 to 600 V. D.C., continuously variable and calibrated in volts. (5) Checks leakage or insulation resistance.

Instrument is provided with shockproof, color-coded test leads fitted with banana plugs for panel jacks, and with clips. Instructions. Measures 10" x 7 $\frac{1}{4}$ " x 8 $\frac{1}{4}$ ". Weight 8 lbs. 3 oz.

AEROVOX L-C CHECKER

★ This exclusive Aerovox development has no counterpart, much less an equal. Basically, it determines the effectiveness of any capacitance or inductance while actually connected in its circuit. Testing efficiency is greatly increased. Components may be tested singly or in combinations whereby to determine resonant frequency and effectiveness of given circuits. Circuit or systems may be adjusted by this checking means for proper operating efficiency. Certainly a "must" instrument for the radio worker.

HERE'S A PARTIAL LISTING OF WHAT THE AEROVOX L-C CHECKER DOES:

It checks capacitance of capacitors at radio frequencies without removing them from circuit. • It checks alignment of r.f. circuits; also tracking of super-het. oscillator. • It checks alignment of broad and narrow band i.f. amplifiers. • It checks the tuning of wave traps and of image-rejection circuits; frequency ranges of receivers; frequency ranges of signal generators; calibration of wave meter. • Identifies harmonics of frequency standard in precision frequency calibration of radio equipment. • It checks natural resonant points of r.f. chokes making sure they are beyond operating range. • It traces resonant absorption trouble in "all-wave" receiver circuits—locating dead spots, etc. • It locates resonant points in shorted windings (unused coils) in multi-range oscillators, etc. • Locates resonant frequency of r.f. coupling chokes, making certain of placement to secure enough gain balance over tuning range of r.f. stage • It checks natural period of antennae and transmission lines in

order to have resonant peaks at certain frequencies. • It checks quartz crystals for frequency, false frequency, operation at harmonics, and for activity. • Checks FM i.f. transformers. • Checks alignment of FM i.f. channels. • Checks leakage of paper capacitors. And it checks many other functions when used with auxiliary equipment. This checker operates from AC or from DC 120 volts source. It has a frequency range from 100 KC to 44 MC as follows:

Range: A — 75 — 225 KC	D — 1.5 — 5 MC
B — 200 — 600 KC	E — 4.5 — 14.5 MC
C — 550 — 1650 KC	F — 13 — 44 MC

Capacitance Range: .00025 mfd. — 1 mfd.
Inductance Range: 0 — 500 MH
Tube Complement: 6J5G, 25Z5, 6E5, VR105
Accuracy: Capacitance and Inductance \pm 10%
Frequency Ranges A, B, C: \pm 1%
Other Ranges: \pm 2.5%
Dimensions: 10 $\frac{1}{2}$ x 7 $\frac{1}{2}$ x 5 $\frac{1}{2}$

This new model L-C Checker has provisions for determining the insulation resistance of capacitors in addition to the measurements described in bulletin 995A.

Weight: (shipping) 6 lbs.



Model No. 96
\$44.75
Net, Each

AEROVOX

Special-duty Capacitors

IF IT'S MARKED "AEROVOX" IT'S A QUALITY CAPACITOR

P. S.

● This is a postscript. This page contains several new Aerovox products recently introduced and not as yet cataloged. These special-duty capacitors are of particular interest to advanced radio workers, builders of special equipment, experimenters and engineers.
Other new products are being announced from

time to time. Aerovox engineering is keeping abreast of the rapid advances of the radio-electronic art. Therefore, if you do not see what you need in these pages, tell us about your unusual needs. Aerovox either has a type already developed and in production, or will consider an entirely new type if warranted by the anticipated demand.

LOW-INDUCTANCE MICA CAPACITOR

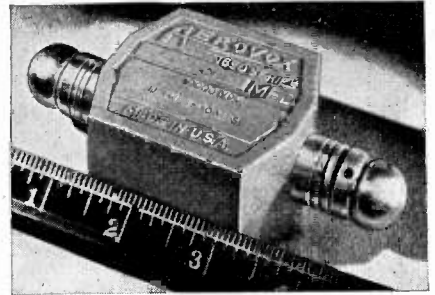
AEROVOX SERIES 1690 is a molded-in-bakelite mica capacitor designed for exceptionally low loss operation at ultra high frequencies. External evidence of its efficiency is offered by the rounded hardware—round nuts, round washers and spherical lock nuts eliminating sharp edges and corners that cause corona losses. The use of fine threads for the terminal studs insures maximum contact and minimum r.f. resistance. Silver plating of all conducting members minimizes skin resistance. The body is of XM or yellow low-loss bakelite. Internally, the mica stack is designed for a straight-line path for high frequencies.

This type is several times larger than the conventional molded-in-bakelite transmitting

mic. Body dimensions are 2 3/4" wide x 2-3/16" deep x 1 3/4" high, and 4 1/4" overall between rounded terminal tips.

Units are available in ratings up to 20,000 volts D.C. Test or 10,000 volts operating, and in capacitance values up to .001 mfd. at the highest voltage rating.

This type has been developed specifically for lower r.f. resistance and impedance, thereby providing increased KVA ratings for given size. Such units can be advantageously applied as blocking capacitors in transmission lines, as tank capacitors for high-frequency oscillators, as by-pass capacitors for ultra-high-frequency energy, and as coupling or by-pass capacitors in induction-heating circuits.



WATER-COOLED MICA CAPACITOR

AEROVOX SERIES 1780 water-cooled mica capacitor is available for extra-heavy duty service such as high-power transmitters and induction furnaces. The water-cooling feature boosts the KVA rating by a factor of five or more, or conversely, greatly reduces the bulk for given rating.

The higher KVA ratings are obtained in two ways: First, by exceptional design such as critical arrangement and location of mica sections; critical selection of materials; specially-plated parts; large cross-section of conductors; attention to details. Second, by the use of a water-cooling system so designed as to provide maximum heat transfer from capacitor to cooling coils.

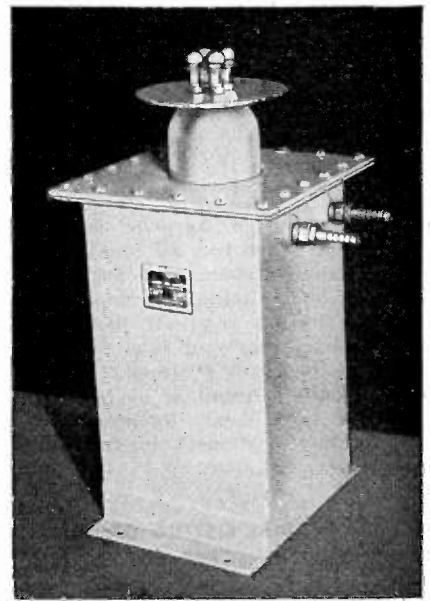
The mica stacks are in an oil bath. Cooling coils in the oil bath provide for the efficient transfer of heat. What this cooling system means may be judged from the fact that a unit handling 200 KVA for

air-cooled operations steps up to 1000 KVA with water-cooling.

The series-parallel mica stack is designed for uniform current distribution throughout. There is a large factor of safety. Silver-plated hardware minimizes skin resistance. Terminals are furnished with large radii of curvature to minimize and even eliminate corona. The statite insulator is shaped to hold gradients below corona limits.

Heavy non-ferrous welded metal case, hermetically-sealed and grounded. Side-mounted nipples for connecting water-cooling hose. Sturdy mounting flanges. Provisions for making connections with high-current-capacity conductors. Four-stud terminal for low-loss connections.

Available in ratings up to 25,000 volts A.C. Test, and in capacitances up to .01 mfd.



ULTRA-HIGH-FREQUENCY CAPACITORS

AEROVOX SERIES 1860 and 1865 are engineered and especially recommended for use in ultra-high-frequency radio equipment such as television and FM transmitter, as well as other miscellaneous applications in the u.h.f. field. In such applications they are readily adaptable for use as fixed-tuning capacitors, by-pass, blocking, coupling, neutralizing and antenna-series capacitors.

Losses are extremely low, due to the highly refined sulphur dielectric. Corona losses are avoided by the unique construction design, the grounded case and the terminal on each type.

Series 1860 (not illustrated) is the smaller unit in an aluminum can, intended more for the radio amateur and experimenter, and for low-cost assemblies. It has a suitably plated brass terminal mounted on a mica insulating plate. Available in four types: .0001 mfd., 10,000 v.; .000025 mfd., 10,000 v.; .00005, 5000 v.; .00005, 10,000 v. Voltage is Peak Working Volts.

Series 1865 (illustrated) is the larger unit, in a cast aluminum case with statite insulator supporting the higher-voltage terminal. Available in capacitances from .00002 to .000125 mfd., at 10,000 v.



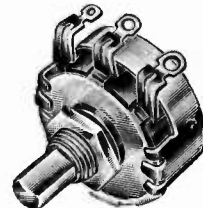
CLAROSTAT

SERIES "M" COMPOSITION-ELEMENT CONTROLS

★ Compactness—yet without sacrificing operating efficiency and long service life. Only 1 1/8" dia. by 3/8" deep (with switch, 7/8" deep).

Utilizes the exclusive Clarostat stabilized element, insuring the control's constancy in all weather and in all climates. Many years of painstaking research and experience are incorporated into the design of Clarostat Series "M" controls, assuring the user of the best results at all times.

The original Clarostat "Ad-A-Switch" feature makes it possible to adapt any of the Series "A" switches quickly to any M, AM, T and AT controls. Furthermore, for high-voltage television, oscillograph or other electronic circuits, the new Clarostat Series 60 High-Voltage Coupling Unit can be attached to all Clarostat controls (illustrated below) to assure safety at elevated voltages. The cost of this added feature is quite moderate. High-voltage couplers are installed at factory only.

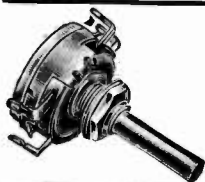


Dia.: 1 1/8". Shaft: 2 1/8". Soft metal. #8-32 brass bushing.

Cat. No.	Ohms	Curve	Suggested Use	Cat. No.	Ohms	Curve	Suggested Use
M-5-S	500	S	Std. Pot.	M-43-S	40,000	S	Std. Pot.
M-8-S	1000	S	Std. Pot.	M-44-S	50,000	S	Std. Pot.
M-11-S	2000	S	Std. Pot.	M-45-W	50,000	W	Sc. Grid & Phono.
M-15-S	3000	S	Std. Pot.	M-46-Z	50,000	Z	Auto Grid & Tone
M-80-S	4000	S	Std. Pot.	M-47-S	75,000	S	Std. Pot.
M-19-S	5000	S	Std. Pot.	M-48-V	75,000	V	C Bias Rheo.
M-20-U	5000	U	Ant. & C — Bias	M-49-S	100,000	S	Std. Pot.
M-23-S	7500	S	Std. Pot.	M-51-Z	100,000	Z	Audio & Tone
M-27-S	10,000	S	Std. Pot.	M-52-S	200,000	S	Std. Pot.
M-29-U	10,000	U	Ant. & C — Bias	M-55-S	250,000	S	Std. Pot.
M-30-V	10,000	V	C Bias Rheo.	M-64-Z	250,000	Z	Audio & Tone
M-31-W	10,000	W	Sc. Grid & Phono.	M-57-S	300,000	S	Std. Pot.
M-81-Z	10,000	Z	Ant. Shunt	M-58-S	500,000	S	Std. Pot.
M-32-S	15,000	S	Std. Pot.	M-59-Y	500,000	Y	Audio Shunt
M-33-U	15,000	U	Ant. & C — Bias	M-60-Z	500,000	Z	Audio & Tone
M-34-V	15,000	V	C Bias Rheo.	M-79-Z	750,000	Z	Audio & Tone
M-35-W	15,000	W	Sc. Grid & Phono.	M-61-S	1,000,000	S	Std. Pot.
M-36-S	20,000	S	Std. Pot.	M-63-Z	1,000,000	Z	Audio & Tone
M-37-U	20,000	U	Ant. & C — Bias	M-66-Z	2,000,000	Z	Tone & AVC
M-40-S	25,000	S	Std. Pot.	M-83-S	2,000,000	S	Audio & Tone
M-41-W	25,000	W	Sc. Grid & Phono.	M-67-Z	3,000,000	Z	Tone & AVC
M-72-V	25,000	V	C Bias Rheo.	M-68-Z	4,000,000	Z	Tone & AVC
M-42-S	30,000	S	Std. Pot.	M-69-Z	5,000,000	Z	Tone & AVC
				M-99-Z	10,000,000	Z	Tone & AVC

LIST PRICE \$1.25

Standard Packing — 10 (ten) per carton



SERIES "T" TAPPED CONTROLS

With the Original Ad-A-Switch Feature

★ There are many circuits in which the use of a tapped control affords special functional operation not possible or attainable with any other type of control. These standard units listed herewith permit replacement of tapped units with the assurance that the total overall resistance value as well as the taps satisfactorily substitute for the original.

Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3	Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3
T-25	50,000		25,000		T-103	1,000,000		100,000	
T-38	200,000			100,000	T-109	1,000,000		225,000	
T-39	250,000		25,000		T-110	1,000,000		170,000	
T-42	250,000		125,000		T-111	1,000,000			200,000
T-43	250,000			50,000	T-112	1,000,000		500,000	
T-44	250,000	60,000		125,000	T-95	1,500,000	250,000 @ 25% Rotation		500,000
T-45	250,000	30,000	60,000		T-125	1,500,000		350,000	
T-60	350,000		25,000		T-114	2,000,000		100,000	
T-69	350,000	75,000			T-115	2,000,000		500,000	
T-70	350,000		75,000		T-116	2,000,000		1,000,000	
T-78	500,000		100,000		T-118	2,000,000	20,000		
T-80	500,000			100,000	T-119	2,000,000		200,000	
T-81	500,000	25,000		200,000	T-120	2,000,000		400,000	
T-82	500,000				T-121	2,000,000	250,000		500,000
T-88	500,000		50,000		T-124	2,000,000	5,000 @ 25% Rotation		
T-90	500,000		250,000		T-126	2,000,000	200,000		400,000
T-92	500,000	100,000		300,000	T-129	2,000,000		15,000	
T-98	1,000,000	250,000			T-123	2,500,000	250,000		500,000
T-101	1,000,000		50,000		T-128	4,000,000		500,000	
T-102	1,000,000	100,000		500,000					

LIST PRICE \$1.85 (Without Switch)

For Power Switch, see Series SW listed below.
Standard Packing — 10 (ten) per carton

THE ORIGINAL "AD-A-SWITCH" FEATURE FOR SERIES "M", "AM", "T" "AT" CONTROLS

Cat. No.	Wiring	List Price
SW-A	Single-Pole Single-Throw	\$0.60
SW-A1	Three-Way, No "Off" position S.P.D.T.	.75
SW-A2	Double-Pole, Single-Throw	.75
SW-A4	Four-wire (to control A, B and C voltages)	.75
SW-A5	S.P.S.T. (reverse action)	.75
SW-A6	S.P.S.T. with dummy lug	.75



Ad-A-Switch is used in place of usual dust-protection cover, and lugs bent over to hold it in place.



High-Voltage Coupler

Fitted to any Clarostat control at factory, on special order.

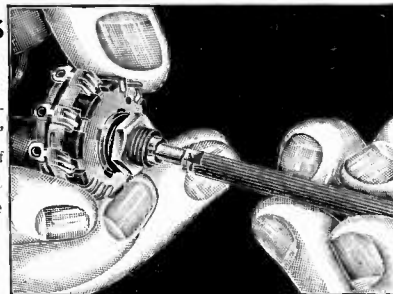
Cat. No.	List Price
60-3-2	3,000 v. \$1.25
60-3-4	10,000 v. 1.85

CLAROSTAT

SERIES "AM" AND "AT" UNIVERSAL PICK-A-SHAFT CONTROLS Standard and Tapped for Every Service Need

★ These universal controls are built to the same exacting specifications as Series "M" and "T". However, instead of having the usual integral shaft, these controls include the Clarostat "Pick-A-Shaft" feature whereby a choice of shafts may be used with any of these controls. This ingenious feature elimi-

nates the stocking of special shaft units. Instead, the Series "AM" or Series "AT" (tapped unit) takes the particular type of shaft desired by merely inserting such a shaft so that the spring washer snaps into the groove provided in the shaft.



One selected shaft furnished FREE with each Pick-A-Shaft control.

SERIES "AM" OR STANDARD PICK-A-SHAFT CONTROLS

Cat. No.	Ohms	Curve	Suggested Use
AM-5-S	500	S	Std. Pot.
AM-8-S	1,000	S	Std. Pot.
AM-11-S	2,000	S	Std. Pot.
M-15-S	3,000	S	Std. Pot.
AM-10-S	4,000	S	Std. Pot.
AM-19-S	5,000	S	Std. Pot.
AM-20-U	5,000	U	Ant. & C — Bias
AM-23-S	7,500	S	Std. Pot.
AM-27-S	10,000	S	Std. Pot.
AM-29-U	10,000	U	Ant. & C — Bias
AM-30-V	10,000	V	C Bias Rheo.
AM-31-W	10,000	W	Sc. Grid & Phono.
AM-31-Z	10,000	Z	Ant. Shunt
AM-32-S	15,000	S	Std. Pot.
AM-33-U	15,000	U	Ant. & C — Bias
AM-34-V	15,000	V	C Bias Rheo.
AM-35-W	15,000	W	Sc. Grid & Phono.
AM-36-S	20,000	S	Std. Pot.
AM-37-U	20,000	U	Ant. & C — Bias
AM-40-S	25,000	S	Std. Pot.
AM-41-W	25,000	W	Sc. Grid & Phono.
AM-42-V	25,000	V	C Bias Rheo.
AM-42-S	30,000	S	Std. Pot.
AM-43-S	40,000	S	Std. Pot.
AM-44-S	50,000	S	Std. Pot.
AM-45-W	50,000	W	Sc. Grid & Phono.
AM-46-Z	50,000	Z	Audio & Tone
AM-47-S	75,000	S	Std. Pot.
AM-48-V	75,000	V	C Bias Rheo.
AM-49-S	100,000	S	Std. Pot.
AM-51-Z	100,000	Z	Audio & Tone
AM-52-S	200,000	S	Std. Pot.
AM-55-S	250,000	S	Std. Pot.
AM-64-Z	250,000	Z	Audio & Tone
AM-57-S	300,000	S	Std. Pot.
AM-58-S	500,000	S	Std. Pot.
AM-59-Y	500,000	Y	Audio Shunt
AM-60-Z	500,000	Z	Audio & Tone
AM-79-Z	750,000	Z	Audio & Tone
AM-61-S	1,000,000	S	Std. Pot.
AM-63-Z	1,000,000	Z	Audio & Tone
AM-83-S	2,000,000	S	Audio & Tone
AM-66-Z	2,000,000	Z	Tone & AVC
AM-67-Z	3,000,000	Z	Tone & AVC
AM-68-Z	4,000,000	Z	Tone & AVC
AM-69-Z	5,000,000	Z	Tone & AVC
AM-99-Z	10,000,000	Z	Tone & AVC

LIST PRICE \$1.25 (Without Switch)

SERIES "AT" OR TAPPED PICK-A-SHAFT CONTROLS

Cat. No.	Ohms	Tap No. 1	Tap No. 2	Tap No. 3
AT-25	50,000		25,000	
AT-38	200,000			100,000
AT-39	250,000		25,000	
AT-42	250,000		125,000	
AT-43	250,000			50,000
AT-44	250,000			125,000
AT-45	250,000	30,000	60,000	
AT-60	350,000		25,000	
AT-69	350,000	75,000		
AT-70	350,000		75,000	
AT-78	500,000		100,000	
AT-80	500,000			100,000
AT-81	500,000	25,000		
AT-82	500,000			200,000
AT-88	500,000		50,000	
AT-90	500,000		250,000	
AT-92	500,000	100,000		300,000
AT-98	1,000,000	250,000		
AT-101	1,000,000		50,000	
AT-102	1,000,000	100,000		500,000
AT-103	1,000,000		100,000	
AT-109	1,000,000		225,000	
AT-110	1,000,000		170,000	
AT-111	1,000,000			200,000
AT-112	1,000,000		500,000	
AT-95	1,500,000	250,000 @ 25% Rotation		500,000
AT-125	1,500,000		350,000	
AT-114	2,000,000		100,000	
AT-115	2,000,000		500,000	
AT-116	2,000,000		1,000,000	
AT-118	2,000,000	20,000		
AT-119	2,000,000		200,000	
AT-120	2,000,000		400,000	
AT-121	2,000,000	250,000		500,000
AT-124	2,000,000	5,000 @ 25% Rotation		
AT-126	2,000,000	200,000		400,000
AT-129	2,000,000	15,000		
AT-123	2,500,000	250,000		500,000
AT-128	4,000,000		500,000	

LIST PRICE \$1.85 (Without Switch)

Standard Packing—10 (ten) per carton.

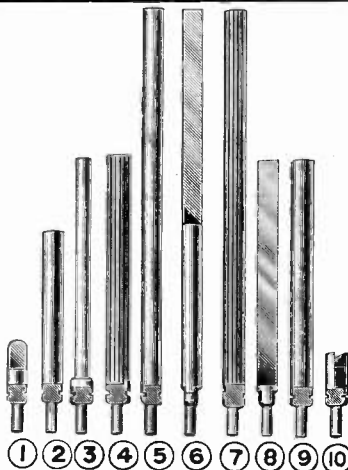
For Power Switch, see Series "SW" listings on Page R-1.

Choice of Pick-A-Shafts

★ A choice of Pick-A-Shafts (shown at right) covers all requirements, as follows:

- | Cat No. | Description |
|--------------------|--------------------------------------|
| (1) SS-3/8" length | (Male) to take female fitting |
| (2) RS-2 | Round shaft, 2" long |
| (3) RS-3/8" diam. | Round shaft, 3" long |
| (4) KSS-3 | Knurled, split shaft 3" lg. |
| (5) RS-5 | Round shaft, 5" long |
| (6) FS-5 | Flatted shaft, 5" long |
| (7) KSS-5 | Knurled, split shaft, 5" lg. |
| (8) FS-3 | Flatted shaft, 3" long |
| (9) RS-3 | Round Shaft, 3" long |
| (10) DFS-1/2 | Double flatted Philco Type 1/2" long |

List price of each shaft..... \$0.30
One selected shaft furnished FREE with each Pick-A-Shaft control.



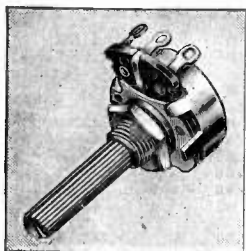
PICK-A-SHAFT SLIP DRIVE CONTROL (Clutch Type)

Available with your choice of Pick-A-Shaft

Cat. No.	Resistance	List
SD-64-Z	250,000	\$1.25
SD-60-Z	500,000	1.25
SD-63-Z	1,000,000	1.25
SD-66-Z	2,000,000	1.25
SD-42	250,000 Tapped	125,000 1.85
SD-78	500,000	100,000 1.85
SD-98	1,000,000	250,000 1.85
SD-115	2,000,000	500,000 1.85

CLAROSTAT

MIDGET (15/16" dia.) CONTROLS



★ Yes, sir — Clarostat has it first — the smaller, handier $\frac{15}{16}$ " control for tight spots. And it's a beauty. Note the trim lines. Nothing sacrificed by way of electrical and mechanical sturdiness and dependability. This is an entirely NEW control, developed from scratch, to meet the need of a more compact control of standard performance. Dimensions: $\frac{15}{16}$ " diameter x $\frac{29}{64}$ " deep. With switch, $\frac{49}{64}$ " deep. $\frac{1}{4}$ " long, $\frac{3}{8}$ "-32 threaded bushing. Knurled shaft 1" long beyond bushing. Switch units attached at factory.

Cat. No.	Resistance	Taper	Cat. No. with Switch	LIST PRICE	
				(no switch)	(with switch)
15/16-64-Z	250,000 ohms	Audio	15/16-S-64-Z	\$1.25	\$1.85
15/16-60-Z	500,000 ohms	Audio	15/16-S-60-Z	1.25	1.85
15/16-63-Z	1,000,000 ohms	Audio	15/16-S-63-Z	1.25	1.85
15/16-66-Z	2,000,000 ohms	Audio	15/16-S-66-Z	1.25	1.85

Standard packing 10 (ten) per carton.

DUAL SERIES DC CONTROLS

★ The Series DC controls are dual units — two controls of the same resistance values and tapers, connected in tandem for joint operation.

Cat. No.	Panel Unit	Rear Unit
DC-34-S	10,000-S	25,000-S
DC-23-S	10,000-S	50,000-S
DC- 5-S	50,000-S	50,000-S
DC- 6-Z	100,000-Z	100,000-Z
DC-29-S	250,000-S	250,000-S
DC- 8-Z	250,000-Z	250,000-Z
DC-10-Z	500,000-Z	500,000-Z
DC-11-Z	1,000,000-Z	1,000,000-Z

LIST PRICE \$3.10

Standard packing—Individual carton

ROTARY SWITCHES

★ Compact, positive contact, bakelite molded and Underwriters' approved. Rated 1 Amp. 250 volt; 3 Amp. 125 volt. The physical dimensions of the switch are as follows:



Diameter $1\frac{3}{8}$ ", body depth $\frac{9}{16}$ ", lug protrusion $\frac{1}{4}$ ", locking projection on a $\frac{1}{4}$ " radius, rotation for actuation 30 degrees.

All standard stock numbers have $\frac{3}{8}$ " bushing, $1\frac{1}{2}$ " length shaft, and one locking projection.

Cat. No.	Switch Description	List Price
8590	Single Pole Single Throw.....	\$0.60
8591	Single Pole Bussing Lug.....	.75
8592	Double Pole Single Throw.....	.75
8593	Single Pole Double Throw.....	.75
8594	Single Pole Reversed Action.....	.75
8595	Four Wire Single Throw.....	.75

Standard packing 10 (ten) per carton.

POWER RESISTOR DECADE BOX

★ A "Must" for Every Laboratory. Power resistance measurements under actual load conditions. Just imagine being able to obtain ANY VALUE OF RESISTANCE from 1 ohm to 999,999 ohms IN STEPS OF ONE OHM, and at a POWER RATING OF 225 WATTS using a maximum of 1000 volts DC (660 volts AC)!

Intended primarily for laboratory use and development engineering. Simplifies and expedites the selection of correct resistance values for given circuits and functions. These instruments are in daily use in labora-



NET PRICE \$90.00*

tories, engineering offices, plants, maintenance and service departments, and in schools.

Finish: Heavy-gauge metal case finished in frosted gray wrinkle. with etched black-and-aluminum front panel.

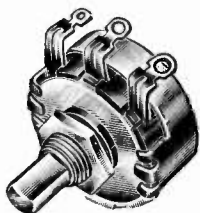
Dimensions: 13 in. long; $8\frac{1}{2}$ in. deep; $5\frac{3}{4}$ in. high. Weight, 11 lbs.

Suggested Uses: Resistance determination. Load Resistance. Meter Multiplier. Calibrating Meters. Providing any desired ohmage as a universal power resistor.

CLAROSTAT

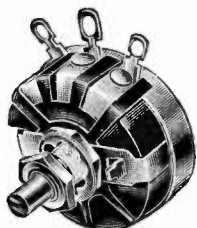
SERIES 43 MIDGET WIRE-WOUND CONTROLS

★ A space-saving control of the wire-wound type. Similar in mechanical details and dimensions to the composition-element Series M control (page R-1). Precision-wound alloy wire on bakelite strip. Rotor sweeps over inside face of winding. Special lubricant for minimized frictional drag and wear. Molded bakelite casing—high resistance to leakage. Protective metal cover (as shown in illustration). Only 1½" dia. Body Depth, $\frac{9}{16}$ " deep with switch. $\frac{3}{8}$ " bushing. Shaft 1½" long. All switches permanently attached at factory.



Resistance Ohms	Current-carrying Capacity in Ma.	Type No. Without Switch	Type No. With Switch
5	630	43-5	43S-5
10	450	43-10	43S-10
20	320	43-20	43S-20
25	280	43-25	43S-25
30	260	43-30	43S-30
40	225	43-40	43S-40
50	200	43-50	43S-50
75	165	43-75	43S-75
100	140	43-100	43S-100
150	115	43-150	43S-150
200	100	43-200	43S-200
300	90	43-300	43S-300
400	70	43-400	43S-400
500	65	43-500	43S-500
750	55	43-750	43S-750
1,000	45	43-1000	43S-1000
2,000	31	43-2000	43S-2000
3,000	26	43-3000	43S-3000
4,000	22	43-4000	43S-4000
5,000	20	43-5000	43S-5000
7,500	16	43-7500	43S-7500
10,000	14	43-10000	43S-10000

LIST PRICE \$1.25. With switch \$1.85
Standard packing—10 (ten) per carton.



Shaft 1½" long.
 $\frac{3}{8}$ " bushing.

SERIES 58 WIRE-WOUND CONTROLS

★ Sturdy and reliable in construction yet capable of use for delicate control work, Series 58 Controls are without equal. Noiseless in operation, these units are standard equipment in laboratories, fine instruments, electronic equipment, and especially in the control rooms of radio stations and networks.

The switch is located to operate at extreme counter-clockwise rotation of the shaft. Moving element is insulated from mounting bushing and shaft, and is tested at 500 volts A.C. There is no danger of accidental shock or short-circuit.

Cat. No.	Resistance in Ohms	List Price	Cat. No.	Resistance in Ohms	List Price
58-1	1	\$1.25	58-500	500	1.25
58-2	2	1.25	58-750	750	1.25
58-4	4	1.25	58-1000	1000	1.25
58-6	6	1.25	58-2000	2000	1.25
58-10	10	1.25	58-3000	3000	1.25
58-15	15	1.25	58-5000	5000	1.25
58-20	20	1.25	58-7500	7500	1.25
58-25	25	1.25	58-10K	10,000	1.25
58-30	30	1.25	58-15K	15,000	1.25
58-40	40	1.25	58-20K	20,000	1.25
58-50	50	1.25	58-25K	25,000	1.60
58-60	60	1.25	58-30K	30,000	1.60
58-75	75	1.25	58-40K	40,000	1.60
58-100	100	1.25	58-50K	50,000	2.25
58-200	200	1.25	10-75K*	75,000	3.50
58-300	300	1.25	10-100K*	100,000	3.50
58-400	400	1.25			

If power switch is desired, the type of switch must be specified (See page R-1). Order as 58S and add to list the price of switch selected. The S.P.S.T. switch is supplied as standard where no type is specified. All switches are permanently fastened to the control at the factory.

Standard packing—10 (ten) per carton.

* These units are 1" in depth and are the Clarostat Series 10.

BEAM BENDER

★ Simplicity and economy mark use of the Clarostat Beam Bender in connection with television cathode-ray tubes requiring some external means of controlling loose ions. Entirely self-contained. Applied without tools. Three spring fingers provide frictional yet adjustable fit on neck of usual 10" tube. Permanent ring magnets provide magnetic flux proportional to required beam-bending function in the tube. Individually packaged. Cat. No. TV-1 — List Price \$3.00



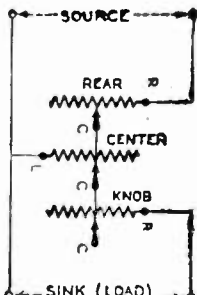
HAN-D-KIT No. 5



★ Most replacements for least parts stock! Fastest moving items. No duds. Every item a "must" in everyday servicing. Neatly packed in handsome green steel box with hinged top. Handy as filing cabinet, strong box, odds-and-ends box, etc. Contains 6 ballast tubes; 12 volume controls; 4 AD-A-Switches; 5 Greenohms; Dural Hand-D-Wrench; Authorized Service plaque; Data. A \$30.15 value for only: Kit No. 5.....\$15.07 Net Cost*

CLAROSTAT

CONSTANT IMPEDANCE CONTROLS



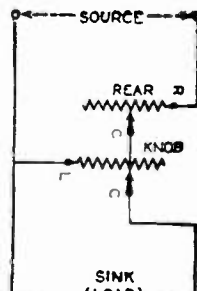
Series CIT-58 T-pads are connected as here shown.

★ Self-compensating volume controls or attenuators known as L-pads and T-pads are essential in eliminating the distortion that arises from the mismatching of impedances in broadcast transmission, sound recording or public address systems. With Clarostat constant-impedance L-pads and T-pads the input and output impedances of associated equipment in a circuit can be kept within the limits of a constant required value.

These pads have a continuous range from 0.5 to 80 decibels attenuation in 90% of rotation, the last 10% affording

infinite attenuation. Employable at either the source or the load in a circuit (see diagrams) these units are readily one-hole mounted. They afford a wide range of uses as mixers, faders, multiple-speaker controls, etc. Such controls can be used as individual volume controls for multiple-speaker systems, without affecting or changing the source impedance.

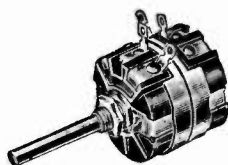
These units are rated at 2 1/2 watts when used on DC or constant frequency signals. However, they have successfully been used up to 10 watts on audio circuits.



Series CIL-58 L-pads are connected as here shown.

SERIES CIT Wire-Wound T-Pads

Cat. No.	Resistance in Ohms	List Price
CIT-6	6	\$4.25
CIT-8	8	4.25
CIT-15	15	4.25
CIT-50	50	4.25
CIT-100	100	4.25
CIT-200	200	4.25
CIT-250	250	4.25
CIT-500	500	4.25
CIT-600	600	4.25
CIT-1000	1000	4.25
CIT-2000	2000	4.25



SERIES CIL Wire-Wound L-Pads

Cat. No.	Resistance in Ohms	List Price
CIL-6	6	\$3.75
CIL-8	8	3.75
CIL-15	15	3.75
CIL-50	50	3.75
CIL-100	100	3.75
CIL-200	200	3.75
CIL-250	250	3.75
CIL-500	500	3.75
CIL-600	600	3.75
CIL-1000	1000	3.75
CIL-2000	2000	3.75

CONSTANT IMPEDANCE OUTPUT ATTENUATORS



db steps are 3, 6, 9, 12, 15, 18, 21, 24 and 30. Absolutely noiseless and distortionless in operation.

★ Developed to meet the need for a constant-impedance attenuator capable of handling considerable power without measurable insertion loss, Series CIB attenuators provide linear attenuation with ample power-handling capacity.

These units are rated at 10 watts when used on DC or constant frequency signals. However, they have successfully been used up to 80 watts on audio circuits.

Compact, capable of safely handling the rated wattages at any setting of the dial, these units are

recommended as an output level control for power amplifiers or as an input attenuator for individual or group speakers in a public address system. Linear attenuation is provided in steps of 3 decibels up to 80, with final step to infinity.

Unit is furnished in black baked-enamel metal casing, 2" in diameter by 2 3/4" long, equipped with dial plate and bar knob. Not available with power switch. One-hole mounting 3/8" diameter bushing. Shaft 1" long.

Series CIB—10 Watts

Cat. No.	Resistance in Ohms	List Price
CIB-6	6	\$6.50
CIB-8	8	6.50
CIB-15	15	6.50
CIB-50	50	6.50
CIB-200	200	6.50
CIB-250	250	6.50
CIB-500	500	6.50
CIB-600	600	6.50
Net Price		\$6.50*

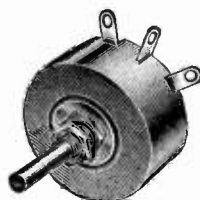
Series PW-25—25 Watt

Cat. No.	Total Resis. Ohms	Max. Cur. at		List Price
		Total Res. Amps.	Max. Cur. Up to 1/2 Res. Amps.	
PW-25-1	1	5.000	7.500	\$5.85
PW-25-2	2	3.536	5.304	5.20
PW-25-3	3	2.887	4.830	5.20
PW-25-6	6	2.041	3.062	5.20
PW-25-8	8	1.768	2.652	5.20
PW-25-10	10	1.581	2.372	5.20
PW-25-15	15	1.291	1.936	5.20
PW-25-25	25	1.000	1.500	5.20
PW-25-35	35	.845	1.268	5.20
PW-25-50	50	.707	1.061	5.20
PW-25-75	75	.577	.866	5.20
PW-25-100	100	.500	.750	5.20
PW-25-125	125	.447	.671	5.20
PW-25-175	175	.378	.567	5.20
PW-25-250	250	.316	.474	5.20
PW-25-350	350	.267	.401	5.20
PW-25-500	500	.224	.335	5.20
PW-25-750	750	.183	.274	5.20
PW-25-1000	1000	.158	.237	5.85
PW-25-1500	1500	.129	.194	5.85
PW-25-2500	2500	.100	.150	5.85
PW-25-3500	3500	.085	.127	6.20

Standard Packing—Individual Carton

POWER RHEOSTATS

★ Exceptionally rugged. Trouble-free design. Withstand severe overloading without smoking, burning, charring. Element imbedded in cold-setting cement. Resistance winding supported on insulated metal core for maximum heat conduction and radiation, even at partial rotation settings. Single-hole mounting. Adjustable locking pin firmly anchors unit against bodily rotation. Shaft and bushing insulated from current-carrying arm for safety. 25 and 50 watt sizes.



Series PW-50—50 Watt

Cat. No.	Total Resis. Ohms	Max. Cur. at		List Price
		Total Res. Amps.	Max. Cur. Up to 1/2 Res. Amps.	
PW-50-0.5	0.5	10.000	15.000	\$6.50
PW-50-1	1	7.071	10.607	6.50
PW-50-2	2	5.000	7.500	6.50
PW-50-4	4	3.536	5.804	5.85
PW-50-6	6	2.887	4.330	5.85
PW-50-8	8	2.500	3.750	5.85
PW-50-12	12	2.041	3.062	5.85
PW-50-16	16	1.768	2.652	5.85
PW-50-22	22	1.508	2.261	5.85
PW-50-35	35	1.195	1.798	5.85
PW-50-50	50	1.000	1.500	5.85
PW-50-80	80	.791	1.186	5.85
PW-50-125	125	.632	.949	5.85
PW-50-150	150	.577	.866	5.85
PW-50-225	225	.471	.707	5.85
PW-50-300	300	.408	.612	5.85
PW-50-500	500	.316	.474	5.85
PW-50-800	800	.250	.375	6.20
PW-50-1000	1000	.224	.335	6.20
PW-50-1600	1600	.177	.265	6.20
PW-50-2500	2500	.141	.212	6.20
PW-50-3500	3500	.120	.179	6.50
PW-50-5000	5000	.100	.150	6.50

Standard Packing—Individual Carton

CLAROSTAT

TUBE-TYPE WIRE-WOUND RESISTORS

Standard Resistor Tubes

Cat. No.	Cat. No.
BK-29-B	K-74-B
BK-29-D	K-80-B
BK-32-D	K-82-B
BK-36-B	K-86-B
BK-36-D	K-90-A
BK-36-H	K-90-B
BK-42-B	K-92-A
BK-42-C	K-92-B
BK-49-B	L-42-B
BK-49-C	L-42-C
BK-55-B	L-42-D
BK-67-BJ	L-49-A
BL-42-B	L-49-B
BL-42-D	L-49-C
BM-49-B	L-49-D
BM-55-B	L-49-H
K-26J-218	L-55-B
K-36-D	L-55-CJ
K-42-A	L-55-C
K-42-AJ	L-55-CPR
K-42-B	L-55-D
K-42-C	M-30-H
K-42-D	M-42-B
K-49-A	M-49-B
K-49-B	M-55-B
K-49-C	M-55-H
K-49-D	M-80-B
K-49-H	M-86892-9
K-55-A	100-610
K-55-B	100-37
K-55-C	100-70
K-55-CPR	100-76
K-55-D	100-77
K-55-H	100-79
K-67-A	115-78
K-67-B	5459
K-67-BJ	28602
K-72-B	43X106

List Price.....\$1.00
Standard Packing —
10 per carton

★ Clarostat developed and pioneered the tube-type resistor for voltage-reducing purposes and for supplying needed voltage for pilot lamp operation in AC-DC receivers. Strictly non-inflammable, with the resistance element wound on a mica form firmly secured in the metal tube and connected with the base prongs, the Clarostat construction is notably superior to others.

To simplify servicing of receivers using tube-type resistors, Clarostat has selected the most popular values for so-called Universal numbers serving most replacement needs. Standard resistor tubes of the most popular types are also listed below.

In connection with listings, the following nomenclature applies: Prefixes: K denotes 6.3 volt 150 ma. No. 40 pilot lamp.

L denotes 6.3 volt 250 ma. No. 46 pilot lamp.

M denotes 6.3 volt 200 ma. No. 51 pilot lamp.

The numeral indicates total voltage drop across resistance unit.

Suffixes designate:

- A—No pilot lamp taps.
- B—1 pilot lamp tap for 1 lamp.
- C—1 pilot lamp tap for 2 lamps.
- D—2 pilot lamp taps for 2 lamps.
- E—3 pilot lamp taps for 3 lamps.
- E1—1 pilot lamp tap for 3 lamps.
- F—1 pilot lamp tap for 1 lamp.

G—1 pilot lamp tap for 2 pilot lamps. (Tapped sections isolated from main reducing body.)

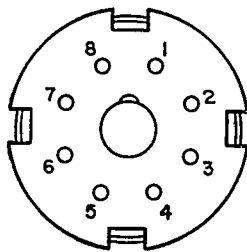
H—2 pilot lamp taps for 2 pilot lamps. (Tapped section isolated from main reducing body.)

The letter "J" following any of the suffixes denotes a shorted connection between 2 prongs of the tube, i.e., K-67-BJ, the short is located between Nos. 3 and 4 prongs.

Care must be exercised when replacing any tube whose number ends in "J", as the shorted pins are not always as in above example. Some are between Nos. 6 and 7 prongs, and others between 5 and 3.

When replacing any plug-in resistor tube with a Clarostat Universal type, note prongs missing on replaced tube and cut off corresponding prongs on the Universal Replacement tube.

The numeral indicates total voltage drop across resistance unit.



UNIVERSAL RESISTOR TUBES

Universal Tube No.	Replaces AC-DC Tubes Beginning with Letters	Having Numbers From	Ending in Letter
10*23-A	BK, BL, K, L, M	10 to 23	A, B, C, D
10*23-E	BK, BL, K, L, M	10 to 23	E
10*23-F	BK, BL, K, L, M	10 to 23	F, G, H
23*55-A	BK, BL, K, L, M	23 to 55	A, B, C, D
23*55-E	BK, BL, K, L, M	23 to 55	E
23*55-F	BK, BL, K, L, M	23 to 55	F, G, H
60*92-A	BK, BL, K, L, M	60 to 92	A, B, C, D
60*92-E	BK, BL, K, L, M	60 to 92	E
60*92-F	BK, BL, K, L, M	60 to 92	F, G, H
92*105-A	BK, BL, K, L, M	92 to 105	A, B, C, D

List Price.....\$1.50
Standard Packing — 10 (ten) per carton

TELEVISION BALLASTS

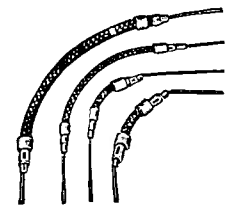
*17A470303 for Motorola Television Set No. VT-7L. List Price \$3.00
**397021 for Emerson Television Set No. 571-606. List Price \$3.00

★ This Emerson ballast tube is used as a protective resistor and any internal failure in the circuit may cause this unit to burn out and therefore this unit is expendable. Standard Packing — 10 (ten) per carton

GLASOHMS* Glass-Insulated Flexible Resistors

★ This is a new development in resistors which has found instant acceptance in widespread applications.

Glasohms consist of a wire winding on a fibre-glass core, with a covering of braided fibre-glass. Each strand of glass is no thicker than usual



cotton thread and just as flexible, so that the complete units can be bent or twisted and even knotted without breakage or weakening. Clarostat is the only manufacturer of Glasohms. These units are ideal for resistance boxes, attenuators, voltage-dividers, multipliers, step-by-step rheostats, and for use in point-to-point wiring jobs. Handy, inexpensive and very durable, these units can withstand heavy overloads without damage. There is nothing in them to burn or char. Glasohms are also suitable for use as miniature heating elements serving in hair curlers, immersion heaters, soldering irons, electrically-heated ovens for crystal oscillators, etc., especially in longer lengths obtained on special orders.

*Registered trade-mark.

Standard Glasohm Resistors

TYPE FYG — 2-WATT
1" Fabric Length with 2" Pigtails
1/8" dia. core. RMA Color-coded

Cat. No.	Ohms	Cat. No.	Ohms
FYG5	5	FYG350	350
FYG10	10	FYG375	375
FYG15	15	FYG400	400
FYG25	25	FYG500	500
FYG35	35	FYG600	600
FYG40	40	FYG700	700
FYG50	50	FYG750	750
FYG60	60	FYG800	800
FYG75	75	FYG850	850
FYG100	100	FYG900	900
FYG125	125	FYG1000	1000
FYG150	150	FYG1250	1250
FYG200	200	FYG1500	1500
FYG225	225	FYG1600	1600
FYG250	250	FYG1750	1750
FYG300	300	FYG2000	2000

List Price.....\$0.30
Standard Packing—10 (ten) per carton

AUTOMATIC LINE VOLTAGE REGULATORS

★ To maintain constant line voltage and thus prevent burning out the tubes of a radio receiver or other tube-using device, this handy unit, operating effectively on 110-volt A.C. or D.C. by simply plugging into the usual socket or outlet, safeguards against line voltage surges or increases even up to 140 volts. At the normal 110-volt, the resistance of the unit is low and the voltage drop across it is negligible. However, as the line voltage increases the resistance of the unit increases proportionately, with a constant increase in voltage drop across it. This automatic voltage control or ballast action insures a steady, practically constant and always safe operating potential.



Dimensions are 1 3/4" dia. x 1 1/4" long.
Prongs 5/8" long.

Type	Rating Watts	For Use With Sets Consuming	No. of Tubes Used
O	50	Up to 60 watts	4
A	100	60 to 100 watts	5, 6, 7
B	150	100 to 150 watts	8, 9, 10
C	200	150 to 200 watts	11, 12
D	250	200 to 250 watts	2 Type 50
E*	100	60 to 100 watts	

*Note: For use with 220-volt receivers

List Price\$1.75
Standard Packing — 10 (ten) per carton

CLAROSTAT

FAMOUS GREENOHMS — WIRE-WOUND FIXED POWER RESISTORS

★ The toughest power resistors made. Will dissipate heat without change in resistance value. Will withstand heavy overloads, humidity, high-heat, and severe heat shock (frequent on-and-off operation). Due to the exclusive CLAROSTAT inorganic-cement coating,

these resistors can be given the toughest assignments and will come through with flying colors. Greenohms are found in the finest electrical, radio and industrial assemblies — in equipment that must stand up — for functions where failure cannot be tolerated.



SERIES PR-5-F—5-WATT

Dimensions: $\frac{5}{8}$ " dia. x 1" long.

The baby member of the famous Clarostat Greenohm family. Available in standard resistance values from 1 ohm to 7500 ohms (See exact values in listings for Series AC-10-F up to 7500).

All ohmages List Price \$0.50
Standard Packing — 10 (ten) per carton.

Series AC-10-F—10-Watt

Dimensions: $\frac{5}{8}$ " dia. x 1 $\frac{3}{4}$ " long

Ohms	Ohms	Ohms	Ohms
1	125	1200	10000
2	150	1250	11000
3	200	1500	12000
4	225	1750	12500
5	250	2000	13500
7.5	300	2250	14500
10	350	2500	15000
12	400	3000	16000
15	450	3500	17500
20	500	4000	18000
25	600	4500	20000
30	700	5000	22500
35	750	6000	25000
40	800	7000	30000
50	900	7500	35000
75	1000	8000	40000
100	1100	8500	50000

All ohmages — List Price \$0.55
Standard Packing — 10 (ten) per carton

Series A-25-K—25-Watt

Dimensions: $\frac{5}{8}$ " dia. x 2 $\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms	Ohms
1	150	2250	10000	75000
2	200	2500	12000	80000
3	250	3000	15000	85000
5	300	3500	20000	90000
7.5	400	4000	25000	100000
10	500	4500	30000	
15	750	5000	35000	
20	800	6000	40000	
25	1000	7000	45000	
50	1250	7500	50000	
75	1500	8000	60000	
100	2000	9000	70000	

LIST PRICES:
1 to 5000 ohms \$0.75
6000 to 15000 ohms85
20000 to 50000 ohms 1.00
60000 ohms 1.15
70000 ohms 1.25
75000 ohms 1.30
80000 ohms 1.35
85000 ohms 1.50
90000 ohms 1.60
100000 ohms 1.75

Supplied with Mounting Brackets at No Extra Cost
Standard Packing — Individually Boxed

Series AC-20-K—20-Watt

Dimensions: $\frac{5}{8}$ " dia. x 2" long

Ohms	Ohms	Ohms	Ohms
1	800	6000	65000
5	850	7000	70000
10	1000	7500	75000
25	1200	8000	80000
50	1250	9000	85000
75	1500	10000	90000
100	1750	12500	95000
150	1850	15000	100000
200	2000	20000	
250	2250	25000	
300	2500	30000	
350	2750	35000	
400	3000	40000	
500	3500	45000	
650	4000	50000	
700	4500	55000	
750	5000	60000	

LIST PRICE:
1 to 15,000 ohms \$0.65
20,000 to 50,000 ohms85
55,000 to 100,000 ohms 1.10
Standard Packing — 5 (five) per carton

Series K-40-N—40-Watt

Dimensions: $\frac{3}{4}$ " dia. x 3 $\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
5	125	1000	7500	35000	125000
10	150	1500	8500	40000	150000
15	200	2000	10000	50000	175000
20	250	2500	12500	60000	200000
25	300	3000	15000	70000	
50	400	4000	20000	80000	
75	500	5000	25000	90000	
100	750	6000	30000	100000	

LIST PRICES:
5 to 5000 ohms \$0.90
6000 to 25000 ohms 1.00
30000 to 100000 ohms 1.20
125000 to 150000 ohms 1.40
175000 ohms 1.50
200000 ohms 1.60

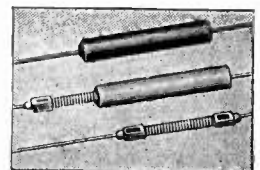
Supplied with Mounting Brackets at No Extra Cost
Standard Packing—Individually Boxed

Ohms	Series K-50-N $\frac{3}{4}$ " dia. x 4 $\frac{1}{2}$ " l. 50-watt	Series K-80-N $\frac{3}{4}$ " dia. x 6 $\frac{1}{2}$ " l. 80-watt	Series K-100-W 1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 115-watt	Series K-160-W 1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 160-watt	Series K-200-W 1 $\frac{1}{8}$ " dia. x 10 $\frac{1}{2}$ " l. 200-watt
5	\$1.10	\$1.25	\$1.75	\$2.25	\$2.50
10	1.10	1.25	1.75	2.25	2.50
25	1.10	1.25	1.75	2.25	2.50
50	1.10	1.25	1.75	2.25	2.50
75	1.10	1.25	1.75	2.25	2.50
100	1.10	1.25	1.75	2.25	2.50
150	1.10	1.25	1.75	2.25	2.50
200	1.10	1.25	1.75	2.25	2.50
250	1.10	1.25	1.75	2.25	2.50
300	1.10	1.25	1.75	2.25	2.50
400	1.10	1.25	1.75	2.25	2.50
500	1.10	1.25	1.75	2.25	2.50
750	1.10	1.25	1.75	2.25	2.50
1,000	1.10	1.25	1.75	2.25	2.50
1,250	1.10	1.25	1.75	2.25	2.50
1,500	1.10	1.25	1.75	2.25	2.50
2,000	1.10	1.25	1.75	2.25	2.50
2,250	1.10	1.25	1.75	2.25	2.50
2,500	1.10	1.25	1.75	2.25	2.50
3,000	1.10	1.25	1.85	2.25	2.50
3,500	1.10	1.25	1.85	2.25	2.50
4,000	1.10	1.25	1.85	2.25	2.50
4,500	1.10	1.25	1.95	2.25	2.50
5,000	1.10	1.25	1.95	2.25	2.50
6,000	1.35	1.50	1.95	2.25	2.50
7,500	1.35	1.50	1.95	2.25	2.50
8,000	1.35	1.50	1.95	2.25	2.50
9,000	1.35	1.50	1.95	2.25	2.50
10,000	1.35	1.50	1.95	2.25	2.50
12,000	1.35	1.50	1.95	2.25	2.50
12,500	1.35	1.50	1.95	2.30	2.75
15,000	1.35	1.50	1.95	2.35	2.85
15,000	1.35	1.50	1.95	2.65	3.00
20,000	1.35	1.50	1.95	2.65	3.00
25,000	1.35	1.50	1.95	2.65	3.00
30,000	1.70	1.75	2.50	2.65	3.00
35,000	1.70	1.75	2.50	2.65	3.00
40,000	1.70	1.75	2.50	2.65	3.00
50,000	1.70	1.75	2.50	2.65	3.00
60,000	1.70	2.00	2.75	3.00	3.00
70,000	1.70	2.00	2.75	3.00	3.00
75,000	1.70	2.00	2.75	3.00	3.00
80,000	1.70	2.10	2.85	3.00	3.00
100,000	1.70	2.25	3.00	3.00	3.00
125,000	2.00		3.10	3.20	3.75
150,000	2.25		3.25	3.50	3.75
175,000	2.25		3.35		
200,000	3.00		3.75		

All resistors furnished with mounting brackets at no extra cost. Standard Packing — Individually Boxed.

GREENOHM JR. WIRE-WOUND RESISTORS

★ Handy, inexpensive, ceramic-cased midget wire-wound resistors for tight spots, especially with point-to-point wiring. These tiny resistors take the place of more cumbersome and costlier bracket-mounted units. This "junior" version of the well-known Greenohm power resistors features a wire winding on fibre-glass core, 1 $\frac{1}{2}$ " axial pigtail leads, and a statite protective casing sealed with exclusive Greenohm cold-setting inorganic cement. This resistor will not blister, crack, or change shape. Type C7GJ, 1 $\frac{1}{4}$ " long by $\frac{1}{8}$ " dia., rated at 7 watts. Smaller Type C4GJ, 1" long by $\frac{1}{8}$ " dia., rated at 4 watts. In characteristic Greenohm green, with printed values on casing.



Cat. No. List Price
Type C7GJ (1 to 5000 ohms) \$0.55
Type C4GJ (1 to 1000 ohms)55

CLAROSTAT

FAMOUS GREENOHMS - WIRE-WOUND ADJUSTABLE POWER RESISTORS

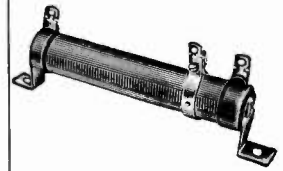


★ These power resistors feature the exclusive Clarostat inorganic cement coating and are similar in rugged construction to the fixed types on page R-7, except for the bared section of the winding contacted at any ohmage by the adjustable slider band. This band is permanently locked in place at the required resistance value by simply tightening a screw.

GREENOHM KIT

★ Here's a simple means of keeping 20 of the most popular 10-watt power resistors always at your finger-tips. Each Greenohm is held by metal clip on the wall chart. Slide off unit and value appears on wall chart, for handy re-ordering.

Cat. No. GK-1..... LIST PRICE \$11.00



DIMENSIONS

★ Fixed and Adjustable Greenohms are of the same dimensions, wattage for wattage, as follows:

Rating	Dia.	Lgth.
10-watt	$\frac{5}{16}$ "	x 1 $\frac{3}{4}$ "
20-watt	$\frac{9}{16}$ "	x 2"
25-watt	$\frac{9}{16}$ "	x 2 $\frac{1}{2}$ "
40-watt	$\frac{3}{4}$ "	x 3 $\frac{1}{2}$ "
50-watt	$\frac{3}{4}$ "	x 4 $\frac{1}{2}$ "
80-watt	$\frac{3}{4}$ "	x 6 $\frac{1}{2}$ "
100-watt	1 $\frac{1}{8}$ "	x 6 $\frac{1}{2}$ "
160-watt	1 $\frac{1}{8}$ "	x 8 $\frac{1}{2}$ "
200-watt	1 $\frac{1}{8}$ "	x 10 $\frac{1}{2}$ "

SERIES AC-10-FA—10-WATT

Dimensions: $\frac{5}{16}$ " dia. x 1 $\frac{3}{4}$ " long

Ohms	Ohms	Ohms	Ohms
1	100	1000	6000
2	150	1250	7000
3	200	1500	7500
5	250	2000	8000
7.5	300	2250	8500
10	350	2500	9000
15	400	3000	10000
20	500	3500	
25	600	4000	
50	750	4500	
75	800	5000	

LIST PRICE: All Sizes: \$0.85
Standard Packing — 10 (ten) per carton

SERIES A-25-KA—25-WATT

Dimensions: $\frac{9}{16}$ " dia. x 2 $\frac{1}{2}$ " long

Ohms	Ohms	Ohms	Ohms
1	100	1500	7500
2	150	2000	8000
3	200	2250	9000
5	250	2500	10000
7.5	300	3000	12000
10	400	3500	15000
15	500	4000	20000
20	750	4500	25000
25	800	5000	50000
50	1000	6000	
75	1250	7000	

LIST PRICES:

1 to 5000 ohms	\$0.95
6000 to 15000 ohms	1.10
20000 to 25000 ohms	1.25
50000 ohms	1.50

Supplied with Mounting Brackets at No Extra Cost.

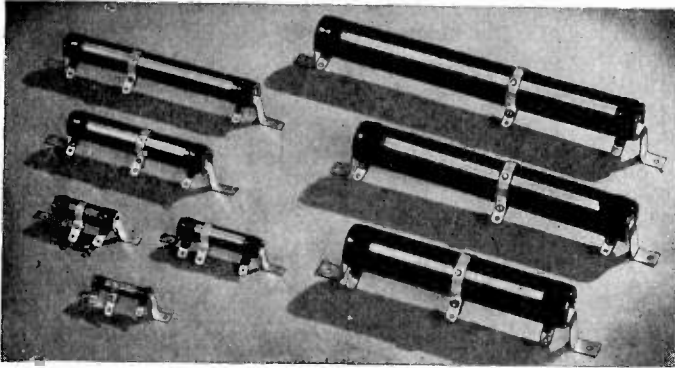
Extra Slider Bands.....\$0.10 each
Standard Packing — Individually Boxed

Ohms	Series K-50-NA	Series K-80-NA	Series K-100-WA	Series K-160-WA	Series K-200-WA	Ohms	Series K-50-NA	Series K-80-NA	Series K-100-WA	Series K-160-WA	Series K-200-WA
	$\frac{3}{8}$ " dia. x 4 $\frac{1}{2}$ " l. 50-watt	$\frac{3}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 80-watt	1 $\frac{1}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 115-watt	1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 160-watt	1 $\frac{1}{8}$ " dia. x 10 $\frac{1}{2}$ " l. 200-watt		Ohms	$\frac{3}{8}$ " dia. x 4 $\frac{1}{2}$ " l. 50-watt	$\frac{3}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 80-watt	1 $\frac{1}{8}$ " dia. x 6 $\frac{1}{2}$ " l. 115-watt	1 $\frac{1}{8}$ " dia. x 8 $\frac{1}{2}$ " l. 160-watt
5	\$1.50	\$1.75	\$2.00	\$2.50	\$3.00	5,000	\$1.50	\$1.75	\$2.25	\$2.65	\$3.25
10	1.50	1.75	2.00	2.50	3.00	6,000	1.75	2.00	2.25	2.65	3.25
15	1.50	1.75	2.00	2.50	3.00	7,000	1.75	2.00	2.25	2.65	3.25
20	1.50	1.75	2.00	2.50	3.00	7,500	1.75	2.00	2.25	2.65	3.25
25	1.50	1.75	2.00	2.50	3.00	8,000	1.75	2.00	2.25	2.65	3.25
50	1.50	1.75	2.00	2.50	3.00	9,000	1.75	2.00	2.25	2.65	3.25
75	1.50	1.75	2.00	2.50	3.00	10,000	1.75	2.00	2.25	2.65	3.25
100	1.50	1.75	2.00	2.50	3.00	12,000	1.75	2.00	2.25	2.90	3.50
150	1.50	1.75	2.00	2.50	3.00	15,000	1.75	2.00	2.25	3.25	3.75
200	1.50	1.75	2.00	2.50	3.00	20,000	1.75	2.00	2.25	3.25	3.75
250	1.50	1.75	2.00	2.50	3.00	25,000	1.75	2.00	2.85	3.25	3.75
300	1.50	1.75	2.00	2.50	3.00	30,000	2.00	2.25	2.85	3.25	3.75
400	1.50	1.75	2.00	2.50	3.00	35,000	2.00	2.25	2.85	3.25	3.75
500	1.50	1.75	2.00	2.50	3.00	40,000	2.00	2.25	2.85	3.25	3.75
750	1.50	1.75	2.00	2.50	3.00	45,000	2.00	2.25	2.85	3.25	3.75
1,000	1.50	1.75	2.00	2.50	3.00	50,000	2.00	2.25	3.00	3.25	3.75
1,250	1.50	1.75	2.00	2.50	3.00	60,000	2.50	2.50	3.00	3.75	3.75
1,500	1.50	1.75	2.00	2.50	3.00	75,000	2.50	2.50	3.15	3.75	3.75
2,000	1.50	1.75	2.00	2.50	3.00	80,000	2.50	2.50	3.15	3.75	3.75
2,500	1.50	1.75	2.00	2.50	3.00	100,000	2.50	2.50	3.65	3.75	3.75
3,500	1.50	1.75	2.00	2.50	3.00	125,000			4.00	4.25	
4,000	1.50	1.75	2.00	2.50	3.00	150,000			4.25	4.25	
4,500	1.50	1.75	2.25	2.50	3.00						

All resistors furnished with mounting brackets at no extra cost.
Standard Packing — Individually Boxed.

LECTROHM *Vitreous Enameled* RESISTORS

Quality—Accuracy—Dependability—Long Life



WIRE WOUND ADJUSTABLE TYPES

The same high quality and construction are used for LECTROHM Adjustable Resistors as are incorporated in LECTROHM fixed units.

These resistors are used for replacing voltage dividers in radio receivers, for radio transmitter power supply, and for general experimental work.

TYPE 1 3/4 EV—10-WATT

DIMENSIONS 1 1/8" x 1 1/8" x 1 3/4"
 TERMINALS Lug Type
 MAXIMUM RESISTANCE 10,000 ohms
 MOUNTING BRACKET Centers 2 1/4"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	3150	\$0.98	750	115	\$0.98
2	2230	.98	800	111	.98
3	1825	.98	1000	100	.98
5	1415	.98	1250	89	.98
7.5	1155	.98	1500	79	.98
10	1000	.98	2000	69	.98
15	815	.98	2250	64	.98
20	707	.98	2500	61	.98
25	630	.98	3000	56	.98
50	447	.98	3500	51	.98
75	365	.98	4000	47	.98
100	315	.98	4500	44	.98
150	258	.98	5000	40	.98
200	223	.98	6000	36	.98
250	200	.98	7000	33	.98
300	182	.98	7500	32	.98
350	169	.98	8000	31	.98
400	158	.98	8500	30	.98
500	141	.98	10000	24	.98
600	129	.98			

TYPE 25V—25-WATT

DIMENSIONS 1 1/8" x 1 1/8" x 2"
 TERMINALS Solder Lug
 MAXIMUM RESISTANCE 25,000 ohms
 MOUNTING BRACKET Centers 2 7/8"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	5000	\$1.24	1000	158	\$1.24
3	2890	1.24	1250	141	1.24
5	2240	1.24	1500	129	1.24
10	1580	1.24	2000	112	1.24
15	1290	1.24	2500	100	1.24
25	1000	1.24	3000	91	1.24
50	707	1.24	3500	84	1.24
75	575	1.24	4000	79	1.24
100	500	1.24	5000	71	1.24
150	400	1.24	6000	64	1.43
200	353	1.24	7500	57	1.43
250	316	1.24	10000	50	1.43
300	288	1.24	12000	44	1.43
400	250	1.24	15000	26	1.43
500	224	1.24	20000	22	1.56
750	182	1.24	25000	20	1.56

TYPE 4 1/2 MV—50-WATT

DIMENSIONS 3/4" x 1/2" x 4 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 5 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	3160	\$1.95	3000	129	\$1.95
10	2230	1.95	4000	112	1.95
25	1410	1.95	5000	100	1.95
50	1000	1.95	7500	81	2.15
75	816	1.95	10000	70	2.15
100	707	1.95	12000	64	2.15
150	577	1.95	15000	57	2.15
200	500	1.95	20000	50	2.15
250	447	1.95	25000	44	2.15
300	408	1.95	30000	41	2.47
400	354	1.95	40000	35	2.47
500	316	1.95	50000	20	2.47
750	258	1.95	60000	18	2.86
1000	224	1.95	75000	17	2.86
1500	182	1.95	80000	16	2.86
2000	158	1.95	100000	14	2.86
2500	141	1.95			

TYPE 6 1/2 MV—80-WATT

DIMENSIONS 3/4" x 1/2" x 6 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
10	2830	\$2.54	3500	152	\$2.54
15	2310	2.54	5000	126	2.54
25	1790	2.54	7500	103	2.86
50	1265	2.54	10000	89	2.86
100	894	2.54	15000	73	2.86
250	586	2.54	20000	63	2.86
300	517	2.54	25000	57	2.86
400	495	2.54	30000	51	3.25
500	400	2.54	40000	44	3.25
750	327	2.54	50000	25	3.25
1000	283	2.54	60000	23	3.58
1500	231	2.54	75000	21	3.58
2000	200	2.54	80000	20	3.58
2500	179	2.54	100000	18	3.58

TYPE 6 1/2 KV—100-WATT

DIMENSIONS 1 1/8" x 3/4" x 6 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
50	1413	\$2.86	15000	81	\$3.25
100	1000	2.86	20000	70	3.25
500	447	2.86	25000	63	3.25
1000	316	2.86	30000	57	3.58
2000	223	2.86	35000	53	3.58
3000	182	2.86	40000	50	3.58
4000	158	2.86	50000	44	3.58
5000	141	2.86	75000	23	3.90
7500	115	3.25	100000	20	3.90
10000	100	3.25			

TYPE 8 1/2 KV—160-WATT

DIMENSIONS 1 1/8" x 3/4" x 8 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 9 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	5660	\$3.58	10000	126	\$3.58
10	4000	3.58	15000	103	4.16
25	2530	3.58	20000	89	4.16
50	1788	3.58	25000	80	4.16
100	1266	3.58	30000	73	4.16
500	566	3.58	40000	55	4.16
1000	400	3.58	50000	43	4.16
2500	253	3.58	75000	27	4.55
5000	179	3.58	100000	18	4.55

TYPE 10 1/2 KV—200-WATT

DIMENSIONS 1 1/8" x 3/4" x 10 1/2"
 TERMINALS Solder Lugs
 MAXIMUM RESISTANCE 100,000 ohms
 MOUNTING BRACKET Centers 11 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
50	2000	\$4.29	10000	141	\$4.29
100	1414	4.29	20000	100	5.00
500	632	4.29	25000	89	5.00
1000	447	4.29	30000	81	5.00
1500	361	4.29	50000	63	5.00
2000	316	4.29	75000	51	5.00
2500	283	4.29	100000	28	5.00
5000	200	4.29			

ADJUSTABLE LUGS

Diameter of Resistor	List Price
	3/8"	$0.13
5/8"	.13
7/8"	.20
1 1/4"	.20

Screw-Driver Type

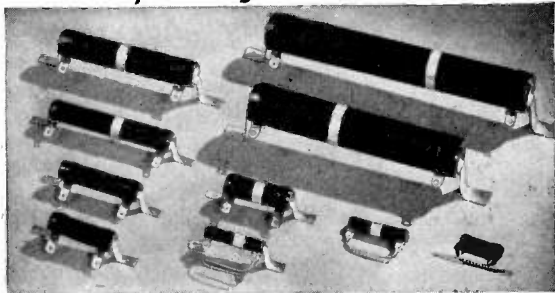
Mounting brackets and one band are furnished with all adjustable types.

LECTROHM *Vitreous* Enameled RESISTORS

Quality—Accuracy—Dependability—Long Life

WIRE WOUND—FIXED TYPES

LECTROHM Resistors are manufactured from the highest quality materials obtainable and are rated according to R.M.A. standards. LECTROHM Resistors are rugged—dependable—accurate—quality components that will give long trouble-free service. (Mounting brackets available for 20, 50, 80, 100, 160 and 200 watt units.)



TYPE 1 1/4L—5-WATT

DIMENSIONS..... 1/4" x 3/8" x 1/4"
TERMINALS..... Pig Tail
MAXIMUM RESISTANCE..... 10,000 ohms
No Mounting Brackets

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	2240	\$0.52	300	129	\$0.52
2	1580	.52	350	119	.52
3	1290	.52	400	111	.52
4	1110	.52	500	100	.52
5	1000	.52	600	91	.52
10	707	.52	700	84	.52
15	575	.52	750	81	.52
20	500	.52	800	79	.52
25	447	.52	900	74	.52
30	408	.52	1000	70	.52
35	374	.52	1100	64	.52
40	346	.52	1200	60	.52
50	316	.52	1250	59	.52
75	258	.52	1500	54	.52
100	225	.52	1750	50	.52
125	200	.52	2000	44	.52
150	182	.52	2500	40	.52
200	158	.52	3000	36	.52
225	149	.52	4000	31	.52
250	141	.52	5000	28	.52

TYPE 2R—20-WATT

DIMENSIONS..... 1/2" x 5/16" x 2"
TERMINALS..... Solder Lug
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 2 7/8"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	2000	\$0.91	1100	131	\$0.91
10	1414	.91	1250	126	.91
15	1153	.91	1500	115	.91
20	1000	.91	2000	100	.91
25	894	.91	2500	89	.91
40	707	.91	3000	81	.91
50	633	.91	4000	70	.91
60	571	.91	5000	63	.91
75	517	.91	6000	57	.91
100	448	.91	7000	53	.91
125	400	.91	7500	51	.91
150	365	.91	8000	50	.91
200	316	.91	10000	43	.91
250	283	.91	12500	39	.91
300	258	.91	15000	30	.91
350	238	.91	20000	24	.91
400	223	.91	25000	21	1.11
500	200	.91	30000	21	1.11
600	182	.91	35000	18	1.11
700	169	.91	40000	17	1.11
750	163	.91	45000	13	1.11
800	158	.91	50000	11	1.11
1000	141	.91			

TYPE 6 1/2K—100-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 6 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
25	2000	\$2.15	3000	180	\$2.15
50	1414	2.15	5000	140	2.15
75	1155	2.15	7500	115	2.54
100	1100	2.15	10000	100	2.54
150	815	2.15	15000	80	2.54
200	633	2.15	20000	70	2.54
500	447	2.15	25000	63	2.54
750	365	2.15	30000	58	2.86
1000	315	2.15	40000	50	2.86
1250	280	2.15	50000	44	2.86
1500	250	2.15	60000	41	3.25
2000	220	2.15	75000	36	3.25
2500	200	2.15	100,000	31	3.58

TYPE 1 3/4—10-WATT

DIMENSIONS..... 3/8" x 1/2" x 1 1/4"
TERMINALS..... Pig Tail
MAXIMUM RESISTANCE..... 40,000 ohms
No Mounting Brackets

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
1	3150	\$0.59	1500	79	\$0.59
2	2230	.59	1750	74	.59
3	1825	.59	2000	69	.59
5	1415	.59	2250	64	.59
7.5	1155	.59	2500	61	.59
10	1000	.59	3000	56	.59
15	815	.59	3500	51	.59
20	707	.59	4000	47	.59
25	630	.59	4500	44	.59
50	447	.59	5000	40	.59
75	365	.59	6000	36	.59
100	315	.59	7000	33	.59
150	258	.59	7500	31	.59
200	223	.59	8000	31	.59
250	200	.59	8500	30	.59
300	182	.59	10000	24	.59
350	169	.59	12000	20	.65
400	158	.59	12500	20	.65
500	141	.59	15000	18	.65
600	129	.59	17500	17	.65
700	119	.59	18000	16	.65
750	115	.59	20000	15	.65
800	111	.59	22500	15	.65
900	105	.59	25000	14	.65
1000	100	.59	30000	8	.65
200	91	.59	40000	7	.65
250	89	.59			

TYPE 4 1/2M—50-WATT

DIMENSIONS..... 3/4" x 1/2" x 4 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 5 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	3165	\$1.56	6000	85	\$1.82
10	2230	1.56	7000	78	1.82
25	1300	1.56	7500	77	1.82
50	1000	1.56	8000	75	1.82
100	700	1.56	10000	66	1.82
200	500	1.56	12000	63	1.82
250	440	1.56	12500	60	1.82
500	300	1.56	15000	56	1.82
750	250	1.56	20000	48	1.82
1000	215	1.56	25000	43	1.82
1500	175	1.56	30000	39	2.08
2000	155	1.56	40000	34	2.08
2500	135	1.56	50000	30	2.08
3000	120	1.56	60000	28	2.08
4000	105	1.56	75000	25	2.08
5000	95	1.56	100000	21	2.08

TYPE 8 1/2K—160-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 8 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 9 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	5660	\$2.86	4500	185	\$2.86
10	4000	2.86	5000	180	2.86
25	2530	2.86	7500	145	2.86
50	1788	2.86	10000	125	2.86
75	1460	2.86	15000	105	3.45
100	1260	2.86	20000	90	3.45
200	900	2.86	25000	80	3.45
500	570	2.86	30000	67	3.45
1000	400	2.86	35000	57	3.45
1500	330	2.86	40000	50	3.45
2000	280	2.86	50000	40	3.45
2500	250	2.86	60000	33	3.90
3000	230	2.86	70000	28	3.90
3500	215	2.86	80000	25	3.90
4000	200	2.86	100000	20	3.90

TYPE 6 1/2M—80-WATT

DIMENSIONS..... 3/4" x 1/2" x 6 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 7 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	4000	\$2.04	5000	122	\$2.04
10	2730	2.04	6000	112	2.41
25	1730	2.04	7500	100	2.41
50	1290	2.04	8000	98	2.41
100	865	2.04	10000	86	2.41
200	612	2.04	15000	70	2.41
250	545	2.04	20000	61	2.41
500	387	2.04	25000	55	2.41
750	316	2.04	30000	50	2.72
1000	274	2.04	50000	43	2.72
1500	223	2.04	50000	39	2.72
2000	193	2.04	60000	37	3.09
2500	173	2.04	75000	31	3.09
3000	158	2.04	100000	27	3.40
4000	137	2.04			

TYPE 10 1/2K—200-WATT

DIMENSIONS..... 1 1/8" x 3/4" x 10 1/2"
TERMINALS..... Solder Lugs
MAXIMUM RESISTANCE..... 100,000 ohms
MOUNTING BRACKET..... Centers 11 1/2"

Res. Ohms	Max. M.A.	List Price	Res. Ohms	Max. M.A.	List Price
5	6310	\$3.58	4500	210	\$3.58
10	4470	3.58	5000	200	3.58
25	2830	3.58	7500	165	3.58
50	2000	3.58	10000	140	3.58
75	1635	3.58	15000	115	4.29
100	1400	3.58	20000	100	4.29
250	900	3.58	25000	90	4.29
500	630	3.58	30000	82	4.29
1000	450	3.58	35000	71	4.29
1500	365	3.58	40000	62	4.29
2000	315	3.58	50000	50	4.29
2500	280	3.58	60000	42	4.29
3000	260	3.58	75000	33	4.29
3500	240	3.58	100000	25	4.29
4000	225	3.58			

LECTROHM R. F. PLATE CHOKES (1000 Milliamps.)



Type	RFC-1	RFC-2	RFC-3	RFC-4
Amateur				20, 40
Band Meters	5	10 & 20	20 & 40	80 & 160
Microhenries	5.4	35	95	220
D. C. Ohms	0.85	5.9	6	3
Length, Overall	1 3/8"	3"	6"	6 1/2"
Diameter	1/4"	3/8"	1/2"	3/4"
List Price	\$0.33	\$1.04	\$1.56	\$2.15



LECTROHM INSULATED WIRE-WOUND RESISTORS—1 WATT

Ohms	Max. Current Mills.	Ohms	Max. Current Mills.	Ohms	Max. Current Mills.
100	100	750	36	9000	10
125	89	800	35	10,000	10
150	81	900	33	12,500	9
200	70	1,000	31	15,000	8
250	63	1,200	30	16,000	7
300	57	1,500	28	17,500	7
350	53	1,750	28	18,000	7
400	50	2,000	25	20,000	7
500	44	2,500	23	22,500	6
600	40	3,000	22	25,000	6
700	37	3,250	21		

List Price, Each



"CARBOMITE" M-TYPE RESISTORS

(Actual size as Illustrated)



M1-1 WATT



M2-2 WATT



M $\frac{1}{2}$ - $\frac{1}{2}$ WATT

- Meet JAN-R-11 Army-Navy Specification
- Low Noise Level; Low Voltage Coefficient
- Stamped With Value
- Extra Small Size
- High Insulation 1000 volt Breakdown

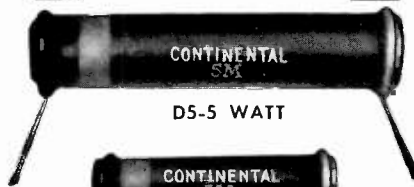
Continental's New "CARBOMITE" bakelite insulated carbon composition resistors are now the standard of Electronic components used in the Radio and Electronic Industries. They meet all specifications of the joint Army-Navy-Jan-R-11 including the toughest of all tests the "Salt water immersion cycling." The "CARBOMITE" M type resistor consists of a solid molded carbon core, outer molded bakelite insulated shell and molded in leads. These resistors being well insulated can be mounted side by side or against any metal surface without shorting or grounding. They are recommended where space limits and insulating quality require a rugged reliable and small resistor capable of withstanding severe service. The lead wires are straight and are tinned with a tin composition heavy enough to give instant soldering with the touch of the heated soldering iron tip. The resistor values are easily identified by the bright non-rubbing off color code bands and the white ink stamped numbers of the value on the body of the resistor. The M2-2 watt, M1-1 watt and the M $\frac{1}{2}$ - $\frac{1}{2}$ watt are made in all the standard preferred RMA values as listed in the table below and are packed in quantities of 10 or 50 of each value to the box. Order in these quantities or multiples thereof.

Type	Size	List Price	Tolerance
M $\frac{1}{2}$	$\frac{5}{8}$ " x $\frac{3}{8}$ " Dia.	\$0.33	5% 10%
M1	$\frac{9}{16}$ " x $\frac{3}{8}$ " Dia.	.50	.25
M2	$\frac{1}{8}$ " x $\frac{3}{8}$ " Dia.	.66	.33

CONTINENTAL D-TYPE



D5ST2-5 WATT



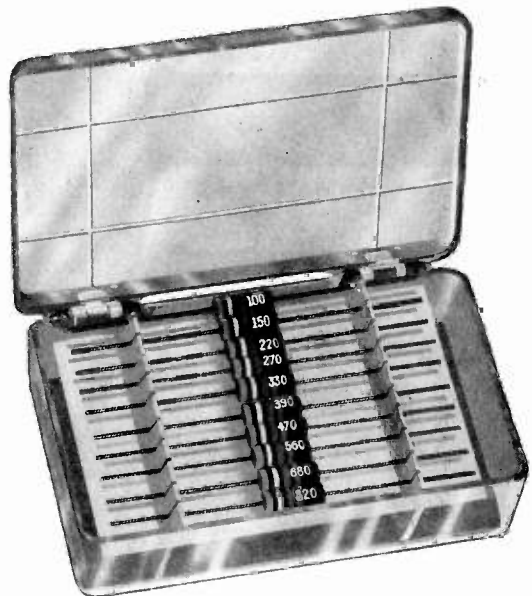
D5-5 WATT



D3-3 WATT

"POCKET-PAC" RESISTOR KITS

- De Luxe Clear Plastic Boxes
- Color Code in Each Kit
- Strongly Hinged Covers
- Values Stamped on Each Resistor



These "Pocket-Pac" Kit-Boxes are made of clear durable plastic. The contents can be easily seen thru the walls of the box. A Color Code Indicator and the Box are furnished free with each Kit.

FORTY RESISTOR "POCKET-PAC" KIT VALUES

Ohms	Ohms	Ohms	Megohms	Megohms
100	1000	10,000		
150	1500	15,000	0.1	1.0
220	2200	22,000	.15	
270	2700	27,000	.22	2.2
330	3300	33,000	.27	
470	4700	47,000	.33	
560	5600	56,000	.47	4.7
680	6800	68,000	.56	
820	8200	82,000	.68	
			.82	10.0

"Pocket-Pac"

Code No.	Quantity and Type	Box Size	List Price
40A	40 M $\frac{1}{2}$ - $\frac{1}{2}$ watt	4 $\frac{1}{2}$ x 2 $\frac{3}{4}$ x 1	\$6.80
40B	40 M1 - 1 watt	4 $\frac{1}{2}$ x 2 $\frac{3}{4}$ x 1	10.00
40C	40 M2 - 2 watt	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	13.20
80D	40 M $\frac{1}{2}$ plus 40 M1	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	16.80
80E	2 ea. 40 values M $\frac{1}{2}$	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	13.60
80F	2 ea. 40 values M1	7 x 3 $\frac{1}{2}$ x 1 $\frac{3}{8}$	20.00

- Heavy Duty Carbon
- Operate safely on overloads
- Non-inductive

The D-Type resistor with radial leads is made with solid molded carbon rods, copper sprayed on the ends to which are soldered No. 18 copper tinned leads. The soldered contact construction insures a noise-free and stable resistor. They are known as the heavy duty type units because of their size—having a larger radiating area they operate safely on overloads. A baked-on insulation is a protection against shorts to subpanel and wiring.

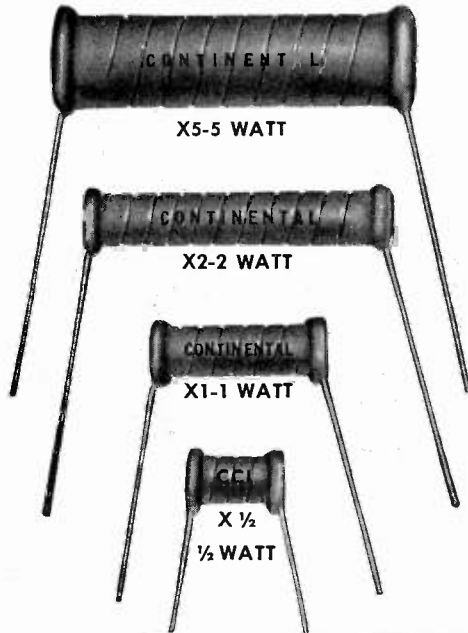
Type	Wattage	Size	List Price	Tolerance
D 3	3 Watt	2" x $\frac{3}{8}$ "	\$0.60	$\pm 5\%$ $\pm 10\%$
D 4	4 Watt	2 $\frac{1}{2}$ " x $\frac{1}{2}$ "	.75	.50
D 5	5 Watt	3" x $\frac{3}{8}$ "	.80	.60
D 5ST2*	5 Watt	3" x $\frac{3}{8}$ "	1.25	1.00

*D5ST2 units have heavy copper eyeletted and soldered strap terminals $\frac{3}{8}$ " wide with holes of 2 $\frac{1}{8}$ " spacing. The outer holes can be used with either 6-32 screw mounting or solder wire loops, while the inner holes are for 8-32 screw mounting. The outer section of the terminal can be cut off or bent to any angle desired.



"Nobleloy" X-Type Resistors

Trade Mark Reg.



- A new Continental Development!
- Not Wire Wound
- Not carbon!
- Stability of Wire Wound and Equivalent

After several years of research work CONTINENTAL engineers have developed a new resistor involving the metal film principle, having the accuracy of a wire wound unit. Absolutely no carbon whatever is used in the fabrication of these resistors. The metallic resistance film is formed on the surface of a low loss ceramic tube using a patented pyrochemic process.

The metal film thus formed is hermetically sealed by a layer of vitreous enamel specially developed and patented by CONTINENTAL. The ceramic tube with its associated film is then spiraled to give a long resistance path and to accurately calibrate the unit to value.

Since the ceramic tubes are hollow they allow a larger surface for heat radiation, thus permitting the resistor to withstand overloads of 200% or better.

The copper-tinned lead terminals are soldered to extremely low resistance metal contact films which in turn are integral with the resistance film, thereby reducing contact resistance to a minimum. This type of construction produces a resistor unit having not only excellent resistance stability but also a negligible noise characteristic.

ELECTRICAL CHARACTERISTICS OF CONTINENTAL "NOBLELOY X" TYPE RESISTORS

Voltage

The recommended voltage rating of Continental "NOBLELOY X" type resistors is the maximum r.m.s. voltage which the resistor is expected to withstand in continuous use and is determined from the formula:

$E = \sqrt{WR}$ Where E = rated D.C. or r.m.s. A.C. Voltage, W = watts rating, R = resistance.

In no case shall the D.C. or r.m.s. A.C. voltage be greater than the maximum voltage shown in the table.

Load Characteristics

Irrespective of value, Continental "NOBLELOY X" type resistors will not change more than 5.0% when the load is increased from 2% of rated wattage to 200% of rated wattage, and on cooling to room temperature returns to the original value. This is practically the temperature coefficient effect.

Voltage Characteristics

Voltage coefficient does not exceed $\frac{1}{10}$ of 1%.

Normal Load Life Characteristics (All Values)

The permanent change in resistance will not be more than 1.0% when the resistor is subjected to a normal life test of 1000 hours.

Overload Life Characteristics (All Values)

The permanent change in resistance will not be more than 2.0% when the resistor is subject to 200% of rated wattage for a period of 1000 hours.

Temperature Coefficient (All Values)

The temperature coefficient of resistance will not exceed 0.0005 (.05 per degree Centigrade) Negative.

Humidity Characteristics (All Values 1.0 Ohm to 15 Megohms)

Continental "NOBLELOY X" type resistors will not change more than 1.5% when conditioned in an atmosphere of 100% relative humidity at 40° C. ambient, for a period of 1000 hours.

Shelf Life

When stored under normal conditions, the resistance will not change more than 0.1% during a period of 2000 hours. This is a negligible change.

Noise Characteristic

When tested for noise according to standard R.M.A. procedure, the inherent noise level will not exceed $\frac{1}{4}$ microvolt per volt, irrespective of resistance value. This level is equal to wire wounds.

Finish

All "X" type resistors possess a smooth, uniform coating of a special rubberized enamel capable of resisting deterioration up to and including 400°F.

Type	Wattage	Size	Values	Recommended		List Prices	
				Voltage	Max. Voltage	1%	5%
X-1/2	1/2 Watt	3/8" x 5/8"	1/2 ohm to 5 megohm	500	700	\$1.00	\$.85
X-1	1 Watt	3/8" x 1"	1 ohm to 10 megohm	700	1000	1.00	.85
X-2	2 Watt	3/8" x 1 3/4"	2 ohm to 20 megohm	1000	1500	1.20	1.05
X-5	5 Watt	1/2" x 2"	3 ohm to 30 megohm	1250	2000	1.40	1.25

No. 18 tinned copper leads 1 1/2" long.

FILTERNOYS



FILTERNOYS

FILTERNOYS Paper Condensers



EE TYPE



IE TYPE

CONTINENTAL Carbon Model E condensers are high quality, paper dielectric capacitors built in shapes and sizes equivalent to electrolytic capacitors commonly found in radio receivers. They are flash tested at 3 times their d.c. working voltage and have the advantage of low power factor at 60 cycles. They are non-inductive, non-polarized, and are of permanent capacity. No active chemicals are used which could cause corrosion of the foil or leakage. The tabulations below show the actual capacity in microfarads and the rated sizes of electrolytic condensers occupying the same dimensions. Recommended for use on d.c. and rectified a.c. only. Model E, d.c. working volts, 600; peak volts, 1000.

Data and Prices on Type E Condensers

Cardboard Containers
Furnished with Six-Inch Wire Leads

E-Type—600 Volts d.c.

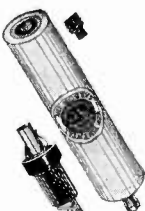
Code	Capacity in Mfds.	Equivalent Electrolytic	Size	List Price
EE2	1.2	2	4 3/8 x 1 3/8 x 1 1/8	\$1.35
EE4	2.4	4	4 3/8 x 1 3/8 x 1 1/8	1.65
EE8	4.8	8	4 3/8 x 1 3/8 x 1 1/8	2.00

Condensers in Metal Cans
Inverted Stud Mounting, Six-Inch Leads
Insulated from Can

IE4	2.4	4	4 3/8 x 1 3/8 Dia.	\$2.00
IE8	4.8	8	4 3/8 x 1 1/2 Dia.	2.35

Oil Burner Suppressor

Filternoys Suppressor OB15, carbon element type, intended for use only with the high tension spark ignition of oil or gas burning heating systems. Must be connected in series with each line to the spark gap. Size of the suppressor 3 1/2" x 3/4" diameter. Universal connections at both ends for solderless contact.



OB15.....List Price \$1.80

FILTERNOYS F02GH Most Popular and Universal Plug-in Type FOR ELECTRIC RAZORS

SUPPRESSION TYPE

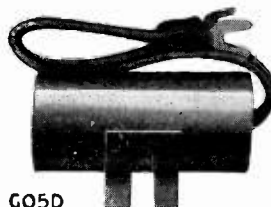
Handy plug-in type suppressor with two r-f chokes, two condensers, and a ground lead for use on electrical devices of 300 watts or less, creating interference of intermittent or temporary character, such as a sewing machine motor, small electric washing machines, electric shavers, drink mixers, cash registers, adding machines, or electric typewriters. Size 2 5/8" by 1 3/8" diameter. 300-Watt capacity on 120 volts, a.c. or d.c.



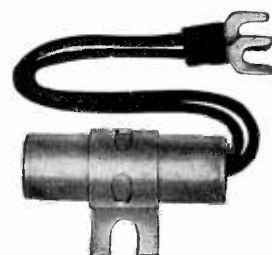
Filternoys F02GH.....List Price \$2.00

FILTERNOYS G05D, G01D

Designed to Be Mounted Directly on Small Electrical Devices



G05D



Filternoys G05D has two 0.5 Mfd. condensers, one connected to each lead and the other ends grounded to the can at a common point. This Filternoys can be connected across each pair of brushes of generators, motors and the line wires of all stationary electric devices. Rating: 115-230 Volts a.c. or d.c.

G05D—Size 2 1/4 x 1,
List Price \$1.50

Filternoys Diverter G01D—Dual capacitors in a grounded container for any size electric motor operating on 120 v. or less. Through making use of the field coils as chokes, this is a most effective method to silence a noisy a.c. or d.c. motor. Size 1 7/8" x 5/8" diameter. Shock Proof.

G01D....List Price \$0.75

FILTERNOYS F18

Filternoys Diverter F18 is a compact 0.1 mfd capacitor in a conveniently small bakelite plug-in coupler for use across domestic power lines in which the neutral wire is grounded. The capacitor diverts interference from the high potential side of the power line to the grounded neutral side. Use on floor or table lamps, cigarette lighters, and the radio.



F18.....List Price \$0.75

SUPPRESSORS



SUPPRESSORS

ALL SPARK PLUG SUPPRESSORS AND DISTRIBUTOR SUPPRESSORS EACH LIST PRICE \$0.30

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

They have mechanical strength to stand the most severe service. The resistance value of 10,000 ohms has been scientifically determined. Sparking across the terminals is eliminated by careful shaping of the electrodes and cases.

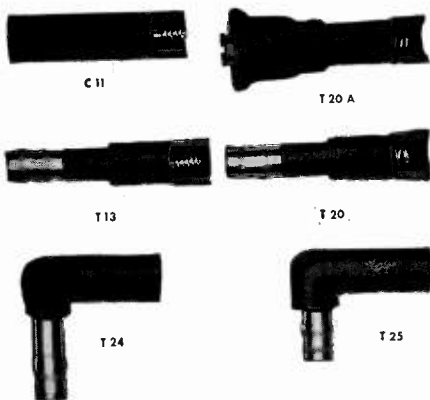
SPARK PLUG SUPPRESSORS



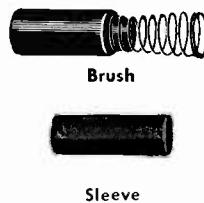
TYPE	SPARK PLUG CONNECTION
S-19	Vertical — Snaps on to spark plug.
S-19-A	Vertical — Rajah special terminal.
S-19-D	Vertical — Snaps on to spark plug same as S-19.
S-27	Vertical — Screws on.
S-27-D	Vertical — Screws on.
S-21	"U" bracket type.
S-21-D	"U" bracket type.
S-23	Elbow — Flexible, snaps on.
S-23-D	Elbow — Flexible, snaps on.
S-20-A	Elbow — Snaps on spark plug.
S-25	Elbow — Snaps on spark plug and also fits distributor. A universal suppressor.

CABLE CONNECTION
Cable terminal snaps on.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable terminal snaps on.
Cable terminal snaps on and with a removable ferrule nut for spade terminal.
Cable screws into suppressor, making a moisture proof insulated joint.
Cable screws into suppressor, making a moisture proof insulated joint.

DISTRIBUTOR SUPPRESSORS

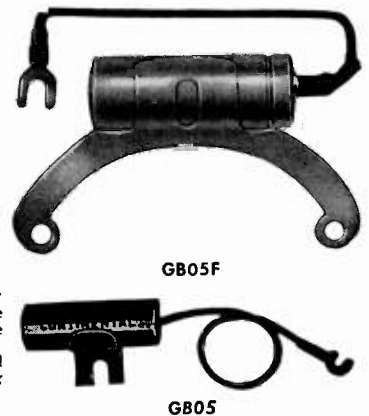


FORD DISTRIBUTOR SUPPRESSOR



T-17: Brush and Sleeve Supplied Together
 Distributor Type Brush Suppressor of the right resistance to suppress interference from the spark at the rotor.
 Universal Type: the brush can be inserted in the bakelite sleeve to fit models using the larger size brush.

GENERATOR CONDENSERS



ALL SPARK PLUG AND DISTRIBUTOR SUPPRESSORS EACH LIST PRICE \$0.30

Type	Application	Capacity	Size	List Price
GB05	Generator and coil	.5 mfd.	2 1/8" x 3/4"	\$0.60
GB05F	Ford V-8 coil	.5 mfd.	2 1/8" x 3/4"	.75

TYPE	DISTRIBUTOR CONNECTION
C-11	
T-13	Vertical — Snaps in distributor well.
T-20	Vertical — Snaps in distributor well.
T-20-A	Vertical — Snaps in distributor well and has a rubber skirt for moisture proof connection.
T-24	Elbow — Snaps in distributor well.
T-25	Elbow — Snaps in distributor well and fits both spark plug or distributor on Chevrolet and other makes.

CABLE CONNECTION
The ignition cable can be cut at any point and the two ends screwed into the suppressor.
Cable screws into suppressor, making a moisture proof insulated joint.
Cable with terminal lelip snaps easily into suppressor.
Cable with terminal lelip snaps easily into suppressor.
Cable screws into suppressor.
Cable screws into suppressor.

WIRT

WIRE WOUND FIXED RESISTORS

WIRE WOUND FIXED RESISTORS

To satisfy the most exacting needs of the Radio and Electronic Industries, Wirt Fixed Wire-wound Resistors are regularly furnished in PHENOCOTE protective coatings, developed and steadily improved over a period of many years in the Wirt Laboratories. The resistor wire is space wound on low loss ceramic tubes. The PHENOCOTE covering is an exclusive organic cement coating offering maximum protection to the resistance winding against the detrimental effects of moisture, humidity and electrolysis. Absolutely inert chemically, it will not effect the most delicate windings. It is particularly recommended for fine wire sizes and all applications where the maximum temperature of the unit will not exceed 300° F. These Resistors are universally used in the Radio, Electronic, Instrument, Public Address and Test Equipment fields.

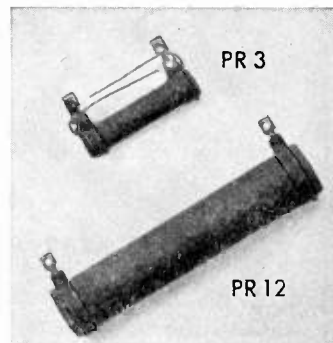


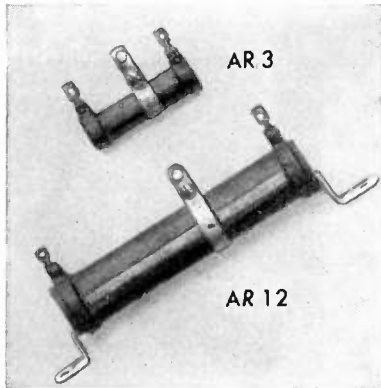
TABLE OF SPECIFICATIONS OF FIXED RESISTORS

Cat. No.	Watts	Sizes Phys.	Resistance Limits (Ohms)	List Price (Ea.)	Accessories Terminals	Mounting Brackets	Mounting Centers	Packing
PR 1	5	3/8"x1"	1 to 10000	\$0.53	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 3	10	3/8"x1 3/4"	1 to 10000 11000 to 25000	.59 .65	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 4	20	1/2"x2"	5 to 15000 16000 to 50000 51000 to 100000	.91 1.11 1.43	Soldering Lugs & Wire Leads	None	.....	10 to a box
PR 12	50	3/4"x4"	5 to 5000 5100 to 25000 26000 to 100000	1.56 1.82 2.08	Soldering Lugs	2	5"	Individual
PR 19	100	1 1/8"x6 1/2"	5 to 5000 5100 to 25000 26000 to 50000 51000 to 75000 76000 to 100000	2.15 2.54 2.86 3.25 3.58	Soldering Lugs	2	7"	Individual
PR 22	160	1 1/8"x8 1/2"	5 to 10000 11000 to 50000 51000 to 100000	2.86 3.43 3.86	Soldering Lugs	2	9"	Individual
PR 23	200	1 1/8"x10 1/2"	5 to 10000 11000 to 100000	3.58 4.29	Soldering Lugs	2	11"	Individual

When ordering state: Quantity, Catalogue Number and Resistance Value.

WIRT

WIRE WOUND ADJUSTABLE RESISTORS



WIRE WOUND ADJUSTABLE RESISTORS

WIRT Adjustable Resistors are space wound on low loss ceramic tubes to which the resistance wire is bonded, resulting in dependability and long life. Protection of the windings is afforded by the PHENOCOTE covering which is described fully on the preceding page. One adjustable Slider Band, screw driver type, is furnished as standard. Bakelite knob type bands can be furnished on special order at slightly higher prices as shown below.

These bands are made with small contact buttons located on the inside of the band so that a number of taps may be made without shorting out excessive resistance.

TABLE OF SPECIFICATIONS OF ADJUSTABLE RESISTORS

Cat. No.	Watts	Sizes Phys.	Resistance Limits (Ohms)	List Price (Ea.)	Accessories			Mounting Centers	Packing
					Terminals	Brackets Mounting	Slider Bands		
AR 3	10	3/8" x 1 3/4"	1 to 10000	\$0.98	Soldering Lugs	None	1	Individual
AR 7	25	3/4" x 2"	1 to 5000	1.24	Soldering Lugs	2	1	3"	Individual
			6000 to 15000	1.43					
			20000 to 25000	1.56					
AR 12	50	3/4" x 4"	5 to 5000	1.95	Soldering Lugs	2	1	5"	Individual
			7000 to 25000	2.15					
			30000 to 50000	2.47					
			60000 to 100000	2.86					
AR 15	75	3/4" x 6"	10 to 5000	2.54	Soldering Lugs	2	1	7"	Individual
			7500 to 25000	2.86					
			30000 to 50000	3.25					
			60000 to 100000	3.58					
AR 19	100	1 1/8" x 6 1/2"	5 to 10000	2.86	Soldering Lugs	2	1	7"	Individual
			15000 to 50000	3.25					
			75000 to 100000	3.90					
AR 22	160	1 1/8" x 8 1/2"	5 to 10000	3.25	Soldering Lugs	2	1	9"	Individual
			15000 to 50000	4.15					
			60000 to 100000	4.65					
AR 23	200	1 1/8" x 10 1/2"	5 to 10000	4.29	Soldering Lugs	2	1	11"	Individual
			15000 to 100000	5.01					

Extra Adjustable Slider Bands are obtainable and priced as follows:

Wattage Size	Screw Driver Type	Bakelite Knob Type
10, 25, 50, 75	\$0.26	List Price Each \$0.39
100, 160, 200	.33	List Price Each .50

When ordering state: Quantity, Catalogue Number and Resistance Value.

WIRT

MINIATURE RHEOSTATS and POTENTIOMETERS

MINIATURE RHEOSTATS AND POTENTIOMETERS

General: WIRT Metal Housed Rheostats and Potentiometers are rugged and compact affording high quality and dependability in operation. Due to size and construction these controls are moderately priced. Housings are made of tinned steel. Highest quality resistance wire is space wound on specially treated laminated phenolic strips. The Phosphor Bronze contact-arm is grounded to the metal casing and all terminals are silver plated. Switches cannot be furnished. These Rheostats and Potentiometers are adaptable to a wide variety of uses in the Radio Instrument, Electronic and Test Equipment fields. The types available are listed below:

Cat. No. WC801—Two Terminal Rheostat, 2 Watt rating. Resistance Range: 5 ohms to 10,000 ohms with linear winding and standard tolerance of $\pm 15\%$. Diameter is $1\frac{1}{8}$ " and thickness $\frac{1}{2}$ ". Shaft is Cadmium plated steel, grounded to housing. $5/32$ " from end of bushing and slotted for screw driver adjustment. Brass mounting bushings, $\frac{3}{8}$ "- $32 \times \frac{1}{4}$ " long are standard. Each control is equipped with one $9/16$ " hex mounting nut. **List Price**..... \$0.90 Each

Cat. No. WC802—Three Terminal Potentiometer. 2 Watt rating. Resistance Range: 5 ohms to 10,000 ohms with linear winding and standard tolerance $\pm 15\%$. All other specifications are the same as those listed under the WC801 control shown above. **List Price**..... \$1.25 Each

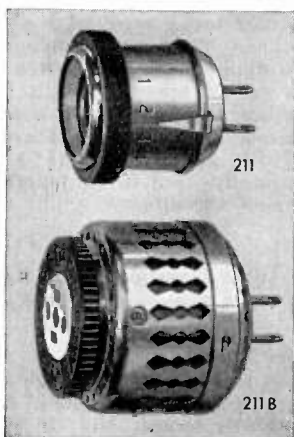
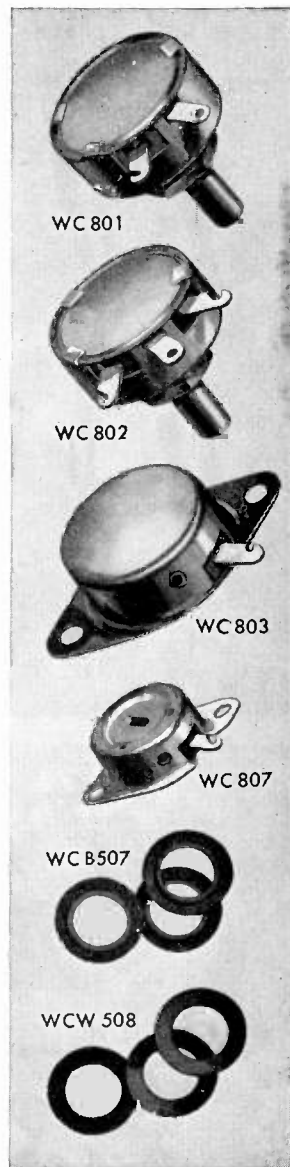
Cat. No. WC803—Sensitivity Control, 2 Watt rating. Resistance Range: 5 ohms to 12,000 ohms with linear winding and standard tolerance of $\pm 15\%$. Diameter is $1\frac{1}{8}$ " and thickness is $\frac{1}{2}$ ". A slot is provided in the Rotor mechanism allowing for screw driver adjustment from front only. **List Price**..... \$0.50 Each

Cat. No. WC804—Sensitivity Control, identical with WC803 Control, except provided with an opening in back of control to permit screw driver adjustment from either front or back. **List Price**..... \$0.55 Each

Cat. No. WC807—Miniature Sensitivity Control, 1.5 Watt rating. Resistance Range: 5 ohms to 3000 ohms with uniform winding and standard tolerance of $\pm 15\%$. A slot is provided in the Rotor mechanism allowing for screw driver adjustment from either front or back. **List Price**..... \$0.50 Each

Cat. No. WCB507—Insulating Bushing for $\frac{3}{8}$ " Brass bushing and used with Cat. Nos. WC801 and WC802 Controls. **List Price**..... \$0.095 Each

Cat. No. WCW508—Insulating Washer for $\frac{3}{8}$ " Brass bushing and used with Cat. Nos. WC801 and WC802 Controls. **List Price**..... \$0.075 Each



VARIABLE VOLTAGE REGULATOR

Cat. No. 211 — Variable Voltage Regulator is wound with high quality alloy wire on an insulated metal core with the winding encased in Di-El-Itc. It can be used as a Radio Voltage Regulator where the Receiver draws not more than 65 watts. For industrial use it can be wound up to 600 ohms maximum and will dissipate up to 8 watts. It is adjustable to 5 positions.

List Price..... \$3.00 Each

Cat. No. 211-B—Regulator has air-cooling features which promote rapid heat dissipation. When used as a Radio Voltage Regulator the Receiver must not draw more than 150 watts. In industrial use for control of voltage and to regulate speed or heat it can be wound with a maximum resistance of 300 ohms and can dissipate up to 20 watts with maximum resistance setting. It is adjustable to 8 positions. **List**..... \$5.00 Each

UTILITY CABINET

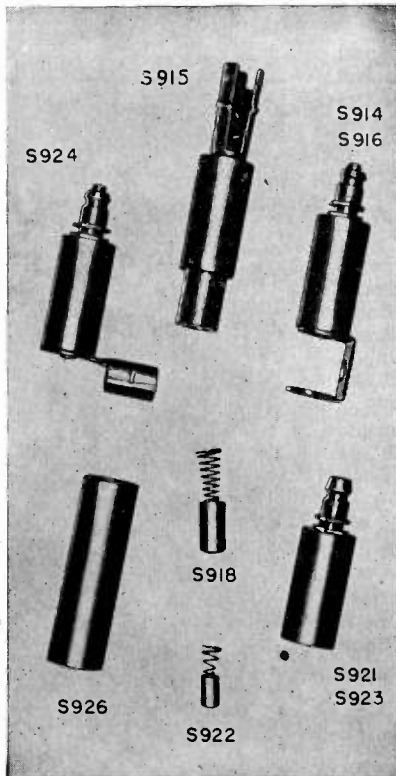
Cat. No. UC—Utility Cabinet is constructed of bass wood with corners dadoed and glued for strength; varnished and rubbed to give a beautiful finish. It has six drawers, each one having three removable partitions. The upper five drawers are 1" deep and the lower one is $1\frac{1}{2}$ " deep. Overall dimensions of the cabinet are 7" wide by $5\frac{5}{8}$ " deep by 9" high. Drawer guides, bottom and partitions are made of three ply laminated wood to prevent warping. Knobs are of wood and securely fastened. It is ideal for the storage of such parts as resistors, condensers, bolts, nuts, washers, small tools, etc. **List**..... \$8.00 Each



WIRT

SUPPRESSORS and SWITCHES

AUTO RADIO IGNITION SUPPRESSORS



Wirt Suppressors are made with moulded black bakelite housings. All metal parts are made of rugged unfinished brass. Terminals are securely fastened to casings and sealed with special moisture and heat resisting dielectric cement. Resistor pills are sprayed with zinc and then double impregnated with a special moisture-proofing compound. Resistance value of all standard types is 10000 ohms $\pm 20\%$; for FV8 types 50000 ohms $\pm 20\%$. The distributed capacity is less than 1.5 mmf. Resistance values will not change more than 7% after being submerged in water for 100 hours. Test by sparking 1800 times per minute at 10,000 volts for 100 hours produces resistance change of not more than 3%. Wirt Suppressors are impervious to heat, oil, moisture and mild acids, and will not change in resistance more than 10% in 50,000 miles of operation.

Cat. No.	Type	List Price
S914	Bracket—Standard	\$0.30 Each
S916	Bracket—For FV-8	.30 Each
S915	Distributor—Slip Fitting	.30 Each
S918	FV-8 Brush—Years 1933-34-35	.30 Each
S922	FV-8 Brush—Years 1936 to 1940	.30 Each
S921	Universal Screw—Standard	.30 Each
S923	Universal Screw—For FV-8	.30 Each
S924	Snap-on Plug	.30 Each
S926	Cable—Screw Fitting	.30 Each

WIRT ROTARY AND SLIDE SWITCHES

Rotary Switches

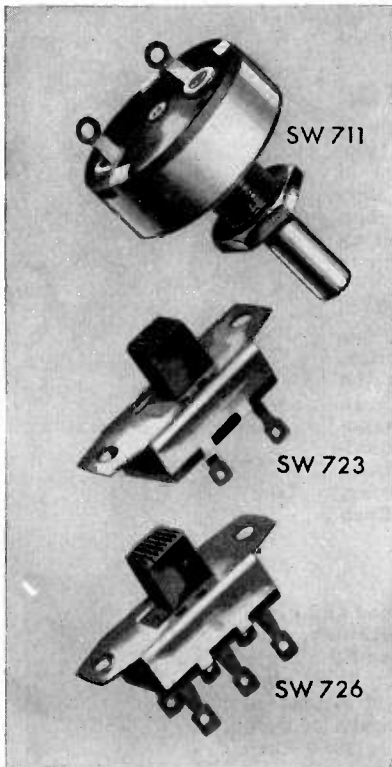
General: Wirt Rotary Switches are of the quick break type, have positive contact, are rugged and neat in appearance. They are constructed with tin plated steel housings. The outside diameter of the switch is $1\frac{1}{8}$ " and thickness $\frac{1}{2}$ ". Standard bushings are of brass, $\frac{3}{8}$ "-32 x $\frac{3}{8}$ " long. Steel shafts are $\frac{5}{8}$ " from end of bushing, and made with a flat. Wiping contacts and terminals are silver plated. Terminals are securely fastened in place. Activating spring is positive in action. One $9/16$ " hex. nut is furnished. These switches are successfully used in conjunction with Radio, Phonograph, Signal and Instrument Circuits.

Cat. No.	Type	List Price
SW711	—SPST Rotary Switch, 3A-125V-AC-DC 2 Terminals	\$0.90 Each
SW711A	—SPDT Rotary Switch, 3A-125V-AC-DC 3 Terminals	1.00 Each

Slide Switches

General: All Wirt Slide Switches are compact and sturdy. Housings are made of steel and are cadmium plated. The physical dimensions of the switches have been standardized, width $35/64$ ", length $1-13/32$ " and mounting centers $1\frac{1}{8}$ ". Standard buttons are of black bakelite. All contacts and terminals are silver plated. Switches SW723 and SW725 are supplied with a dot which indicates the "On" position. These switches are used in the Radio, Signal, Phonograph and Instrument industries.

Cat. No.	Type	List Price
SW723	—SPST Slide Switch, .75A-125V-AC-DC, 2 Terminals	\$0.31 Each
SW724	—SPDT Slide Switch, .75A-125V-AC-DC, 3 Terminals	.37 Each
SW725	—DPST Slide Switch, .50A-125V-AC-DC, 4 Terminals	.44 Each
SW726	—DPDT Slide Switch, .50A-125V-AC-DC, 6 Terminals	.55 Each

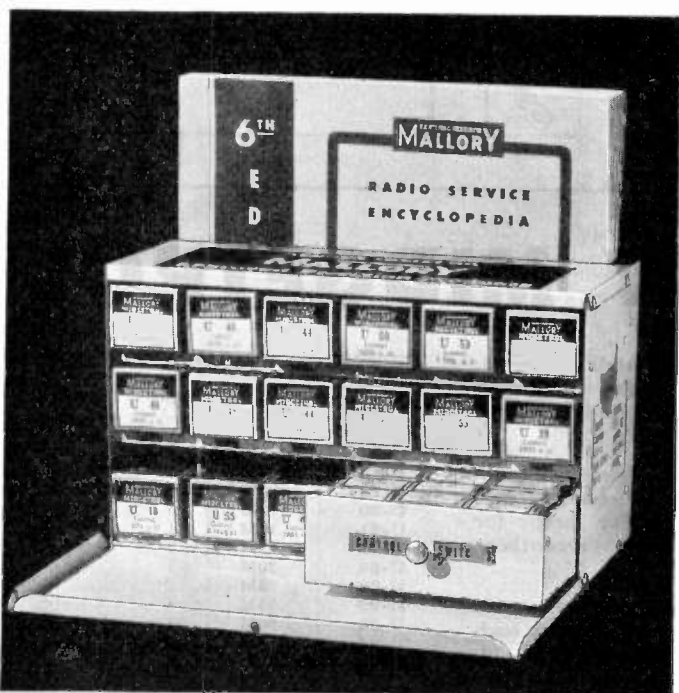


MALLORY CONTROLS AND RESISTORS • LIST PRICES

★ Complete descriptions of these parts will be found on the following pages.

Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price	Mallory Cat. No.	List Price
<i>Mallory Page 11</i>		<i>Mallory Page 13</i>		<i>Mallory Page 14</i>		<i>Mallory Page 16</i>		<i>Mallory Page 17</i>	
Attachable Switches 1½" Dia. Controls		4 Watt • Wire-Wound Potentiometers and Rheostats		Adjustable Mounting Brackets		10 Watt • Fixed Vitreous Enamel Resistors		10HJ7500 to 10HJ10000 \$2.34	
6-9	\$0.60	M1P	\$1.25	RB248	\$0.25	1HJ1 to 1HJ1000	\$0.58	10HJ15000 to 10HJ20000	2.40
6T	.75	M3P	1.25	RB249	.25	1HJ1100 to 1HJ5000	.63	10HJ25000 to 10HJ40000	2.76
7	.75	M6P	1.25	Hexagon Shoulder Nuts		1HJ6000 to 1HJ10000	.72	10HJ50000	2.90
8	.75	M10P	1.25	255	\$0.20	1HJ11000 to 1HJ20000	.80	10HJ75000	3.09
13	.75	M15P	1.25	A11260-12	.25	1HJ22500 to 1HJ50000	.86	10HJ100000	3.26
14	.75	M20P	1.25	A11260-2	.30	20 Watt • Fixed Vitreous Enamel Resistors		80 Watt • Adjustable Vitreous Enamel Resistors	
<i>Mallory Page 12</i>		1 Watt • Carbon • Potentiometers		<i>Mallory Page 15</i>		20HJ25 to 20HJ1000 \$2.79		200 Watt • Fixed Vitreous Enamel Resistors	
B5MP	\$1.25	M25P	1.25	Universal Extension Shafts		20HJ1500 to 20HJ5000	2.84	20HJ7500 to 20HJ10000	3.04
B10MP	1.25	M30P	1.40	RS242	\$0.40	20HJ20000	3.22	20HJ25000 to 20HJ40000	3.34
B25MP	1.25	M40P	1.40	RS243	.40	20HJ75000 to 20HJ100000	3.84	20HJ50000 to 20HJ75000	3.63
B60MP	1.25	M50MP	1.65	RS244	.40	20HJ12500 to 20HJ20000	.94	20HJ25000 to 20HJ40000	1.08
B100MP	1.25	M60P	1.65	RS245	.45	20HJ50000	1.25	20HJ75000 to 20HJ100000	1.43
B250MP	1.25	M70MP	1.95	RS246	.45	50 Watt • Fixed Vitreous Enamel Resistors		10 Watt • Adjustable Vitreous Enamel Resistors	
B500MP	1.25	M75R	1.00	Web Removing Tool		5HJ10 to 5HJ1000	\$1.43	1AV1 to 1AV1000	\$1.21
B1000MP	1.25	M85R	1.00	201	\$0.25	5HJ1500 to 5HJ5000	1.51	1AV1250 to 1AV5000	1.28
T & L Pads Attenuators		7 Watt • Wire-Wound Potentiometers		Universal Flexible Coupling Shafts		5HJ7500 to 5HJ10000	1.64	1AV6000 to 1AV10000	1.36
T6	\$4.25	E5MP	\$3.00	FS250	\$0.75	25 Watt • Adjustable Vitreous Enamel Resistors		100 Watt • Adjustable Vitreous Enamel Resistors	
T8	4.25	E10MP	3.00	FS251	.75	2AV1 to 2AV1000	\$1.59	10AV50 to 10AV1000	\$3.06
T15	4.25	E20MP	3.00	FS252	.75	2AV1250 to 2AV5000	1.61	10AV2000 to 10AV5000	3.14
T50	4.25	E25MP	3.25	FS253	.75	2AV6000 to 2AV10000	1.73	10AV7500 to 10AV10000	3.31
T200	4.25	E50MP	3.25	Dial Plates for Controls, Rheostats, Potentiometers		2AV15000 to 2AV20000	1.78	10AV15000 to 10AV20000	3.51
T250	4.25	E75MP	3.25	369	\$0.25	2AV25000 to 2AV50000	1.92	10AV25000 to 10AV40000	3.73
T500	4.25	E100MP	3.25	391	.15	10 Watt • Adjustable Vitreous Enamel Resistors		200 Watt • Adjustable Vitreous Enamel Resistors	
T2000	4.25	E125MP	3.25	393	.25	2AV1 to 2AV1000	\$1.59	10AV40000 to 10AV50000	3.87
L6	3.75	E150MP	3.25	395	.25	2AV1250 to 2AV5000	1.61	10AV75000	4.06
L8	3.75	<i>Mallory Page 14</i>		396	.25	2AV6000 to 2AV10000	1.73	50 Watt • Adjustable Vitreous Enamel Resistors	
L15	3.75	Shafts • Couplers • Bushings		397	.25	2AV15000 to 2AV20000	1.78	2AV1 to 2AV1000	\$1.59
L50	3.75	EC240	\$0.30	398	.25	2AV25000 to 2AV50000	1.92	2AV1250 to 2AV5000	1.61
L200	3.75	EC256	.30	399	.25	20 Watt • Fixed Vitreous Enamel Resistors		25 Watt • Adjustable Vitreous Enamel Resistors	
L250	3.75	EC257	.30	<i>Mallory Page 16</i>		5HJ12500 to 5HJ20000	1.81	2AV6000 to 2AV10000	1.73
L500	3.75	EB247	.25	5-Watt • Fixed Vitreous Enamel Resistors		5HJ25000 to 5HJ40000	2.01	2AV15000 to 2AV20000	1.78
L2000	3.75	UB241	.95 for 10	HHJ1 to HHJ1000	\$0.53	5HJ50000	2.20	2AV20000 to 2AV25000	1.92
2 Watt • Wire-Wound • Potentiometers		<i>Mallory Page 18</i>		<i>Mallory Page 17</i>		5HJ75000	2.51	50 Watt • Adjustable Vitreous Enamel Resistors	
C6P	\$1.25	Wrench for Volume Control Nuts		100 Watt • Fixed Vitreous Enamel Resistors		5HJ100000	2.71	5AV5 to 5AV1000	\$2.06
C10P	1.25	178	\$0.25	HHJ1100 to HHJ5000	.58	Extra Adjustable Clips		No. 1V \$0.37	
C15P	1.25	20 Watt • Fixed Vitreous Enamel Resistors		<i>Mallory Page 18</i>		10HJ25 to 10HJ1000	\$2.12	No. 3V	.37
C20P	1.25	50 Watt • Fixed Vitreous Enamel Resistors		50 Watt • Fixed Vitreous Enamel Resistors		10HJ1500 to 10HJ5000	2.17	No. 6V	.47
C30P	1.25	100 Watt • Fixed Vitreous Enamel Resistors		100 Watt • Fixed Vitreous Enamel Resistors					
C40P	1.25								
C50P	1.25								
C100P	1.25								
C200P	1.25								
C400P	1.25								
C1MP	1.40								
C3MP	1.40								
C5MP	1.65								
C6MP	1.65								
C10MP	1.65								
C15MP	1.65								
C6R	1.00								
C10R	1.00								
C15R	1.00								
C20R	1.00								
C30R	1.00								
C40R	1.00								
C50R	1.00								
C100R	1.00								

MALLORY CONTROL DEALS



FAST-MOVING SELECTIONS OF MALLORY MIDGETROLS AND MALLORY 1 1/8" CONTROLS

You Get This Cabinet at no Extra Cost When You Purchase the Controls and Switches at Your Regular Discount

● Treat yourself to a neat, heavy-duty stock cabinet, and simplify your inventory at the same time, with a Mallory Control Deal! Here's how:

You buy a carefully selected assortment of 15 fast-moving controls and 9 popular AC switches *all at your regular price*. Then, you get the handsome steel cabinet shown above *at no extra cost to you!* This cabinet contains 15 compartments for your controls, and a roomy drawer to hold your switches, extension shafts, idler pulleys and other accessories. A special built-in rack holds your Mallory Radio Service Encyclopedia which is purchased separately. And a hinged lid snaps shut to hold the controls in place during service calls.

When you use a Mallory Control Deal you get maximum coverage with minimum stock. In more than 9 out of 10 service jobs you will have *on hand* the control you need. And you can see at a glance which controls you immediately need to re-order.

Best of all—the revolutionary new Mallory Midgetrol is now available in a Mallory Control Deal. And a Mallory Midgetrol improves performance in *any* set where a 1 1/8" control was originally used. With your Mallory Midgetrol Deal you get, in addition to the cabinet, extra spring clips, extra U-clips, extra idler pulleys and extra extension shafts. Get started today with the Mallory Midgetrol. Order your deal today!

MALLORY MIDGETROL SELECTION

(Order by Catalog Number U-1485)

4 U-48	1 U-55	2 UP-10
3 U-53	1 U-39	5 Extra Spring Clips
2 U-50	1 U-41	5 Extra U Clips
2 U-44	9 US-26	1 Web Removing Tool
1 U-18	4 UE-50	

MALLORY MR SELECTION

(Order by Catalog Number R-1485)

4 MR-48	1 MR-18	5 M-26
3 MR-53	1 MR-55	3 M-27
2 MR-50	1 MR-39	1 M-28
2 MR-44	1 MR-41	

MALLORY UM SELECTION

(Order by Catalog Number M-1485)

4 UM-154	1 UM-118	2 M-27
3 UM-161	1 UM-163	1 M-28
2 UM-147	1 UM-142	5 SS-25
2 UM-156	3 M-26	1 SS-14
1 UM-140		

You will use your
**MALLORY
CONTROL DEALS**
for all of these
Radio Sets

Admiral
Air King
Airline
Allied
Atwater Kent
Belmont
Brunswick-Mersman
Cadillac

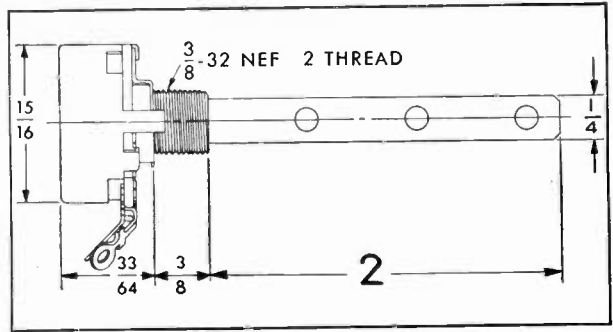
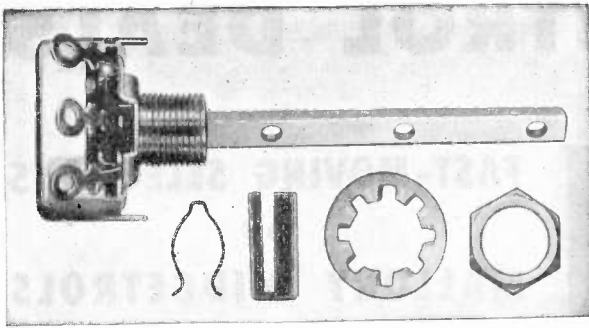
Capehart
Chevrolet
Colonial
Continental
Crosley
Delco
Detrola
Dewald

Emerson
Fada
Fairbanks-Morse
Hallicrafter
Motorola
Patterson
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R.C.A.
Scott
Sears-Roebuck
Sentinel
Sonora
Spiegel
Stewart-Warner
Stromberg-Carlson

Traveler
Truetone
United American Bosch
Warwick
Westinghouse
Wilcox-Gay
Zenith
Zephyr

Mallory Page 3 (See Mallory Page 1 for List Prices)



THE MALLORY MIDGETROL

APPLICATION: For volume and tone control in audio circuits. Tapped controls provide tone compensation when required. Special controls are for use as recommended in the Mallory Radio Service Encyclopedia.

DESCRIPTION: A very small diameter control ($15/16$) to service radio sets requiring small parts. Available in full line of resistances, tapers, and taps. Special resistance element gives ample safety factor for current-carrying ability. New type contact makes control smoothest and quietest on market by laboratory tests.

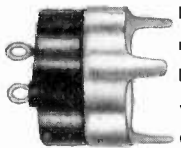
SHAFT DESCRIPTION: New Type flat shaft easily cut to any required length with a pair of side snips. Clips furnished with each control permits its use with all three knob types—Set Screw, Push-On, and Knurled.

ACCESSORIES: One hex nut, one lock washer, one U-clip and one spring steel clip furnished with each control. Idler pulleys, extension shafts and AC switches are available when needed as listed hereon.

PACKAGING: One control plus accessories and complete instructions in each display carton.

Catalog Number	Resistance	Taper*	Tap At
U-12	5M	1	
U-14	5M	4	
U-18	10M	1	
U-19	10M	2	
U-20	10M	4	
U-21	15M	1	
U-22	15M	2	
U-24	20M	1	
U-28	25M	2	
U-29	25M	4	
U-33	50M	1	
U-34	50M	2	
U-35	50M	4	
U-36	75M	1	
U-39	100M	1	
U-40	100M	2	
U-41	100M	4	
U-42	150M	1	
U-43	200M	4	
U-44	250M	1	
U-45	250M	2	
U-46	250M	4	
U-48	500M	1	
U-50	500M	4	
U-51	750M	1	
U-53	1 Meg.	1	
U-54	1 Meg.	4	
U-55	2 Meg.	1	
U-56	2 Meg.	4	
U-57	3 Meg.	1	
U-65	5 Meg.	1	
UT-420	250M		50M
UT-425	350M		70M
UT-427	500M		100M
UT-429	500M		50M
UT-431	500M		225M
UT-443	1 Meg.		450M
UT-450	2 Meg.		125M
UT-448	2 Meg.		250M
UT-454	2 Meg.		400M
UT-451	2 Meg.		900M

Attachable Mallory Midgetrol Switches



Entirely designed and manufactured by Mallory especially for use with Mallory Midgetrols. Can easily and quickly be attached without disassembling control.

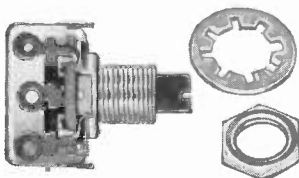
Catalog Number	Description
US-26	Single pole—single throw
US-26T	Single pole—single throw Has dummy terminal
US-27	Double pole—single throw
US-28	Single pole—double throw
US-23	Four pole—single throw, shorting

Accessories

UE-50 Shaft—Extends shaft length on each Mallory Midgetrol an additional 4" with each extension. Two self-tapping screws furnished with each extension.

UP-10 Pulley—Fits over the Mallory Midgetrol flat shaft to permit its use as an idler for the dial cord where necessary.

MALLORY MIDGETROLS FOR SPECIAL APPLICATIONS



● Special Mallory Midgetrols for use as exact replacements. These Midgetrols meet exact physical and electrical requirements for special applications. Except for the shaft, these Midgetrols are of the same basic construction as the standard Midgetrol. A fixed, knurled, and slotted bakelite shaft protrudes $1/4$ " beyond the bushing. The AC switches listed above will fit these Midgetrols.

Cat. No.	Resistance	Taper*
SU-29	25M	4
SU-41	100M	4
SU-50	500M	4
SU-67	5 Meg.	4

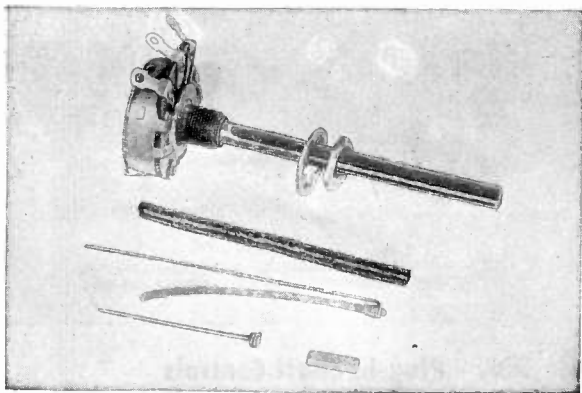
*See taper chart on page 8.

Mallory Page 4 (See Mallory Page 1 for List Prices)

(See Pages R-19 and R-20 for Mallory List Prices)

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MALLORY CARBON CONTROLS



1 1/8" Dia. • Fixed Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1 1/8" carbon control, available in a wide range of resistances and tapers. Has an excellent safety factor in current-carrying capacity. Uses Mallory's special resistance element insuring a long, quiet life.

SHAFT DESCRIPTION—An accurately finished channel shaft is permanently attached; measures 3" from lock ring.

ACCESSORIES—One hex nut, one lock washer, and one shim is furnished with each control. An external adjustable resistor is furnished where required, as indicated below. AC switches are available as a special item. (See page 8).

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
MR14	5M	4	MR39	100M	1
MR18	10M	1	MR40	100M	2
MR19	10M	2	MR41	100M	4
MR20	10M	4	MR42	150M	1
MR21	15M	1	MR44	250M	1
MR22	15M	2	MR45	250M	2
MR24	20M	1	MR48	500M	1
MR28	25M	2	MR50	500M	4
MR29	25M	4	MR51	750M	1
MR33	50M	1	MR53	1 Meg.	1
MR34	50M	2	MR55	2 Meg.	1
MR35	50M	4	MR57	3 Meg.	1
MR36	75M	1			
MR37	75M	2			

§External adjustable resistor included



1 1/8" Dia. • Fixed Shaft • Single Tapped Controls

APPLICATION—For control of volume with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with a single tap. Available in a wide range of resistances. Taps are accurately located. Uses Mallory's special resistance element insuring quiet, long life and an excellent safety factor in current-carrying capacity.

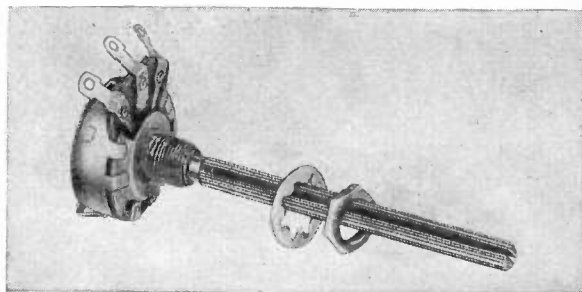
SHAFT DESCRIPTION—An accurately finished channel shaft is permanently attached; measures 3" from lock ring.

ACCESSORIES—One hex nut, one lock washer and one shim furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance	Catalog Number	Overall Resistance	Tap Resistance
MRT420	250M	50M	MRT460	1 Meg.	500M
MRT425	350M	70M	MRT445	2 Meg.	5M
MRT428	500M	70M	MRT446	2 Meg.	15M
MRT426	500M	5M	MRT447	2 Meg.	60M
MRT427	500M	15M	MRT450	2 Meg.	125M
MRT430	500M	100M	MRT448	2 Meg.	250M
MRT431	500M	150M	MRT454	2 Meg.	400M
MRT436	1 Meg.	125M	MRT449	2 Meg.	600M
MRT440	1 Meg.	200M	MRT451	2 Meg.	900M
MRT438	1 Meg.	300M			
MRT443	1 Meg.	450M			

Mallory Page 5 (See Mallory Page 1 for List Prices)



1 1/8" Dia. • Fixed Knurled Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

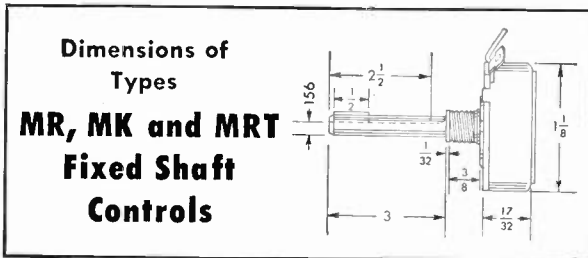
DESCRIPTION—1 1/8" carbon control using same element as type MR.

SHAFT DESCRIPTION—Furnished with a 3" accurately finished, permanently attached knurled shaft for use in replacing original controls of this shaft construction.

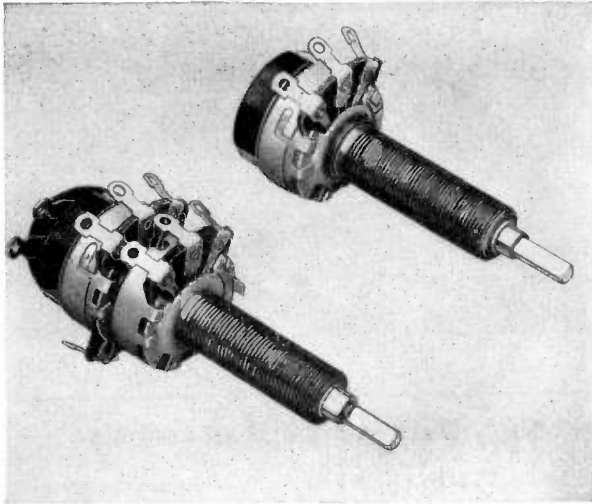
ACCESSORIES—One hex nut and one lock washer furnished with each control. AC switches available as a special item. (See page 8).

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper
MK400	250M	1
MK401	500M	1
MK402	1 Meg.	1
MK403	2 Meg.	1



MALLORY CARBON CONTROLS



1 1/8" Dia. • Fixed Shaft • Special Application • Single & Dual Controls

APPLICATION—Special single and dual controls to be used as recommended in the Mallory Radio Service Encyclopedia.

DESCRIPTION—Type SM are single and type SMD are dual 1 1/8" diameter carbon controls. Both types are made in a wide range of resistances and tapers and with taps for special applications. The controls and their shafts are designed to exactly replace the original equipment control. Switches are provided as indicated.

SHAFT DESCRIPTION—Type SM have fixed shafts while type SMD have fixed concentric shafts. Each shaft varies according to the requirements of the control and its recommended application.

ACCESSORIES—One hex nut and one lock washer furnished with each control.

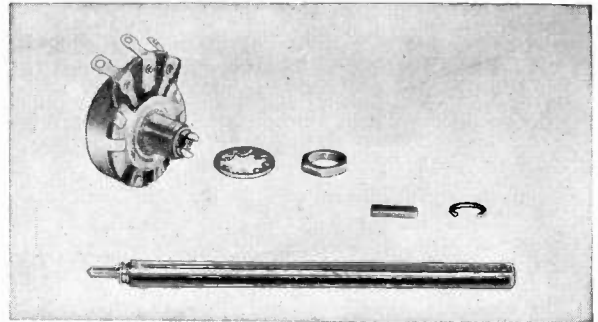
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Tap at
SM300†	350M	75M
SM301†	2 Meg.	500M
SM302†	500M	No Tap
SM303*	6Meg.	No Tap
SM304†	1 Meg.	200M
SM305†	1 Meg.	875M
SM306†	1 Meg.	550M
SM307*	2 Meg.	250M
SM308	1 Meg.	200M
SM309†	2 Meg.	600M
SM310	2 Meg.	125M
SM311†	1 Meg.	300M
SM312†	250M	No Tap
SM313†	250M	No Tap
SM316	350M	35M
SM317†	2.25 Meg.	500M & 1 Meg.

Catalog Number	Res. Front	Res. Rear	Tap At
SMD500†	2 Meg.	2 Meg.	No Tap
SMD501†	2 Meg.	1 Meg.	Front 500M
SMD502†	250M	1 Meg.	Rear 250M
SMD503†	2 Meg.	1 Meg.	Front 500M
SMD504†	250M	500M	Front 50M
SMD505†	250M	1 Meg.	Rear 300M
SMD506†	500M	1 Meg.	Rear 200M
SMD507†	500M	350M	Rear 70M
SMD508†	30M	1 Meg.	Rear 450M
SMD509†	2 Meg.	500M	Front 900M
SMD510†	1 Meg.	500M	Front 300M
SMD511†	1 Meg.	350M	Rear 70M
SMD512†	1 Meg.	350M	Rear 70M

†Includes SPST switch permanently attached to control.

*AC Switch available as special item. (See page 8).



1/8" Dia. • Plug-In Shaft Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1/8" carbon control, available in a wide range of resistances and tapers. Has an excellent safety factor in current-carrying capacity accomplished by the use of Mallory's special resistance element, which also insures a long, quiet life.

SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each UM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one shim, one lock ring, and one SS-1 shaft furnished with each control. An external variable resistance is furnished where required, as indicated below. AC switches available as a special item. (See page 8.)

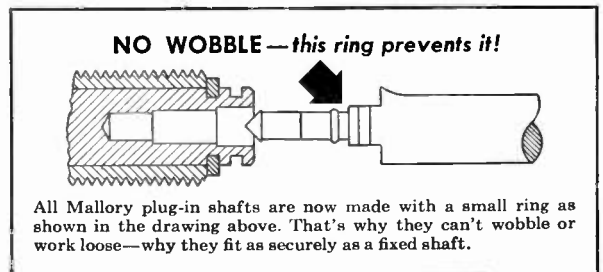
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
UM114	5M	4	UM144	150M	1
UM118	10M	1	UM147	250M	1
UM119	10M	2	UM150*		
UM120	10M	4			
UM121	15M	1	UM149	250M	4
UM122	15M	2	UM151	350M	1
UM124	20M	1	UM154	500M	1
UM128	25M	2	UM157*		
UM129	25M	4			
UM133	50M	1	UM156	500M	4
UM134§	50M	2	UM158	750M	1
UM135	50M	4	UM161	1 Meg.	1
UM137	75M	1	UM162*		
UM138	75M	2	UM160	1 Meg.	2
UM140	100M	1	UM159	1 Meg.	4
UM143*			UM181‡	2 Meg.	Spec.
UM141	100M	2	UM163	2 Meg.	1
UM142	100M	4			
UM180‡		Spec.	UM165	3 Meg.	1

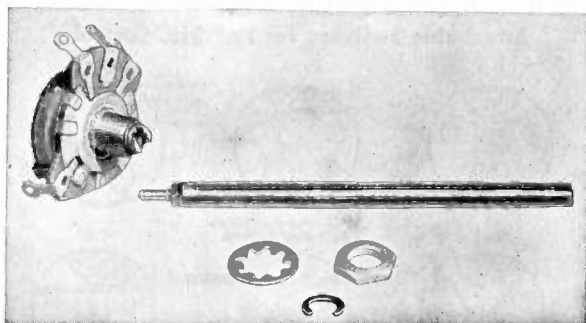
*Clutch type controls—no provision for attachable switch.

§External adjustable resistor included.

‡Right hand switch action.



MALLORY CARBON CONTROLS



1 1/8" Dia. • Plug-In Shaft • Single Tapped Controls

APPLICATION—For use as a volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with a single tap. Available in a wide range of resistances. Taps are accurately located. Uses Mallory's special resistance element insuring quiet, long life and an excellent safety factor in current-carrying capacity.

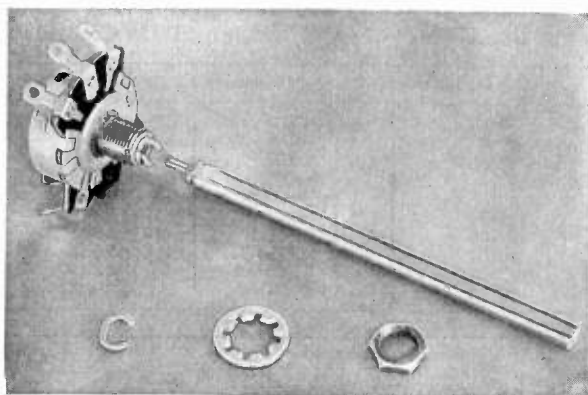
SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each TM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one lock ring, one shim, and one SS-1 shaft furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance
TM220	250M	50M
TM221	250M	110M
TM222*		
TM225	350M	70M
TM223*		
TM228	500M	5M
TM226	500M	15M
TM233	500M	60M
TM224*	500M	100M
TM227		
TM230	500M	150M
TM231	500M	225M
TM232*		
TM234	1 Meg.	65M
TM236	1 Meg.	125M
TM240	1 Meg.	200M
TM241*		
TM238	1 Meg.	300M
TM239*		
TM242*	1 Meg.	450M
TM243		
TM244	1.5 Meg.	200M
TM245	2 Meg.	5M
TM246	2 Meg.	15M
TM247	2 Meg.	60M
TM250	2 Meg.	125M
TM248	2 Meg.	250M
TM254	2 Meg.	400M
TM249	2 Meg.	600M
TM251	2 Meg.	900M
TM252*		
TM259	2 Meg.	1 Meg.
TM257	3 Meg.	900M
TM261	5 Meg.	1 Meg.

*Clutch type controls—no provision for attachable switch.



1 1/8" Dia. • Plug-In Shaft • Double Tapped Controls

APPLICATION—For use as a volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/8" carbon controls with double taps. The basic resistance element of this control is the same as the element in MR controls. Taps are accurately spaced.

SHAFT DESCRIPTION—The control is provided with a socket which will take 30 different types of shafts insuring maximum flexibility of stock. One SS-1 4" channel shaft furnished with each DTM control. (See page 8 for other universal and special plug-in shafts available.)

ACCESSORIES—One hex nut, one lock washer, one lock ring, one SS-1 shaft, and one shim furnished with each control. AC switches available as a special item. (See page 8.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Overall Resistance	Tap Resistance	
		Tap 1	Tap 2
DTM282	250M	50M	100M
DTM283	500M	100M	200M
DTM287	1 Meg.	50M	100M
DTM289	1 Meg.	250M	500M
DTM291	1.5 Meg.	225M	500M
DTM293	2 Meg.	5M	500M
DTM295	2.25 Meg.	225M	500M
DTM296	2.25 Meg.	500M	1 Meg.
DTM298	3 Meg.	100M	1.5 Meg.

SPECIAL! MALLORY LITERATURE DEAL

See Mallory Literature Page
for full information.

MALLORY PLUG-IN SHAFTS • ATTACHABLE SWITCHES

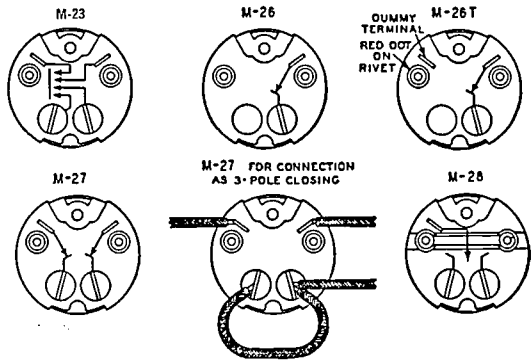
Universal and Special Plug-In Shafts
for Use with Types UM, TM, and DTM Controls

Catalog Number	Catalog Number	Catalog Number
SS1	SS15	SS25
SS2	SS16	SS26
SS3	SS17	SS27
SS4	SS18	SS28
SS5	SS19	SS29
SS6	SS20	SS30
SS10	SS21	SS31
SS11	SS22	SS32
SS12	SS23	SS33
SS14	SS24	SS34

SS 1 •• EXACTLY REPLACES ANY 1/4" ROUND SHAFT OR 1/32 OR 3/32 FLATTED SHAFT UP TO 4" LONG	SS 2 •• RCA UMS AND ANY 3/16" DIAMETER SHAFT UP TO 4" LONG
SS 3 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT UP TO 2" LONG	
SS 4 •• RCA - PART NUMBERS I224D, I236S, ETC.	SS 5 •• PHILCO 36, 37, 38 HOUSEHOLD RECEIVERS
SS 10 •• MOTOROLA-6D, 6D, 36 GOLDEN VOICE, ETC.	SS 6 •• RCA-HUDSON H6, ETC.
SS 11 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT 2" TO 4" LONG	
SS 12 •• PHILCO, UMS ARVIN	SS 14 ••
SS 15 •• EXACTLY REPLACES ANY 3/32 SLOTTED SHAFT 4" TO 6" LONG	
SS 16 •• EXACT FOR SENTINEL, CUT TO LENGTH FOR RCA AND OTHERS	
SS 17 •• EXACTLY REPLACES ANY SLOTTED "INSACUP" SHAFT UP TO 6" LONG	
SS 18 •• BELMONT, STEWART-WARNER, ETC.	SS 19 •• ALL 1937-38 MOTOROLAS
SS 20 •• MOTOROLA MODEL 16C	SS 21 •• MOTOROLA MODEL 17D
SS 22 •• MOTOROLA AND MANY OTHERS	SS 23 •• UNITED AMERICAN BOSCH MODELS 159, 149, 169
SS 24 •• CHEVROLET MODEL 985425	SS 25 •• EXACTLY REPLACES STANDARD KNURLED SHAFTS FROM 3/4" TO 4" LONG
SS 26 •• ZENITH	SS 27 •• PHILCO
SS 29 •• MOTOROLA	SS 28 •• MOTOROLA
SS 30 •• MOTOROLA	SS 31 •• PHILCO
SS 32 •• PHILCO	SS 33 •• ZENITH
SS 34 •• ZENITH	

KEY TO SHAFT CHART—*These Plug-In Shafts are designed as exact replacements for applications requiring a given predetermined length with special coupling slots or tongue or an insulated coupler. None of these require any cutting or special adjustment. **These Plug-In Shafts are of universal length and designed for many applications.

Attachable Switches for 1 1/8" Dia. Controls



For Use With MR, MK, UM, TM, MRT, DTM Controls

Catalog Number	Circuit Arrangement
M-26	Single-Pole—Single-Throw
*M-26T	Single-Pole—Single-Throw
M-27	Double-Pole—Single-Throw
M-28	Single-Pole—Double-Throw
M-23	Four-Pole—Single-Throw, Shorting

*Has dummy terminal identified by red dot.

Explanation of Mallory Tapers

● 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 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.

Taper Number 2 is a right hand logarithmic taper in the carbon and an approximation in the wire-wound type. Used in series circuits, as in cathode voltage controls, or where only the center and right hand terminals are used.

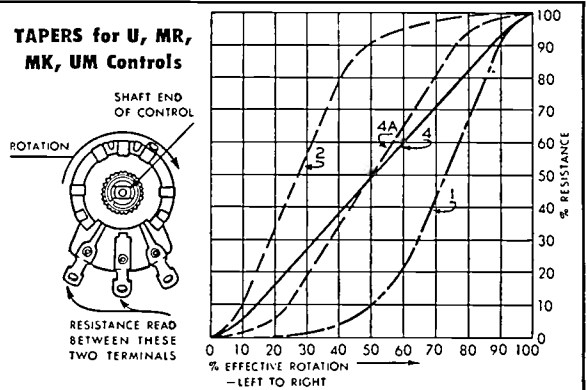
Taper Number 3 is a combination left and right hand taper. Has a limited use in circuits where the control must perform both as a shunt and as a series circuit control as in combination antenna shunt plus bias circuits. This is the most common use for such a taper.

Taper Number 4 is a linear taper. Strictly speaking it is not a "taper" although commonly referred to as such. A linear "taper" is used wherever a control should be such that voltage change is proportional to the degree of rotation.

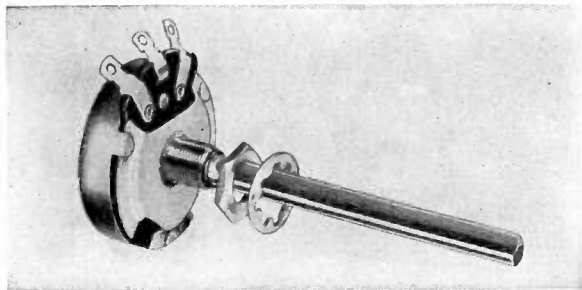
Taper Number 4A is a modification of the regular linear taper Number 4.

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.

TAPERS for U, MR, MK, UM Controls



MALLORY STANDARD CARBON CONTROLS



1 1/2" Dia. • Fixed Shaft • Carbon Controls

APPLICATION—For volume or tone control in audio circuits.

DESCRIPTION—1 1/2" carbon control made available in a range of resistances and tapers to satisfactorily cover the field. Mallory's exclusive element curing process is used in the manufacture of these controls, as well as in the 1 1/8" dia. line.

SHAFT DESCRIPTION—A fixed channel or slotted shaft is provided, measuring 3" from lock ring, except as indicated below.

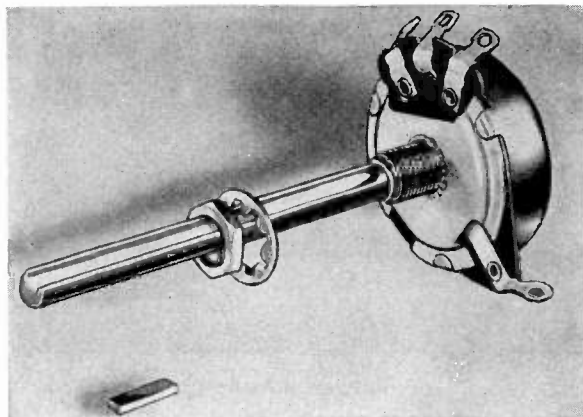
ACCESSORIES—One hex nut, one lock washer, and one shim furnished with each control. An external adjustable resistor is furnished where required, as indicated below. AC Switch available as special item. (See page 11.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
Y5MP	5M	4	Y200MP	200M	4
F12§	7500	1	M	250M	1
UC501§	10M	2	UC511†		
Y10MP	10M	4	UC509§	250M	2
H12§	15M	1	Y250MP	250M	4
Y§	20M	1			
J§	25M	2	UC503	750M	1
Y25MP	25M	4	UC514†	1 Meg.	1
K12	50M	1			
K§	50M	2	UC504	3 Meg.	1
Z12	75M	1	UC505	4 Meg.	1
Z§	75M	2	UC506	5 Meg.	1
			UC507	5 Meg.	2
UC510§	100M	2	UC508	9 Meg.	1
UC502	150M	1			

§External adjustable resistor included.

†Has slotted shaft for automobile receivers.



1 1/2" Dia. • Fixed Shaft • Single & Double Tapped Controls

APPLICATION—For volume control with tone compensation in audio circuits.

DESCRIPTION—1 1/2" carbon controls made available in a wide range of resistances, single and double tapped as indicated.

SHAFT DESCRIPTION—An accurately finished shaft is permanently attached, measuring 3" from lock ring.

ACCESSORIES—One hex nut, one lock washer, and one shim furnished with each control. AC switches available as a special item. (See page 11.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Single Tapped

Catalog Number	Overall Resistance	Tap Resistance	Catalog Number	Overall Resistance	Tap Resistance
TRP601	40M	8M	TRP610	1 Meg.	30M
TRP602	60M	4M	TRP608	1 Meg.	200M
TRP617	60M	12M	TRP609††	1 Meg.	500M
TRP623	250M	50M	TRP612	2 Meg.	15M
TRP603	250M	110M	TRP618	2 Meg.	250M
			TRP613	2 Meg.	400M
TRP604	350M	20M	TRP620	2 Meg.	900M
TRP605	350M	70M			
TRP614†			TRP615	3 Meg.	900M
TRP616	500M	60M			
TRP606	500M	100M			
TRP607	500M	225M			

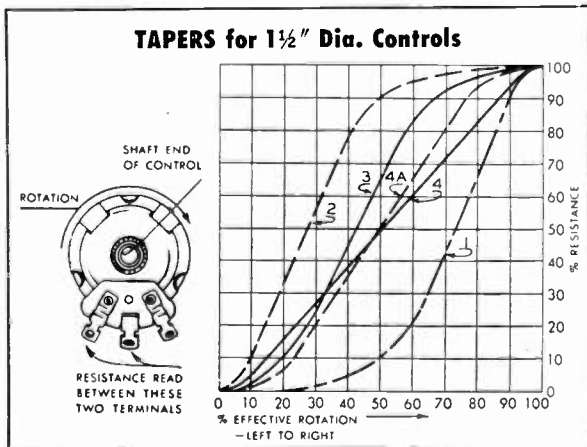
†Has slotted shaft for automobile receivers.

††Special taper for fader service.

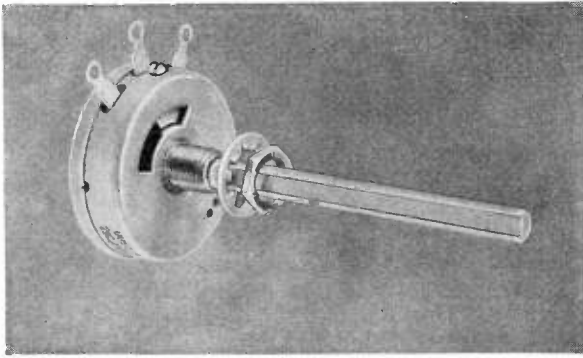
Double Tapped

Catalog Number	Overall Resistances	Tap Resistance	
		Tap 1	Tap 2
TRP622	44M	7M	14M
TRP621†	2.25 Meg.	250M	500M
TRP624			

†No provision for switch.



MALLORY SPECIAL CARBON AND WIRE-WOUND CONTROLS



(SRP262 Illustrated)

1½" Dia. · Fixed Shaft · Special Application Controls

APPLICATION—For special applications, as recommended in Mallory Radio Service Encyclopedia.

DESCRIPTION—1½" carbon or wire-wound controls, as indicated, available in a variety of resistances and constructions to meet the special requirements necessary in replacement, as recommended in Mallory Radio Service Encyclopedia.

SHAFT DESCRIPTION—A special shaft is permanently attached. It is machined to the exact dimensions necessary to meet replacement requirements.

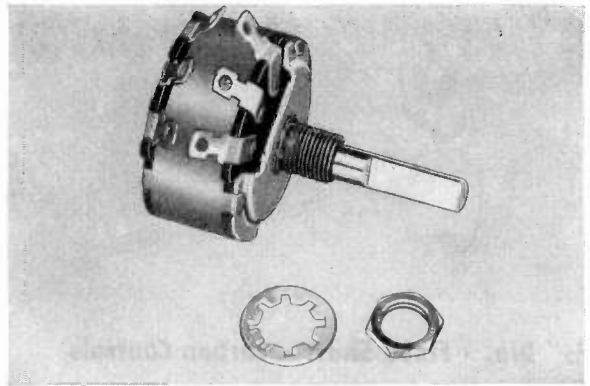
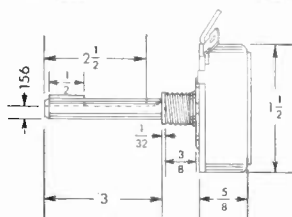
ACCESSORIES—One hex nut, and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Type Element
SRP134	4500	W. W.
SRP142	2900	W. W.
SRP152	60	W. W.
SRP153	13M	W. W.
SRP154	50M	Carbon
SRP179	125M	Carbon
SRP185	1500	Carbon
SRP188	32M	Carbon
SRP213	250M	Carbon
SRP239	450	W. W. Strip
SRP241	6M	W. W. Strip
SRP245	32M	Carbon
SRP251	350M	Carbon
SRP261	100M	Carbon
SRP262	1500	W. W.
SRP263	32M	Carbon
SRP269	10M	Carbon
SRP282	350M	Carbon
SRP286	250M	Carbon
SRP289	50M	Carbon
SRP290	1 Meg.	Carbon
SRP900	20M	Carbon
SRP901	10M	Carbon
SRP960	800	W. W.
SRP961	10M	Carbon

†Right hand switch action.

Drawing Showing Dimensions of 1½" Dia. Carbon Controls



Special Dual Controls

APPLICATION—For special applications, as recommended in Mallory's Radio Service Encyclopedia.

DESCRIPTION—Special controls of wire-wound and/or carbon construction available in a range of resistances and types as required by recommendations of Mallory Radio Service Encyclopedia. They are designed to provide exact physical and electrical characteristics of the original control.

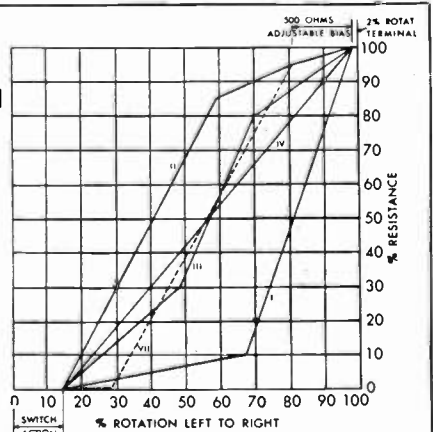
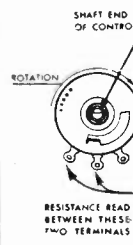
ACCESSORIES—One hex nut and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

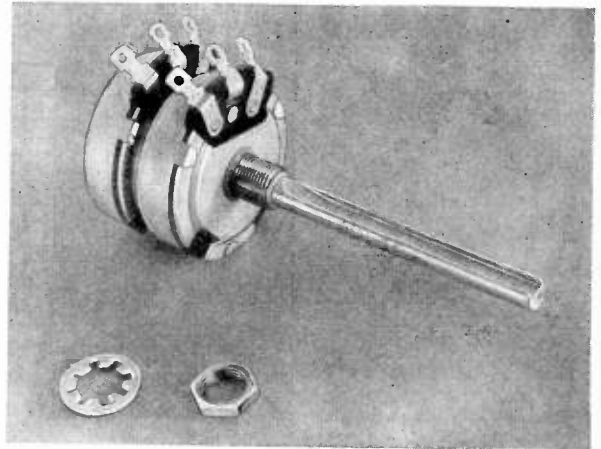
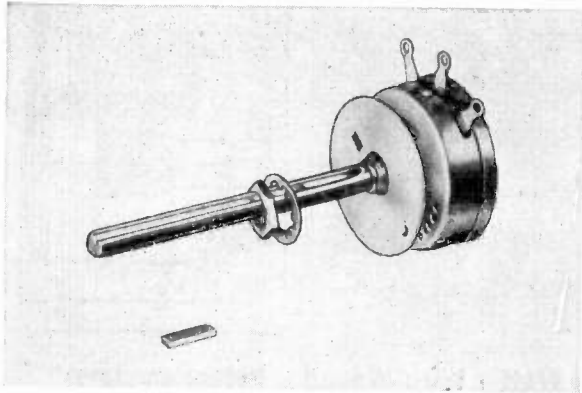
Catalog Number	Ohms Resistance		Type Element	
	Front	Rear	Front	Rear
DRP114	250	5M	W. W.	W. W.
DRP115	3800	3800	Carbon	Carbon
DRP116	25700	10000	W. W.	W. W.
DRP117	500	2500	W. W.	W. W.
DRP119	3M	10M	W. W.	W. W.
DRP122	645	10M	W. W.	W. W.
DRP169	7500	10M	W. W.	W. W.
DRP221	10M	100M	Carbon	Carbon
DRP222	75M	32M	Carbon	Carbon
DRP240	250M	10M	Carbon	Carbon
DRP244	25M	6M	Carbon	Carbon
DRP250	50M	1M	Carbon	Carbon
DRP302	100M	250M	Carbon	Carbon
DRP304	1 Meg.	3 Meg.	Carbon	Carbon
DRP306*	5M	10M	W. W.	Carbon
DRP311	150M	250M tapped 160M	Carbon	Carbon
DRP318	250M	3 Meg.	Carbon	Carbon

*Includes Switch.

Tapers on Wire-Wound Controls



MALLORY WIRE-WOUND CONTROLS • 1 1/2" ATTACHABLE SWITCHES



(Type LL Illustrated)

1 1/2" Dia. • Fixed Shaft • Wire-Wound Controls

APPLICATION—Used as bias controls and voltage dividers in bridge circuits and test instruments.

DESCRIPTION—Rugged resistance strip and contactor assemblies are completely enclosed in a dust-proof case. Will carry 4 watts of power.

SHAFT DESCRIPTION—Furnished with a fixed channel-type shaft, measuring 3" from lock ring.

ACCESSORIES—Mallory Dial Plate No. 396 is available for use with these controls. One hex washer, one lock washer, and one shim furnished with each control. An external variable resistor is furnished where required, as indicated below. Has adjustable stop plate for bias feature, as indicated below. AC switches available as a special item. (See this page.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

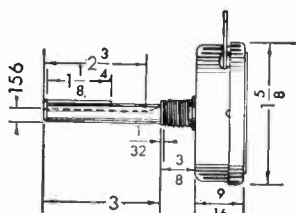
Catalog Number	Ohms Resistance	Taper	Catalog Number	Ohms Resistance	Taper
Q	2	4	D12 §	3000	1
R	6	4	D §	3000	2
S	10	4	A3MP §	3000	4
T	20	4	D7 §	3000	7
U	30	4	A4MP §	4000	4
V	60	4	E §	5000	2
W	100	4	A5MP §	5000	4
X	200	4	E7 §	5000	7
A400P	400	4	F §	7500	2
A	500	1	F7 §	7500	7
A550P	550	4	G §	10000	2
B	1000	1	A10MP §	10000	4
UC500	1000	2	G7 §	10000	7
A1MP	1000	4	H §	15000	2
C12 §	2000	1	H7 §	15000	7
C §	2000	2	A20MP §	20000	4
A2MP §	2000	4			

§Have exclusive Mallory adjustable bias feature, providing 500 ohms in 100 ohm steps in all values over 1,000 ohms.

Dimensions—

1 1/2" Dia. Wire-Wound Controls

NOTE: Controls having taper numbers 1, 2 and 7 are intended primarily for replacement in radio receivers. Be sure to check the taper curve and its effect (see chart on page 31) before ordering for other uses.



Universal Dual Controls

APPLICATION—See "General Use" column below.

DESCRIPTION—Consists of two 1 1/2" Dia. wire-wound or carbon controls driven by a single shaft.

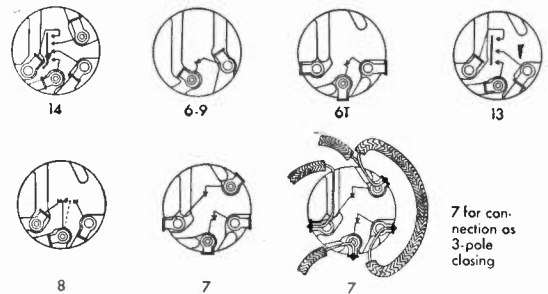
SHAFT DESCRIPTION—Furnished with fixed channel shaft; measuring 2 1/2" from lock ring.

ACCESSORIES—One hex nut and one lock washer furnished with each control. AC switches available as a special item. (See this page.)

PACKAGING—One control, plus accessories and complete instructions per display carton.

Cat. No.	Ohms Resistance		Taper		Type Element		General Use
	Front	Rear	Front	Rear	Front	Rear	
CE	2M	5M	I	I	W. W.	W. W.	Ant. Shunt and Bias
GE	10M	5M	VII	IV	W. W.	W. W.	Ant. Shunt Bias or Screen
GG	10M	10M	VII	IV	W. W.	W. W.	Ant. Shunt Bias or Screen
GK	10M	50M	I	IV	Carbon	Carbon	Ant. Shunt Bias or Screen
LL	100M	100M	I	I	Carbon	Carbon	Audio Shunt in Push Pull
LM	100M	250M	I	I	Carbon	Carbon	Audio Shunt, Tone, Screen or RF Shunt
MM	250M	250M	I	I	Carbon	Carbon	Audio Shunt in Push Pull

Attachable Switches (1 1/2" Dia. Controls)

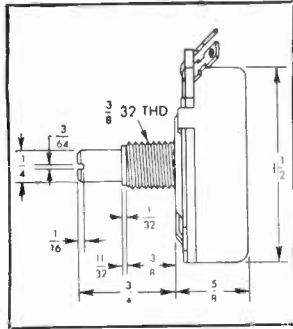
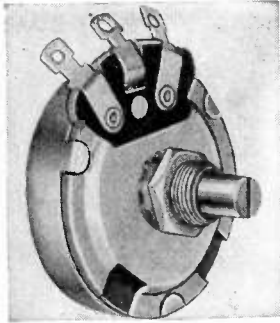


For use with standard Universal Controls, Carbon and Wire-Wound types, TRP Tapped Controls, and Universal Dual Controls.

- Cat. No. 6-9—Single-Pole—Single-Throw
- *6T—Single-Pole—Single-Throw
- 7—Double-Pole—Single-Throw
- 8—Single-Pole—Double-Throw
- 13—Three-Pole—Single-Throw Shorting
- 14—Four-Pole—Single-Throw Shorting

*Has dummy terminal identified by copper rivet.

MALLORY VARIABLE POTENTIOMETERS • T & L PADS



1 Watt • Carbon • Potentiometers

APPLICATION—For use in test and other instruments, and special applications.

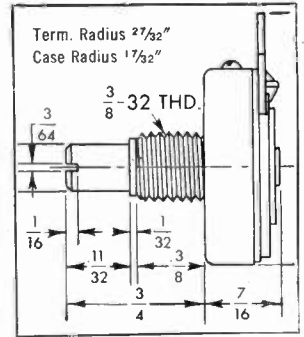
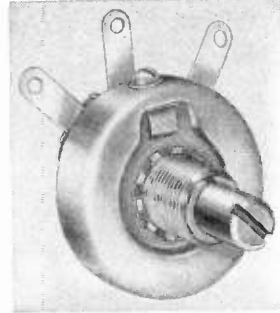
DESCRIPTION—1½" heavy-duty carbon-type control with a nominal one-watt rating. No. 4 linear taper.

SHAFT DESCRIPTION—A short shaft is provided with a milled screw-driver slot for easy and quick adjustment. Shaft will also take standard knobs.

ACCESSORIES—One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance
B5MP	5,000
B10MP	10,000
B25MP	25,000
B50MP	50,000
B100MP	100,000
B250MP	250,000
B500MP	500,000
B1000MP	1 Meg.



2 Watt • Wire-Wound • Potentiometers

APPLICATION—For use in test and special instruments, bias control and bridge circuits, etc.

DESCRIPTION—1½" diameter small resistor that will dissipate 2 watts over the entire element for continuous operation. No. 4 linear taper. Contact arm is grounded. Total rotation 284°; effective electrical rotation 266°.

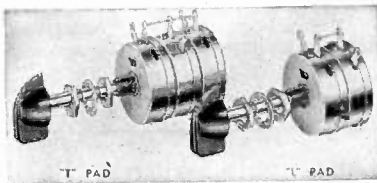
SHAFT DESCRIPTION—A short shaft with a milled screw-driver slot is provided for quick and easy adjustment. Shaft will also take standard knobs.

ACCESSORIES—Dial Plate No. 393 is available for use with these controls. One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Potentiometer Catalog Number	Rheostat* Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
C6P	C6R	6	.58
C10P	C10R	10	.45
C15P	C15R	15	.37
C20P	C20R	20	.32
C30P	C30R	30	.26
C40P	C40R	40	.22
C50P	C50R	50	.2
C100P	C100R	100	.14
C200P		200	.1
C400P		400	.07
C1MP		1M	.045
C3MP		3M	.025
C5MP		5M	.02
C6MP		6M	.018
C10MP		10M	.014
C15MP		15M	.011

T and L Pad Attenuators



APPLICATION—For controlling the level of low impedance audio circuits and for volume control of microphones, talking picture amplifiers, and many varied sound amplifying and audio distribution systems.

DESCRIPTION—A high quality "T" and "L" pad that may be used with audio amplifiers having a peak audio rating of 15 watts. These attenuators have a continuous DC dissipation rating of 4 watts in any position. Bushing 3/8" Dia. by 3/8" long.

SHAFT DESCRIPTION—2" long shaft, grooved at popular lengths for easy cutting.

ACCESSORIES—No. 366 Bar Knob, No. 395 Dial Plate with matched rotation, one nut and one lock washer furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

"T" Pad Attenuators Catalog Number	"L" Pad Attenuators Catalog Number	Ohms Impedance
T6	L6	6
T8	L8	8
T15	L15	15
T50	L50	50
T200	L200	200
T250	L250	250
T500	L500	500
T2000	L2000	2000

*"Open" or "off" position counter-clockwise.

ASK YOUR DISTRIBUTOR ABOUT . . .

"GOOD SERVICE FOR GOOD BUSINESS"

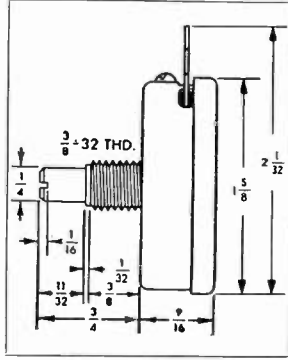
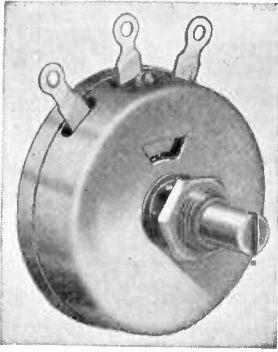
The Mallory Business-Building Plan

that effectively helps you get

new customers and hold

the ones you have!

MALLORY WIRE-WOUND POTENTIOMETERS



4 Watt · Wire-Wound Potentiometers and Rheostats

APPLICATION—Used on bias controls and voltage dividers in bridge circuits and test instruments.

DESCRIPTION—Precision wire-wound potentiometers and rheostats with a 4-watt rating for use in instruments where reliability is paramount. Rugged construction. Rheostats feature “off” position (no connection) type of construction, saving the cost of a switch. Furnished with insulated contact arm. Potentiometers have three terminals. Rheostats have two terminals. Total rotation 294°; effective electrical rotation 279°. No. 4 Linear Taper.

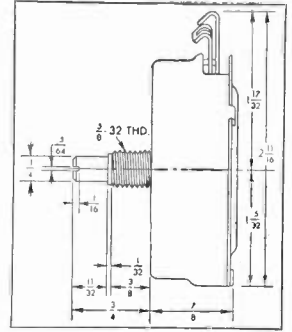
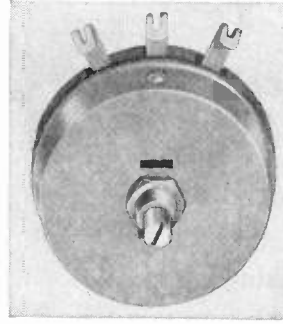
SHAFT DESCRIPTION—A short shaft is provided with a slot for easy screw-driver adjustment. Shafts will take standard knobs.

ACCESSORIES—No. 395 Dial Plate is available for use with these controls. One hex nut furnished with each control.

PACKAGING—One control, plus accessories and complete instructions per display carton.

Potentiometer Catalog Number	Rheostat* Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
M1P	M05R	$\frac{1}{2}$	2.80
	M1R	1	2.00
	M2R	2	1.4
M3P	M3R	3	1.15
	M4R	4	1.00
M6P	M6R	6	.82
M10P	M10R	10	.63
M15P	M15R	15	.52
M20P	M20R	20	.45
M25P	M25R	25	.40
M30P	M30R	30	.37
M40P	M40R	40	.32
M50P	M50R	50	.28
M60P	M60R	60	.26
M75P	M75R	75	.23
M100P	M100R	100	.20
M200P		200	.14
M400P		400	.10
M500P		500	.09
M600P		600	.082
M1MP		1M	.063
M2MP		2M	.045
M3MP		3M	.037
M4MP		4M	.032
M5MP		5M	.028
M10MP		10M	.020
M15MP		15M	.016
M20MP		20M	.014
M25MP		25M	.013
M50MP		50M	.009
M70MP		70M	.0075

*“Open” or “Off” position counter-clockwise.



7 Watt · Wire-Wound Potentiometers

APPLICATION—Suitable for precision instruments such as resistance bridges and where a control of medium currents or voltages is required.

DESCRIPTION—Supplied with grounded contact arm. 310° total rotation; 299° effective electrical rotation. Will dissipate 7 watts. No. 4 linear taper.

SHAFT DESCRIPTION—A short shaft with a milled screw-driver slot is provided for easy adjustment. Shafts will also take standard knobs.

ACCESSORIES—No. 399 Dial Plate is available for use with these controls. One hex nut is furnished with each control.

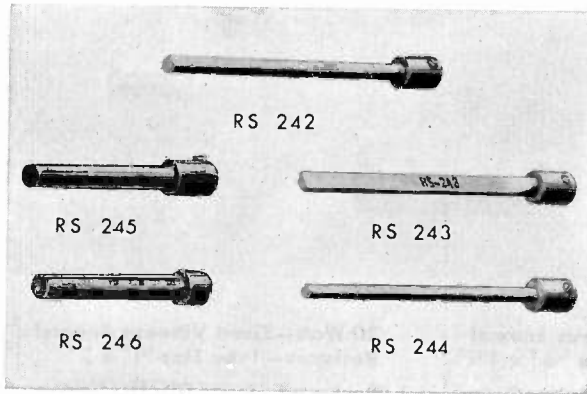
PACKAGING—One control, plus accessories and complete instructions per display carton.

Catalog Number	Ohms Resistance	Carrying Capacity in Amps.
E5MP	5M	.042
E10MP	10M	.03
E20MP	20M	.021
E25MP	25M	.019
E50MP	50M	.0135
E75MP	75M	.011
E100MP	100M	.0095
E125MP	125M	.0085
E150MP	150M	.0078

MALLORY TECHNICAL MANUAL

● This simply written, practical book bridges the gap between radio theory and practice. Designed for the radio serviceman, engineer, amateur or experimenter who wants the latest technical information . . . presented so that he can easily apply it to everyday problems. Contains page after page of information profusely illustrated. It's worth far more than its price.

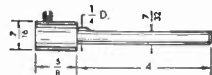
MALLORY CONTROL HARDWARE



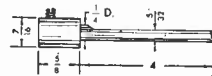
Universal Extension Shafts

Cat. No.	Description
RS242*	4" long x 1/4" dia. x 1/32" flat
RS243*	4" long x 1/4" dia. x 3/32" flat
RS244*	4" long x 3/16" dia. x 1/64" flat
RS245*	2" long x 1/4" dia. with 3/32" slot
RS246*	2" long x 1/4" wide x 3/32" thick

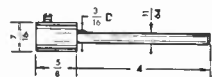
*Packed 5 to Envelope.



No. RS 242

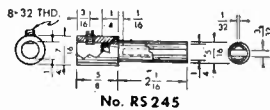


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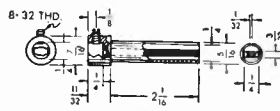


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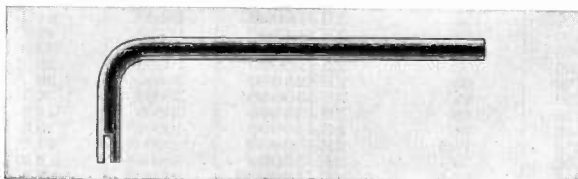
SHAFT DIMENSIONS



No. RS 245

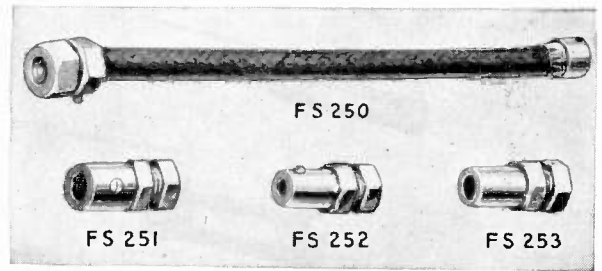


No. RS 246



Web Removing Tool

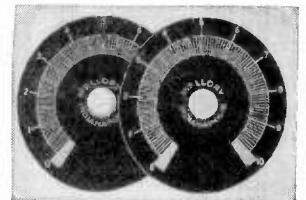
Cat. No.	Description
201	Special tool for removing web from web type knobs to adapt them for use with the Mallory Midgetrol.



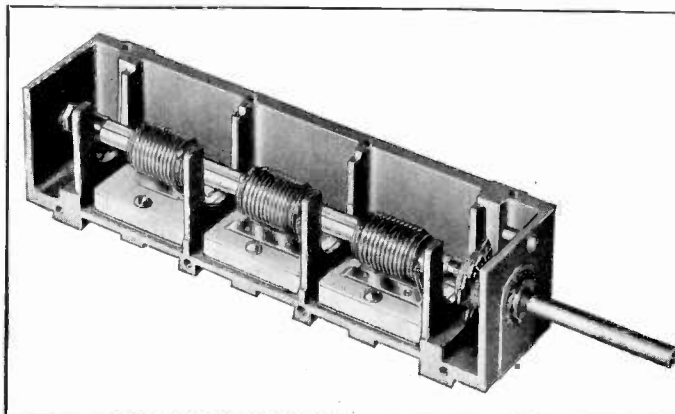
Universal Flexible Coupling Shafts

Cat. No.	Description
FS250	For Universal replacement of all flexible wire shafts, coupling to 1/4" solid shafts.
FS251	Shaft Coupling has 7/32" hole, 1/2" deep, with transverse pin, and is for use (with the correct Mallory 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.
FS252	Shaft Coupling has 5/32" hole, approximately 1/2" deep, and has 2 set screws opposite each other. It is used as a replacement for Philco Model D, Nash AC-989 (Code 122).
FS253	Shaft Coupling has 1/4" dia. hole, 1/2" deep, equipped with 2 screws at 90 degrees. This is to be used with the correct Mallory Control as a replacement for Chevrolet No. 364441.

Dial Plates For Controls, Rheostats and Potentiometers



Cat. No.	Marking	For Type of Control	Dia.
369	0 to 100	All Rheostats and Potentiometers (compromise scale)	2 1/4"
391	Increase Volume	All Rheostats and Potentiometers	1 1/2"
393	0 to 10	For "C" Type Rheostats and Potentiometers	2 1/4"
395	0 to 10	For Standard Wire-Wound Controls with plain cover; also "M" Type Rheostats and Potentiometers	2 1/4"
396	0 to 10	For Standard Wire-Wound Controls with switch type cover.	2 1/4"
397	0 to 10	For Standard Carbon Controls with plain cover	2 1/4"
398	0 to 10	For Standard Carbon Controls with switch type cover.	2 1/4"
399	0 to 10	For "E" Type Potentiometers.	2 1/4"

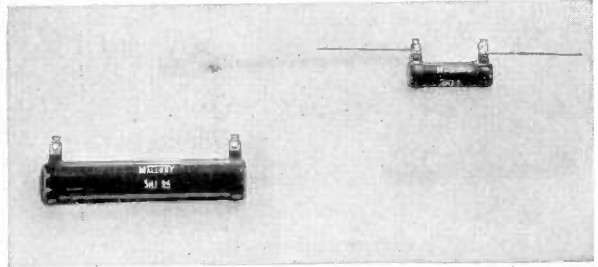
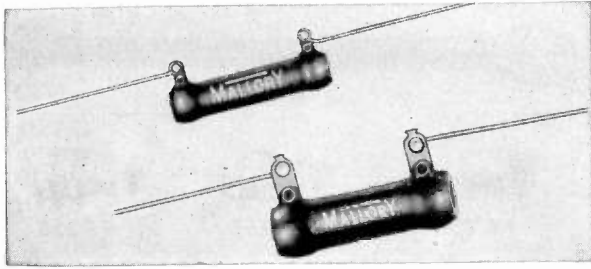


THE MALLORY INDUCTUNER*

A continuously and infinitely variable inductance unit that supplies the need for a method of tuning the wide range of frequencies covered by the television-FM band. Provides unequalled simplicity, performance, and stability in service. For more complete information turn to Page 9, Mallory Special Components, of this catalog.

Inductuner*—Registered trade mark for Mallory variable inductance tuning devices. Manufactured and sold under one or more of the following Paul Ware and Mallory patents: 2,163,644, 2,163,645, 2,163,646, 2,163,647, 2,260,877, 2,377,789, 2,377,790. Other patents applied for.

MALLORY FIXED RESISTORS



5 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{5}{16}$ " x 1"

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
HHJ1	1	2230
HHJ1.5	1.5	1820
HHJ2	2	1580
HHJ3	3	1290
HHJ4	4	1117
HHJ5	5	1000
HHJ7.5	7.5	811
HHJ10	10	707
HHJ12	12	644
HHJ15	15	577
HHJ20	20	500
HHJ25	25	450
HHJ30	30	408
HHJ35	35	378
HHJ40	40	353
HHJ50	50	316
HHJ75	75	257
HHJ100	100	223
HHJ125	125	200
HHJ150	150	182
HHJ200	200	158
HHJ250	250	141
HHJ300	300	129
HHJ350	350	119
HHJ400	400	112
HHJ450	450	105
HHJ500	500	100
HHJ600	600	91
HHJ700	700	84
HHJ750	750	81
HHJ800	800	79
HHJ900	900	74
HHJ1000	1000	70
HHJ1100	1100	67
HHJ1200	1200	64
HHJ1250	1250	63
HHJ1500	1500	57
HHJ1750	1750	53
HHJ2000	2000	50
HHJ2250	2250	47
HHJ2500	2500	45
HHJ3000	3000	40
HHJ3500	3500	37
HHJ4000	4000	35
HHJ4500	4500	33
HHJ5000	5000	31

10 Watt Fixed Vitreous Enamel Resistors—Tube Size $\frac{5}{16}$ " x $1\frac{3}{4}$ "

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
1HJ1	1	3150
1HJ2	2	2200
1HJ3	3	1800
1HJ4	4	1580
1HJ5	5	1400
1HJ7.5	7.5	1150
1HJ10	10	1000
1HJ12	12	910
1HJ15	15	812
1HJ20	20	707
1HJ25	25	630
1HJ30	30	575
1HJ35	35	530
1HJ40	40	500
1HJ50	50	447
1HJ75	75	360
1HJ100	100	315
1HJ125	125	280
1HJ150	150	260
1HJ200	200	220
1HJ225	225	210
1HJ250	250	200
1HJ300	300	180
1HJ350	350	170
1HJ400	400	158
1HJ450	450	150
1HJ500	500	141
1HJ600	600	130
1HJ700	700	120
1HJ750	750	115
1HJ800	800	112
1HJ900	900	105
1HJ1000	1000	100
1HJ1100	1100	95
1HJ1200	1200	91
1HJ1250	1250	89
1HJ1500	1500	81
1HJ1750	1750	75.5
1HJ2000	2000	70
1HJ2250	2250	66.5
1HJ2500	2500	63
1HJ3000	3000	56
1HJ3500	3500	53
1HJ4000	4000	50
1HJ4500	4500	47
1HJ5000	5000	45
1HJ6000	6000	40
1HJ7000	7000	38
1HJ7500	7500	36
1HJ8000	8000	35
1HJ8500	8500	34
1HJ10000	10000	31.6
1HJ11000	11000	30
1HJ12000	12000	29
1HJ12500	12500	28
1HJ13500	13500	26
1HJ14300	14300	24.5
1HJ15000	15000	23
1HJ16000	16000	22
1HJ17500	17500	20
1HJ18000	18000	19.5
1HJ20000	20000	17.5
1HJ22500	22500	15.5
1HJ25000	25000	14
1HJ30000	30000*	11.5
1HJ35000	35000*	10.5
1HJ40000	40000*	10
1HJ45000	45000*	9.5
1HJ50000	50000*	9

20 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{1}{2}$ " x 2"

Packaged 10 per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
2HJ5	5	2000
2HJ10	10	1415
2HJ15	15	1153
2HJ25	25	895
2HJ50	50	633
2HJ75	75	517
2HJ100	100	447
2HJ150	150	365
2HJ200	200	316
2HJ250	250	283
2HJ300	300	258
2HJ400	400	224
2HJ500	500	200
2HJ750	750	163
2HJ1000	1000	141
2HJ1250	1250	126
2HJ1500	1500	115
2HJ1750	1750	107
2HJ2000	2000	100
2HJ2250	2250	94
2HJ2500	2500	89
2HJ2750	2750	85
2HJ3000	3000	81
2HJ3500	3500	75
2HJ4000	4000	71
2HJ4500	4500	66
2HJ5000	5000	63
2HJ6000	6000	57
2HJ7500	7500	51
2HJ10000	10000	44
2HJ12500	12500	40
2HJ15000	15000	33
2HJ20000	20000	25
2HJ25000	25000	20
2HJ30000	30000	16.7
2HJ35000	35000*	14.3
2HJ40000	40000*	13.3
2HJ50000	50000*	11.8
2HJ75000	75000*	9.7
2HJ100000	100000*	8.3

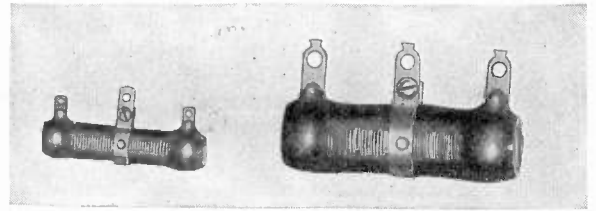
50 Watt—Fixed Vitreous Enamel Resistors—Tube Size $\frac{3}{4}$ " x $4\frac{1}{2}$ "

One Resistor to a Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
5HJ10	10	2240
5HJ25	25	1415
5HJ50	50	1000
5HJ100	100	707
5HJ250	250	447
5HJ500	500	316
5HJ750	750	258
5HJ1000	1000	224
5HJ1500	1500	183
5HJ2000	2000	158
5HJ2500	2500	141
5HJ5000	5000	100
5HJ7500	7500	81
5HJ10000	10000	70
5HJ12500	12500	63
5HJ15000	15000	57
5HJ20000	20000	50
5HJ25000	25000	40
5HJ30000	30000	33
5HJ40000	40000	25
5HJ50000	50000	20
5HJ75000	75000	13
5HJ100000	100000	10

*We stock these high resistance values only in the more economical low temperature enamel coating because operating voltages normally encountered rarely exceed the values listed.

MALLORY FIXED AND ADJUSTABLE RESISTORS



100 Watt—Fixed Vitreous Enamel Resistors—Tube Size 1/8" x 6 1/2"
One Resistor to a Display Carton

200 Watt—Fixed Vitreous Enamel Resistors—Tube Size 1/8" x 10 1/2"
One Resistor to a Display Carton

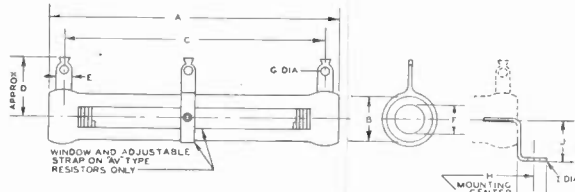
10 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/16" x 1 3/4"
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milli-amperes
10HJ25	25	2000
10HJ50	50	1414
10HJ75	75	1155
10HJ100	100	1000
10HJ150	150	815
10HJ250	250	632
10HJ500	500	447
10HJ750	750	365
10HJ1000	1000	316
10HJ1500	1500	258
10HJ2000	2000	223
10HJ2500	2500	200
10HJ5000	5000	141
10HJ7500	7500	115
10HJ10000	10000	100
10HJ15000	15000	80
10HJ20000	20000	70
10HJ25000	25000	60
10HJ30000	30000	50
10HJ40000	40000	37
10HJ50000	50000	30
10HJ75000	75000	20
10HJ100000	100000	15

Catalog Number	Resistance Ohms	Current Milli-amperes
20HJ25	25	2830
20HJ50	50	2000
20HJ75	75	1635
20HJ100	100	1414
20HJ250	250	894
20HJ500	500	632
20HJ750	750	515
20HJ1000	1000	447
20HJ1500	1500	365
20HJ2000	2000	316
20HJ2500	2500	283
20HJ3000	3000	258
20HJ5000	5000	200
20HJ7500	7500	163
20HJ10000	10000	141
20HJ20000	20000	100
20HJ30000	30000	80
20HJ40000	40000	62
20HJ50000	50000	50
20HJ75000	75000	33
20HJ100000	100000	25

Catalog Number	Resistance Ohms	Current Milli-amperes
1AV1	1	3150
1AV2	2	2200
1AV3	3	1800
1AV5	5	1400
1AV7.5	7.5	1100
1AV10	10	1000
1AV15	15	812
1AV20	20	707
1AV25	25	630
1AV50	50	447
1AV75	75	360
1AV100	100	315
1AV150	150	260
1AV200	200	220
1AV250	250	200
1AV300	300	180
1AV350	350	170
1AV400	400	158
1AV500	500	141
1AV600	600	130
1AV750	750	115
1AV800	800	112
1AV1000	1000	100
1AV1250	1250	89
1AV1500	1500	81
1AV2000	2000	70
1AV2250	2250	66.5
1AV2500	2500	63
1AV3000	3000	56
1AV3500	3500	53
1AV4000	4000	50
1AV4500	4500	47
1AV5000	5000	45
1AV6000	6000	40
1AV7000	7000	38
1AV7500	7500	36
1AV8000	8000	35
1AV8500	8500	34
1AV9000	9000	33
1AV10000	10000	32

Dimensional Drawing of all Types of Resistors



Key to Resistor Dimensions

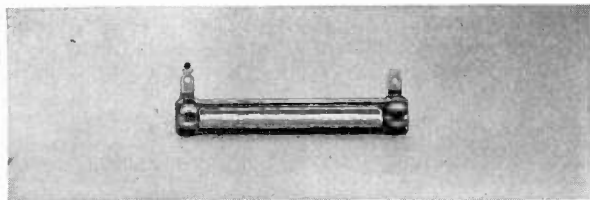
Rtg. Watts	Type	A	B	C	D	E	F	G	H	I	J	K
5	*HHJ	1	5/16	1 1/2	7/16	1/8	3/16	.070	.....	.....	.....	.....
10	*1HJ	1 3/4	5/16	1 1/2	7/16	1/8	3/16	.070	.....	.....	.....	.....
20	*2HJ	2	1/2	1 1/2	13/16	1/4	7/16	.144	.....	.....	.....	.....
50	5HJ	4 1/2	3/4	4	15/16	1/4	1/2	.144	5	.203	3/4	1/2
100	10HJ	6 1/2	1 1/8	5 3/4	1 1/8	1/4	3/8	.144	7 1/4	.265	1 1/4	1 1/16
200	20HJ	10 1/2	1 1/8	9 3/4	1 1/8	1/4	3/8	.144	11 1/4	.265	1 1/4	1 1/16
10	1AV	1 3/4	5/16	1 1/2	7/16	1/8	3/16	.070	2 5/16	.142	5/8	7/16
25	2AV	2 1/2	3/8	2	7/8	1/4	7/16	.144	3	.203	3/4	1/2
50	5AV	4 1/2	3/8	4	7/8	1/4	7/16	.144	5	.203	3/4	1/2
80	8AV	6 1/2	3/8	6	7/8	1/4	7/16	.144	7	.203	3/4	1/2
100	10AV	6 1/2	1 1/8	5 3/4	1 1/8	1/4	3/8	.144	7 1/4	.265	1 1/4	1 1/16
200	20AV	10 1/2	1 1/8	9 3/4	1 1/8	1/4	3/8	.144	11 1/4	.265	1 1/4	1 1/16

*Types HHJ, 1HJ and 2HJ furnished with lugs and wire leads.
 Types 5HJ, 10HJ, and 20HJ furnished with lugs.

25 Watt—Adjustable Vitreous Enamel Resistors—Tube Size 5/8" x 2 1/2"
One Resistor Per Display Carton

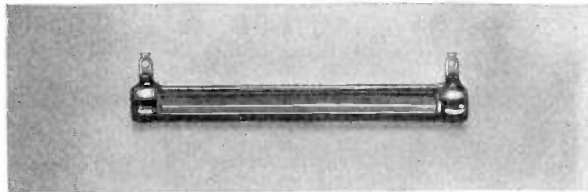
Catalog Number	Resistance Ohms	Current Milli-amperes
2AV1	1	5000
2AV3	3	2890
2AV5	5	2240
2AV10	10	1580
2AV15	15	1290
2AV25	25	1000
2AV50	50	707
2AV75	75	575
2AV100	100	500
2AV150	150	400
2AV200	200	353
2AV250	250	316
2AV300	300	288
2AV400	400	250
2AV500	500	224
2AV750	750	182
2AV1000	1000	158
2AV1250	1250	141
2AV1500	1500	129
2AV2000	2000	112
2AV2500	2500	100
2AV3000	3000	91
2AV3500	3500	84
2AV4000	4000	79
2AV5000	5000	71
2AV6000	6000	64
2AV7500	7500	57
2AV10000	10000	50
2AV12000	12000	42
2AV15000	15000	33
2AV20000	20000	25
2AV25000	25000	20

MALLORY ADJUSTABLE RESISTORS



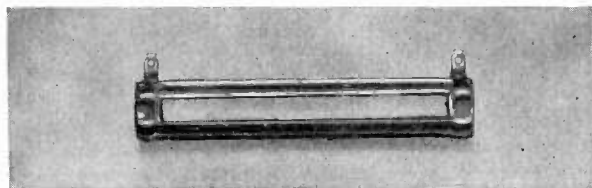
50 Watt—Adjustable Vitreous Enamel Resistors—Tube Size $\frac{5}{8}$ " x $4\frac{1}{2}$ "
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
5AV5	5	3160
5AV10	10	2230
5AV25	25	1410
5AV50	50	1000
5AV75	75	816
5AV100	100	707
5AV150	150	577
5AV200	200	500
5AV250	250	447
5AV300	300	408
5AV400	400	354
5AV500	500	316
5AV750	750	258
5AV1000	1000	224
5AV1500	1500	182
5AV2000	2000	158
5AV2500	2500	141
5AV3000	3000	129
5AV4000	4000	112
5AV5000	5000	100
5AV7500	7500	81
5AV10000	10000	70
5AV12000	12000	64
5AV15000	15000	57
5AV20000	20000	50
5AV25000	25000	40
5AV30000	30000	33
5AV40000	40000	25
5AV50000	50000	20



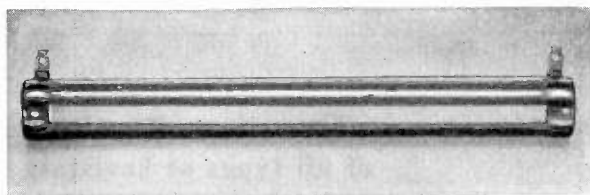
100 Watt—Adjustable Vitreous Enamel Resistors—Tube Size $1\frac{1}{8}$ " x $6\frac{1}{2}$ "
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
10AV50	50	1413
10AV100	100	1000
10AV500	500	447
10AV1000	1000	316
10AV2000	2000	223
10AV2500	2500	200
10AV3000	3000	182
10AV4000	4000	158
10AV5000	5000	141
10AV7500	7500	115
10AV10000	10000	100
10AV15000	15000	80
10AV20000	20000	70
10AV25000	25000	60
10AV30000	30000	50
10AV35000	35000	43
10AV40000	40000	37
10AV50000	50000	30
10AV75000	75000	20



80 Watt—Adjustable Vitreous Enamel Resistors—Tube Size $\frac{5}{8}$ " x $6\frac{1}{2}$ "
One Resistor per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
8AV10	10	2830
8AV15	15	2310
8AV25	25	1790
8AV50	50	1265
8AV100	100	894
8AV250	250	566
8AV300	300	517
8AV400	400	495
8AV500	500	400
8AV750	750	327
8AV1000	1000	283
8AV1500	1500	231
8AV2000	2000	200
8AV2500	2500	179
8AV3500	3500	152
8AV5000	5000	126
8AV7500	7500	103
8AV10000	10000	89
8AV15000	15000	73
8AV20000	20000	63
8AV25000	25000	50
8AV30000	30000	42
8AV40000	40000	31
8AV50000	50000	25
8AV60000	60000	21
8AV75000	75000	16.5
8AV80000	80000	15.5
8AV100000†	100000	12.5



200 Watt—Adjustable Vitreous Enamel Resistors—Tube Size $1\frac{1}{8}$ " x $10\frac{1}{2}$ "
One Resistor Per Display Carton

Catalog Number	Resistance Ohms	Current Milliamperes
20AV50	50	2000
20AV100	100	1414
20AV500	500	632
20AV1000	1000	447
20AV1500	1500	365
20AV2000	2000	316
20AV2500	2500	283
20AV5000	5000	200
20AV10000	10000	141
20AV20000	20000	100
20AV25000	25000	80
20AV30000	30000	62
20AV50000	50000	50
20AV75000	75000	33

Extra Adjustable Clips

Type No. 1V— For 10-Watt Variohms*

Type No. 3V— For 25, 50, and 80-Watt Variohms

Type No. 6V— For 100 and 200-Watt $1\frac{1}{8}$ " Variohms

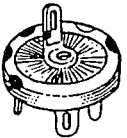
*Reg. U.S. Pat. Off.

†Will be discontinued when present stocks are exhausted.

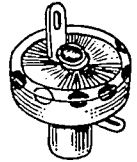


ERIE BUTTON STYLE SILVER MICA CAPACITORS

These are midget silver-mica capacitors, for use where compact size, minimum external inductance, and high internal series resistance are essential. Erie button silver-mica capacitors are unmatched for V.H.F. and U.H.F. work. "Q" at 1 MC is not less than 1000 above 100 mmf; not less than 700 between 50 and 100 mmf; not less than 500 below 50 mmf. Type 370-CB has ring type metal shell with three soldering ears. High potential terminal at either end for feed-thru connection. Type 370-FA is fastened to chassis with 3-48 screw.



STYLE
CB



STYLE
FA

SPECIFICATION CHART

Style	Capacity	Tolerance	List Price
370CB and 370FA	15	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	25	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	50	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	100	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	150	20%	.80
		10%	.90
		5%	1.30
370CB and 370FA	200	20%	.90
		10%	1.00
		5%	1.45
370CB and 370FA	250	20%	1.00
		10%	1.10
		5%	1.65
370CB and 370FA	300	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	400	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	500	20%	1.10
		10%	1.25
		5%	1.85
370CB and 370FA	750	20%	1.75
		10%	2.00
		5%	2.90
370CB and 370FA	1000	20%	2.20
		10%	2.50
		5%	3.50

ERIE

ERIE RESISTOR CORPORATION—ERIE, PA.

ERIE CERAMICONS[®]

STYLE K



STYLE M



STYLE 335



STYLE 334



STYLE L



ERIE CERAMICONS^{*} are small fixed capacitors consisting essentially of a ceramic dielectric with silver electrodes which are fired on at a very high temperature. Erie Ceramicons are outstanding because of their excellent high frequency characteristics, small size, rugged construction and availability in a wide range of capacity values.

Physical dimensions of styles illustrated are:

Style K length .562" diameter .250" Style 334 length 1.213" diameter .415"
 Style L length .812" diameter .250" Style 335 length 1.650" diameter .415"
 Style M length 1.328" diameter .340"

"GP" General Purpose CERAMICONS[®]

"GP" general purpose Ceramicons are ideally suited for such applications as coupling and by-passing, in circuits where temperature coefficient is not important — in other words for all receiver applications except in frequency determining circuits. Working voltage — 500 volts D.C. Use Erie "GP" Ceramicons as replacements for molded mica and paper tubular capacitors.

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
GP1K	10	20%	.25
GP1K	12	20%	.25
GP1K	15	20%	.25
GP1K	18	20%	.25
GP1K	22	20%	.25
GP1K	25	20%	.25
GP1K	27	20%	.25
GP1K	33	20%	.25
GP1K	39	20%	.25
GP1K	47	20%	.25
GP1K	50	20%	.25
GP1K	56	20%	.25
GP1K	68	20%	.25
GP1K	75	20%	.25
GP1K	100	20%	.25
GP2K	120	20%	.25
GP2K	150	20%	.25
GP2K	180	20%	.25
GP2K	200	20%	.25
GP2K	220	20%	.25
GP2K	250	20%	.25
GP2K	270	20%	.25
GP2K	300	20%	.25

Style	Capacity (MMF)	Tolerance	List Price
GP2K	330	20%	.25
GP2K	390	20%	.25
GP2K	470	20%	.25
GP2K	500	20%	.25
GP2K	560	20%	.25
GP2K	680	20%	.25
GP2K	750	20%	.25
GP2L	1,000	20%	.25
GP2L	1,200	20%	.25
GP2L	1,500	20%	.25
GP2M	1,800	20%	.25
GP2M	2,000	20%	.25
GP2M	2,200	20%	.25
GP2M	2,500	20%	.25
GP2M	2,700	20%	.25
GP2M	3,000	20%	.25
GP2M	3,300	20%	.25
GP2M	4,700	20%	.30
GP2M	5,000	20%	.30
GP2M	5,600	20%	.30
GP2-334	6,800	20%	.30
GP2-335	7,500	20%	.30
GP2-335	10,000	20%	.30

NPO Zero Temperature Coefficient CERAMICONS[®]

NPO zero temperature coefficient Ceramicons are highly recommended for frequency applications where no capacity change with change in temperature is desired. "Q" for NPO Ceramicons above 30 mmf is 1000 or higher. Below 30 mmf "Q" decreases slightly as capacity decreases. Working voltage — 500 volts D.C. Can be used as replacements for silver mica condensers.

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
NPOK	1.5	10%	.50
NPOK	3	10%	.50
NPOK	3.3	10%	.50
NPOK	4.7	10%	.50
NPOK	5	10%	.50
NPOK	6.8	10%	.50
NPOK	8.2	10%	.50
NPOK	10	10%	.50

Style	Capacity (MMF)	Tolerance	List Price
NPOL	20	10%	.50
NPOL	25	10%	.50
NPOL	33	10%	.50
NPOM	50	10%	.55
NPOM	75	10%	.55
NPOM	100	10%	.55
NPO-334	150	10%	.60
NPO-334	175	10%	.60

* "Ceramicon" and "GP" are registered trade names and refer to ceramic dielectric condensers manufactured by Erie Resistor Corp.



Negative Temperature Coefficient CERAMICONS®

N080 and N750 units provide temperature compensation to eliminate drift.

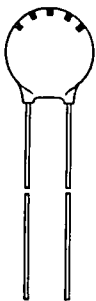
SPECIFICATION CHART

ERIE TUBULAR TYPE N750 CERAMICONS

Style	Capacity (MMF)	Tolerance	List Price
N750K	5	10%	.50
N750K	10	10%	.50
N750L	47	10%	.50
N750L	75	10%	.50
N750L	100	10%	.50

ERIE TUBULAR TYPE N080 CERAMICONS

Style	Capacity (MMF)	Tolerance	List Price
N080-331	10	10%	.60
N080-331	22	10%	.60
N080-338	33	10%	.60
N080-338	47	10%	.60
N080-338	62	10%	.60



ERIE DISC CERAMICONS®

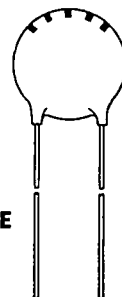
Erie Disc Ceramicons consist of a flat Hi-K ceramic dielectric with silver fired on to the dielectric. Lead wires are firmly soldered to the silver electrodes, and the unit is given a protective coating of phenolic. Very efficient at high frequencies.

SPECIFICATION CHART

STYLE
811

Style	Size	Value	List Price
811	19/32" Dia.	.005 min.	.25
821	3/4" Dia.	.01 min.	.30

STYLE
821



ERIE STAND-OFF CERAMICONS®

Stand-Off Ceramicons, an original Erie development, are now widely used for the dual purposes of by-passing R.F. current to ground, and of mechanically supporting other circuit elements. They are especially suited for V.H.F. and U.H.F. applications, due to their low-inductance electrical paths and resultant high resonant frequency.

SPECIFICATION CHART

STYLE
324

Style	Capacity (MMF)	Tolerance	List Price
323	50	20%	.60
323	100	20%	.60
323	500	20%	.60
324	1,000	20%	.60
324	1,500	20%	.60

STYLE
323



ERIE FEED-THRU CERAMICONS®

This very practical feed-thru capacitor is highly recommended for by-passing R.F. to ground in feed-thru applications. Wire terminals are sufficiently rugged to serve as tie points for several connections, for supporting other circuit elements, and long enough for point to point wiring.

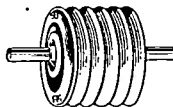


STYLE
362

SPECIFICATION CHART

Style	Capacity (MMF)	Tolerance	List Price
362	1500	20%	1.00

ERIE HIGH VOLTAGE CERAMICONS®



STYLE
410

15 KV Ceramicon specially designed for television receiver power supply filter application. The only ceramic condenser on the market with these two extra features: (1) Ridges on all surfaces to give extra creepage path, and (2) ceramic dielectric with built-in corona shields for extra protection against internal flashover. Capacity range — 500 mmf minimum. 1 1/8" diameter x 1/8" long. Approved by leading television manufacturers for original equipment.

SPECIFICATION CHART

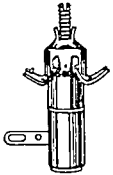
Style	Capacity (MMF)	Tolerance	List Price
410	500	20%	2.25

ERIE

ERIE RESISTOR CORPORATION—ERIE, PA.

ERIE TUBULAR TRIMMERS

Here is a compact, economical tubular trimmer that is ideal for applications calling for a low minimum capacity and a high ratio of maximum to minimum capacity. Has molded plastic dielectric. Can be mounted on panels having a thickness of .040" to .065"



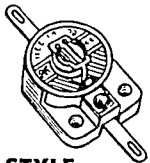
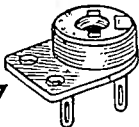
STYLE 532

SPECIFICATION CHART

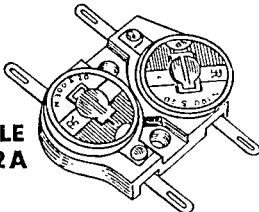
Style	Capacity Range (MMF)	List Price
532-08	0.5-5	.55
532	1-8	.55

ERIE CERAMICON TRIMMERS

Erie Ceramicon trimmers give maximum stability and ease of adjustment. Capacity change is constant per degree of rotation. Silver electrodes are fired on to ceramic rotor and base. 360 degree rotor completely covers entire track on stator thus preventing dust and other foreign matter from affecting characteristics of the unit.

STYLE
TS2A

STYLE 557

STYLE
TD2A

SPECIFICATION CHART

Style	Capacity Range (MMF)	Temperature Coefficient	List Price
TS2A	1.5-7	NPO	1.50
	3-12	NPO	1.50
	4-30	NS00	1.50
	7-45	NS00	1.50
TD2A	1.5-7 each section	NPO	2.50
	3-12 " "	NPO	2.50
	4-30 " "	NS00	2.50
	7-45 " "	NS00	2.50
557	3-12	NPO	1.25
	5-25	NPO	1.25
	8-50	N750	1.25

ERIE SUPPRESSORS

Erie Suppressors use a special resistance element that is superior because of its low voltage coefficient. These suppressors effectively eliminate ignition interference in auto radios, and in nearby F.M. and Television home sets. Erie Suppressors have a resistance value of 10,000 ohms. Style L-4 fits spark plugs, style L-7 for distributor cables.



STYLE L-4



STYLE S-5

SPECIFICATION CHART

Style	List Price
S-5	.30
L-4	.30

INSULATED RESISTORS

Preferred for Performance



TYPE BTS INSULATED FILAMENT RESISTOR

(1/2 watt)

1 3/32" x 1/8"—470 ohms to 22 meg
350 volts max.

List 17¢

TYPE BTA INSULATED FILAMENT RESISTOR

(1 watt)

2 3/32" x 1/4"—330 ohms to 22 meg
500 volts max.

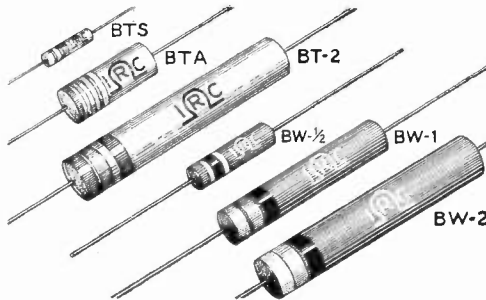
List 25¢

TYPE BT-2 INSULATED FILAMENT RESISTOR

(2 watt)

1 3/4" x 2 1/64"—470 ohms to 22 meg
500 volts max.

List 50¢



TYPE BT INSULATED FILAMENT RESISTORS are completely insulated with bakelite and unexcelled for stability, low-noise level, low voltage coefficient and mechanical strength. Insulation breakdown of Type BTS is 750 volts to ground; all other Type BT's, 1000 volts. Standard tolerance $\pm 10\%$. Special tolerance $\pm 5\%$ at slightly higher cost.

TYPE BW INSULATED WIRE WOUND RESISTORS are furnished with the same bakelite insulation as BT resistors. The wire resistance element is wound tightly around a special insulated core. Standard tolerance $\pm 10\%$. Special tolerance $\pm 5\%$ at slightly higher cost.

Type BW-1/2 Insulated Wire Wound Resistor

(1/2 watt)

5/8" x 3/16"—0.47 to 820 ohms

List 17¢

Type BW-1 Insulated Wire Wound Resistor

(1 watt)

1 1/4" x 1/4"—0.47 to 4,700 ohms

List 25¢

Type BW-2 Insulated Wire Wound Resistor

(2 watt)

1 3/4" x 2 1/64"—1.0 to 6,800 ohms

List 50¢

STANDARD RANGES

Standardization pays dividends! It can be an important profit factor for you, too.

The great majority of radio parts manufacturers were quick to see the advantages in standardization and adopted the RMA Preferred Ranges some years ago. IRC has pioneered standardization of resistors because close contact with the radio industry has convinced us that such standardization is not only desirable but absolutely essential to carry out the tremendous development and production program of the industry.

This IRC policy will help servicemen prepare for better, faster and more profitable business.

Type BT and BW Resistors, in 10% tolerance, are carried in stock in the RMA ranges listed below. Figures in heavy type are the standard RMA 10% tolerance values. Using 10% tolerance BT's and BW's, these 93 ranges give complete coverage of all values with the smallest resistor stock. Standardization of your stock on these values is recommended for economical, complete coverage, faster turnover . . . more profit for you!

However, the intermediate values listed below also are carried in the IRC stockroom, so that every RMA value is available to servicemen when desired.

JOBBER'S STOCK IN PREFERRED RMA RANGES

Subject to the minimum and maximum values for each of the various types of BT and BW Resistors.

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Ohms	Megs	Megs	Megs
0.47	3.0	18	110	680	4,300	27,000	0.1	0.62	5.9
0.51	3.3	20	120	750	4,700	30,000	0.11	0.68	4.3
0.56	3.6	22	130	820	5,100	33,000	0.12	0.75	4.7
0.62	3.9	24	150	910	5,600	36,000	0.13	0.82	5.1
0.68	4.3	27	160	1,000	6,200	39,000	0.15	0.91	5.6
0.75	4.7	30	180	1,100	6,800	43,000	0.16	1.0	6.2
0.82	5.1	33	200	1,200	7,500	47,000	0.18	1.1	6.8
0.91	5.6	36	220	1,300	8,200	51,000	0.20	1.2	7.5
1.0	6.2	39	240	1,500	9,100	56,000	0.22	1.3	8.2
1.1	6.8	43	270	1,600	10,000	62,000	0.24	1.5	9.1
1.2	7.5	47	300	1,800	11,000	68,000	0.27	1.6	10.0
1.3	8.2	51	330	2,000	12,000	75,000	0.30	1.8	11.0
1.5	9.1	56	360	2,200	13,000	82,000	0.33	2.0	12.0
1.6	10	62	390	2,400	15,000	91,000	0.36	2.2	13.0
1.8	11	68	430	2,700	16,000		0.39	2.4	15.0
2.0	12	75	470	3,000	18,000		0.43	2.7	16.0
2.2	13	82	510	3,300	20,000		0.47	3.0	18.0
2.4	15	91	560	3,600	22,000		0.51	3.3	20.0
2.7	16	100	620	3,900	24,000		0.56	3.6	22.0



INSULATED RESISTORS

Preferred for Performance

BASIC KIT

Designed to meet your day-to-day resistor requirements, the IRC Basic Kit provides a wide variety stock in carefully selected values. Assortments are so arranged that a shortage of stock in one range can usually be compensated for by using two other ranges in series or parallel. Additional adjustable bands are included for use in making up bleeder sections.

The Basic Kit is sturdily constructed of heavy-gauge steel, and beautifully finished in blue and yellow. Hung on your wall or set on your service bench, the Basic Kit saves countless trips for supplies and provides your shop with a neat, carefully selected general purpose resistor stock.

The IRC Basic Kit is factory-packed with the following wide-variety resistor stock:

- BTS —10 each—1,000, 2,200, 4,700, 10,000, 15,000, 22,000, 27,000, 47,000, 75,000 ohm; 0.1 meg., 0.22 meg., 0.47 meg., 1.0 meg., 2.2 meg., 10.0 meg. 15.0 meg.
- BTA —5 each—470, 1,000, 1,500, 2,200, 3,600, 4,700, 22,000, 36,000, 75,000 ohm.
10 each—10,000, 15,000, 47,000 ohm; 0.1 meg., 0.24 meg. 0.47 meg., 1 meg.
- BW-1/2 —10 each—100, 150, 220, 330, 470, 560 ohm.
- BT-2 —5 each—1,000, 2,200, 4,700, 10,000, 22,000, 47,000 ohm; 0.1 meg.
- BW-1 —5 each—47, 82, 100, 270 ohm.
- BW-2 —5 each—47, 82, 100, 270 ohm.
- AB —2 each—100, 250, 500, 750, 1,000, 1,500, 2,500, 5,000, 10,000 ohm.
2 each—15,000, 25,000 ohm.
- ABA —2 each—100, 250, 500, 1,000, 1,500, 2,500, 5,000, 10,000 ohm.
- EPA —1 each—1,000, 1,500, 2,500, 5,000 ohm.
1 each—10,000, 25,000 ohm.
- ESA —1 each—1,000, 1,500, 2,500, 5,000 ohm.
1 each—10,000, 25,000, 50,000 ohm.
6 "X-3" Bands.
- MW-2J—2 each—10, 20, 50, 100 ohm.
- M1034—2 each.

All-Metal Cabinet Furnished at No Extra Cost
List Price: \$160.53



Serviceman's Special Assortment Available in Basic Kit

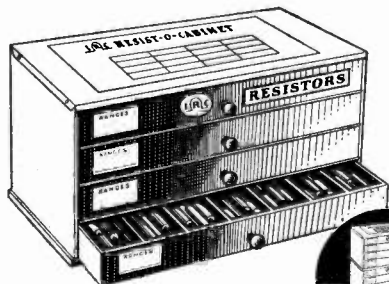
The Basic Kit is also available stocked with a special "Serviceman's Assortment." This assortment contains a complete stock of 1/2, 1 and 10 watt resistors, plus a selection of controls, shafts and switches. The heavy-duty power wire-wound resistors are not furnished in this assortment—leaving space in the compartments and drawers for capacitors, lamp bulbs, solder, small tools and spare parts.

The "Serviceman's Assortment" is factory-packed with the following:

- 160—BTS resistors
- 115—BTA resistors
- 60—BW 1/2 resistors
- 20—BW-1 resistors
- 22—AB power resistors
- 2—# 41 switches
- 1—# 42 switch
- 4—D13-133 controls
- 1—D13-133X control
- 1—D13-137 control
- 1—D13-137X control
- 1—D13-139 control
- 2—"E" shafts
- 1—"H" shaft

List Price: \$99.54

RESIST-O-CABINET



**End Cigar Box Confusion—
Keep Your Resistors in Order!**

The sturdy, IRC Resist-O-Cabinet is specifically designed to hold resistors systematically and safely without the bending of leads. It puts an end to "cigar box confusion!" Its four "non-spill" drawers have seven ample-sized compartments in each which readily accommodate resistor sizes from 1/2 to 10 watts.

Attractively finished in blue, yellow and silver. Ohm's Law formulas neatly and permanently lithographed on top of cabinet for handy reference. Cabinet measures 11" long, 5 1/2" high and 5 1/2" deep. Bases of Resist-O-Cabinets are arranged for stacking so that several cabinets may be used to increase stock capacity. This handy Resist-O-Cabinet is FREE with the purchase of any of the three well-balanced IRC resistor assortments listed. (Cabinet is not sold separately.)

ASSORTMENT No. 1—59 Resistors

Type BTS—One each 1,000, 4,700, 10,000, 27,000, 47,000 ohms; 0.1 meg, 0.27, 0.47 megs.

Type BTA—One each 39,000, 68,000 ohms; 0.15, 0.22 megs. Two each 1,000, 1,500, 2,200, 2,700, 4,700, 15,000, 27,000 ohms; 1.0, 2.2 megs. Three each 10,000, 47,000 ohms; 0.1 meg, 0.27, 0.47 megs.

Type AB 10 Watt—One each 1,000, 1,500, 2,500, 5,000 ohms. Two each 10,000 and 25,000 ohms.

Type ABA, 10 Watt Adjustable—One each 1,000, 2,500, 5,000, 10,000.

List price of Resistors, \$22.87
(Cabinet furnished at no extra charge)

ASSORTMENT No. 2—100 Resistors

Type BW-1/2—Two each 47, 100, 270 ohms.

Type BTS—Two each 3,300, 6,800, 33,000, 68,000, 82,000 ohms; 0.22, 0.33 megs. Three each 470, 1,500, 15,000, 22,000, 39,000 ohms; 0.15, 1.0, 2.2 megs. Five each 2,200, 2,700, 27,000 ohms; 0.27 megs. Six each 1,000, 4,700, 10,000, 47,000 ohms; 0.1, 0.47 megs.

List price of Resistors, \$17.00
(Cabinet furnished at no extra charge)

ASSORTMENT No. 3—83 Resistors

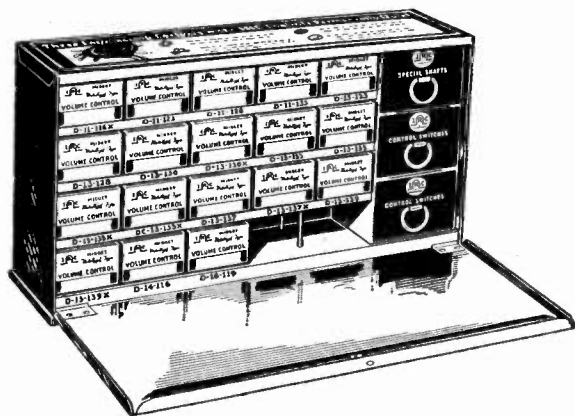
Type BW-1—Two each 47, 100, 270 ohms.

TYPE BTA—Two each 470, 1,500, 2,700, 3,300, 6,800, 33,000, 39,000, 68,000, 82,000 ohms; 0.15, 0.22, 0.33, 1.0, 2.2 megs. Three each 15,000, 22,000, 27,000 ohms. Five each 1,000, 2,200, 4,700, 10,000, 47,000 ohms; 0.1, 0.27, 0.47 megs.

List price of Resistors, \$20.75
(Cabinet furnished at no extra charge)

VOLUME CONTROLS

Preferred for Performance



IRC VOLUME CONTROL CABINET

For the Modern Service Shop

This handy stock of IRC Type D Universal Controls, quickly attached switches and easily installed shafts is factory-packed in an attractive all-metal cabinet. Proved by IRC Service Records to be a selection of the most popular controls—you can actually service over 87% of all replacements right from this cabinet. Here is your answer to speedier, more efficient servicing—reduction of costly exact-duplicate inventories—and modern appearance for your shop.

Cabinet measures 14½" long, 7⅞" high and 4½" wide. It is handsomely finished in yellow, blue and silver and provides separate compartments for controls and three handy drawers for switches, special shafts and spare parts. Each compartment and drawer is individually marked for identification. The hinged front cover snaps securely shut. The cabinet is furnished at no extra charge when factory-packed with the IRC controls, switches and shafts listed on the left. It is not sold separately.

Check this fast-selling stock!

The IRC Volume Control Cabinet is factory-packed with the following 18 Type D All-Purpose Controls, switches and special shafts.

IRC Control Type No.	Resistance	Purpose	IRC Control Type No.	Resistance	Purpose
2-D13-133	500,000	A	1-D13-133X	500,000	F
1-D11-116	10,000	B	1-DC13-133X	500,000	G
1-D11-123	50,000	C	1-D13-137	1.0	A
1-D11-128	100,000	C	1-D13-137X	1.0	F
1-D11-133	500,000	C	1-D13-139	2.0	A
1-D13-123	50,000	D	1-D13-139X	2.0	F
1-D13-128	100,000	A	1-D14-116	10,000	H
1-D13-130	250,000	A	1-D16-119	20,000	B
1-D13-130X	250,000	E			

A—Tone or Audio Circuit Control
 B—Antenna Grid Bias Control
 C—Potentiometer Voltage Divider
 D—Tone Control

E—Tapped for A. V. C.
 F—Tapped for Tone Compensation
 G—Friction Clutch Auto Radio Type
 H—Antenna Grid Bias of 2 Tubes

Switches: 5—No. 41 S.P.S.T.; 1—No. 42 D.P.S.T.
 Shafts: 1—Type B Auto Radio; 4—Type E knurled and slotted—with thin web

ORDER YOUR IRC VOLUME CONTROL CABINET TODAY

List Price: \$30.90

NEW IRC ALL-PURPOSE KIT

Here's how to sharpen the appearance of your shop without an additional outlay of cash! 9 "hot-number" IRC ½, 1 and 2 meg. controls are available pre-packed in the All-Purpose Kit with 4 switches and 4 special shafts. Every one a fast mover . . . and you pay only the standard net cost of the merchandise. At no extra cost you receive this attractive 12 compartment utility cabinet.

Buy your "hot-number" controls this way each week and accumulate a shelf of these neat cabinets—each pre-packed with the following IRC merchandise:

IRC Control Type No.	Resistance	Purpose
5 D13-133	500,000	A
1 D13-133X	500,000	B
1 D13-137	1.0	A
1 D13-137X	1.0	B
1 D13-139	2.0	A

SWITCHES

3 #41 S.P.S.T.
 1 #42 D.P.S.T.

SHAFTS

1 Type "A" double-flatted tap-in shaft is included with each control—plus:

3 Type "E" with universal knurl for special type push-on knobs.
 1 Type "H" with universal groove for many Delco, RCA, Sears-Roebuck and Westinghouse models.

Sturdy utility cardboard cabinet measures 7¼"x7¾"x4½". It is attractively finished in yellow, blue and silver, and provides 4 drawers with 12 compartments. Ideal stocking arrangement for miscellaneous parts—hardware, knobs, capacitors, shafts and dial fittings.



Cabinet furnished at no extra cost.

List Price \$16.20

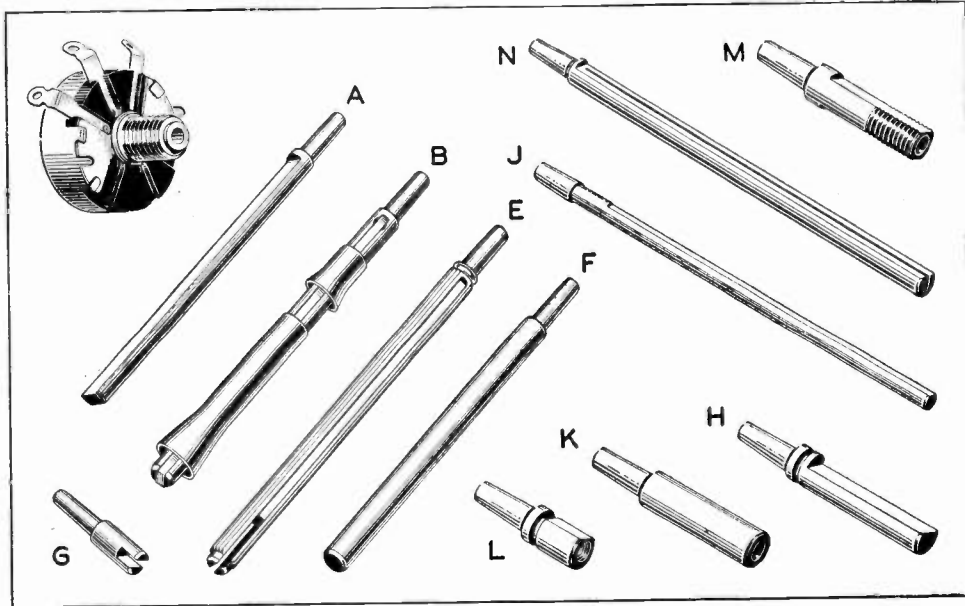


VOLUME CONTROLS

Preferred for Performance

THE IRC "CENTURY" LINE

114 IRC CONTROLS THAT SOLVE 90% OF YOUR REPLACEMENT PROBLEMS



For miscellaneous service needs, 71 all-purpose controls are available for use with the popular IRC tap-in shafts. An A shaft is included with each control and shafts B, E, F, G, H, J, K, L, M and N may be had at slight extra cost. Each D Control accommodates any of the eleven Tap-in Shaft types shown. Shaft flats may be located in any position. A few extra shafts greatly increase the utility of your D Control stock at a small investment. Of unusual convenience is the "Double-Flatted" A shaft, included with each D Control. Accommodates popular push-on knobs

requiring either $\frac{1}{8}$ " or $\frac{3}{16}$ " flats and all set-screw knobs without filing of shaft or use of inserts. Dimensions: $1\frac{1}{8}$ " x $\frac{1}{16}$ ".
 Single Control—Without switch List \$1.25
 Tapped Control—Without switch List 1.85
 Prices include Shaft A packed with each control

Easily Installed "Tap-in" Shafts

Type B, M—List \$0.45
 Types E, F, G, H, J, K, L, N—List \$0.30

70 UNIVERSAL TYPE D CONTROLS with 11 easily installed Tap-In Shafts

Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application	Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application
500	—	D11-103	A	Potentiometer Voltage Divider	250M	60M-120M	D18-130XX	Spec.	Audio Control with 2 Tone Taps
1M	—	D11-108	A	Potentiometer Voltage Divider	350M	—	D13-132	C	Tone or Audio Circuit Control
2M	—	D11-110	A	Potentiometer Voltage Divider	350M	35M	D17-132X	Spec.	Audio Control with Tone Tap
3M	—	D11-112	A	Potentiometer Voltage Divider	350M	75M	D18-132X	H	Audio Control with Tone Tap
4M	—	D11-113	A	Potentiometer Voltage Divider	500M	—	D11-133	A	Potentiometer Voltage Divider
5M	—	D11-114	A	Potentiometer Voltage Divider	500M	—	D13-133	C	Tone or Audio Circuit Control
5M	—	D13-114	C	Antenna Control	500M	125M	D13-133X	H	Audio Control with Tone Tap
5M	—	D14-114	D	*Antenna C Bias Control	500M	—	D14-133	D	R.F. Plate Control
7,500	—	D11-115	A	Potentiometer Voltage Divider	500M	25M	D17-133X	Spec.	Audio Control with Tone Tap
10M	—	D11-116	A	*Antenna Grid Bias Control	500M	50M	D18-133X	Spec.	Audio Control with Tone Tap
10M	—	D13-116	C	Antenna Control	500M	250M	D19-133X	Spec.	Audio Control with Tone Tap
10M	—	D14-116	D	*Antenna Grid Bias of 2 Tubes	500M	100M-200M	D18-133XX	Spec.	Audio Control with 2 Tone Taps
10M	—	D16-116	F	*Antenna Grid Bias of 1 Tube	1.0 meg.	—	D11-137	A	Potentiometer Voltage Divider
13M	3M	D18-117X	H	I. F. Shunting Control	1.0 meg.	—	D13-137	C	Tone or Audio Circuit Control
15M	—	D14-118	D	*Antenna Grid Bias Control	1.0 meg.	250M	D13-137X	H	Audio Control with Tone Tap
15M	—	D16-118	F	*Antenna Grid Bias Control	1.0 meg.	—	D14-137	D	Tone Control
20M	—	D16-119	F	*Antenna Grid Bias Control	1.0 meg.	35M	D17-137X	Spec.	Audio Control with Tone Tap
25M	—	D11-120	A	Potentiometer Voltage Divider	1.0 meg.	50M-100M	D17-137XX	Spec.	Audio Control with 2 Tone Taps
25M	—	D14-120	D	*Grid Bias Control	1.0 meg.	160M	D18-137X	Spec.	Audio Control with Tone Tap
25M	—	D16-120	F	Antenna Control	1.0 meg.	250M-500M	D18-137XX	Spec.	Audio Control with 2 Tone Taps
30M	6M	D18-122X	H	Audio Control with Tone Tap	1.0 meg.	500M	D19-137X	Spec.	Audio Control with Tone Tap
44M	7M-14M	D18-123XX	Spec.	Audio Control with 2 Tone Taps	1.0 meg.	500M	DVC-539X	Spec.	Fader control for fading one circuit into another
50M	—	D11-123	A	Potentiometer Voltage Divider	2.0 meg.	—	D13-139	C	Tone or Audio Circuit Control
50M	—	D13-123	C	Tone Control	2.0 meg.	500M	D13-139X	H	Audio Control with Tone Tap
50M	—	D14-123	D	*Antenna Grid Bias Control	2.0 meg.	5M	D15-139X	Spec.	Audio Control with Tone Tap
75M	—	D13-125	C	Tone Control	2.0 meg.	500M-1.0 meg.	D13-139XX	Spec.	Audio Control with 2 Tone Taps
75M	—	D14-125	D	*Grid Bias Control	2.0 meg.	150M	D17-139X	Spec.	Audio Control with Tone Tap
100M	—	D11-128	A	Potentiometer Voltage Divider	2.0 meg.	1.0 meg.	D18-139X	Spec.	Audio Control with Tone Tap
100M	—	D13-128	C	Tone or Audio Circuit Control	2.0 meg.	250M-500M	D18-139XX	Spec.	Audio Control with 2 Tone Taps
200M	—	D11-129	A	Potentiometer Voltage Divider	2.0 meg.	50M	D19-139X	Spec.	Audio Control with Tone Tap
200M	—	D14-129	D	*Grid Bias Control	2.0 meg.	—	D13-140	C	Audio Control
250M	—	D11-130	A	Potentiometer Voltage Divider	3.0 meg.	—	D11-141	A	Potentiometer Voltage Divider
250M	—	D13-130	C	Tone or Audio Circuit Control	5.0 meg.	—	D11-142	A	Potentiometer Voltage Divider
250M	125M	D13-130X	Spec.	Audio Control with A.V.C. Tap	7.0 meg.	—	D11-143	A	Potentiometer Voltage Divider
250M	—	D14-130	D	*Grid Bias Control	10.0 meg.	—			
250M	25M	D17-130X	Spec.	Audio Control with Tone Tap					
250M	60M	D18-130X	H	Audio Control with Tone Tap					

* Supplied with 270 ohm BW $\frac{1}{2}$ ($\frac{1}{2}$ Watt) Insulated Wire Wound Resistor.

VOLUME CONTROLS

Preferred for Performance



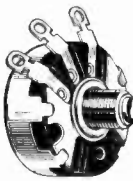
THE IRC "CENTURY" LINE

114 QUALITY CONTROLS THAT OFFER YOU THESE EXCLUSIVE FEATURES

- METALLIZED ELEMENT — harder, smoother, moisture-proof, permanent.
- FIVE FINGER CONTACTOR—assures positive, more uniform contact.
- SILENT SPIRAL CONNECTOR—a positive connection between contactor and its terminal.
- STEEL COIL SPRING THRUST WASHER — eliminates shaft wobble and end-play.

16 POPULAR DS TYPES

With Fixed Shafts



These sixteen numbers have been the most frequently called for and are furnished with fixed shaft for convenient, easy use. Dimensions: $1\frac{1}{8}'' \times \frac{1}{12}''$.

Single Control—Without switch.....List \$1.25
Tapped Control—Without switch.....List \$1.85

Resistance Ohms	Tap	IRC Stock No.	Taper	Usual Application
10M	—	DS11-116	A	Antenna Grid Bias Control
10M	—	DS14-116	D	*Antenna Grid Bias of 2 Tubes
25M	—	DS14-120	D	*Grid Bias Control
50M	—	DS11-123	A	Potentiometer Voltage Divider
100M	—	DS11-128	A	Potentiometer Voltage Divider
100M	—	DS13-128	C	Tone or Audio Circuit Control
250M	—	DS11-130	A	Potentiometer Voltage Divider
250M	—	DS13-130	C	Tone or Audio Circuit Control
250M	125M	DS13-130X	Spec.	Audio Control with AVC Tap
250M	60M	DS18-130X	H	Audio Control with Tone Tap
500M	—	DS13-133	C	Tone or Audio Circuit Control
500M	125M	DS13-133X	H	Audio Control with Tone Tap
1.0 meg.	—	DS13-137	C	Tone or Audio Circuit Control
1.0 meg.	250M	DS13-137X	H	Audio Control with Tone Tap
2.0 meg.	—	DS13-139	C	Tone or Audio Circuit Control
2.0 meg.	500M	DS13-139X	H	Audio Control with Tone Tap

*Supplied with 270 ohm BW- $\frac{1}{4}$ ($\frac{1}{4}$ Watt) Insulated Wire Wound Resistor.

9 TYPE J CONTROLS FOR SPECIAL APPLICATIONS

For a wide variety of sets with specific requirements, you'll find these nine numbers extremely useful. To play safe your stock should include at least one of each.

8 DUAL CONTROLS



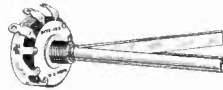
Eight popular Dual Controls are included in IRC's new Century Line. Here is a small but carefully selected group of "duals" that will speed many an important repair job! Standard No. 20 series switches can be attached. $1\frac{1}{4}'' \times 1\frac{1}{4}''$.

List Price \$3.10 each

IRC Stock No.	Unit	Resistance Ohms	Taper
35-1620	Panel	10,000	C
	Rear	25,000	E
61-1623	Panel	10,000	F
	Rear	50,000	A
33-2828	Panel	0.1 meg.	C
	Rear	0.1 meg.	C
33-3030	Panel	0.25 meg.	C
	Rear	0.25 meg.	C
33-3333	Panel	0.5 meg.	C
	Rear	0.5 meg.	C
33-3737	Panel	1.0 meg.	C
	Rear	1.0 meg.	C
33-3939	Panel	2.0 meg.	C
	Rear	2.0 meg.	C
31-4141	Panel	5.0 meg.	A
	Rear	5.0 meg.	A

8 CLUTCH-TYPE DC CONTROLS

With Tap-in Shafts



Practical for auto radio use and many other applications. Controls have friction clutch drive-arm and are equipped with a special shaft for use where either a slotted or tongued type shaft is required. Instructions tell how to cut shaft for either application. Switches cannot be used with friction clutch controls. Size same as Type D.

List Price \$1.85 each

IRC Stock No.	Resistance Ohms	Resistance to Tap
DC13-130	250M	—
DC18-130X	250M	Tap 50M
DC13-133	500M	—
DC13-133X	500M	Tap 125M
DC13-137	1.0 meg.	—
DC13-137X	1.0 meg.	Tap 250M
DC13-139	2.0 meg.	—
DC13-139X	2.0 meg.	Tap 500M

2 TYPE S SPECIAL POWER CONTROLS

With Tap-in Shafts

Designed for power requirements of plate circuit tone controls, Type S Controls should be used where the audio output exceeds 2 watts. $1\frac{1}{4}''$ in diameter, they employ the Tap-in Shaft feature. Use No. 20 series switches listed below.

List Price \$1.25 each

IRC Stock No.	Resistance Ohms	Taper
S11-128	0.1 meg.	A
S13-128	0.1 meg.	C

QUICKLY ATTACHED SWITCHES

	For D and DS Controls	For S and Dual Controls	List
SP., ST.	No. 41	No. 21	\$0.60
DP., ST.	No. 42	No. 22	0.75
SP., DT.	No. 43	No. 23	0.75
Three Point	—	No. 24	0.75
Four Point	No. 45	No. 25	0.75
SP., DT. at clockwise position.	—	No. 26	0.75
SP., ST. with dummy lug.	No. 47	No. 27	0.75

8 STANDARD TAPERS

A—Used as potentiometer or rheostat in any circuit where uniform resistance change is required.

B—A semi-logarithmic curve used as tone control or audio circuit control.

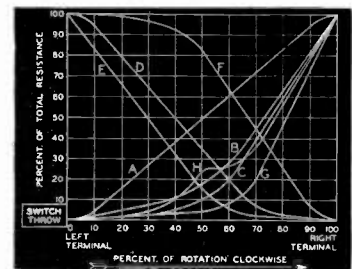
C—A logarithmic curve. Used as audio circuit control or antenna shunt control.

D—Tapered at both ends to provide control of grid bias and antenna circuit.

Used where control of grid bias is of prime importance in controlling volume.

E—Used as a rheostat in cathode circuit to control grid bias.

F—Tapered at both ends to provide control of grid bias and antenna circuit. Used where control of grid bias is essential in controlling volume. Generally used where the control changes the



grid bias of only one or two tubes. Must not be used with heavy currents.

G—A logarithmic curve with very gradual change in resistance from left terminal. Used as audio circuit control or antenna shunt control.

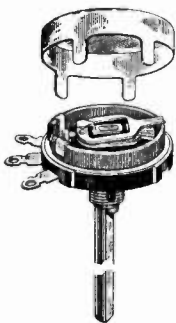
H—A tapped logarithmic curve used as audio level control for automatic bass compensation.

IRC

VOLUME CONTROLS

Preferred for Performance

TYPE W WIRE WOUND CONTROLS



A dependable wire wound control of uniform resistance change for power requirements up to 2 watts. Tight, uniform windings assure utmost accuracy. Spiral Spring Connector between rotor arm and center terminal eliminates noise. Diameter $1\frac{1}{4}$ " ; depth behind panel $\frac{9}{16}$ " ; shaft length $2\frac{1}{8}$ " from control face. Illustration shows cover removed, although covers are supplied with controls.

List without switch, \$1.25

IRC Control No.	Resistance Ohms	Max. Current (Amps.)	IRC Control No.	Resistance Ohms	Max. Current (Amps.)
W-2	2	1.000	W-100	100	.142
W-3	3	.815	W-200	200	.100
W-5	5	.630	W-300	300	.083
W-6	6	.560	W-400	400	.071
W-8	8	.500	W-500	500	.063
W-10	10	.450	W-750	750	.052
W-15	15	.370	W-1000	1000	.045
W-20	20	.320	W-2000	2000	.032
W-25	25	.285	W-3000	3000	.026
W-30	30	.260	W-4000	4000	.022
W-40	40	.225	W-5000	5000	.020
W-50	50	.200	W-7500	7500	.016
W-60	60	.183	W-10000	10000	.014
W-75	75	.164			

Television Focusing Controls

W20X10	20 ohms—center tap	List
W10X5	10 ohms—center tap	\$1.85

Type W Switches

No. 51—S. P., S. T.	List
No. 52—D. P., S. T.	\$0.60
No. 53—S. P., D. T.	.75
No. 54—Three Point	.75
No. 55—Four Point	.75
No. 56—S. P., D. T. at clockwse postion	.75
No. 57—S. P., S. T., with dummy lug	.75

Plain and Insulated Shaft Couplers

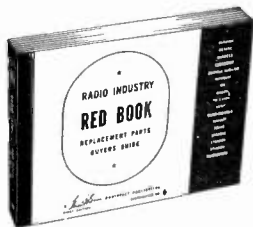
For use with standard controls to meet special shaft requirements. Two set screws give rigid connection.

TYPE C2—Insulated coupler for use with square type shaft used by Motorola. List \$0.30

TYPE C3—Plain coupler to couple $\frac{1}{4}$ " shafts; insert allows coupling of $\frac{1}{4}$ " shaft to $\frac{3}{8}$ " shaft. List \$0.30

INDUSTRY RED BOOK

IRC control replacements are fully listed in the new "Radio Industry Red Book of Replacement Parts." The correct IRC control replacement for any receiver manufactured from 1938 to 1948 is included. Installation notes are given where necessary.



9 IRC TYPE J CONTROLS FOR MANY SPECIAL REQUIREMENTS!

IRC sales records show that these 9 most popular special controls will handle nearly one-third of your requirements for exact duplicate controls. The group includes concentric duals, and special shaft units. For a more complete stock, carry at least one of each:

DJ-4—2.0 meg (tap 500M ohms)/1.0 meg. RCA: RC-351, A, B, C, D, E, F, M, R, RC-352, A, B, C, RC-386, B ch. Sears-Roebuck: 126.208 Ch. Westinghouse Elec. Supply: WR-264. List \$3.75

DJ-5—2.0 meg/1.0 meg. Zenith: 5637, 5803 Chassis (Dual Control). List \$3.75

J-15—32M ohms. Stewart-Warner: R-100A, B, E, (AC), 950 series (AC). List \$1.85

J-107—10M/50M ohms. General Electric: T-41. Graybar: GB-878. Pilot: K-117. RCA: R14, R15. RE17, 42 (Radiola), 48 (Radiola). Westinghouse Elec. & Mfg.: WR-4. List \$3.10

J-127—3800/3800 ohms. RCA: R32, RE45, R52, RE75, 145. List \$3.10

J-296—225M/5M ohms. Philco: 70, 70A below B22,000, 90, 90A (Two 45's), 270, 270A, 370, 470, 470A, 570. List \$3.10

J-777—350M ohms. Chrysler: C1423. Ford: T9, FT9, FT9X, F1440, F1442. Graham: G1418, G1435. Lincoln: L1420, L1424, L1425, L1427, L1429, L1460. Nash: T12-NT 12X, NT 12 X2, T15 NT 15, NT15N, N1418, N1433 H, N1434 H, N1514. Packard: P1417, P1517. Philco: 811 PA, PB, PV, 816, 817, 818, 821P, 821PV, 826, 827, 827K, 828, 828K. Reo: R1415. Studebaker: T12-ST12, T15-ST15, S1431, S1437, S1516. Willys Overland: W1419. List \$1.85

J-823—150M/250M ohms (Tap 125M ohms). General Elec: A-82, A-86, A-87. List \$3.10

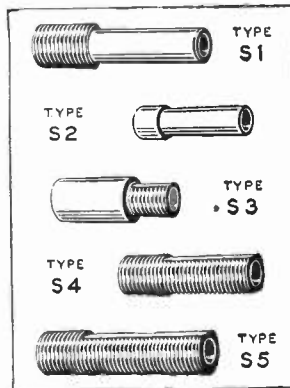
J-843—350M ohms (tap 75M ohms). Chrysler T10-CT10. T11-CT11, C1450, C1452. DeSoto: T10-CT10, T11-CT11. Dodge: T11-CT11. Hupmobile: HT11X. Lincoln: LT 14X3. Packard: T14-PT14. P1422, P1430, P1432 H, P1439. Pierce-Arrow: T14-MT14X4. Reo: T11-CT11, T14-R14X. List \$1.85

EXTENSION SHAFTS

These shafts attach to regular shafts, thus extending length to any needed size, and frequently make it possible to use standard controls for "special" jobs.

Shaft No. 441—4" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat	\$0.40
Shaft No. 442—4" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat	.40
Shaft No. 443—4" x $\frac{3}{8}$ " dia. x $\frac{3}{8}$ " flat	.40
Shaft No. 444—8" x $\frac{1}{4}$ " dia. x $\frac{3}{8}$ " flat for 4" length	.40

SLEEVE BUSHINGS



TYPE S1—For use with standard controls.

TYPE S2—To provide bearing for switching mechanism.

List S1 S2 \$0.45 \$0.30

TYPE S3—For use with standard controls to set control back from chassis or mounting bracket. $1\frac{1}{2}$ "— $\frac{1}{8}$ " dia. for 1" unthd— $\frac{9}{8}$ " dia. for $\frac{1}{2}$ " 32 thd— $3\frac{1}{4}$ flat. List \$0.60

TYPE S4—For use with standard controls to provide $\frac{3}{8}$ " dia. bushing. $1\frac{5}{8}$ "—thd $\frac{1}{8}$ "—28 full length—1.375 dbl flat. List \$0.60

TYPE S5—For use with standard controls to provide $\frac{1}{2}$ " dia. bushing. $2\frac{1}{4}$ "— $\frac{1}{2}$ "—28 full length—.437 flat. List \$0.60

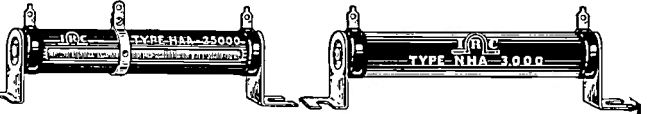
POWER RESISTORS

Preferred for Performance



"PREFERRED FOR PERFORMANCE"

Not only do these famous resistors excel electrically, but their "climate-proofed" cement coating provides the most dependable protection yet devised for resistors for heavy duty work. Both fixed and adjustable types are available. Mounting Brackets are packed with all resistors from 25 watts and up. One Adjustable Band is furnished with each adjustable resistor. The new Type X Band (described below) is included as standard on units of 25 watts and above. Extra bands supplied at prices indicated.



FIXED TYPES

10 WATTS Type AB 1 3/4" x 5/16" List \$0.58		20 WATTS Type DG (Continued) Max. Ohms m. a.		50 WATTS Type EP (Continued) Max. Ohms m. a.		100 WATTS Type HA 6 1/2" x 1 1/8" List \$2.03	
1	3150	150	365	3,000	120	25	2000
2	2210	200	316	4,000	105	50	1414
3	1830	250	282	5,000	95	75	1155
5	1420	300	258	6,000	85	100	1000
7.5	1150	350	238	7,000	78	150	815
10	1000	400	224	7,500	77	250	632
15	820	500	200	8,000	75	500	447
20	720	600	183	8,000	75	750	365
25	640	700	168	10,000	66	1,000	315
50	440	1,000	153	12,000	63	1,250	280
75	360	1,250	141	12,500	60	1,500	250
100	315	1,500	129	15,000	56	2,000	220
150	260	2,000	126	20,000	48	2,500	200
200	220	2,500	115	25,000	43	3,000	180
250	200	3,000	107	30,000	39	4,000	140
300	175	3,500	104	40,000	34	5,000	115
350	169	4,000	100	50,000	30	7,500	80
400	167	4,500	94	60,000	28	10,000	70
500	140	5,000	89	75,000	25	15,000	50
600	125	6,000	81	80,000	24	20,000	44
700	116	7,000	75	100,000	21	25,000	38
800	112	8,000	70	125,000	18	30,000	32
900	100	9,000	66	150,000	15	40,000	28
1,000	100	10,000	63	200,000	12	50,000	24
1,250	90	11,000	60	250,000	10	60,000	21
1,450	83	12,000	57	300,000	9	75,000	18
1,500	82	12,500	53	400,000	8	100,000	15
2,000	71	15,000	51	500,000	7	125,000	12
2,250	67	15,000	50	600,000	6	150,000	10
2,500	63	15,000	48	750,000	5	200,000	8
3,000	57	20,000	46	1,000,000	4	250,000	7
3,500	53	25,000	43	1,250,000	3	300,000	6
4,000	50	30,000	41	1,500,000	2	400,000	5
4,500	47	35,000	40	2,000,000	1	500,000	4
5,000	45	40,000	39	2,500,000	1	600,000	3
6,000	41	50,000	30	3,000,000	1	750,000	2
7,000	37	60,000	28	4,000,000	1	1,000,000	1
7,500	36	75,000	28	5,000,000	1	1,250,000	1
8,000	35	80,000	28	6,000,000	1	1,500,000	1
8,500	34	1,000,000	23	7,500,000	1	2,000,000	1
9,000	33	1,250,000	22	10,000,000	1	2,500,000	1
10,000	31	1,500,000	22	15,000,000	1	3,000,000	1
11,000	30	2,000,000	20	20,000,000	1	4,000,000	1
12,000	28	2,500,000	20	25,000,000	1	5,000,000	1
12,500	28	3,000,000	173	30,000,000	1	6,000,000	1
14,800	26	3,500,000	173	40,000,000	1	7,500,000	1
15,000	25	4,000,000	158	50,000,000	1	10,000,000	1
20,000	22	5,000,000	145	60,000,000	1	12,500,000	1
25,000	20	6,000,000	137	75,000,000	1	15,000,000	1
30,000	20	7,500,000	122	100,000,000	1	20,000,000	1
35,000	20	8,000,000	112	125,000,000	1	25,000,000	1
40,000	20	8,000,000	98	150,000,000	1	30,000,000	1
45,000	20	10,000,000	86	200,000,000	1	40,000,000	1
50,000	20	12,500,000	70	250,000,000	1	50,000,000	1
55,000	20	15,000,000	61	300,000,000	1	60,000,000	1
60,000	20	20,000,000	55	400,000,000	1	75,000,000	1
65,000	20	25,000,000	43	500,000,000	1	100,000,000	1
70,000	20	30,000,000	39	600,000,000	1	125,000,000	1
75,000	20	40,000,000	35	750,000,000	1	150,000,000	1
80,000	20	50,000,000	31	1,000,000,000	1	200,000,000	1
85,000	20	60,000,000	27	1,250,000,000	1	250,000,000	1
90,000	20	75,000,000	27	1,500,000,000	1	300,000,000	1
95,000	20	100,000,000	27	2,000,000,000	1	400,000,000	1
100,000	20	125,000,000	27	2,500,000,000	1	500,000,000	1
110,000	20	150,000,000	27	3,000,000,000	1	600,000,000	1
120,000	20	200,000,000	27	4,000,000,000	1	750,000,000	1
130,000	20	250,000,000	27	5,000,000,000	1	1,000,000,000	1
140,000	20	300,000,000	27	6,000,000,000	1	1,250,000,000	1
150,000	20	400,000,000	27	7,500,000,000	1	1,500,000,000	1
200,000	20	500,000,000	27	10,000,000,000	1	2,000,000,000	1
250,000	20	600,000,000	27	12,500,000,000	1	2,500,000,000	1
300,000	20	750,000,000	27	15,000,000,000	1	3,000,000,000	1
350,000	20	1,000,000,000	27	20,000,000,000	1	4,000,000,000	1
400,000	20	1,250,000,000	27	25,000,000,000	1	5,000,000,000	1
450,000	20	1,500,000,000	27	30,000,000,000	1	6,000,000,000	1
500,000	20	2,000,000,000	27	40,000,000,000	1	7,500,000,000	1
550,000	20	2,500,000,000	27	50,000,000,000	1	10,000,000,000	1
600,000	20	3,000,000,000	27	60,000,000,000	1	12,500,000,000	1
650,000	20	4,000,000,000	27	75,000,000,000	1	15,000,000,000	1
700,000	20	5,000,000,000	27	100,000,000,000	1	20,000,000,000	1
750,000	20	6,000,000,000	27	125,000,000,000	1	25,000,000,000	1
800,000	20	7,500,000,000	27	150,000,000,000	1	30,000,000,000	1
850,000	20	10,000,000,000	27	200,000,000,000	1	40,000,000,000	1
900,000	20	12,500,000,000	27	250,000,000,000	1	50,000,000,000	1
950,000	20	15,000,000,000	27	300,000,000,000	1	60,000,000,000	1
1,000,000	20	20,000,000,000	27	400,000,000,000	1	75,000,000,000	1
1,100,000	20	25,000,000,000	27	500,000,000,000	1	100,000,000,000	1
1,200,000	20	30,000,000,000	27	600,000,000,000	1	125,000,000,000	1
1,300,000	20	40,000,000,000	27	750,000,000,000	1	150,000,000,000	1
1,400,000	20	50,000,000,000	27	1,000,000,000,000	1	200,000,000,000	1
1,500,000	20	60,000,000,000	27	1,250,000,000,000	1	250,000,000,000	1
1,600,000	20	75,000,000,000	27	1,500,000,000,000	1	300,000,000,000	1
1,700,000	20	100,000,000,000	27	2,000,000,000,000	1	400,000,000,000	1
1,800,000	20	125,000,000,000	27	2,500,000,000,000	1	500,000,000,000	1
1,900,000	20	150,000,000,000	27	3,000,000,000,000	1	600,000,000,000	1
2,000,000	20	200,000,000,000	27	4,000,000,000,000	1	750,000,000,000	1
2,100,000	20	250,000,000,000	27	5,000,000,000,000	1	1,000,000,000,000	1
2,200,000	20	300,000,000,000	27	6,000,000,000,000	1	1,250,000,000,000	1
2,300,000	20	400,000,000,000	27	7,500,000,000,000	1	1,500,000,000,000	1
2,400,000	20	500,000,000,000	27	10,000,000,000,000	1	2,000,000,000,000	1
2,500,000	20	600,000,000,000	27	12,500,000,000,000	1	2,500,000,000,000	1
2,600,000	20	750,000,000,000	27	15,000,000,000,000	1	3,000,000,000,000	1
2,700,000	20	1,000,000,000,000	27	20,000,000,000,000	1	4,000,000,000,000	1
2,800,000	20	1,250,000,000,000	27	25,000,000,000,000	1	5,000,000,000,000	1
2,900,000	20	1,500,000,000,000	27	30,000,000,000,000	1	6,000,000,000,000	1
3,000,000	20	2,000,000,000,000	27	40,000,000,000,000	1	7,500,000,000,000	1
3,100,000	20	2,500,000,000,000	27	50,000,000,000,000	1	10,000,000,000,000	1
3,200,000	20	3,000,000,000,000	27	60,000,000,000,000	1	12,500,000,000,000	1
3,300,000	20	4,000,000,000,000	27	75,000,000,000,000	1	15,000,000,000,000	1
3,400,000	20	5,000,000,000,000	27	100,000,000,000,000	1	20,000,000,000,000	1
3,500,000	20	6,000,000,000,000	27	125,000,000,000,000	1	25,000,000,000,000	1
3,600,000	20	7,500,000,000,000	27	150,000,000,000,000	1	30,000,000,000,000	1
3,700,000	20	10,000,000,000,000	27	200,000,000,000,000	1	40,000,000,000,000	1
3,800,000	20	12,500,000,000,000	27	250,000,000,000,000	1	50,000,000,000,000	1
3,900,000	20	15,000,000,000,000	27	300,000,000,000,000	1	60,000,000,000,000	1
4,000,000	20	20,000,000,000,000	27	400,000,000,000,000	1	75,000,000,000,000	1
4,100,000	20	25,000,000,000,000	27	500,000,000,000,000	1	100,000,000,000,000	1
4,200,000	20	30,000,000,000,000	27	600,000,000,000,000	1	125,000,000,000,000	1
4,300,000	20	40,000,000,000,000	27	750,000,000,000,000	1	150,000,000,000,000	1
4,400,000	20	50,000,000,000,000	27	1,000,000,000,000,000	1	200,000,000,000,000	1
4,500,000	20	60,000,000,000,000	27	1,250,000,000,000,000	1	250,000,000,000,000	1
4,600,000	20	75,000,000,000,000	27	1,500,000,000,000,000	1	300,000,000,000,000	1
4,700,000	20	100,000,000,000,000	27	2,000,000,000,000,000	1	400,000,000,000,000	1
4,800,000	20	125,000,000,000,000	27	2,500,000,000,000,000	1	500,000,000,000,000	1
4,900,000	20	150,000,000,000,000	27	3,000,000,000,000,000	1	600,000,000,000,000	1
5,000,000	20	200,000,000,000,000	27	4,000,000,000,000,000	1	750,000,000,000,000	1
5,100,000							



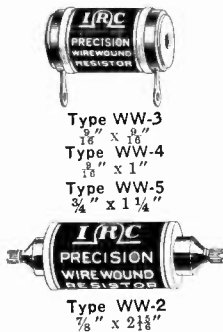
RESISTORS

Preferred for Performance

PRECISION Wire Wound RESISTORS

IRC Precision Wire Wound Resistors are scientifically designed and constructed of highest quality materials to combine the utmost in accuracy with dependability. Winding forms are of a non-hygroscopic ceramic having high insulation qualities, high mechanical strength and low-coefficient of expansion. Because of the special sectional construction which permits the winding of adjacent sections in opposite directions, a noninductive winding is made possible. Minimum temperature coefficient of .002% per degree C. now available on all IRC Precisions at no extra cost.

These units are used by the leading instrument manufacturers for dependable precision meter multipliers and shunts, decade boxes and calibrated gain controls. 1% accuracy is standard. Closer tolerances available at slightly higher prices as follows: and for 1/2% tolerance, add 10%; for 1/4% accuracy, add 15%; and for 1/10 of 1%, add 25% to list prices. Tolerances of 1/10 of 1% are measured to new International Ohm, and so indicated on label.



Type WW-3
3/8" x 3/8"

Type WW-4
1/8" x 1"

Type WW-5
3/4" x 1 1/4"

Type WW-2
7/8" x 2 1/8"

TYPES WW3, WW4, WW5

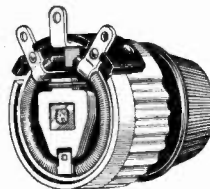
	List Price
0.1, 0.2 and 1. ohm	\$1.75
10, 25, 50, 100, 200, 250, 300, 500, 1,000, 1,500, 2,000 and 2,500 ohms	1.70
4,000, 5,000, 7,500, 10,000, 12,500 and 15,000 ohms	1.75
20,000, 22,500, 25,000, 30,000, 40,000 and 50,000 ohms	1.90
60,000 and 75,000 ohms	2.25
0.1 megohm	2.45
0.125 and 0.15 megohms	2.80
0.175 and 0.2 megohms	3.20
0.225 and 0.25 megohms	3.50
0.3 megohms	3.80
0.4 megohms	4.70
0.5 megohms	5.00
0.6 megohms	6.35
0.75 megohms	7.50
0.9 megohms	8.65
1.0 megohms	9.35

Note—Minimum stock range: WW3—1 ohm WW5—0.6 megohms.
Maximum stock range: WW3—0.15 megohms;
WW4—0.5 megohms.

TYPE WW2

	List Price
0.6 megohms	\$ 7.00
0.75 megohms	7.65
0.9 megohms	9.00
1.0 megohms	9.65
1.5 megohms	15.35
2.0 megohms	20.00
2.5 megohms	24.20

ALL-METAL RHEOSTATS



PR-25 (25 Watts)
1 1/4" diam. Depth
behind panel, 3/4"

PR-50 (50 Watts)
2 3/8" diam. Depth
behind panel, 1 3/8"

Operating temperatures are cut almost in half by the unique, all-metal aluminum construction of these new IRC Rheostats. They dissipate heat more rapidly—give ample safety factor. Ratings based on hottest spot temp. rise of only 140 degrees C. with max. load distributed over entire element. With full load applied to as little as 25% of element, rise is only 160 degrees C. Exclusive IRC Spiral Connector gives positive contact between rotor arm and center terminal.

PR-25—25 Watts

Ohms	Max. m.a.	List Price
1	5,000	\$5.85
2	3,450	5.20
3	2,880	5.20
6	2,040	5.20
8	1,770	5.20
10	1,580	5.20
15	1,290	5.20
25	1,000	5.20
35	845	5.20
50	709	5.20
75	575	5.20
100	500	5.20
125	445	5.20
175	375	5.20
250	315	5.20
350	267	5.20
500	222	5.20
750	173	5.20
1,000	155	5.85
1,500	129	5.85
2,500	100	5.85
3,500	84	6.18
5,000	70	6.18

PR-50—50 Watts

Ohms	Max. m.a.	List Price
0.5	10,000	\$6.50
1	7,070	6.50
2	5,000	5.85
4	3,520	5.85
6	2,880	5.85
8	2,500	5.85
12	2,040	5.85
16	1,770	5.85
22	1,500	5.85
35	1,190	5.85
50	1,000	5.85
80	790	5.85
125	630	5.85
150	575	5.85
225	470	5.85
300	407	5.85
500	315	5.85
800	250	6.18
1,000	223	6.18
1,800	177	6.18
2,500	140	6.18
3,500	120	6.50
5,000	100	6.50
8,000	79	6.50
10,000	70	6.50

Type NAB Parasitic Suppressors

IRC Type NAB Non-Inductive Wire Wound Resistors are designed for use, one in each grid of audio driver or power amplifier tubes when paralleled, to prevent parasitic oscillations. 10 watts.



Type NAB—50 ohms.
List \$1.20 each

Bleeder Resistor

Type M-1034—25,000 ohms, overall resistance, tapped at 7,500, 10,000, 12,500 and 15,000 ohms. 18 watts rating attached flat to chassis, 9 watts free air rating. Used as bleeder in any power supply up to 500 volts. Sealed in bakelite and insulated for 1,000 volts to ground. Bracket supplied.



M-1034—IRC Bleeder Resistor..... List \$1.25 each

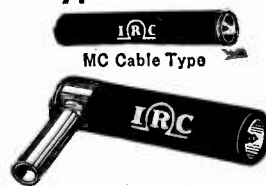
Center Tap Insulated Wire Wounds

Completely enclosed in molded bakelite and capable of standing high temperatures. Due to high power rating, these resistors may be used in balancing circuits for radio receivers or transmitters. They will carry up to five watts if mounted on chassis, using the detachable mounting bracket and heat-dissipating metal strip; or two and one-half watts if mounted in open air. May be mounted anywhere without danger to units from heat or grounding. Dimensions: Length of molded unit 2". With bracket mounting centers 2 1/2". Six standard ranges: 10 ohms, 0 ohms, 50 ohms, 75 ohms, 100 ohms and 200 ohms.



Type MW-2J—Center Tap Resistors..... List 35c each

Type MC and MCB Suppressors



MC Cable Type

MCB Elbow Type

IRC Suppressors are designed for the elimination of ignition noise in automobile and motorboat radio installations—and oil burner interference in home receivers.

Either Type List 30c

Printed in U.S.A.

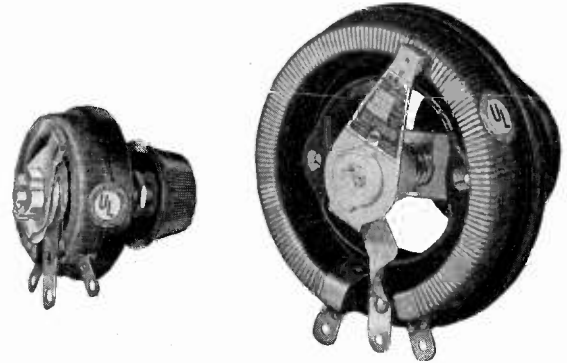
BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

OHMITE RHEOSTATS

All-Porcelain — Vitreous-Enameled

The design and construction of these sturdy, compact Ohmite Rheostats insure permanently smooth, gradual, close control. The wire is wound over a porcelain core, bonded to porcelain base, and permanently locked in place by special Ohmite Vitreous Enamel. Nothing to smoke, char, shrink, or shift. Dissipates heat rapidly. Insulated shafts and bushings. Copper graphite contacts. Ratings are for "free air" use. Time-proved through long trouble-free service in countless installations the world over. Underwriters' Laboratories Listed.



MODEL "H" 25 Watt
Diameter 1 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0140	1	5,000	\$5.85	0152	125	445	\$5.20
0141	2	3,540	5.20	0153	175	375	5.20
0142	3	2,880	5.20	0154	250	316	5.20
0143	6	2,040	5.20	0155	350	267	5.20
0144	8	1,770	5.20	0156	500	222	5.20
0145	10	1,580	5.20	0157	750	182	5.20
0146	15	1,290	5.20	0158	1,000	155	5.85
0147	25	1,000	5.20	0159	1,500	129	5.85
0148	35	845	5.20	0160	2,500	100	5.85
0149	50	707	5.20	0161	3,500	84	6.18
0150	75	575	5.20	0162	5,000	70	6.18
0151	100	500	5.20				

MODEL "J" 50 Watt
Diameter 2 1/8". Depth behind panel 1 3/8"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0308	0.5	10,000	\$6.50	0321	150	575	\$5.85
0309	1	7,070	6.50	0322	225	470	5.85
0310	2	5,000	6.50	0323	300	408	5.85
0311	4	3,530	5.85	0324	500	316	5.85
0312	6	2,880	5.85	0325	800	250	6.18
0313	8	2,500	5.85	0326	1,000	221	6.18
0314	12	2,040	5.85	0327	1,600	176	6.18
0315	16	1,760	5.85	0328	2,500	141	6.18
0316	22	1,500	5.85	0329	3,500	119	6.50
0317	35	1,190	5.85	0330	5,000	100	6.50
0318	50	1,000	5.85	0331	8,000	79	6.50
0319	80	790	5.85	0332	10,000	70	6.50
0320	125	630	5.85				

DIRECTION INDICATOR POTENTIOMETER—MODEL RB-2



A compact, low cost unit which is used in a simple 6 volt potentiometer circuit as a transmitting element, to indicate, remotely the position of a rotary beam antenna, or other device. The indicating meter can be any ordinary 0-1 M.A., 0-1.5 M.A. or 0-2 M.A. direct current milliammeter (with marked scale). The potentiometer is 2-5/16" in diameter and extends 1 3/8" behind the mounting surface. Single hole mounted by means of a 3/8-32 threaded bushing. Complete 360° rotation.

Stock No. RB-2, Potentiometer

List Price\$8.13

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

MODEL "K" 100 Watt
Diameter 3 1/8". Depth behind panel 1 3/4"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0440	0.5	14,100	\$9.75	0452	200	707	\$9.10
0441	1	10,000	9.75	0453	300	575	9.10
0442	2	7,070	9.75	0454	400	500	9.10
0443	3	5,750	9.75	0455	500	447	9.10
0444	5	4,470	9.75	0456	750	365	9.10
0445	7.5	3,650	9.10	0457	1,000	316	9.75
0446	10	3,160	9.10	0458	1,500	258	9.75
0447	16	2,500	9.10	0459	2,000	224	9.75
0448	25	2,000	9.10	0460	2,500	200	9.75
0449	50	1,410	9.10	0461	5,000	141	10.40
0450	75	1,150	9.10	0462	7,500	115	11.05
0451	100	1,000	9.10	0463	10,000	100	11.70

MODEL "L" 150 Watt
Diameter 4". Depth behind panel 2"

Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0524	0.5	17,300	\$12.35	0537	150	1,000	\$11.70
0525	1	12,300	12.35	0538	200	865	11.70
0526	2	8,650	12.35	0539	250	775	11.70
0527	3	7,070	12.35	0540	350	655	11.70
0528	5	5,480	12.35	0541	500	548	11.70
0529	7.5	4,470	12.35	0542	750	447	12.35
0530	10	3,880	11.70	0543	1,250	346	12.35
0531	15	3,163	11.70	0544	1,800	288	13.00
0532	25	2,450	11.70	0545	2,250	259	13.00
0533	35	2,070	11.70	0546	3,000	224	13.00
0534	50	1,735	11.70	0547	4,500	182	13.65
0535	75	1,415	11.70	0548	7,500	141	14.30
0536	100	1,225	11.70	0549	10,000	122	15.60

MODEL "N" 300 Watt
Diameter 6". Depth behind panel 2 3/8"

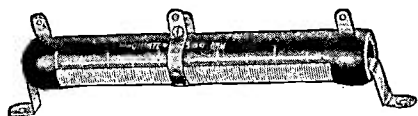
Stock No.	Ohms	Max. Mils.	List Price	Stock No.	Ohms	Max. Mils.	List Price
0650	1	17,320	\$17.55	0661	100	1,730	\$17.55
0651	2	12,240	17.55	0662	150	1,410	17.55
0652	3	10,000	17.55	0663	200	1,220	17.55
0653	4	8,660	17.55	0664	300	1,000	17.55
0654	5	7,750	17.55	0665	400	866	17.55
0655	7.5	6,320	17.55	0666	700	655	17.55
0656	10	5,480	17.55	0667	900	578	17.55
0657	15	4,470	17.55	0668	1,200	500	17.55
0658	25	3,460	17.55	0669	1,500	447	17.55
0659	50	2,450	17.55	0670	1,750	414	17.55
0660	75	2,000	17.55	0671	2,500	346	17.55

OTHER OHMITE RHEOSTATS

Ohmite Rheostats are also available in Model G, 75 Watt; Model P, 225 Watt; Model R, 500 Watt; Model T, 750 Watt; and Model U, 1,000 Watt units, in many resistance values. Special Rheostats with tapered windings, etc., can be supplied; also Special Rheostats for Model Train Control. Cages and other accessories also available.

OHMITE DIVIDOHM RESISTORS

OHMITE FIXED RESISTORS



All-Porcelain
Vitreous-Enameled



You can adjust the resistance or secure odd resistance values quickly with these Dividohms; easily put on more taps where needed. Ideal voltage dividers. With one adjustable lug and with mounting brackets.

Extra-sturdy, wire-wound, all-porcelain resistors with the permanent protection of Ohmite Vitreous Enamel. Widely used for heavy duty applications to assure continuous trouble-free service. With mounting brackets.

10 WATTS					
Core Size 1 3/4" x 3/8"			Mounting Centers 2 1/4"		
Adjustable Res.			Adjustable Res.		
Res. Ohms	Max. Mils.	Stock No.	Res. Ohms	Max. Mils.	Stock No.
1	3,150	1001	750	115	1021
2	2,235	1002	800	111	1022
3	1,825	1003	1,000	100	1023
5	1,415	1004	1,250	89	1024
7.5	1,155	1005	1,500	79	1025
10	1,000	1006	2,000	69	1026
15	816	1007	2,250	64	1027
20	707	1008	2,500	63	1028
25	632	1009	3,000	56	1029
50	447	1010	3,500	51	1030
75	365	1011	4,000	47	1031
100	316	1012	4,500	45	1032
150	258	1013	5,000	43	1033
200	223	1014	6,000	38	1034
250	200	1015	7,000	34	1035
300	182	1016	7,500	33	1036
350	169	1017	8,000	31	1037
400	158	1018	8,500	29	1038
500	141	1019	9,000	28	1039
600	129	1020	10,000	26	1040

List Price, 1 to 1000 ohms \$1.20
List Price, 1,250 to 5,000 ohms 1.25
List Price, 6,000 to 10,000 ohms 1.33

25 WATTS					
Core Size 2" x 3/8"			Mounting Centers 2 1/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
1	5,000	0200J	\$0.80	0360	\$1.56
2	3,535	0200K	.80	0360B	1.56
3	2,885	0200L	.80	0361	1.56
5	2,235	0200A	.80	0362	1.56
7.5	1,825			0362B	1.56
10	1,580	0200B	.80	0363	1.56
15	1,290	0200R	.80	0364	1.56
20	1,117			0364B	1.56
25	1,000	0200C	.80	0365	1.56
50	707	0200D	.80	0366	1.56
75	577	0200E	.80	0367	1.56
100	500	0200F	.80	0368	1.56
150	408	0200G	.80	0369	1.56
200	353	0200H	.80	0370	1.56
250	316	0201	.80	0371	1.56
300	288			0371B	1.56
400	250			0371C	1.56
500	223	0202	.80	0372	1.56
750	182	0203	.80	0373	1.56
800	176	0204	.80	0374	1.56
1,000	158	0205	.80	0375	1.56
1,250	141			0375B	1.58
1,500	129	0206	.86	0376	1.58
2,000	111	0207	.86	0377	1.58
2,250	105			0377B	1.58
2,500	100	0208	.86	0378	1.58
3,000	91	0209	.86	0379	1.58
3,500	84	0210	.86	0380	1.58
4,000	79	0211	.86	0381	1.58
4,500	74			0381B	1.58
5,000	70	0212	.86	0382	1.58
6,000	64	0213	.94	0383	1.70
7,000	60			0383B	1.70
7,200	59			0383C	1.70
7,500	57	0214	.94	0384	1.70
8,000	55			0384B	1.70
9,000	52			0384C	1.70
10,000	50	0215	.94	0385	1.70
12,000	42	0216	1.00	0386	1.75
15,000	34	0217	1.00	0387	1.75
20,000	26	0218	1.00	0388	1.75
25,000	21	0219	1.13	0389	1.89
40,000	14	0222	1.13		
50,000	12	0224	1.30		
100,000	7	0229	1.74		

50 WATTS					
Core Size 4" x 3/8"			Mounting Centers 4 1/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	3,160	0400A	\$1.37	0560	\$1.97
10	2,235	0400B	1.37	0561	1.97
25	1,414	0400C	1.37	0562	1.97
50	1,000	0400D	1.37	0563	1.97
75	816	0400E	1.37	0564	1.97
100	707	0400F	1.37	0565	1.97
150	577	0400G	1.37	0566	1.97
200	500	0400H	1.37	0567	1.97
250	447	0401	1.37	0568	1.57
300	408			0568B	1.97
400	353			0568C	1.97
500	316	0402	1.37	0569	1.97
750	258	0403	1.37	0570	1.97
1,000	223	0405	1.37	0572	1.97
1,250	200			0572B	2.05
1,500	182	0406	1.45	0573	2.05
2,000	158	0407	1.45	0574	2.05
2,500	141	0408	1.45	0575	2.05
3,000	129	0409	1.45	0576	2.05
3,500	119			0576B	2.05
4,000	111	0410	1.45	0577	2.05
4,500	105			0577B	2.05
5,000	100	0411	1.45	0578	2.05
6,000	91			0578B	2.19
7,000	84			0578C	2.19
7,500	81	0412	1.58	0579	2.19
8,000	79	0413	1.58	0580	2.19
9,000	74			0580B	2.19
10,000	70	0414	1.58	0581	2.19
12,000	64	0415	1.75	0582	2.36
15,000	57	0416	1.75	0583	2.36
20,000	48	0417	1.75	0584	2.36
25,000	41	0418	1.95	0585	2.55
30,000	36			0586	2.55
35,000	32	0419	1.95		
40,000	28			0587	2.55
50,000	23	0420	2.14	0588	2.75
60,000	19			0589	2.75
75,000	16	0421	2.45		
80,000	15			0590	3.06
100,000	12	0422	2.65	0591	3.25

75 WATTS					
Core Size 6" x 3/8"			Mounting Centers 6 1/4"		
Res. Ohms	Max. Mils.	Adjustable Res.		Adjustable Res.	
		Stock No.	List Price	Stock No.	List Price
5	3,870	0769	5,000	122	0783
10	2,735	0770	6,000	111	0783B
15	2,236	0771	7,000	103	0783C
25	1,732	0772	7,500	100	0784
50	1,224	0773	8,000	96	0784B
100	866	0774	9,000	91	0784C
200	612	0774B	10,000	86	0785
250	547	0775	12,000	79	0785B
300	500	0775B	15,000	70	0786
400	433	0775C	20,000	61	0787
500	387	0776	25,000	49	0788
750	316	0777	30,000	42	0789
1,000	273	0778	35,000	36	0790
1,250	245	0778B	40,000	32	0791
1,500	223	0779	45,000	29	0792
2,000	193	0780	50,000	26	0793
2,500	173	0781	60,000	22	0794
3,000	158	0781B	80,000	17	0795
3,500	146	0782	100,000	13	0796
4,000	136	0782B			

List Price, 5 to 1,000 ohms \$2.27
List Price, 1,250 to 5,000 ohms 2.36
List Price, 6,000 to 10,000 ohms 2.50
List Price, 12,000 to 20,000 ohms 2.65
List Price, 25,000 to 40,000 ohms 2.92
List Price, 45,000 to 60,000 ohms 3.00
List Price, 80,000 ohms 3.28
List Price, 100,000 ohms 3.61

100 WATTS					
Core Size 6 1/2" x 3/4"			Mounting Centers 7 3/4"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	4,470	0600A	\$2.03	0956	\$2.97
10	3,160	0600B	2.03	0957	2.97
25	2,000	0601	2.03	0958	2.97
50	1,414	0602	2.03	0959	2.97
75	1,153	0603	2.03		
100	1,000	0604	2.03	0960	2.97
150	816	0605	2.03		
250	632	0606	2.03	0960B	2.97
500	447	0607	2.03	0961	2.97
750	365	0608	2.03		
1,000	316	0609	2.03	0962	2.97
1,500	258	0610	2.08	0962B	3.05
2,000	223	0611	2.08		
2,500	200	0612	2.08	0963	3.05
3,000	182	0613	2.08		
5,000	141	0614	2.08	0964	3.05
7,500	115	0615	2.25		
10,000	100	0616	2.25	0965	3.22
15,000	81	0617	2.47	0966	3.42
20,000	70	0618	2.47	0967	3.42
25,000	53	0619	2.67	0968	3.64
30,000	47	0620	2.67	0969	3.64
40,000	36	0621	2.67	0970	3.64
50,000	29	0622	2.81	0971	3.78
60,000	24	0623	2.81		
75,000	19	0624	3.00	0972	3.97
100,000	15	0625	3.17	0973	4.13

Ohms	Fixed Res.		Adj. Res.	
	List Price	List Price	List Price	List Price
5	\$3.47		\$4.45	
10 to 1,000	2.48		3.45	
1,500 to 5,000	2.53		3.50	
7,500 & 10,000	2.75		3.70	
15,000 & 20,000	2.95		3.92	
20,000 to 40,000	3.03		4.00	
50,000 & 60,000	3.13		4.12	
75,000	3.36		4.30	
100,000	3.55		4.53	

200 WATTS					
Core Size 10 1/2" x 1 1/8"			Mounting Centers 11 1/8"		
Res. Ohms	Max. Mils.	Fixed Resist.		Adj. Resist.	
		Stock No.	List Price	Stock No.	List Price
5	6,320	0900A	\$3.75	1356	\$4.72
10	4,470	0900B	2.70	1357	3.64
25	2,828	0901	2.70	1358	3.64
50	2,000	0902	2.70	1359	3.64
75	1,635	0903	2.70		
100	1,414	0904	2.70	1360	3.64
150	1,153	0905	2.70		
250	894	0906	2.70	1360B	3.61
500	632	0907	2.70	1361	3.64
750	516	0908	2.70		
1,000	447	0909	2.70	1362	3.64
1,500	365	0910	2.75	1362B	3.70
2,000	316	0911	2.75		
2,500	283	0912	2.75	1363	3.70
3,000	258	0913	2.75		
5,000	200	0914	2.75	1364	3.70
7,500	163	0915	2.95		
10,000	141	0916	2.95	1365	3.92
15,000	115	0917	3.13	1366	4.12
20,000	100	0918	3.13	1367	4.12
25,000	80	0919	3.25	1368	4.20
30,000	51	0920	3.25	1369	4.20
40,000	41	0			

RHEOSTATS • RESISTORS • TAP SWITCHES

Popular OHMITE "BROWN DEVIL" RESISTORS



5 Watt—1" x 5/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	2,236	125	200	1,250	63
1.5	1,820	150	182	1,500	57
2	1,580	200	158	1,750	53
3	1,290	225	149	2,000	49
4	1,120	250	141	2,250	46
5	1,000	300	129	2,500	44
7.5	818	350	120	3,000	39
10	707	400	112	3,500	36
12	645	450	105	4,000	33
15	575	500	100	4,500	31
20	500	600	91	5,000	29
25	447	700	84	6,000	26
30	408	750	81	7,000	24
35	378	800	79	7,500	22
40	353	900	74	8,000	21
50	316	1,000	70	9,000	19
75	258	1,100	67	10,000	18
100	224	1,200	64		

List Price, 1 to 1,000 ohms \$0.53
 List Price, 1,100 to 5,000 ohms57
 List Price, 6,000 to 10,000 ohms61

10 Watt—1 3/4" x 5/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
1	3,160	350	169	6,000	38
2	2,235	400	158	7,000	34
3	1,825	450	149	7,500	32
4	1,580	500	141	8,000	31
5	1,414	600	129	8,500	29
7.5	1,155	700	119	10,000	26
10	1,000	750	115	11,000	24
12	910	800	111	12,000	23
15	816	900	105	12,500	22
20	707	1,000	100	13,500	21
25	632	1,100	95	14,300	20
30	575	1,200	91	15,000	19
35	535	1,250	89	16,000	18
40	500	1,500	79	17,500	17
50	447	1,750	74	18,000	17
75	365	2,000	69	20,000	16
100	316	2,250	64	22,500	15
125	283	2,500	63	25,000	14
150	258	3,000	56	*30,000	8
200	223	3,500	51	*35,000	7
225	217	4,000	47	*40,000	7
250	200	4,500	45	*45,000	6
300	182	5,000	43	*50,000	6

List Price, 1 to 1,000 ohms \$0.58
 List Price, 1,100 to 5,000 ohms63
 List Price, 6,000 to 10,000 ohms72
 List Price, 11,000 to 20,000 ohms80
 List Price, 22,500 & 25,000 ohms86
 List Price, 30,000 to 50,000 ohms97

*The units marked with an asterisk are coated with a low temperature enamel.

RITEOHM SERIES "84" PRECISION RESISTORS

Ohms	Max. Voltage	Ohms	Max. Voltage	Ohms	Max. Voltage
*0.1	.316	4,000	44.70	.125 Meg.	200
0.5	.500	5,000	50.00	.150 Meg.	200
1	.707	7,500	61.20	.175 Meg.	200
10	2.24	10,000	70.70	.200 Meg.	200
25	3.54	12,500	79.00	*.225 Meg.	400
50	5.00	15,000	86.60	*.250 Meg.	400
100	7.07	20,000	100	*.300 Meg.	400
200	10.00	22,560	106	*.400 Meg.	400
250	11.20	25,000	112	†.500 Meg.	400
300	12.20	30,000	122	†.600 Meg.	400
500	15.80	40,000	141	†.750 Meg.	400
1000	22.40	50,000	158	†.900 Meg.	400
1500	27.40	60,000	173	†1.0 Meg.	400
2000	31.60	75,000	194	†1.5 Meg.	400
2500	35.40	1 Meg.	200		

*Type 844-A 4 Pie—1 Watt Size 3/8" x 1 3/8"
 †Type 844-B 4 Pie—1 Watt Size 3/4" x 1 3/8"
 All others Type 842-A 2 Pie—1/2 Watt Size 3/8" x 3/8"

High quality, small size, wire-wound resistors ideal for voltage dropping, bias units, bleeders, etc. They're extra-sturdy, all-ceramic, vitreous enameled. They give time-proved protection against shock, vibration, heat and humidity. Their long record of continuous trouble-free service—their wide use in all climates of the world—prove their complete reliability and economy. All units can be conveniently mounted by means of their 1 1/2" tinned wire leads. The standard resistance tolerance is ±10%.

The all-welded construction of the 5 watt unit makes it possible to extend the resistance range to 10,000 ohms, an unusually high value for a vitreous enameled stock unit.

20 Watt—2" x 7/16" Core Size

Ohms	Mils.	Ohms	Mils.	Ohms	Mils.
5	2,000	1,250	126	15,000	30
10	1,414	1,500	115	20,000	24
25	894	1,750	107	25,000	20
50	632	1,850	104	30,000	17
75	516	2,000	100	35,000	15
100	447	2,250	94	40,000	14
150	365	2,400	91	45,000	13
200	316	2,500	89	50,000	12
250	283	2,750	85	*55,000	8.0
300	258	3,000	81	*60,000	8.0
350	239	3,500	75	*65,000	7.0
400	223	4,000	70	*70,000	7.0
500	200	4,500	66	*75,000	7.0
650	175	5,000	63	*80,000	7.0
700	169	6,000	57	*85,000	6.0
750	163	7,000	53	*90,000	6.0
800	158	7,500	51	*95,000	6.0
850	153	8,000	50	*100,000	6.0
1,000	141	10,000	43		
1,200	129	12,500	35		

List Price, 5 to 1,000 ohms \$0.75
 List Price, 1,200 to 5,000 ohms78
 List Price, 6,000 to 10,000 ohms88
 List Price, 12,500 to 20,000 ohms94
 List Price, 25,000 to 40,000 ohms 1.08
 List Price, 45,000 to 60,000 ohms 1.25
 List Price, 65,000 to 80,000 ohms 1.46
 List Price, 85,000 to 100,000 ohms 1.69

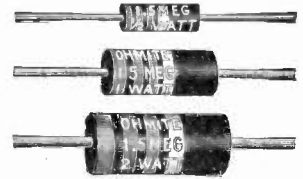


High quality, 1% tolerance, 1 watt, non-inductive, pie-wound units for meter multipliers, lab. equipment, etc.

Ohms	List Price	Ohms	List Price
0.1 to 500	\$1.11	.225 to .25 Meg.	\$3.38
1,000 to 2,500	1.17	.3 megohm	3.71
4,000 to 10,000	1.30	.4 megohm	3.90
12,500 to 15,000	1.43	.5 megohm	4.42
20,000 to 50,000	1.76	.6 megohm	5.53
60,000 to 75,000	2.08	.75 megohm	5.85
.1 megohm	2.41	.9 megohm	6.18
.125 megohm	2.73	1.0 megohm	6.83
15 to .2 megohm	3.06	1.5 megohm	9.75

Complete Listings in Bulletin 126

OHMITE "LITTLE DEVIL" RESISTORS



Ohmite "LITTLE DEVILS" are full 1/2 Watt, 1 Watt and 2 Watt Insulated Composition Resistors and can be used at their full wattage ratings at 70° C. (158° F.) ambient temperature. They meet requirements of specification JAN-R-11. All units are color coded. Each resistor is marked with the resistance value, wattage rating and the Ohmite trade-mark. "LITTLE DEVILS" are available from stock in 1/2, 1 and 2 watt sizes with ±10% or ±5% tolerance. The standard RMA values, 10 ohms to 22 megohms can be furnished.

±10% Tolerance — RMA Values

Ohms	Ohms	Ohms	Ohms	Megohms
*2.7	68	1,800	47,000	1.2
*3.3	82	2,200	56,000	1.5
*3.9	100	2,700	68,000	1.8
*4.7	120	3,300	82,000	2.2
*5.6	150	3,900	0.1 Meg.	2.7
*6.8	180	4,700	0.12 Meg.	3.3
*8.2	220	5,600	0.15 Meg.	3.9
10	270	6,800	0.18 Meg.	4.7
12	330	8,200	0.22 Meg.	5.6
15	390	10,000	0.27 Meg.	6.8
18	470	12,000	0.33 Meg.	8.2
22	560	15,000	0.39 Meg.	10.0
27	680	18,000	0.47 Meg.	12.0
33	820	22,000	0.56 Meg.	15.0
39	1,000	27,000	0.68 Meg.	18.0
47	1,200	33,000	0.82 Meg.	22.0
56	1,500	39,000	1.00 Meg.	

*1 Watt Size Only.

Type	Size Length Diam.	Maximum Volts	List Price
1/2 Watt	3/8" x 3/8"	350	\$0.17
1 Watt	1" x 3/8"	500	.25
2 Watt	1 1/8" x 1/2"	1000	.33

New! 125 "LITTLEDEVILS" IN PLASTIC CABINET



Serviceman's assortment of 125 Ohmite "Little Devil," 1/2-watt, insulated composition resistors, in the 40 values (10 ohms to 10 megohms) most frequently used by servicemen. The assortment is offered at the price of the resistors alone—the cabinet is furnished without extra cost!

Stock No. CAB-1 Net Price, \$12.50

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

BE RIGHT WITH OHMITE

RHEOSTATS
RESISTORS
SWITCHES
CHOKES

2 WATT MOLDED COMPOSITION POTENTIOMETER—TYPE AB

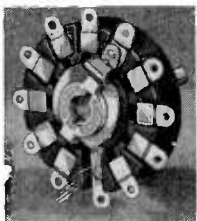


The Type AB Potentiometer is an exceptionally high quality unit designed especially for industrial, laboratory, radio service and other uses where reliability is particularly important. Because the resistor element is molded, the unit has an exceptionally large safety factor. The power rating of 2 watts is unusual for a unit of such small size. The unit has a very low noise level and low voltage coefficient. It will pass the Army-Navy 200 hour salt spray test, specification AN-QQ-S-91. The unit is 1 1/16" diameter and extends 9/16" behind the panel. The standard shaft length is 2" including the 3/8" long mounting bushing. A SPST switch, to be attached to the back of the control, can be supplied extra.

Total Resistance ±10% Except as Noted	Resistance Rotation Characteristics (Taper)		
	Type U Linear Stock No.	Type A Clockwise Log. Stock No.	Type B Counterclock. Log. Stock No.
50 Ohms	CU 5001		
100 Ohms	CU 1011		
250 Ohms	CU 2511		
500 Ohms	CU 5011		
1,000 Ohms	CU 1021		
2,500 Ohms	CU 2521		
5,000 Ohms	CU 5021		
10,000 Ohms	CU 1031		CB 1031
25,000 Ohms	CU 2531		CB 2531
50,000 Ohms	CU 5031		CB 5031
.10 Meg.	CU 1041	CA 1041	
.25 Meg.	CU 2541	CA 2541	
.5 Meg.	CU 5041	CA 5041	
1.0 Meg. ±20%	CU 1052	CA 1052	
2.5 Meg. ±20%	CU 2552	CA 2552	
5.0 Meg. ±20%	CU 5052		

Type AB Potentiometer..... List Price \$3.00
 Stock No. CS-1, Switch only for above unit (supplied unmounted)..... List Price .90

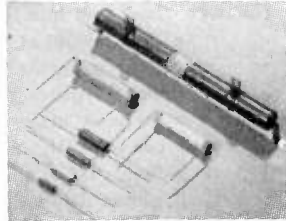
NON-SHORTING TYPE ROTARY POWER TAP SWITCH



Single-pole, multi-position switch with all-ceramic insulation, silver-to-silver contacts and "slow-break" action designed especially for alternating current. Switch shaft is electrically "dead". A.C. rating 10 amps., 150 volts. Diameter 1 3/4" — Depth behind panel 1 1/8" — Shaft diameter 1/4" — Recommended knob, stock number 4500 (round type) or 4516 (bar type).

Number of Taps	Total Rotation	Stock Number	List Price Less Knob
11	300°	111-11	3.90
10	270°	111-10	3.77
9	240°	111-9	3.77
8	210°	111-8	3.64
7	180°	111-7	3.64
6	150°	111-6	3.51
5	120°	111-5	3.51
4	90°	111-4	3.38
3	60°	111-3	3.38
2	30°	111-2	3.38

OHMITE R.F. PLATE CHOKES



The new series of seven Ohmite single layer wound solenoid radio frequency plate chokes covers the entire frequency range of 3 to 520 megacycles. The new chokes replace the former series of chokes, Z-0, Z-1, Z-2, and Z-3 with units that accomplish

the same results but are much smaller in physical size with one exception, the new Z-7 choke, which is identical to the former Z-3, the number only having been changed.

The four highest frequency chokes are wound on low power factor plastic cores while the other three units are wound on steatite tubes. Windings are insulated and protected by a moisture-proof coating. The single layer winding is designed to avoid adverse harmonic effects within the recommended operating range and also prevents breakdown from high r.f. potentials.

Stock Number	Operating Range Megacycles	Microhenries	Core Dimension	List Price
Z-7	3 to 20 Mc.	84.0	6" x 3/16"	\$1.56
Z-14	7 to 35 Mc.	44.0	2" x 1/16"	.68
Z-28	20 to 60 Mc.	21.0	1 3/4" x 3/16"	.44
Z-50	35 to 110 Mc.	7.0	3/8" x 3/32"	.33
Z-144	80 to 200 Mc.	1.8	3/4" x 3/16"	.33
Z-235	160 to 350 Mc.	0.84	3/4" x 3/16"	.33
Z-460	320 to 520 Mc.	0.20	1/2" x 5/32"	.33

Non-magnetic Brackets Furnished with Z-7.
 All chokes 1000 ma. rating except Z-14 and Z-28. These are rated at 600 ma.

OHMITE POWER LINE CHOKES



Prevents high-frequency currents of radio transmitters, diathermy and therapeutic equipment from going out over the power lines and interfering with nearby radio receiving sets. Used as a filter in connection with two grounding condensers of 0.1 microfarad capacity each. The Z-20 Choke is also used at radio receivers to keep out interference. All chokes consist of two single-layer windings on a single ceramic core—insulated and protected by moisture-proof coating. Recommended for use in suppressing radio (not audio) frequency interference.

Stock No.	Microhenries	Current Rating	Total D.C. Resistance Ohms	Lgth.	Tube Dia.	List Price
Z-20	14	5 Amperes	0.15	4"	1 1/8"	\$2.15
Z-21	15	10 Amperes	0.07	6 1/2"	3/4"	3.58
Z-22	18	20 Amperes	0.045	8 1/2"	1 1/8"	5.20

NEW OHM'S LAW CALCULATOR

Pocket Size



Solves Ohm's Law problems with only one setting of the slide. No decimal points to cause confusion—all values are direct reading. Requires no slide rule knowledge.

Ohmite Ohm's Law Calculator... NET Price \$0.25

For more complete information on OHMITE PRODUCTS, ask for Ohmite Stock Catalog.

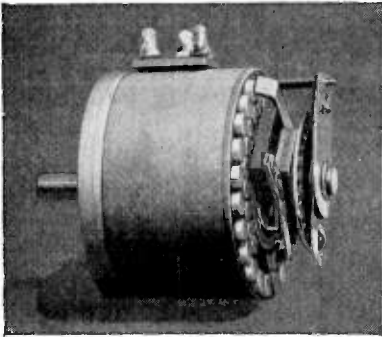
ELECTRICAL
INSTRUMENTS

RESISTORS
VARIABLE
ATTENUATORS
SWITCHES

SHALLCROSS MANUFACTURING CO.

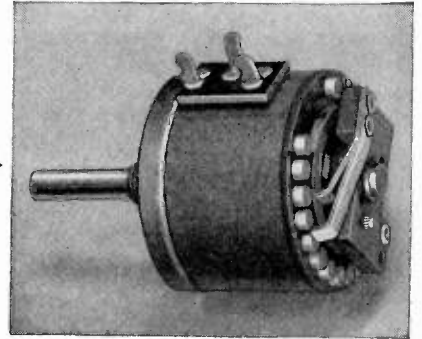
COLLINGDALE, PENNSYLVANIA

SHALLCROSS AUDIO ATTENUATORS



SHALLCROSS
ATTENUATOR
NO.
420-2B2

SHALLCROSS
ATTENUATOR
NO.
C720-2A3



These Shallcross Features Mean

- ✓ BETTER PERFORMANCE
- ✓ BIGGER VALUE

- ✓ Off position attenuation well in excess of 100 db.
- ✓ 25% to 50% fewer soldered joints.
- ✓ Noise level ratings that are factual. (130 db or more below zero level).
- ✓ Non-inductive Shallcross precision resistors used throughout assure flat attenuation to and beyond 30 kc.
- ✓ Types and sizes engineered for all needs. Attenuation accuracies of 1%, resistor accuracies of 0.1%, on special order.

Shallcross Audio Attenuators are available in either variable or fixed units, the former often being referred to as a "control" and the latter, as a "pad".

Controls are available with as few as 5 steps or as many as 52 steps with an attenuation as small as 0.1 db per step. The total attenuation for a single control does not exceed about 125 db since such high attenuation approaches the noise level of the switching mechanism.

The complete story of Shallcross attenuators may be found in Shallcross Engineering Bulletin #4, copies of which are available on request. Specifications and prices are given below for a few of the most popular variable attenuators.

IMPEDANCE: 150, 500, 250/500, 600 ohms, except potentiometers, which are 100,000 and 250,000 ohms.

RESISTORS: All non-inductively wirewound, $\pm 5\%$ tolerance, except types preceded with "C", which are composition selected to $\pm 5\%$.

ATTENUATION: Increases for counter-clockwise rotation of knob end of shaft.

FREQUENCY RESPONSE: Flat over entire audio range.

SWITCH MECHANISM: Multi-leaf wiper arms collector rings and contacts available in tarnish resistant silver alloy or brass. Noise level -130 db.

DETENT: Indexing mechanism available on any unit for \$0.50 list. Back of panel depth is then increased 5/16".

DIALS: \$1.00 list each additional.

KNOBS (VA-16906): \$0.50 list each additional.

120-2A3
\$8.00 silver
7.00 brass
Ladder attenuator, 20 steps, 2 db per step, tapered on last 3 steps to off. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing or two hole, 6-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $1\frac{3}{4}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

C720-2A3
\$8.00 silver
7.00 brass
Potentiometer, 20 steps, 2 db per step, tapered on last 3 steps to off. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing or two hole, 6-32 screws, $1\frac{3}{4}$ " centers. DIMENSIONS: $1\frac{3}{4}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

132-1.5B3
\$13.50 silver
12.00 brass

430-1C1
\$21.00 silver
19.00 brass

432-1.5C3
\$21.00 silver
19.00 brass

420-2B2
\$16.00 silver
14.00 brass

C820-2B2
\$16.00 silver
14.00 brass

Ladder attenuator, 32 steps, 1.5 db per step, tapered on last 3 steps to off. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 10°.

Bridged T attenuator, 30 steps, 1 db. per step, 30 db total. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 11 $\frac{1}{4}$ °.

Bridged T attenuator, 32 steps, 1.5 db per step, tapered on last 5 steps to off. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-5/16" back of panel depth. CONTACT SPACING: 10°.

Bridged T attenuator, 20 steps, 2 db per step, attenuation linear with off on last step. MOUNTING: two hole, 8-32 or 6-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

Dual potentiometer, each section 20 steps, 2 db per step, attenuation linear with off on last step. MOUNTING: two hole, 6-32 or 8-32 screws, $1\frac{1}{4}$ " or $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{8}$ " diameter, $1\frac{3}{4}$ " back of panel depth. CONTACT SPACING: 15°.

SHALLCROSS V.U. METER RANGE EXTENDING ATTENUATORS

IMPEDANCE: Available with input impedances of 3900-7100-7500 ohms. Output impedance is 3900 ohms to match Weston Type 30B or General Electric Type DO 61 V.U. meters.

TOLERANCE: $\pm 1\%$ except "C" types which are $\pm 5\%$.

INSERTION LOSS: Zero.

DETENT: All units supplied with indexing mechanism; back of panel depth includes detent.

C35-4A4
\$12.00 silver
11.00 brass

T attenuator, +4 to +24 V.U., 5 steps, 4 V.U. per step. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing. DIMENSIONS: $1\frac{3}{4}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 30°.

C35-4A5
\$12.00 silver
11.00 brass

T attenuator, +4 to +20 V.U. and OFF, 5 steps, 4 V.U. per step. MOUNTING: single hole, $\frac{3}{8}$ "-32 threaded bushing. DIMENSIONS: $1\frac{3}{4}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 30°.

320-2C4
\$21.50 silver
20.50 brass

T attenuator, +4 to +44 V.U., 20 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 15°.

320-2C5
\$21.50 silver
20.50 brass

T attenuator, +4 to +42 V.U. and OFF, 20 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{2}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 15°.

412-2B4
\$16.50 silver
14.50 brass

Bridged T attenuator, +4 to +28 V.U., 12 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{8}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 12°.

412-2B5
\$16.50 silver
14.50 brass

Bridged T attenuator, +4 to +26 V.U. and OFF, 12 steps, 2 V.U. per step. MOUNTING: two hole, 8-32 screws, $1\frac{1}{2}$ " centers. DIMENSIONS: $2\frac{1}{8}$ " diameter, 2-1/16" back of panel depth. CONTACT SPACING: 12°.

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

**ELECTRICAL
INSTRUMENTS
RESISTORS
VARIABLE
ATTENUATORS
SWITCHES**

SHALLCROSS AKRA-OHM RESISTORS

LIST PRICES—Standard BX Types, $\pm 1\%$ Tolerance

Resistance Range to and including	Types BX110, BX116, BX160	Types BX196	Types BX183A	Types BX100, BX140, BX193
0.5 ohms to				
1000 ohms	\$2.15	\$1.65	\$1.00	\$1.40
Up to 5000 ohms	2.30	1.75	1.05	1.50
Up to 10,000 ohms	2.40	1.85	1.15	1.60
Up to 15,000 ohms	2.50	1.85	1.25	1.60
Up to 30,000 ohms	2.60	2.00	1.40	1.75
Up to 50,000 ohms	2.70	2.00	1.55	1.75
Up to 75,000 ohms	2.90	2.25	1.75	2.00
Up to 100M	3.20	2.50	2.00	2.25
Up to 125,000	3.35	2.60	2.15	2.35
Up to 150,000	3.55	2.75	2.15	2.50
Up to 200,000	3.85	3.05	2.40	2.75
Up to 250,000	4.15	3.35	2.65	3.00
Up to 300,000	4.45	3.65	2.90	3.25
Up to 400,000	5.10	4.20	3.15	3.75
Up to 500,000	5.70	4.75	3.65	4.25
Up to 600,000	6.00	5.05	4.40	4.50
Up to 700,000	6.15	5.20	4.50	4.60
Up to 750,000	6.35	5.40	4.65	4.75
Up to 900,000	6.65	5.70	4.90	5.00
Up to 1 megohm	6.95	6.00	5.15	5.25
Up to 1.5 megohms	9.80	8.25		
Up to 2 megohms	14.15	11.25		
Up to 2.5 megohms	16.40	14.00		
Up to 3 megohms	18.40	16.75		
Up to 4 megohms	22.40	21.25		
Up to 5 megohms	26.40	25.75		
Up to 6 megohms	30.40			
Up to 7 megohms	35.40			
Up to 8 megohms	40.40			
Up to 9 megohms	45.40			
Up to 10 megohms	50.40			

SPECIAL TOLERANCE
Resistors to closer tolerances can be supplied at higher prices. Add to list prices as follows:

$\pm 1/2\%$, add 5%	$\pm 1/10\%$, add 25%
$\pm 1/4\%$, add 10%	$\pm .05\%$, add 50%
$\pm 2/10\%$, add 15%	

BX impregnated resistors will be furnished unless order specifies "without BX". Following price reductions will be made from the list price for resistors furnished without vacuum impregnation:

Type 110, 116 & 160	\$40
" 196	25
" 183	15
" 100, 140 & 193	25

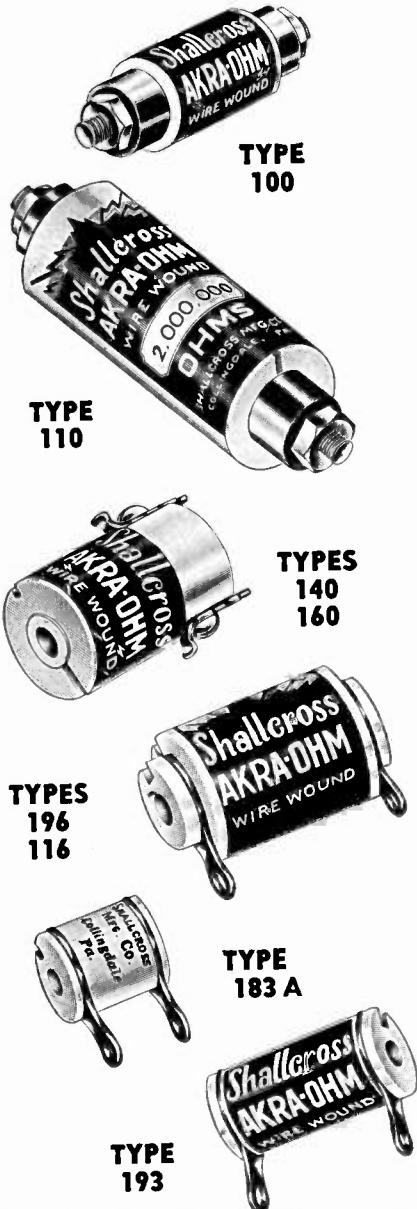
Prices shown are for Manganin Wire used in resistances to 1,000 ohms and for Nickel-Chromium-Iron Wire used in resistances above 1,000 ohms.

TYPES BX183A AND BX193— $\pm 1\%$ IN COMMON VALUES—IN STOCK

In addition to the popular standard types listed here, Shallcross Akra-Ohm Resistors are made in a complete line of standard and special designs for precise electronic equipment demanding great stability and long life even under difficult conditions of temperature and humidity.

Shallcross achievements include the development of really practical hermetically-sealed

units; BX processed resistors "tropicalized" against moisture and fungus; the use of spun glass insulated wire for applications where considerable power must be dissipated; bifilar wound resistors, 1000 ohms or less, for exacting instrument use; heavy-duty surge resistors; accurate heavy-duty power resistors, and various others. Write for the Shallcross "Engineering Data" wall and file Chart.



ACCURATE FIXED WIRE-WOUND TYPES (JAN R93) PRICES ON REQUEST.

Shallcross Type	** JAN Style	Wattage	* Maximum Ohms	Std. Terminal	Mounting	Dimensions Length—Diam.
100	RB21	1	750,000	#8 screw	5 amp. fuse clip	2 1/16" x 9/16"
110	RB22	2	2 Meg.	#8 screw	5 amp. fuse clip	2 7/8" x 3/4"
116	RB14	1	2 Meg.	Solder lugs	#6 screw	2 3/8" x 3/4"
140	RB41	0.5	350,000	Solder lugs	#6 screw	1 1/4" x 11/16"
160	RB42	1	500,000	Solder lugs	#6 screw	1 9/16" x 11/16"
183A	RB11	0.5	300,000	Solder lugs	#6 screw	5/8" x 1/2"
193	RB12	1	400,000	Solder lugs	#6 screw	1" x 1/2"
196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 3/4"
△1196	RB13	1	1 Meg.	Solder lugs	#6 screw	1 1/4" x 1/4"

* Based on use of .0014" diameter nickel chromium wire. Smaller wire sizes will greatly increase maximum allowable resistance on any form.
 ** JAN style refers to Joint Army-Navy Specification R93. Price depends on wire size and specification.
 △ Hermetically sealed. Other sizes available.

SEND FOR RESISTOR ENGINEERING CHART FOR COMPLETE DATA

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

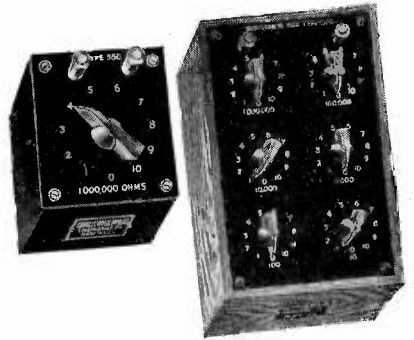
ELECTRICAL INSTRUMENTS
RESISTORS
VARIABLE ATTENUATORS
SWITCHES

SHALLCROSS DECADE RESISTANCE BOXES

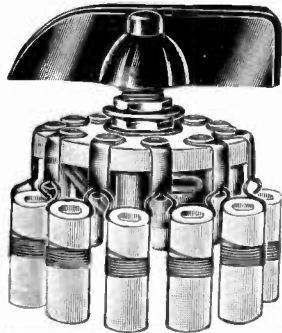
The large assortment and wide range of resistance available makes the Shallcross line of Resistance Boxes unique in the instrument field. They are used extensively as laboratory standards, AC and DC Bridge and ratio arms, voltage dividers, etc.

Accuracy adjustment of Resistors as follows:
 0.1 ohm..... 1% 1. ohm..... 0.25% all others..... 0.1%

No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price	No.	No. Dials	Ohm Steps	Ohms Total Resistance	Price
543	1	0.1	1	\$13.50	821	3	10	11.100	\$39.50
544	1	1.0	10	13.50	822	3	100	111.000	44.50
545	1	10	100	13.50	823	3	1,000	1,110.000	58.00
546	1	100	1,000	13.50	824	3	10,000	11,100.000	91.00
547	1	1,000	10,000	16.50	825	4	1	11,110	51.00
548	1	10,000	100,000	19.50	826	4	10	111,100	56.00
549	1	100,000	1,000,000	27.00	827	4	100	1,111,000	69.50
550	1	1,000,000	10,000,000	50.00	828	4	1,000	11,110,000	105.50
817	3	.01	11.1	45.00	8285	5	0.1	11,111	62.50
817A	4	.01	111.1	56.50	829	5	1	111,110	67.50
817B	5	.01	1,111.1	71.00	830	5	10	1,111,100	81.00
818	3	0.1	111	86.50	831	5	100	11,111,000	117.00
819	4	0.1	1,111	48.00	832	6	1	1,111,110	91.50
820	3	1	1,110	36.50	833	6	10	11,111,100	127.50



UNMOUNTED DECADE RESISTANCES



In response to a demand from engineers, manufacturers and physicists who design and construct their own electrical measuring instruments, we have made the Shallcross Unmounted Decade Resistances available. They are of the same construction as those used in the popular Shallcross Resistance Decades described above and consist of ten Shallcross Resistors mounted on a ceramic instrument switch.

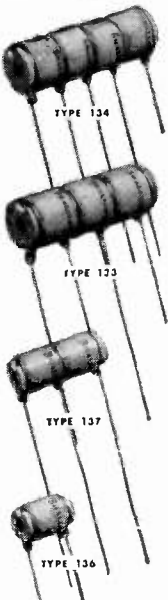
SPECIFICATIONS

Type No.	Total Resistance Ohms	Unit Resistance Ohms	Switch No.	Accuracy	Price
435	1.0	.1	536	1.0%	\$9.00
436	10	1.0	531	0.25%	9.00
437	100	10	531	0.1	9.00
438	1,000	100	531	0.1	9.00
439	10,000	1,000	531	0.1	12.00
440	100,000	10,000	531	0.1	14.00
441	1 Meg.	100,000	531	0.1	22.50
442	10 Meg.	1 Meg.	531	0.1	45.00

Mounting: Single 3/8" Hole Mounting—Panels Up to 3/16" Thick. Any of the above may be obtained with aluminum dust cover and shield at \$1.50 additional cost.

SHALLCROSS AKRA-OHM PRECISION RESISTORS

for "Miniaturization" applications
UNUSUAL ACCURACY IN SMALL SPACE

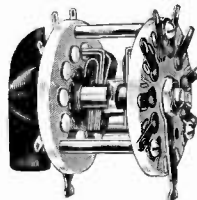


These new Shallcross Okra-Ohm Wire-Wound Precision Resistors have been designed to meet the needs of modern, miniature equipment. Standard tolerance is 1%. Closer tolerances can be furnished on special order.

The units offer unusually high and accurate resistance values in small space and are light enough to be suspended by their own tinned copper leads, or may be secured with mounting screw.

Type	Sections	Size	Watts	Maximum Resistance per section Ohms	Minimum Resistance per section Ohms
136	1	18/64" x 1/4"	0.25	150,000	1.
137	2	45/64" x 1/4"	0.25	150,000	1.
133	3	11/32" x 3/8"	0.25	550,000	1.
134	4	1/2" x 3/8"	0.25	375,000	1.

Prices on application.



SHALLCROSS ROTARY SELECTOR SWITCHES

Like other Shallcross instrument components, these Rotary Selector Switches are designed to cover a very wide field of application in both shorting and non-shorting types, and can be modified to control a variety of circuits. Details on any type for practically any application on request. Suffixes B and S denote Brass and Silver contacts and contact arms.

SWITCH PRICES

Poles	Positions	Contact Plate Material	Shorting	Non-Shorting	List Price
1	11	Stearite	4605-B	4610-B	\$3.10
1	11	Stearite	4620-B	4615-B	6.95
2	11	Stearite	4605-S	4610-S	3.40
2	11	Stearite	4620-S	4615-S	7.55
1	12	Bakelite	5550-B	5620-B	3.60
1	12	Bakelite	5550-S	5620-S	3.90
2	15	Stearite	5010-B	4225-B	4.00
1	15	Stearite	5015-B	4980-B	7.45
2	15	Stearite	5010-S	4225-S	4.50
1	18	Stearite	5015-S	4980-S	8.45
1	18	Bakelite	5155-B	5625-B	4.85
1	24	Bakelite	5155-S	5625-S	5.40
1	24	Bakelite	5630-B	5570-B	6.20
1	36	Bakelite	5630-S	5570-S	6.80
1	36	Bakelite	4815-B	4850-B	*
1	48	Bakelite	4815-S	4850-S	*
1	48	Bakelite	4640-B	*	*
1	60	Bakelite	4640-S	*	*
1	60	Bakelite	*	5935-B	*
1	60	Bakelite	*	5935-S	*

Large Rotating Tap Switch—12 Brass Contacts—number 2240-2 Shorting only

* Prices on application.

**ELECTRICAL
INSTRUMENTS**

RESISTORS

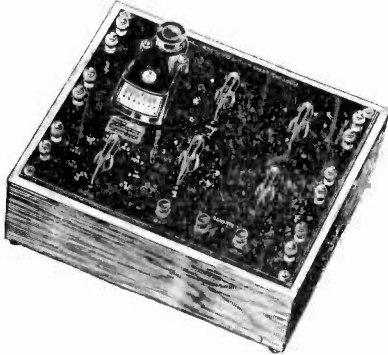
**VARIABLE
ATTENUATORS**

SWITCHES

SHALLCROSS MANUFACTURING CO.

COLLINGDALE, PENNSYLVANIA

SHALLCROSS D-C BRIDGES



**No. 638-2-4
KELVIN
WHEATSTONE
BRIDGE**

Resistance range 0.0001 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—0.3% between 1.0 ohm and .1111 megohms. Below and above this range—2%.

GALVANOMETER—Built-in—sensitivity 1 micro-ampere per millimeter division.

RHEOSTAT ARM—Four decades—1.0 ohm steps in Wheatstone and 1.0 micro-ohm steps in Kelvin ranges.

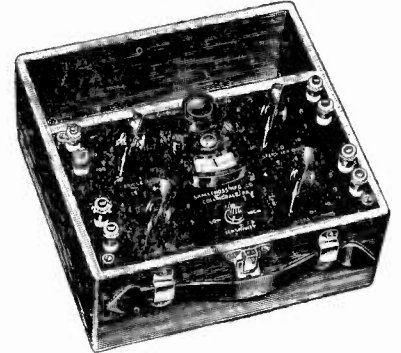
RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.

SEPARATE KEYS—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover (not illustrated) and compartment for 4½ volt battery (not supplied) for Wheatstone range measurements.

DIMENSIONS—Length 12¼", width 10½", height 6½".

WEIGHT—Approx. 9 lbs. Price \$195.00.



**No. 630
WHEATSTONE
BRIDGE**

Resistance range from 0.1 ohm to 11.1 megohms

SPECIFICATIONS

ACCURACY—1.0% between 10 ohms and 1.0 megohm—2% over 1 megohm.

COMPONENT RESISTORS—0.1% accurate except 1 ohm, which are 0.25%.

RHEOSTAT ARM—Three decades—variable in 10.0 ohm steps.

RESISTANCE BOX—Binding posts allow using rheostat as Resistance Box.

CAM SWITCH—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover and compartment for batteries and leads (not supplied).

DIMENSIONS—Length 10", width 9¾", height 5¼".

WEIGHT—Approx. 6 lbs. Price \$110.00.



**No. 637
KELVIN
WHEATSTONE
BRIDGE**

Resistance range 0.001 ohm to 11.1 megohms

SPECIFICATIONS—Same as No. 638-2 except:

ACCURACY—1.0% between 1.0 ohm and 1.0 megohm; 2.0% above 1.0 megohm; and 3.0% below 0.1 ohm.

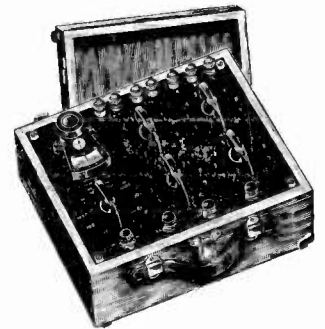
GALVANOMETER—Sensitivity 1.0 micro-ampere per millimeter division. Built-in.

RHEOSTAT ARM—Three decades—10 ohm steps in Wheatstone and 10 micro-ohm steps in Kelvin ranges.

CANNOT be used as Resistance Box.

DIMENSIONS—Length 10", width 9¾", height 5¼".

WEIGHT—Approx. 7 lbs. Price \$140.00.



**No. 629
FAULT
LOCATION
BRIDGE**

Resistance range 0.1 ohm to 11.11 megohms

SPECIFICATIONS

ACCURACY—**COMPONENT RESISTORS**—0.1% accurate except 1.0 ohm, which are 0.25%.

GALVANOMETER—Built-in—sensitivity 1.0 micro-ampere per mm. division.

RHEOSTAT ARM—Four decades—11.110 ohms—variable in 1 ohm steps.

RATIO DIAL—Marked 0.001, 0.01, 0.1, 1.0, 10.0, 100 and 1000 for resistance measurements and Varley tests. M1, M 10, M 100 and M 1000 for Murray tests.

SEPARATE KEYS—Provided for battery and galvanometer circuits.

CASE—Carrying type with removable cover, concealed compartment for 1½ volt battery (not supplied).

BINDING POSTS—Provided for use of external galvanometer where required.

DIMENSIONS—Length 10½", width 8½", height 5½".

WEIGHT—Approx. 7 lbs. Price \$130.00.

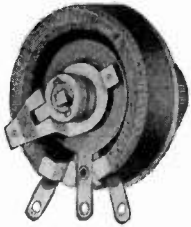
VOLTAGE DIVIDERS (DECADE POTENTIOMETERS)

No.	Dials	Total Resistance	Price	No.	Dials	Total Resistance	Price
835	4	10,000 ohms	\$100.00	845	3	1,000 ohms	\$74.00
836	4	100,000 ohms	110.00	846	3	10,000 ohms	79.50
837	4	1,000 ohms	95.00	850	3	100,000 ohms	92.50



WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

VITROHM RING TYPE RHEOSTATS



The core and base of Ward Leonard Ring Type Rheostats are made of the highest grade ceramic materials. The resistance wire is wound toroidally on the core, and is coated with a tough, heat resistant, acid resistant, crazeless vitreous enamel.

The contact is a special alloy and is of large area to avoid sticking, pitting, local heating, or oxidation when setting remains fixed for a long period of time.

Watt Ratings

Based on continuous operation in free air with a temperature rise not to exceed 300° C, which is within the limits specified by Underwriters' Laboratories and NEMA.

25 WATTS Type 25R

Dimensions
A — 1 3/16"
B — 1 1/16"
C — 1"
D — 1 1/8"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	7070	27	\$5.85
1	5000	27	5.85
2	3540	27	5.20
3	2880	27	5.20
6	2040	81	5.20
8	1770	90	5.20
10	1580	90	5.20
15	1280	103	5.20
25	1000	103	5.20
35	840	108	5.20
50	707	137	5.20
75	574	137	5.20
100	500	171	5.20
150	407	171	5.20
250	316	240	5.20
350	267	274	5.20
500	223	308	5.20
750	181	308	5.20
1000	158	390	5.85
1500	128	376	5.85
2500	100	520	5.85
3500	84	520	6.18
5000	70	520	6.18

50 WATTS Type 50R

Dimensions
A — 2 5/16"
B — 1 3/8"
C — 1 1/8"
D — 1 1/2"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	10000	30	\$6.50
1	7070	49	6.50
2	5000	49	6.50
4	3540	59	5.85
6	2880	108	5.85
8	2500	113	5.85
10	2230	150	5.85
15	1810	150	5.85
25	1415	188	5.85
35	1190	119	5.85
50	1000	188	5.85
75	812	188	5.85
100	707	225	5.85
150	574	225	5.85
250	447	300	5.85
350	374	338	5.85
500	316	375	5.85
750	256	450	6.18
1000	223	450	6.18
1500	181	570	6.18
2500	141	570	6.18
3500	119	713	6.50
5000	100	713	6.50
7500	81	855	6.50
10000	70	998	6.50

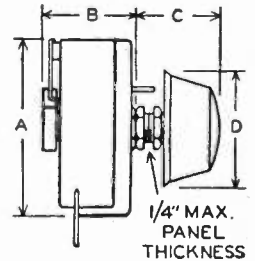
Heavy Duty Rheostats Pressed steel plate type.

300 watts — 1 to 2500 ohms, 20 steps, 6" diameter.
500 watts — 1 to 5000 ohms, 33 steps, 8" diameter.

Number of Steps

Each turn of resistance wire on the core of a Vitrohm Ring Type Rheostat constitutes a step of change in the resistance value.

Vitrohm Ring Type Rheostats are made with three terminals with no "off" position, and can be used as potentiometers or rheostats, as desired. Rheostats with an "off" position can be furnished on special order.



100 WATTS Type 100R

Dimensions
A — 3 3/8"
B — 1 3/4"
C — 1 1/8"
D — 1 1/2"

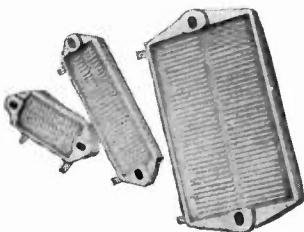
Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	14100	41	\$9.75
1	10000	41	9.75
2	7070	41	9.75
3	5740	72	9.75
5	4470	82	9.75
7.5	3640	82	9.10
10	3160	72	9.10
15	2560	156	9.10
25	2000	196	9.10
50	1415	274	9.10
75	1150	313	9.10
100	1000	274	9.10
200	707	313	9.10
300	574	353	9.10
400	500	392	9.10
500	447	392	9.10
750	364	464	9.10
1000	316	470	9.75
2000	223	595	9.75
2500	200	744	9.75
5000	141	893	10.40
7500	115	893	11.05
10000	100	1041	11.70

150 WATTS Type 150R

Dimensions
A — 3 1/4"
B — 2"
C — 1 1/8"
D — 1 1/2"

Ohms	Current m. a.	Approx. No. of Steps	List Price
0.5	17320	43	\$12.35
1	12240	43	12.35
2	8660	43	12.35
3	7070	54	12.35
5	5470	107	12.35
7.5	4470	107	12.35
10	3870	107	11.70
15	3160	107	11.70
25	2440	204	11.70
50	1730	245	11.70
75	1415	286	11.70
100	1224	367	11.70
200	866	326	11.70
300	707	408	11.70
400	612	408	11.70
500	547	489	11.70
750	447	489	12.35
1000	387	620	12.35
2000	273	775	13.00
2500	244	775	13.00
5000	173	930	13.65
7500	141	1240	14.30
10000	122	1240	15.60

VITROHM PLAQUE RESISTORS



Vitrohm Plaque Resistors are flat in form. The resistance wire is arranged on a rectangular ceramic base to give the lowest obtainable values of inductance and distributed capacitance. Inductance at frequencies up to 1000 kilocycles and distributed capacitance up to 5 megacycles are so low in value that they are negligible.

Vitrohm Plaque Resistors are rated 20, 40, and 125 watts with full ventilation.

Since full ventilation is usually impossible to attain, the watt rating should be decreased to compensate for the reduction in ventilation. A single plaque resistor mounted on a panel should operate safely about 80% of the full watt rating.

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20 WATTS TYPE 20P 40 WATTS TYPE 40P 125 WATTS TYPE 125P

Ohms	20 WATTS TYPE 20P		40 WATTS TYPE 40P		125 WATTS TYPE 125P	
	Current m. a.	List Price	Current m. a.	List Price	Current m. a.	List Price
0.64	5590	\$1.95	7910	\$2.80	14000	\$3.80
1.00	4470	1.95	6320	2.80	11200	3.90
1.6	3540	1.95	5000	2.80	8800	3.80
2.5	2830	1.95	4000	2.80	7050	3.90
4.0	2240	1.95	3160	2.80	5600	3.90
6.4	1770	1.95	2500	2.80	4400	3.80
10	1415	1.95	2000	2.80	3500	3.90
16	1120	1.95	1580	2.80	2800	3.90
25	895	1.95	1260	2.80	2200	3.80
40	705	1.95	1000	2.80	1770	3.90
50	630	1.95	895	2.80	1580	3.80
64	560	1.95	790	2.80	1400	3.90
100	445	1.95	630	2.80	1120	3.90
160	355	1.95	500	2.80	880	3.80
250	285	1.95	400	2.80	705	3.90
400	225	1.85	315	2.80	560	3.90
640	175	1.95	250	2.80	440	3.80
1,000	140	1.95	200	2.80	350	3.90
1,600	110	1.95	160	2.80	280	3.90
2,500	90	1.85	125	2.80	220	3.90
4,000	70	1.85	100	2.80	177	3.90
5,000	65	1.95	90	2.80	158	3.90
6,400			80	2.80	140	3.90
10,000			65	2.80	112	3.90



WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

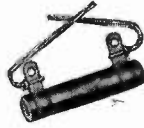
VITROHM FIXED RESISTORS

5 WATTS

Type 5F

Size 1" x 1/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	2230	\$0.52	350	119	\$0.52
1.5	1820	.52	400	112	.52
2	1580	.52	450	105	.52
3	1290	.52	500	100	.52
4	1117	.52	600	91	.52
5	1000	.52	700	84	.52
7.5	811	.52	750	81	.52
10	707	.52	800	79	.52
12	644	.52	900	74	.52
15	577	.52	1000	70	.52
20	500	.52	1100	67	.52
25	450	.52	1200	64	.52
30	408	.52	1250	63	.52
35	378	.52	1500	57	.52
40	353	.52	1750	50	.52
50	316	.52	2000	50	.52
75	257	.52	2250	47	.52
100	223	.52	2500	45	.52
125	200	.52	3000	40	.52
150	182	.52	3500	37	.52
200	158	.52	4000	35	.52
250	141	.52	4500	33	.52
300	129	.52	5000	31	.52



5-watt, 10-watt, 20-watt

Types 5F, 10F, and 20F are furnished with wire terminal leads — no brackets.

Order by Type Number and Resistance Value.

10 WATTS

Type 10F

Size—1 1/4" x 3/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	3160	\$0.59	150	258	\$0.59	4500	47	\$0.59
1.5	2580	.59	200	224	.59	5000	45	.59
2	2235	.59	225	211	.59	6000	41	.59
3	1825	.59	250	200	.59	7000	38	.59
4	1580	.59	300	182	.59	7500	36	.59
5	1415	.59	350	169	.59	8000	35	.59
7.5	1155	.59	400	158	.59	8500	34	.59
10	1000	.59	450	149	.59	9000	33	.59
12	913	.59	500	142	.59	10000	30	.59
15	815	.59	600	129	.59	11000	27	.65
20	707	.59	700	120	.59	12000	25	.65
25	630	.59	750	115	.59	12500	24	.65
30	577	.59	800	110	.59	13500	22	.65
35	534	.59	900	105	.59	14300	21	.65
40	500	.59	1000	100	.59	15000	20	.65
50	450	.59	1100	95	.59	16000	19	.65
75	365	.59	1200	91	.59	17500	17	.66
100	316	.59	1250	89	.59	18000	16	.65
125	283	.59	1500	81	.59	20000	15	.65
			1750	75	.59	22500	13	.65
			2000	70	.59	25000	12	.65
			2250	66	.59	30000*	13	.65
			2500	63	.59	35000*	12	.65
			3000	58	.59	40000*	11	.65
			3500	53	.59	45000*	10.5	.65
			4000	50	.59	50000*	10	.65

*Operated at Low Temperature. Rated 5 Watts.

20 WATTS

Type 20F

Size 2" x 1/2" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	4480	\$0.91	2500	90	\$0.91
3	2580	.91	2750	85	.91
5	2000	.91	3000	80	.91
10	1410	.91	3500	76	.91
15	1150	.91	4000	70	.91
25	900	.91	4500	67	.91
50	630	.91	5000	63	.91
75	510	.91	6000	55	.91
100	450	.91	7000	53	.91
150	365	.91	7500	51	.91
175	340	.91	8000	50	.91
200	320	.91	10000	40	.91
250	285	.91	12500	32	.91
300	258	.91	15000	27	.91
350	240	.91	20000	20	1.11
400	220	.91	25000	16	1.11
500	200	.91	30000	13	1.11
650	175	.91	35000	11	1.11
700	169	.91	40000	10	1.11
750	160	.91	45000	9	1.11
800	155	.91	50000	8	1.11
850	153	.91	55000	7	1.43
1000	141	.91	60000*	10.8	1.43
1200	130	.91	65000*	10.5	1.43
1250	125	.91	70000*	10.0	1.43
1500	115	.91	75000*	9.5	1.43
1750	107	.91	80000*	9.3	1.43
1850	104	.91	85000*	9.1	1.43
2000	100	.91	90000*	8.8	1.43
2250	94	.91	95000*	8.6	1.43
2400	91	.91	100000*	8.4	1.43

*Operated at Low Temperature. Rated 7 Watts.

Mounting brackets and lug type terminals



25 WATTS

Type 25F

Size—2" x 3/4" Mounting Centers—2 3/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	5000	\$1.04	2000	112	\$1.04
2	3535	1.04	2500	100	1.04
3	2890	1.04	3000	90	1.04
4	2500	1.04	3500	85	1.04
5	2235	1.04	4000	80	1.04
10	1580	1.04	5000	70	1.04
15	1290	1.04	6000	65	1.17
25	1000	1.04	7500	53	1.17
50	710	1.04	8500	47	1.17
75	580	1.04	10000	40	1.17
100	500	1.04	12000	37	1.17
150	410	1.04	15000	27	1.17
200	354	1.04	20000	20	1.43
250	315	1.04	25000	16	1.43
300	289	1.04	30000	13	1.43
400	250	1.04	35000	11	1.43
500	224	1.04	40000	10	1.43
750	182	1.04	50000	8	1.43
800	177	1.04	60000	6.7	1.63
850	170	1.04	70000	5.7	1.76
1000	158	1.04	75000	5.3	1.95
1250	140	1.04	80000	5	1.95
1500	129	1.04	100000	4	2.47

50 WATTS

Type 50F

Size—3 1/2" x 3/4" Mounting Centers—4 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	7070	\$1.56	5000	100	\$1.56
2	5000	1.56	6000	91	1.82
3	4080	1.56	7500	82	1.82
4	3535	1.56	8000	79	1.82
5	3160	1.56	10000	70	1.82
10	2235	1.56	12000	64	1.82
25	1415	1.56	12500	56	1.82
50	1000	1.56	15000	47	1.82
75	815	1.56	20000	35	1.82
100	707	1.56	25000	28	1.82
150	575	1.56	30000	23	2.08
300	500	1.56	35000	20	2.08
250	445	1.56	40000	18	2.08
300	408	1.56	45000	17	2.08
400	353	1.56	50000	14	2.08
500	316	1.56	75000	9	2.08
750	258	1.56	100000	7	2.08
800	250	1.56	125000	5	2.86
1000	224	1.56	150000	4.6	3.25
1500	180	1.56	175000	4.0	3.25
2000	160	1.56	200000*	3.5	3.58
2500	141	1.56	225000*	3.1	3.58
3000	130	1.56	250000*	2.8	3.90
4000	110	1.56			

*Operated at Low Temperature. Rated 17 Watts.

100 WATTS

Type 100F

Size—6 1/2" x 1 1/2" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	10000	\$2.15	2500	200	\$2.15
2	7070	2.15	3000	180	2.15
3	5770	2.15	3500	170	2.15
4	5000	2.15	4000	160	2.15
5	4470	2.15	4500	150	2.15
10	3160	2.15	5000	141	2.15
25	2000	2.15	7500	115	2.54
50	1410	2.15	10000	100	2.54
75	1150	2.15	15000	80	2.54
100	1000	2.15	20000	70	2.54
125	895	2.15	25000	60	2.54
150	815	2.15	30000	50	2.86
250	630	2.15	35000	43	2.86
500	447	2.15	40000	37	2.86
750	365	2.15	50000	30	2.86
1000	316	2.15	60000	25	3.25
1250	285	2.15	70000	21	3.25
1500	260	2.15	75000	20	3.25
2000	225	2.15	100000	15	3.58

160 WATTS

Type 160F

Size—8 1/2" x 1 1/2" Mounting Centers—9 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	12650	\$3.77	2500	252	\$2.86
2	8940	3.45	3000	230	2.86
3	7300	3.25	3500	215	2.86
4	6320	3.06	4000	200	2.86
5	5650	2.86	4500	185	2.86
10	4000	2.86	5000	178	2.86
15	3265	2.86	7500	146	2.86
25	2525	2.86	10000	126	2.86
50	1785	2.86	15000	105	3.45
75	1460	2.86	20000	90	3.45
100	1265	2.86	25000	80	3.45
150	1035	2.86	30000	67	3.45
200	894	2.86	35000	57	3.45
250	800	2.86	40000	50	3.45
500	565	2.86	50000	40	3.45
750	460	2.86	60000	33	3.90
1000	400	2.86	75000	26	3.90
1500	326	2.86	80000	25	3.90
2000	280	2.86	100000	20	3.90

200 WATTS

Type 200F

Size—10 1/2" x 1 1/2" Mounting Centers—11 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	14140	\$4.68	3500	240	\$3.58
2	10000	4.36	4000	225	3.58
3	8162	4.03	4500	210	3.58
4	7070	3.77	5000	200	3.58
5	6325	3.58	7500	163	3.58
10	4470	3.58	1		

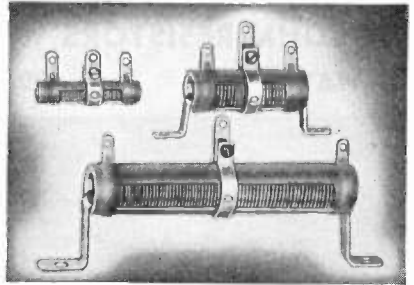


WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

ADJUSTABLE RESISTORS -- ADJUSTOHMS

Adjustohm Resistors are for use in any application where it is necessary or desirable to have one or more intermediate resistance values; or in circuits that need to be changed from time to time to meet varying electrical conditions.

Adjustohm Resistors are built of the highest grade low temperature coefficient materials, and are coated with Ward Leonard's tough crazeless Vitreous Enamel.



10 WATTS

Type 10A

Size—1 3/4" x 5/8" No Mounting Brackets

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	3160	\$0.98	750	115	\$0.98
2	2235	.98	800	110	.98
3	1825	.98	1000	100	.98
5	1415	.98	1250	89	.98
7.5	1155	.98	1500	81	.98
10	1000	.98	2000	70	.98
15	815	.98	2500	63	.98
20	707	.98	3000	58	.98
25	630	.98	3500	53	.98
50	450	.98	4000	50	.98
75	365	.98	4500	47	.98
100	316	.98	5000	45	.98
150	258	.98	6000	41	.98
200	224	.98	7000	38	.98
250	200	.98	7500	36	.98
300	182	.98	8000	35	.98
350	169	.98	8500	34	.98
400	158	.98	9000	33	.98
500	142	.98	10000	30	.98
600	129	.98			

25 WATTS

Type 25A

Size—2" x 5/8" Mounting Centers—2 3/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	5000	\$1.24	1250	140	\$1.24
2	3535	1.24	1500	129	1.24
3	2890	1.24	2000	112	1.24
5	2230	1.24	2250	105	1.24
7.5	1825	1.24	2500	100	1.24
10	1580	1.24	3000	90	1.24
15	1290	1.24	3500	85	1.24
20	1115	1.24	4000	80	1.24
25	1000	1.24	4500	74	1.24
50	710	1.24	5000	70	1.24
75	580	1.24	6000	65	1.43
100	500	1.24	7000	57	1.43
150	410	1.24	7200	56	1.43
200	354	1.24	7500	53	1.43
250	315	1.24	8000	50	1.43
300	289	1.24	8500	47	1.43
400	250	1.24	9000	44	1.43
500	224	1.24	10000	40	1.43
750	182	1.24	12000	33	1.43
800	177	1.24	15000	27	1.43
850	170	1.24	20000	20	1.56
1000	158	1.24	25000	16	1.56

WATT RATINGS

Nominal watt ratings for Adjustohm Resistors apply when the entire resistor is in the circuit. For most practical purposes the watt rating for each part of the resistor is approximately proportional to the amount of the resistance that is in the circuit.

Mounting brackets are furnished with all Adjustohm Resistors, except the 10-watt size, Type 10A.

Price of resistor includes brackets and one adjustable band.

50 WATTS

Type 50A

Size—4 1/2" x 3/4" Mounting Centers—5 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	7070	\$1.95	3000	130	\$1.95
2	5000	1.95	3500	120	1.95
3	4080	1.95	4000	110	1.95
4	3535	1.95	4500	105	1.95
5	3160	1.95	5000	100	1.95
10	2235	1.95	6000	91	2.15
25	1415	1.95	7000	85	2.15
50	1000	1.95	7200	83	2.15
75	815	1.95	7500	82	2.15
100	707	1.95	8000	79	2.15
150	575	1.95	9000	75	2.15
200	500	1.95	10000	71	2.15
250	445	1.95	12000	64	2.15
300	408	1.95	15000	58	2.15
400	353	1.95	20000	48	2.15
500	316	1.95	25000	40	2.15
750	258	1.95	30000	33	2.47
800	250	1.95	40000	25	2.47
1000	224	1.95	50000	20	2.47
1250	200	1.95	60000	17	2.86
1500	180	1.95	75000	13	2.86
2000	160	1.95	80000	12	2.86
2250	150	1.95	100000	10	2.86
2500	141	1.95			

75 WATTS

Type 75A

Size—6 1/2" x 3/4" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	8660	\$2.54	3000	158	\$2.54
2	6120	2.54	3500	146	2.54
3	5000	2.54	4000	137	2.54
4	4330	2.54	4500	129	2.54
5	3870	2.54	5000	122	2.54
10	2740	2.54	6000	111	2.86
15	2235	2.54	7000	103	2.86
25	1730	2.54	7200	102	2.86
50	1220	2.54	7500	100	2.86
75	1000	2.54	8000	97	2.86
100	866	2.54	9000	91	2.86
200	612	2.54	10000	87	2.86
250	550	2.54	15000	71	2.86
300	500	2.54	20000	61	2.86
400	433	2.54	25000	55	2.86
500	387	2.54	30000	50	3.25
750	315	2.54	35000	43	3.25
800	305	2.54	40000	37	3.25
1000	274	2.54	45000	33	3.25
1250	245	2.54	50000	30	3.25
1500	224	2.54	60000	25	3.58
2000	195	2.54	70000	21	3.58
2250	183	2.54	80000	19	3.58
2500	173	2.54	100000	15	3.58

100 WATTS

Type 100A

Size—6 1/2" x 1 1/8" Mounting Centers—7 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	10000	\$2.86	2500	200	\$2.86
2	7070	2.86	3000	180	2.86
3	5770	2.86	4000	160	2.86
4	5000	2.86	4500	150	2.86
5	4470	2.86	5000	144	2.86
10	3160	2.86	6000	130	3.25
25	2000	2.86	7500	115	3.25
50	1410	2.86	10000	100	3.25
100	1000	2.86	15000	80	3.25
200	707	2.86	20000	70	3.25
250	630	2.86	25000	60	3.25
400	500	2.86	30000	50	3.58
500	447	2.86	40000	37	3.58
750	365	2.86	50000	30	3.58
1000	316	2.86	60000	25	3.90
1500	260	2.86	75000	20	3.90
2000	225	2.86	100000	15	3.90

ADJUSTABLE BANDS

Each Adjustohm Resistor is furnished with one Screw - Driver Type Adjustable Band Terminal (at right in illustration).



Additional band terminals are available. See list in the accompanying table.

Size of Resistor	Screw Driver Type		Bakelite Knob Type	
	Cat. No.	Price	Cat. No.	Price
10 Watts	507-685	\$0.13	507-691	...
25 Watts	507-688	.13	507-692	\$0.20
50 Watts	507-688	.13	507-693	.20
75 Watts	507-688	.13	507-693	.20
100 Watts	507-680	.20	507-695	.33
160 Watts	507-690	.20	507-695	.33
200 Watts	507-690	.20	507-695	.33

160 WATTS

Type 160A

Size—8 1/2" x 1 1/8" Mounting Centers—9 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	12650	\$4.68	3000	230	\$3.58
2	8940	4.36	3500	215	3.58
3	7300	4.03	4000	200	3.58
4	6320	3.77	4500	185	3.58
5	5650	3.58	5000	178	3.58
10	4000	3.58	7500	146	3.58
15	3265	3.58	10000	126	3.58
25	2525	3.58	15000	105	4.16
50	1785	3.58	20000	90	4.16
100	1265	3.58	25000	80	4.16
200	894	3.58	30000	67	4.16
250	800	3.58	40000	50	4.16
500	565	3.58	50000	40	4.16
1000	400	3.58	60000	33	4.55
1500	326	3.58	75000	26	4.55
2000	280	3.58	80000	25	4.55
2500	259	3.58	100000	20	4.55

200 WATTS

Type 200A

Size—10 1/2" x 1 1/8" Mounting Centers—11 1/4"

Ohms	Current m. a.	List Price	Ohms	Current m. a.	List Price
1	14140	\$5.59	4000	225	\$4.29
2	10000	5.20	4500	210	4.29
3	8160	4.88	5000	200	4.29
4	7070	4.55	7500	163	4.29
5	6320	4.29	10000	141	4.29
10	4470	4.29	15000	115	5.01
25	2825	4.29	20000	100	5.01
50	2000	4.29	25000	90	5.01
100	1414	4.29	30000	82	5.01
250	900	4.29	40000	62	5.01
500	632	4.29	50000	50	5.01
1000	447	4.29	60000	42	5.01
1500	365	4.29	75000	33	5.01
2000	315	4.29	100000	25	5.01
2500	282	4.29	125000	20	5.33
3000	260	4.29	150000	16	5.33
3500	240	4.29			

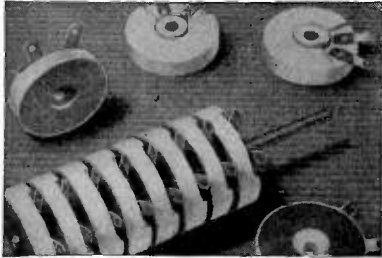


WARD LEONARD • VITROHM RESISTORS and RHEOSTATS

DISCOHM RESISTORS

18 WATTS

Type 18D



Discohms are flat refractory discs having resistance wire arranged to minimize the values of inductance and distributed capacitance.

Discohm Resistors are especially useful in equipments where space is limited and where a power resistor having low value of inductance and distributed capacitance is required.

They are mounted by means of a No. 8 wood screw or bolt through the countersunk hole cast in the refractory base. Two or more units can be mounted together to obtain various resistance values and watt ratings.

Discohm Resistors are rated at 18 watts with free ventilation. A single Resistor mounted on a panel should operate safely at 80% of the full watt rating or 90% of the full current rating.

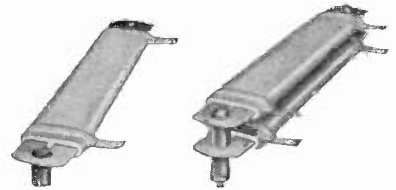
Ohms	Current m. a.	List Price
1.0	4240	\$1.95
1.6	3350	1.95
2.5	2680	1.95
4.0	2120	1.95
6.4	1680	1.95
10	1340	1.95
16	1060	1.95
25	850	1.95
40	670	2.21
64	530	2.21
100	420	2.21
160	335	2.34
250	268	2.34
400	212	2.34
640	168	2.34
1000	134	2.34
1600	106	2.34
2500	85	2.34
4000	67	2.34

VITROHM STRIP RESISTORS

Vitrohm Strip Resistors lend themselves readily to applications where space is limited, such as aircraft control circuits, radio instruments, and similar apparatus.

Vitrohm Strip Resistors are built on a strong flat reinforced core that has no sharp angular surfaces, providing a smooth continuous form of the resistance winding. The resistors are vitreous enamel coated.

Each unit is fitted with a self-sustained mounting bracket and spacer, the end pieces being riveted to a metal strip that passes through the core and serves as a conductor for the internal heat generated while the resistor is in service.



LENGTH (Inches)		RESISTANCE		Watt Rating
Resistor Body	Mounting Holes	Min. Ohms	Max. Ohms	
1 1/4	2	0.45	6,300	30
2	2 3/4	0.50	15,800	40
3 1/2	4 1/4	0.70	35,000	55
4 3/4	5 1/2	1.00	50,000	65
6	6 3/4	1.40	66,000	75

FLUORESCENT LAMP RESISTORS



Ward Leonard Fluorescent Lamp Resistors are designed for use in fluorescent lamps operating on direct current. They meet the requirements of lamp and fixture manufacturers and are listed as standard

by the Underwriters' Laboratories, Inc., and by the New York City Department of Water Supply, Gas and Electricity.

Ward Leonard Fluorescent Lamp Resistors are mounted in well-ventilated metal enclosures for installation on standard fixtures. They are made for use on 115-volt, 120-volt and 220-volt circuits and in various resistance values to meet the requirements of the lamps with which they are to be used.

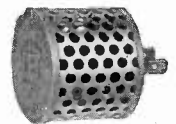
Long, flexible asbestos covered leads facilitate connections.

Plug-In Type

For Portable Fixtures

Ward Leonard also provides a Fluorescent Lamp Resistor in a metal enclosure for use with portable lamps operating on 120-volt circuits. It is fitted with a plug on one end for inserting into the line receptacle and a receptacle on the other end into which the plug on the figure is placed.

The Plug-In Resistor is made for use on 15-watt and 20-watt lamp fixtures.

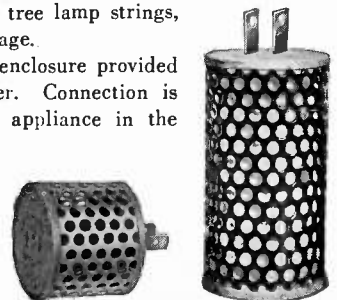


LINE VOLTAGE REDUCERS

Ward Leonard Line Voltage Reducers protect radio sets, soldering irons, Christmas tree lamp strings, and other electrical appliances within the ratings of the Reducers, from high line voltage.

Line Voltage Reducers consist of a resistor network encased in a perforated metal enclosure provided with standard parallel prongs on one end and a standard receptacle on the other. Connection is made by plugging the Reducer into a receptacle and then inserting the plug on the appliance in the receptacle on the enclosure.

Catalog Number	Length Inches	Resis. Ohms	Load	List Price
507-109	1 1/2	25.	For 35-65 watt 115 volt radio set on 115-140 volts. . .	\$2.28
507-109A	1 1/2	10.	For 65-130 watt 115 volt radio set on 115-140 volts. . .	2.28
507-109B	2 1/4	4.5	For 130-285 watt 115 volt radio set on 115-140 volts. . .	2.73
507-109H	5 1/4	300.	For 60-watt 115 volt radio set on 230 volts.	3.58





BALLAST TUBE FOR AUTOMATIC REGULATION OF CURRENT AND VOLTAGE



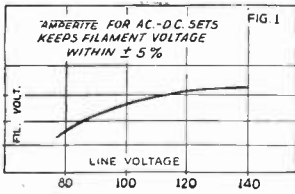
AMPERITE is an automatic rheostat designed to keep the current in a circuit at a definite value, for example, 0.5 amps. Should the supply voltage increase, the Amperite will automatically increase in resistance enough to take up the increase in supply voltage — keeping the voltage on the load constant.

PRICES: The proper AMPERITE Replacement may be determined by looking up the number under column "FOR" and noting corresponding Amperite in the column "USE AMPERITE". Numbers in "FOR" column run consecutively and then alphabetically.

★The letter code in the center column is interpreted as follows:

- a—For 110V. A.C.-D.C. Sets List Price \$1.25
- b—For 2V. Battery Sets 2.25
- c—For 110V. A.C. Sets 2.25
- h—For 220V. A.C.-D.C. Sets 2.25
- r—For 110V. A.C. Sets having 70-95V. Primary 1.25
- s—For special apparatus 3.00

A C.-D.C. SETS

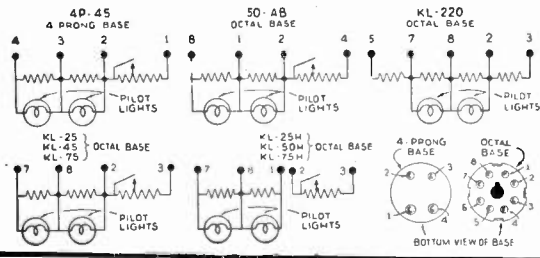


For A.C.-D.C. Sets
The Amperite Regulators are designed to pass only 0.3A through tube filaments. Filament voltages will be kept within ± 5% with line voltage variations of 85 to 140 volts. Due to the fact that Amperite is a real regulator, 2 types of Amperite with four prongs and 2 with octal bases will replace 150—90% of all—

so-called ballasts or resistors used in AC.-D.C. sets. No extra resistor required.

Pilot Lights—None, one or two of either 0.150A or 0.250A can be used with same Amperite. Should a pilot light burn out, the set will continue to operate properly without any damage to the Amperite, tubes or other parts. The patented starting resistor in the Amperite prevents overloading and premature burning-out of tubes and pilot lights. In some sets the ballast socket is purposely wired in such a way that the Pilot Light Resistors of standard ballasts would be burned out if inserted. In such sets special Amperites are required, as shown in table. Avoid burnouts—use proper Amperite.

BASE WIRING OF AMPERITES FOR A.C.-D.C. SETS



AMPERITES FOR 2-VOLT BATTERY SETS

Two-volt tube filaments are delicate and easily overloaded. Keeping the tube filaments at their proper voltage with a real regulator like Amperite invariably results in considerably more battery and tube life. The same Amperite can be used for dry cell, air cell, or 2 volt storage battery operation. The proper Amperite is determined by the total filament-current drain of the set, e.g.—for 0.5A use Amperite 5E1, etc.

REPLACEMENT REGULATORS—A.C.-D.C. SETS List \$1.25

Amperite No.	Amperite Numbers Shown Replace All A.C.-D.C. Ballasts		
	Starting With Letter	With Numbers From	Ending In
KL 25 # KL 45 KL 75	K, L, M or BK BL or BM	10 to 36 36 " 67 67 " 105	A, B, C, or D " "
KL 25H KL 50H KL 75H	K, L, M, or BK "	11 to 28 36 " 67 67 " 105	F, G, or H " "
KL 50S1 KL 50S2 KL 50S3	K or L "	40 to 100 36 " 67	S1 S2 S3
KL 50E	"	36 " 67	E

Except K18B, use Amperite K18B—4-Prong Base.

For	Use Amperite	For	Use Amperite	For	Use Amperite	For	Use Amperite
.0C2	a R300	3MR-253	a 3MR-253	9A10	c 9A10	397021	c 397021
03G	a 03G	3MZ-419	a 3MZ-419	9-20	r 9-20	40	a 3-40
038	r 11-20	3MZ419A	a 3MZ419A	9-150	c 9-150	40W	a 3-40
.042	b 5E1			9-220	c 9-220	40A2	a 4P45
		4	4	9M15822	c 9M15822	40B2	a 4P45
1-1	r 1-1	4-1	a 1G1	9M16534	c 9M16534	40X300	a 4P45
1A1	b 5E1	4A1	b 4A1	9V10	c 8A5	41-7E	s 41-7E
1A2	b 30	4A 10	b 4A10			42A	a 3-40
1A-10	s 1A-10	4-20	c 4-20	10-1	b 10-1	42A1	a 50AB
		4-150	r 4-150	10-4	s 10-4	42A2	a 50AB
1B1	b 3H1		c	10A 10	c 10A10	42B2	a 50AB
1B2	b 31	4-220	c 4-220	10A	a 10A	42HA	a
1C1	b 7H1	4H-1	b 4H-1	10AB	b 5H-1		
1C2	b 52			10V10	c 10V10		
1D1	b 2H-1	4SR311	a 4SR311	10-20	r 10-20	45W	a 4P45
1D2	b 1D2	4-TU-9	a KL-45	10-23A	a KL-25		
1E1	b 5E1			10-25	c 10-25	46A1	a 46A1
1E2	b 1E2	5	a 5	10-150	c 10-150	46B1	a 46B1
1F1	b 7-1	5B	a 3-40	10-220	c 10-220	49A	a 4P45
1G1	b 4-1	5-1	b 5E1	10-610	a 10-610	49A1	a 50AB
1H-1	b 1H-1	5A10	c 5A10			49A2	a 50AB
1J1	b 6-1	5-10	r 5-10	11A10	c 11A10	49B2	a 50AB
1K1	b 5H-1	5-16	c 5-16	11-20	r 11-20	50MG	a KL50S1
1L1	b 1L1	5-20	r 5-20			50W	a 4P45
1N1	b 1N1	5-150	c 5-150	12A10	c 12A10	50A2	a 4P45
1P1	b 1P1	5-220	c 5-220	12-20	r 12-20	50A2MG	a KL50S2
1Q1	b 1Q1			12-150	c 12-150	50B2	a 4P45
1R1	b 1R1	5E1	b 5E1	12-220	c 12-220	50B2MG	a KL50S1
1S1	b 1S1	5H-1	b 5H-1			50X3	a 4P45
1T1	b 1T1	5H-3	s 5H-3	13-4	s 13-4	50X3T	a 4P45
1U1	b 1U1	5H-10	c 5H-10	13A10	c 13A 10	50X300	a 4P45
1V1	b 5H-1	5H-20	r 5H-20	13-20	r 13-20		
1W1	b 1W1	5H-150	c 5H-150	14A10	c 14A 10	52	b 1C2
1Y1	b	5H-220	c 5H-220	14-20	r 14-20		
1Z1	b 9-1					55A	a KL45
		6	b 1F1	15A10	c 15A 10	55H	a KL50H
2	a 2	6-1	b 1J1	15-10	r 15-10	55LB	a L55B
2-1	b 2-1	6-3	s 6-3	15-10	r 15-20	55KB	a KL-45
2A10	c 2A10	6-4	s 6-4				
2CR-241	a KL-45	67A	s 67A	16A10	c 16A10	60-92A	a KL-75
2LR-212	a 50AB	61H6	s 6H6	17-2	s 17-2	60R30	a 60R30G
M2	s M2	6A10	s 2M2	17-3	s 17-3	60R30G	a 60R30G
2UR-215	a KL-45	5-11	s 6-11	17A470-	c 17A470-	64.23	
2UR-224	a KL-45	6-20	c 6-20	303	c 303	67A	a KL45
2H-1	b 1D1	6-150	c 6-150	17A485-	c 17A485-	69-2027	a 3-40
2H-2E	b 2H-2E	6-220	c 6-220	49	c 49	69-2028	b 3-220
2H-10	c 2H-10			17A485-	c 17A485-	69-2033	a KL-45
2H-20	r 2H-20	6AA	b 5E1	459	c 459	66-2037	a KL-45
2R67	b 2R67	6B	a 4P45	18-10	r 18-10		
		6.125	a KL-45J			70	r 70
		6.126	a KL-45J	20-1	s 20-1	75	a KL-75
3-1	a 3-1	6-128	a KL-45J	20-4	s 20-4	77-109	a 77-109
3-4	b 3-4	6-129	a KL-45J	20A5	c 20A5	77-126	a 77-126
3T4	s 3T4	6-130	a 6-130	20-10	r 20-10	77-127	a 77-127
3A10	c 3A10	6-133	a KL-45J	22-10	r 22-10	77-128	a 77-128
3-16	s 3-16	6-134	a	23-55A	a KL-45	77-181	a 77-181
3A20	s 3A20	6-135	a KL-45J	23-55F	a KL-50H	80	a 4P45
3-25	a 3-25			23-3	s 23-3	80R	a 80R
3-40	a 3-40	7	a 7	23-55A	a KL25	85L75CC	a 85L75CC
3-100	s 3-100	7-1	b 1F1	23-55B	a KL45		
3-150	c 3-150	7A10	c 7A10	23-55C	a KL45	90	r 90
3-220	h 3-220	7-20	c 7-20	23-55D	a KL45	95K2	a KL-45
				24-4	s 24-4	98	r 9-20
3CR-241	a KL-45	8	a 4P45			100	r 9-20
3ER-248	a KL-45J	8-1	b 8-1	30	b 1A2	100 R8	a 4P45
3FR-249	b 3ER-249	8A10	c 8A10	30A	a 3-25	100-33	a KL-50H
3H-1	b 1H-1	8-20	r 8-20	31	b 1B2	100-37	a KL-25
3H-2E	b 3H-2E	8-150	c 8-150	32	a KL-50H	100-38	a KL-45J
3H-10	b 3H-10	8-220	c 8-220	33AG	a KL-25	100-46	a 100-46
3H-20	c 3H-20			33-310	a 3,6D5	100-47	a 100-47
3H-150	c 3H-150	9	a 4P45	36A	a KL-25		
3H-220	c 3H-220	9-1	b 1Z1				

(Continued on next page)

RESISTORS by RESISTORS, INC.



Chicago 16, Illinois

Resistors by RESISTORS, INC. — the choice of engineers and hams alike — enjoy wide acceptance because they are wound right — rated right — merchandised right. The complete range of fixed and adjustable resistors assures you maximum profits and service. Resistors are attractively

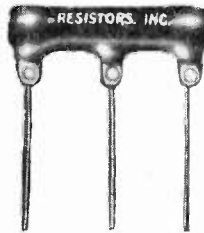
packaged for eye appeal, a decided sales aid. Silver soldered connections — selected materials — precision fabrication. RESISTORS' Resistors are designed and produced under close personal supervision.

FIXED RESISTORS



5 WATT
TYPE 1 1/4 F - FIXED
1 thru 10,000 Ohms
\$.50

10 WATT
TYPE 1 3/4 M - FIXED
1 thru 50,000 Ohms
\$.56



10 WATT
TYPE 1 3/4 M - CENTER TAPPED
10 to 200 Ohms
\$.72

Prices do not include mounting brackets



20 WATT - TYPE 2K - FIXED
1 thru 15,000 Ohms..... \$.91
20,000 thru 50,000 Ohms..... 1.07
*60,000 thru 100,000 Ohms..... 1.42

25 WATT - TYPE 2B - FIXED
1 thru 5,000 Ohms..... \$1.04
6,000 thru 15,000 Ohms..... 1.17
20,000 thru 50,000 Ohms..... 1.42
*60,000 Ohms..... 1.63
*70,000 thru 80,000 Ohms..... 1.82
*100,000 Ohms..... 2.47

50 WATT - TYPE 4 1/2 C - FIXED
1 thru 5,000 Ohms..... \$1.56
6,000 thru 25,000 Ohms..... 1.77
30,000 thru 80,000 Ohms..... 2.05
100,000 Ohms..... 2.08

80 WATT - TYPE 6 1/2 C - FIXED
1 thru 5,000 Ohms..... \$1.95
6,000 thru 25,000 Ohms..... 2.28
30,000 thru 50,000 Ohms..... 2.60
60,000 thru 100,000 Ohms..... 2.93

100 WATT - TYPE 6 1/2 R - FIXED
1 thru 5,000 Ohms..... \$2.13
6,000 thru 25,000 Ohms..... 2.48
30,000 thru 50,000 Ohms..... 2.85
60,000 thru 80,000 Ohms..... 3.20
100,000 Ohms..... 3.55

160 WATT - TYPE 8 1/2 R - FIXED
1 Ohm..... \$3.77
2 Ohm..... 3.41
3 Ohm..... 3.02
4 Ohm..... 3.06
5 thru 10,000 Ohms..... 2.85
12,000 thru 50,000 Ohms..... 3.41
60,000 thru 100,000 Ohms..... 3.84

200 WATT - TYPE 10 1/2 R - FIXED
1 Ohm..... \$4.68
2 Ohm..... 4.33
3 Ohm..... 3.98
4 Ohm..... 3.77
5 thru 10,000 Ohms..... 3.58
12,000 thru 100,000 Ohms..... 4.26

*Supplied with low temperature coating. Vitreous enamel coating at higher prices.

20 WATT to 200 WATT inclusive, listed above, supplied with mounting brackets.

PRICES SUBJECT TO CHANGE WITHOUT NOTICE

ADJUSTABLE RESISTORS

(Supplied with mounting brackets)



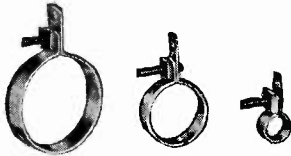
10 WATT - TYPE 1 3/4 MA - ADJUSTABLE	
1 thru 10,000 Ohms.....	\$.85
25 WATT - TYPE 2BA - ADJUSTABLE	
1 thru 5,000 Ohms.....	\$1.21
6,000 thru 15,000 Ohms.....	1.35
20,000 thru 25,000 Ohms.....	1.56
50 WATT - TYPE 4 1/2 CA - ADJUSTABLE	
1 thru 5,000 Ohms.....	\$1.91
6,000 thru 25,000 Oms.....	2.13
30,000 thru 50,000 Ohms.....	2.42
60,000 thru 100,000 Ohms.....	2.86
80 WATT - TYPE 6 1/2 CA - ADJUSTABLE	
1 thru 5,000 Ohms.....	\$2.48
6,000 thru 25,000 Ohms.....	2.85
30,000 thru 50,000 Ohms.....	3.20
60,000 thru 100,000 Ohms.....	3.55

100 WATT - TYPE 6 1/2 RA - ADJUSTABLE	
1 thru 5,000 Ohms.....	\$2.85
6,000 thru 25,000 Ohms.....	3.20
30,000 thru 50,000 Ohms.....	3.55
60,000 thru 100,000 Ohms.....	3.90

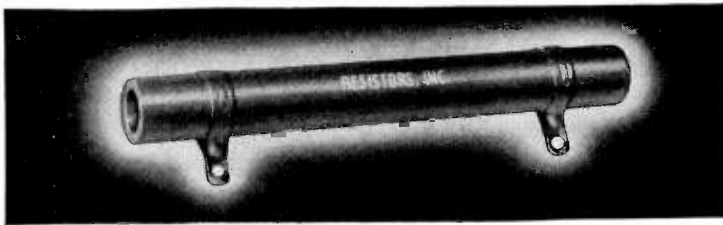
160 WATT - TYPE 8 1/2 RA - ADJUSTABLE	
1 Ohm.....	\$4.68
2 Ohm.....	4.33
3 Ohm.....	3.98
4 Ohm.....	3.77
5 thru 10,000 Ohms.....	3.55
12,000 thru 50,000 Ohms.....	4.12
60,000 thru 100,000 Ohms.....	4.55

200 WATT - TYPE 10 1/2 RA - ADJUSTABLE	
1 Ohm.....	\$5.47
2 Ohm.....	5.19
3 Ohm.....	4.84
4 Ohm.....	4.55
5 thru 10,000 Ohms.....	4.26
12,000 thru 100,000 Ohms.....	4.98

STANDARD ADJUSTABLE LUG — SCREW DRIVER TYPE



For 10 Watt.....	\$.13
For 25 Watt.....	.13
For 50 and 80 Watt.....	.20
For 100, 160 and 200 Watt.....	.20

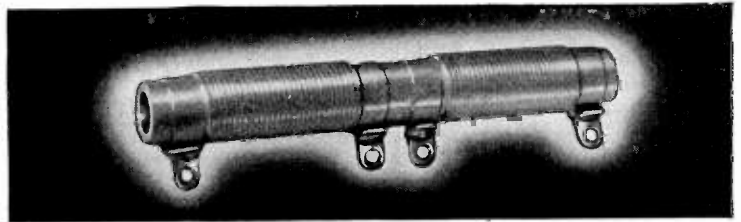


R. F. PLATE CHOKES

Type L-1.....	\$.33
Type L-2.....	1.04
Type L-3.....	1.56
Type L-4.....	2.15

POWER LINE CHOKES

Type L-10.....	\$2.15
Type L-11.....	3.58
Type L-12.....	5.20



MOUNTING BRACKETS		
No.	Use with Resistor Type	I. D. of Tube
2	M	3/16"
4	E, K, B, BG	5/16"
6	C	1/2"
8	H. R	3/4"



CENTERING WASHERS	
Type No.	I. D. of Tube
1	3/16"
2	5/16"
3	1/2"
4	3/4"

Manufactured by RESISTORS, INC., Chicago 16, Illinois



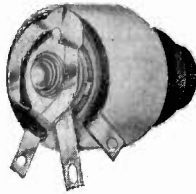
HARDWICK-HINDLE INC.



VITREOUS ENAMELED RHEOSTATS INSULATED SHAFTS and MOUNTING BUSHINGS



TYPE 2462-F—Designed for relatively low wattage requirements. Resistance wire is wound upon a heat resisting phenolic strip. The wound strip is rigidly attached to a refractory base. Contact arm of beryllium copper—gives uniform pressure, smooth action and long life.



TYPE M (Style 2879-3TC)—Rugged and compact. Has exceptional heat dissipation. Resistance wire is wound on a pure mica form, in a refractory base and embedded in vitreous enamel, bonding winding and base together. A small area of winding is free of enamel for contact purposes. Smooth action metallic contactor.



TYPES B-50, C-100, D-150, E-300 and F-500 embody the latest developments. Contact system separates current handling and contact pressure. Copper-graphite contact brush in porcelain holder travels on inside of winding. Wound ring and contact system assembled to metal base—gives great rigidity, lower panel temperatures.

TABLES OF SIZES AND RATINGS OF RHEOSTATS

TYPE 2462-F—10 W. RHEOSTAT				TYPE M—25 WATT RHEOSTAT				TYPE B—50 WATT RHEOSTAT				TYPE C—100 WATT RHEOSTAT			
Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price
0101	1	3.16	\$3.85	0201	0.50	7.06	\$4.90	0301	0.50	10.0	\$6.50	0401	0.50	14.2	\$9.75
0102	1.5	2.58	3.85	0202	0.75	5.77	4.90	0302	0.75	8.16	6.50	0402	0.75	11.6	9.75
0103	2.5	2.00	3.85	0203	1.0	5.00	4.90	0303	1.0	7.06	6.50	0403	1.0	10.0	9.75
0104	5	1.42	3.85	0204	1.5	4.08	4.20	0304	1.5	5.77	6.50	0404	1.5	8.16	9.75
0105	7.5	1.16	3.85	0205	2.5	3.16	4.20	0305	2.5	4.48	5.85	0405	2.5	6.34	9.75
0106	10	1.00	3.85	0206	5.0	2.22	4.20	0306	5.0	3.16	5.85	0406	5.0	4.48	9.75
0107	15	0.815	3.85	0207	7.5	1.82	4.20	0307	7.5	2.58	5.85	0407	7.5	3.66	9.10
0108	25	0.634	3.85	0208	10	1.58	4.20	0308	10	2.22	5.85	0408	10	3.16	9.10
0109	50	0.448	3.85	0209	15	1.29	4.20	0309	15	1.82	5.85	0409	15	2.58	9.10
0110	75	0.366	3.85	0210	25	1.00	4.20	0310	25	1.41	5.85	0410	25	2.00	9.10
0111	100	0.316	3.85	0211	50	0.706	4.20	0311	50	1.00	5.85	0411	50	1.42	9.10
0112	150	0.258	3.85	0212	75	0.577	4.20	0312	75	0.816	5.85	0412	75	1.16	9.10
0113	250	0.200	3.85	0213	100	0.500	4.20	0313	100	0.706	5.85	0413	100	1.00	9.10
0114	500	0.142	3.85	0214	150	0.408	4.20	0314	150	0.577	5.85	0414	150	0.816	9.10
0115	750	0.116	3.85	0215	250	0.316	4.20	0315	250	0.488	5.85	0415	250	0.634	9.10
0116	1000	0.100	3.92	0216	500	0.222	4.20	0316	500	0.316	5.85	0416	500	0.448	9.10
0117	1500	0.081	3.92	0217	750	0.182	4.20	0317	750	0.258	6.18	0417	750	0.366	9.10
0118	2500	0.073	3.92	0218	1000	0.158	4.90	0318	1000	0.222	6.18	0418	1000	0.316	9.75
				0219	1500	0.129	4.90	0319	1500	0.182	6.18	0419	1500	0.258	9.75
				0220	2500	0.100	4.90	0320	2500	0.141	6.18	0420	2500	0.200	9.75
				0221	5000	0.070	4.90	0321	5000	0.100	6.50	0421	5000	0.141	10.40
								0322	7500	0.082	6.50	0422	7500	0.115	11.05
								0323	10000	0.070	6.50	0423	10000	0.100	11.70

*Thru all or any part of winding. Diameter: 1 3/4". Depth Behind Panel: 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 1 3/8". Depth Behind Panel: 1 3/8". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 2 1/4". Depth Behind Panel: 1". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 3/16".

*Thru all or any part of winding. Diameter: 3 1/8". Depth Behind Panel: 1 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 1/4".

TYPE D—150 WATT RHEOSTAT				TYPE E—300 WATT RHEOSTAT				TYPE F—500 WATT RHEOSTAT			
Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price	Stock No.	Total Ohms	Max. Amps.*	List Price
0501	0.50	15.00	\$12.35	0601	1.0	17.25	\$17.55	0701	1.0	22.3	\$25.35
0502	0.75	14.10	12.35	0602	1.5	14.15	17.55	0702	1.5	18.2	25.35
0503	1.00	12.25	12.35	0603	2.5	10.95	17.55	0703	2.5	14.1	25.35
0504	1.5	10.00	12.35	0604	5.0	7.75	17.55	0704	5.0	10.0	25.35
0505	2.5	7.75	12.35	0605	7.5	6.32	17.55	0705	7.5	8.17	25.35
0506	5.0	5.48	12.35	0606	10	5.48	17.55	0706	10	7.07	25.35
0507	7.5	4.47	12.35	0607	15	4.47	17.55	0707	15	5.77	25.35
0508	10	3.88	11.70	0608	25	3.46	17.55	0708	25	4.47	25.35
0509	15	3.16	11.70	0609	50	2.45	17.55	0709	50	3.16	25.35
0510	25	2.45	11.70	0610	75	2.00	17.55	0710	75	2.58	25.35
0511	50	1.73	11.70	0611	100	1.73	17.55	0711	100	2.23	25.35
0512	75	1.41	11.70	0612	150	1.41	17.55	0712	150	1.82	25.35
0513	100	1.22	11.70	0613	250	1.09	17.55	0713	250	1.41	25.35
0514	150	1.00	11.70	0614	500	0.775	17.55	0714	500	1.00	25.35
0515	250	0.775	11.70	0615	750	0.633	17.55	0715	750	.817	25.35
0516	500	0.548	11.70	0616	1000	0.548	17.55	0716	1000	.707	25.35
0517	750	0.447	12.35	0617	1500	0.449	17.55	0717	1500	.577	25.35
0518	1000	0.388	12.35	0618	2500	0.346	17.55	0718	2500	.447	25.35
0519	1500	0.316	12.35								
0520	2500	0.245	13.00								
0521	5000	0.173	13.65								
0522	7500	0.141	14.30								
0523	10000	0.122	15.60								

*Thru all or any part of winding. Diameter: 4". Depth Behind Panel: 1 3/4". Mounting: Single 3/8" Diameter Hole. Standard Bushing for Panels up to 1/4" or 2 6-32 Screws, Each 7/8" from Center of Shaft.

*Thru all or any part of winding. Diameter: 6". Depth Behind Panel: 2 1/4". Mounting: 2 1/4-20 Screws, Each 1-3/16" from Center of Shaft.

*Thru all or any part of the winding. Diameter: 8". Depth Behind Panel: 2 1/2". Mounting: 2 1/4-20 Screws, Each 1 1/2" from Center of Shaft.

RATING—CURRENT RATINGS SHOWN FOR ALL RHEOSTATS ARE FOR USE IN FREE AIR. WHEN UNITS ARE ENCLOSED VALUES SHOULD BE REDUCED ABOUT 50%.

DATA ON NON-STOCK RHEOSTATS—SPECIAL SHAFTS AND BUSHINGS; VALUES INTERMEDIATE TO THOSE LISTED; TAPERED WINDINGS; TANDEM ASSEMBLIES, ETC., FURNISHED UPON REQUEST.



HARDWICK-HINDLE INC.



FIXED VITREOUS ENAMELED RESISTORS WITH MOUNTING BRACKETS

Five stock sizes fill a great variety of applications.

Ratings are in accordance with NEMA standards, being based on a temperature rise of 250° C. in free air.

Data on types, sizes and values not listed herein, and for resistors with intermediate taps, special mountings, etc., furnished upon request.



TABLE OF RATINGS

25 WATT SIZE Type 2P5 2" Long x 5/8" O.D. Mounting Centers 2 1/2"			40 WATT SIZE Type 3 1/2 L5 3 1/2" Long x 3/4" O.D. Mounting Centers 4"			80 WATT SIZE Type 6 1/2 L5 6 1/2" Long x 3/4" O.D. Mounting Centers 7"			160 WATT SIZE Type 8 1/2 FX5 8 1/2" Long x 1 1/8" O.D. Mounting Centers 9 3/8"			200 WATT SIZE Type 10 1/2 FX5 10 1/2" Long x 1 1/8" O.D. Mounting Centers 11 3/8"		
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
1001	5	\$.80	2001	5	\$1.37	3001	5	\$2.03	4001	5	\$3.47	5001	5	\$3.75
1002	10	.80	2002	10	1.37	3002	10	2.03	4002	10	2.48	5002	10	2.70
1003	25	.80	2003	25	1.37	3003	25	2.03	4003	25	2.48	5003	25	2.70
1004	50	.80	2004	50	1.37	3004	50	2.03	4004	50	2.48	5004	50	2.70
1005	75	.80	2005	75	1.37	3005	75	2.03	4005	75	2.48	5005	75	2.70
1006	100	.80	2006	100	1.37	3006	100	2.03	4006	100	2.48	5006	100	2.70
1007	150	.80	2007	150	1.37	3007	150	2.03	4007	150	2.48	5007	150	2.70
1008	200	.80	2008	200	1.37	3008	200	2.03	4008	250	2.48	5008	250	2.70
1009	250	.80	2009	250	1.37	3009	1000	2.03	4009	500	2.48	5009	500	2.70
1010	500	.80	2010	500	1.37	3010	1500	2.08	4010	750	2.48	5010	750	2.70
1011	750	.80	2011	750	1.37	3011	2000	2.08	4011	1000	2.48	5011	1000	2.70
1012	1000	.80	2012	1000	1.37	3012	2500	2.08	4012	1500	2.53	5012	1500	2.75
1013	1500	.86	2013	1500	1.45	3013	3000	2.08	4013	2000	2.53	5013	2000	2.75
1014	2000	.86	2014	2000	1.45	3014	4000	2.08	4014	2500	2.53	5014	2500	2.75
1015	2500	.86	2015	2500	1.45	3015	5000	2.08	4015	3000	2.53	5015	3000	2.75
1016	3000	.86	2016	3000	1.45	3016	7500	2.25	4016	5000	2.53	5016	5000	2.75
1017	3500	.86	2017	4000	1.45	3017	10000	2.25	4017	7500	2.75	5017	7500	2.95
1018	4000	.86	2018	5000	1.45	3018	15000	2.47	4018	10000	2.75	5018	10000	2.95
1019	5000	.86	2019	7500	1.58	3019	20000	2.47	4019	15000	2.95	5019	15000	3.13
1020	6000	.94	2020	10000	1.58	3020	25000	2.67	4020	20000	2.95	5020	20000	3.13
1021	7500	.94	2021	12500	1.75	3021	30000	2.67	4021	25000	3.03	5021	25000	3.25
1022	10000	.94	2022	15000	1.75	3022	35000	2.67	4022	30000	3.03	5022	30000	3.25
1023	12000	1.00	2023	20000	1.75	3023	40000	2.67	4023	40000	3.03	5023	40000	3.25
1024	15000	1.00	2024	25000	1.95	3024	50000	2.81	4024	50000	3.13	5024	50000	3.36
1025	20000	1.00	2025	35000	1.95	3025	60000	2.81	4025	75000	3.36	5025	75000	3.55
1026	25000	1.13	2026	50000	2.14	3026	75000	3.00	4026	100000	3.55	5026	100000	3.75

ADJUSTABLE VITREOUS ENAMELED RESISTORS WITH MOUNTING BRACKETS

Embodying features originated by Hardwick, Hindle, Inc., resulting in a Resistor possessing the many advantages of Vitreous Enamel Construction, plus an adjustable feature.

The winding is closely and evenly spaced, assuring ample insulation between turns. Where the winding appears exposed in the track, its underside is tightly embedded in the enamel, the upper surface only being exposed for contact with the adjustable band.

All sizes of Adjustable Resistors listed herein are furnished complete with mounting brackets and with one adjustable contact band.



TABLE OF RATINGS

25 WATT SIZE Type K-25 2" Long x 5/8" O.D. Mount. Centers 2 1/2"		50 WATT SIZE Type K-50 4 1/2" Lng. x 5/8" O.D. Mount. Centers 5"		75 WATT SIZE Type K-75 6" Long x 5/8" O.D. Mount. Centers 6 1/2"		100 WATT SIZE Type K-100 6 1/2" Lng. x 1 1/8" O.D. Mount. Centers 7 3/8"		160 WATT SIZE Type K-160 8 1/2" Lng. x 1 1/8" O.D. Mount. Centers 9 3/8"		200 WATT SIZE Type K-200 10 1/2" Lng. x 1 1/8" O.D. Mount. Centers 11 3/8"	
Stock No.	List Price	Stock No.	List Price	Stock No.	List Price	Stock No.	List Price	Stock No.	List Price	Stock No.	List Price
6001	1 \$1.56	7001	5 \$1.97	8001	5 \$2.27	9001	5 \$2.97	9030	5 \$4.45	9060	5 \$4.72
6002	2 1.56	7002	10 1.97	8002	10 2.27	9002	10 2.97	9031	10 3.45	9061	10 3.64
6003	3 1.56	7003	25 1.97	8003	15 2.27	9003	25 2.97	9032	25 3.45	9062	25 3.64
6004	5 1.56	7004	50 1.97	8004	25 2.27	9004	50 2.97	9033	50 3.45	9063	50 3.64
6005	10 1.56	7005	75 1.97	8005	50 2.27	9005	100 2.97	9034	100 3.45	9064	100 3.64
6006	20 1.56	7006	100 1.97	8006	100 2.27	9006	250 2.97	9035	250 3.45	9065	250 3.64
6007	25 1.56	7007	200 1.97	8007	200 2.27	9007	500 2.97	9036	500 3.45	9066	500 3.64
6008	50 1.56	7008	250 1.97	8008	300 2.27	9008	1000 2.97	9037	1000 3.45	9067	1000 3.64
6009	75 1.56	7009	300 1.97	8009	400 2.27	9009	1500 3.05	9038	1500 3.50	9068	2500 3.70
6010	100 1.56	7010	400 1.97	8010	500 2.27	9010	2500 3.05	9039	2500 3.50	9069	5000 3.70
6011	200 1.56	7011	500 1.97	8011	750 2.27	9011	5000 3.05	9040	5000 3.50	9070	10000 3.92
6012	300 1.56	7012	750 1.97	8012	1000 2.27	9012	10000 3.22	9041	10000 3.70	9071	15000 4.12
6013	400 1.56	7013	800 1.97	8013	1500 2.36	9013	15000 3.42	9042	15000 3.92	9072	20000 4.12
6014	500 1.56	7014	1000 1.97	8014	2000 2.36	9014	20000 3.42	9043	20000 3.92	9073	25000 4.20
6015	750 1.56	7015	1500 2.05	8015	2500 2.36	9015	25000 3.64	9044	25000 4.00	9074	30000 4.20
6016	800 1.56	7016	2000 2.05	8016	3000 2.36	9016	30000 3.64	9045	30000 4.00	9075	40000 4.20
6017	1000 1.56	7017	2500 2.05	8017	4000 2.36	9017	40000 3.64	9046	40000 4.00	9076	50000 4.30
6018	1250 1.58	7018	3000 2.05	8018	5000 2.36	9018	50000 3.78	9047	50000 4.12	9077	75000 4.53
6019	1500 1.58	7019	4000 2.05	8019	6000 2.50	9019	75000 3.97	9048	75000 4.30	9078	100000 4.72
6020	2000 1.58	7020	5000 2.05	8020	7000 2.50	9020	100000 4.13	9049	100000 4.53		
6021	2500 1.58	7021	6000 2.19	8021	7500 2.50						
6022	3000 1.58	7022	7000 2.19	8022	10000 2.50						
6023	3500 1.58	7023	7500 2.19	8023	15000 2.65						
6024	4000 1.58	7024	8000 2.19	8024	20000 2.65						
6025	5000 1.58	7025	9000 2.19	8025	25000 2.92						
6026	6000 1.70	7026	10000 2.19	8026	30000 2.92						
6027	7000 1.70	7027	12000 2.36	8027	40000 2.92						
6028	8000 1.70	7028	15000 2.36	8028	50000 3.00						
6029	10000 1.70	7029	20000 2.36	8029	60000 3.00						
6030	15000 1.75	7030	25000 2.55	8030	80000 3.28						
6031	20000 1.75	7031	30000 2.55	8031	100000 3.61						
6032	25000 1.89	7032	40000 2.55								
		7033	50000 2.75								

ADJUSTABLE CONTACT BANDS

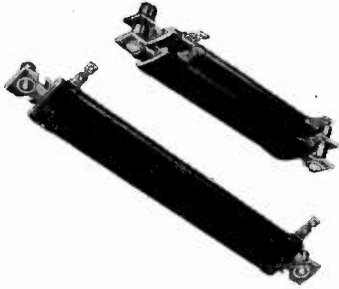
SCREW TYPE	Diameter of Resistor	Stock No.	List Price
	BAKELITE TYPE KNOB	5/8"	1791-6	.20
1 1/8"		1793-4	.25
BAKELITE TYPE KNOB	5/8"	1791-6-X	.30
	1 1/8"	1793-4-X	.40



HARDWICK-HINDLE INC.



BLUE RIBBON RESISTORS



The standard method of mounting Blue Ribbon Resistors is by means of an aluminum thru-bar, which is in intimate contact with the entire internal surface of the ceramic core. The presence of this thru-bar distributes the heat generated by the Resistor uniformly along its entire length, substantially spreading the hot spot normally encountered in tubular resistors with conventional mounting. Mounting studs riveted to the ends of the thru-bar further tend to conduct the heat to the mounting surfaces. These mounting studs are also designed to act as spacers when two or more units are stacked.

In comparison with tubular units of equivalent wattage rating Blue Ribbon Resistors have the following advantages: Higher wattage rating per unit space requirement. Substantial reduction in depth behind mounting surface. Ease and economy of mounting—either singly or stacked. Lower inductance. Light weight. Resistor and mounting integral unit; cannot rotate or become loose.

TABLE OF RATINGS

TYPE 1 1/4" B 30 Watt Rating* Mounting Centers 2"			TYPE 2" B 40 Watt Rating* Mounting Centers 2 3/4"			TYPE 3 1/2" B 55 Watt Rating* Mounting Centers 4 1/4"			TYPE 6" B 75 Watt Rating* Mounting Centers 6 3/4"		
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
B101	5	\$1.53	B201	5	\$1.61	B301	5	\$1.85	B601	5	\$2.30
B102	10	1.53	B202	10	1.61	B302	10	1.85	B602	10	2.30
B103	15	1.53	B203	15	1.61	B303	15	1.85	B603	15	2.30
B104	25	1.53	B204	25	1.61	B304	25	1.85	B604	25	2.30
B105	50	1.53	B205	50	1.61	B305	50	1.85	B605	50	2.30
B106	100	1.53	B206	100	1.61	B306	100	1.85	B606	100	2.30
B107	150	1.53	B207	150	1.61	B307	150	1.85	B607	150	2.30
B108	250	1.53	B208	250	1.61	B308	250	1.85	B608	250	2.30
B109	500	1.53	B209	500	1.61	B309	500	1.85	B609	500	2.30
B110	1000	1.53	B210	1000	1.61	B310	1000	1.85	B610	1000	2.30
B111	1500	1.53	B211	1500	1.61	B311	1500	1.85	B611	1500	2.30
B112	2500	1.53	B212	2500	1.61	B312	2500	1.85	B612	2500	2.30
B113	5000	1.65	B213	5000	1.72	B313	5000	1.96	B613	5000	2.41
B114	10000	1.65	B214	10000	1.93	B314	10000	2.17	B614	10000	2.61
			B215	15000	2.02	B315	15000	2.26	B615	15000	2.70
						B316	25000	2.48	B616	25000	2.93
									B617	50000	3.30

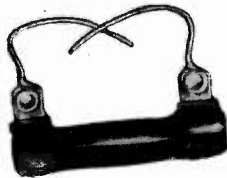
*This rating based on a maximum temperature rise of 250 degrees C. with the Resistor mounted horizontally on a 10" x 10" x .040" steel plate supported horizontally 1/2" above a wooden surface.

When Resistors are mounted on a non-metallic base the nominal watt rating should be reduced by approximately 15%.

All stock numbers in each type listed above are available with adjustable feature complete with one movable contact band.

10 and 20 WATT FIXED VITREOUS ENAMELED RESISTORS

Designed particularly for radio service and replacement use—conservatively rated—wound upon Steatite Tube—combination lug and pigtail terminal connections—Hardwick, Hindle vitreous



enamel insulation, insuring permanence of value and proof against moisture. 10 watt and 20 watt sizes available in the range of resistance values shown.

TABLE OF RATINGS

10 WATT 1 3/4" Long x 3/8" O.D.			20 WATT 2" Long x 1/2" O.D.								
Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price	Stock No.	Ohms	List Price
A101	1	\$.58	A119	1500	\$.63	A201	5	\$.75	A219	4000	\$.78
A102	3	.58	A120	2000	.63	A202	10	.75	A220	5000	.78
A103	5	.58	A121	2500	.63	A203	25	.75	A221	6000	.88
A104	7.5	.58	A122	3000	.63	A204	50	.75	A222	7500	.88
A105	10	.58	A123	4000	.63	A205	75	.75	A223	10000	.88
A106	15	.58	A124	5000	.63	A206	100	.75	A224	12500	.94
A107	25	.58	A125	7500	.72	A207	150	.75	A225	15000	.94
A108	50	.58	A126	10000	.72	A208	200	.75	A226	25000*	1.08
A109	75	.58	A127	12500*	.80	A209	250	.75	A227	35000*	1.08
A110	100	.58	A128	15000*	.80	A210	400	.75	A228	40000*	1.08
A111	150	.58	A129	20000*	.80	A211	500	.75	A229	50000*	1.25
A112	200	.58	A130	25000*	.86	A212	750	.75	A230	60000*	1.25
A113	250	.58	A131	30000*	.97	A213	1000	.75	A231	70000*	1.46
A114	400	.58	A132	35000*	.97	A214	1250	.78	A232	75000*	1.46
A115	500	.58	A133	40000*	.97	A215	1500	.78	A233	80000*	1.46
A116	750	.58	A134	45000*	.97	A216	2000	.78	A234	90000*	1.69
A117	1000	.58	A135	50000*	.97	A217	2500	.78	A235	100000*	1.69
A118	1250	.63				A218	3000	.78			

* Low Temperature Enamel.

* Low Temperature Enamel.

MADE TO ORDER PRODUCTS

In addition to the standard line of resistor and rheostat products, which are in stock for immediate shipment, Hardwick, Hindle, Inc., is always pleased to receive orders for made to order products, such as, Non-inductive vitreous enameled resistors, Radio frequency chokes, Power line chokes and Soldering Iron controls. Non-inductive resistors are available in three standard sizes; 25,

50 and 100 watt.

Radio frequency chokes and Power line chokes are also available in three standard sizes.

Soldering iron controls and Photographic lamp controls are made to order in ten different sizes.

Data on the above products can be furnished upon request.

Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

ALPHA WIRE PRODUCTS



CONSTRUCTION: Single conductor, extra flexible stranded tinned copper, cotton serve, insulated with special low loss SIC rubber compound, braided tinned copper shield, cotton serve, tough black rubber jacket overall.

CRYSTAL MICROPHONE CABLE

GENERAL PURPOSE: Low loss design for use with crystal, ribbon, dynamic and velocity microphones, photo-electric cells. Use No. 1248 FOR LAPEL MICROPHONES and phonograph pickups.

No.	Put-up	Size	Strand	Mox. Capacity Per Ft. Between Cond. & Shield	O.D.
1248	100 Ft. Spool	20	26/34	40 mmf.	.175"
1249	100 Ft. Spool	20	26/34	30 mmf.	.245"



CONSTRUCTION: Each conductor flexible stranded tinned copper, cotton wrap, 1/64" "Hi-Tension" low capacity rubber, color coded, conductors twisted, cushioned with cotton fillers, braided tinned copper shield, cotton wrap, tough black rubber jacket overall.

SHIELDED MICROPHONE CABLE

GENERAL PURPOSE: Adaptable for all indoor and outdoor crystal, carbon and condenser microphones as well as public address systems.

No.	Put-up	Size	Conduc-tors	Mox. Capacity Per Ft. Between Cond. & Shield	Conds.	O.D.
1250	100 Ft. Spool	20	2	70 mmf.	38 mmf.	.270"
1250/18	100 Ft. Spool	18	2	75 mmf.	40 mmf.	.300"
1251	100 Ft. Spool	20	3	65 mmf.	38 mmf.	.305"
1252	100 Ft. Spool	20	4	65 mmf.	36 mmf.	.345"
1253	100 Ft. Spool	20	5	60 mmf.	32 mmf.	.350"
1254	100 Ft. Spool	20	6	60 mmf.	30 mmf.	.375"
1255	100 Ft. Spool	20	7	60 mmf.	30 mmf.	.380"
1255/8	100 Ft. Spool	20	8	60 mmf.	30 mmf.	.400"



CONSTRUCTION: Each conductor No. 20-10/30 stranded tinned copper, 1/64" rubber, color coded cotton braid, conductors twisted, tinned copper shield overall.

SHIELDED MULTIPLE CONDUCTOR CABLE

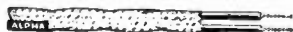
GENERAL PURPOSE: For indoor permanent or portable P.A. systems, photo electric cell circuits, sound recording and auto radios.

No.	Put-up	Conduc-tors	Moximum Copcity Per Ft. Between Cond. & Shield	Conds.	O.D.
1256	100 Ft. Spool	2	60.5 mmf.	32 mmf.	.215"
1257	100 Ft. Spool	3	54.0 mmf.	29 mmf.	.240"
1258	100 Ft. Spool	4	48.0 mmf.	26 mmf.	.270"

1262—1263—1264—Same specifications except with cotton braid over shield.

COTTON BRAID OVER SHIELD

1262	100 Ft. Spool	2	60.5 mmf.	32 mmf.	.225"
1263	100 Ft. Spool	3	54.0 mmf.	29 mmf.	.245"
1264	100 Ft. Spool	4	48.0 mmf.	26 mmf.	.275"



CONSTRUCTION: Two conductors twisted, each #24 16/36 tinned copper, .015" vinyl insulation, color coded, very fine tinned copper shield overall.

SHIELDED TWISTED PAIR CABLE

GENERAL PURPOSE: Where small diameter is required for sound recording, photo electric cell circuits, public address systems, etc.

No.	Put-up	Conductors	O.D.
1261	1000 Ft. Spool	2	.115"

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS

SHIELDED DUPLEX SPEAKER CABLE

GENERAL PURPOSE: For P.A. systems, photo-electric cell circuits, master control sound systems, etc.

TINNED SHIELD OVERALL

No.	Put-Up	Conductors	Maximum Capacity Per Ft. Between		O.D.
			Cond. & Shield	Conds.	
1265	500 Ft. Spool	2	65 mmf.	23 mmf.	.250"

WAXED COTTON BRAID OVER SHIELD

1266	500 Ft. Spool	2	65 mmf.	23 mmf.	.280"
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CONSTRUCTION: Two conductors twisted, each No. 18-16/30 stranded tinned copper, 1/32" "Hi-Tension" rubber, color coded, paper wrap over both conductors, close tinned copper shield overall.

CONSTRUCTION: Same as #1265 except with waxed cotton braid over shield.

SHIELDED TRANSMISSION LINE

GENERAL PURPOSE: For inter-communication, short wave, P.A. systems, etc.

TINNED SHIELD OVERALL

No.	Put-up	Max. Capacity Per Ft.	O.D.
1267	500 Ft. Spool	25 mmf.	.135"

WAXED COTTON BRAID OVER SHIELD

1268	500 Ft. Spool	25 mmf.	.165"
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Surge impedance is one-half the above when using shield as common conductor in dual transmission line.



CONSTRUCTION: Two conductors twisted, each No. 20 solid tinned enameled copper, insulated, color coded, shielded braid overall.

CONSTRUCTION: Same as #1267 except with waxed cotton braid over shield.

ARMORED DUPLEX SPEAKER CABLE

GENERAL PURPOSE: For P.A. systems, oil burner installations, automotive wiring, etc.

No.	Put-up	O.D.
1272	500 Ft. Spool	.132" x .182"



CONSTRUCTION: Two conductors parallel, each No. 18-16/30 stranded tinned copper, rubber insulated, color coded, lacquered cotton braid, galvanized steel armor overall.

INTER-COMMUNICATION CABLE

3 CONDUCTORS

(1 SHIELDED — 2 UNSHIELDED)

GENERAL PURPOSE: This cable is ideal for general wiring from station to station where a shielded single conductor is essential to eliminate cross talk.

No.	Put-up	O.D.
1242	500 Ft. Spool	.155"



CONSTRUCTION: Three conductors, each conductor No. 22 stranded tinned copper wire, vinyl plastic insulation, color coded; one conductor tinned copper shield and two conductors unshielded; cotton braid overall.

LEAD SHEATHED CABLE

GENERAL PURPOSE: For P.A. systems, communications, traffic control, mines, railroads and many other uses where severe moisture conditions are encountered. For all outdoor use including underground and underwater.

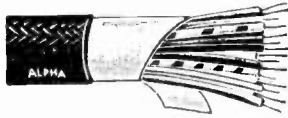
No.	Put-up	O.D.
1271	1,000 Ft. Reel	.325"

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.



CONSTRUCTION: Two conductors twisted, each No. 19 solid tinned copper, 1/32" "Hi-Tension" rubber, color coded; overall is a pure lead sheath.

ALPHA WIRE PRODUCTS



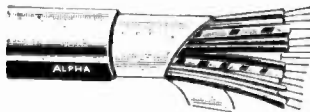
CONSTRUCTION: Each conductor solid tinned copper wire, two cotton reverse serves paraffined, color coded, conductors twisted into pairs, then covered with an impregnated double paper wrap, and overall a cotton braid saturated with a moisture-proof, flame retarding, rodent-proof compound.

BRAIDED COMMUNICATION CABLE

(TWISTED PAIRS)

GENERAL PURPOSE: For interior use designed for connecting inter-communication systems, annunciators, telephones, etc.

No.	Put-up	Size	Pairs	O.D.
1276/2	1,000 Ft. Reel	22	2 (4 Conductors)	.185"
1276/3	1,000 Ft. Reel	22	3 (6 Conductors)	.210"
1276	1,000 Ft. Reel	22	6 (12 Conductors)	.240"
1277	1,000 Ft. Reel	22	10 (20 Conductors)	.300"
1277/13	1,000 Ft. Reel	22	13 (26 Conductors)	.360"
1277/15	1,000 Ft. Reel	22	15 (30 Conductors)	.380"
1277/25	1,000 Ft. Reel	22	25 (50 Conductors)	.445"



CONSTRUCTION: Similar to Communication System Cable above, but with lead antimony sheath instead of cotton braid over the twisted pairs.

LEAD-COVERED COMMUNICATION CABLE

(TWISTED PAIRS)

GENERAL PURPOSE: For use indoors, outdoors, underground and in pipes for connecting inter-communication systems, annunciators, telephones, etc.

No.	Put-up	Size	Pairs	O.D.
1289	1,000 Ft. Reel	22	6 (12 Conductors)	.375"
1291	1,000 Ft. Reel	22	10 (20 Conductors)	.450"
1293	1,000 Ft. Reel	22	15 (30 Conductors)	.510"
1295	1,000 Ft. Reel	22	25 (50 Conductors)	.560"



CONSTRUCTION: Each conductor solid bare copper wire, thermo-plastic insulation, color coded, conductors twisted, waxed cotton braid overall.

INTER-COMMUNICATION CABLE

(BRAIDED)

GENERAL PURPOSE: Designed for interior use for connecting inter-communication systems, annunciators, thermostat controls of oil burners, air conditioners, etc.

No.	Put-up	Size	Conductors	O.D.
1274	500 Ft. Spool	18	2	.150"
1275	500 Ft. Spool	18	3	.165"
1275/4	500 Ft. Spool	18	4	.180"
1275/5	500 Ft. Spool	18	5	.200"
1275/6	500 Ft. Spool	18	6	.220"



CONSTRUCTION: Each conductor 19 solid tinned copper, 1/64" telephone compound rubber, heavy cotton braid with specially treated compound to make it weather-proof for resistance against rain, snow, hail and cold.

OUTDOOR INTER-COMMUNICATION WIRE

GENERAL PURPOSE: For outdoor and indoor use or in any damp location, for connecting communication systems, telephones, etc.

No.	Put-up	Size	Conductors	O.D.
1279	500 Ft. Spool	19	2	.200"
1280	500 Ft. Spool	19	3	.300"



CONSTRUCTION: Two conductors twisted, each No. 20 solid tinned copper, insulated, color coded.

UNSHIELDED TRANSMISSION LINE

GENERAL PURPOSE: For short wave, inter-communication, annunciator systems, etc., where shielding is not required.

No.	Put-up	O.D.
1269	500 Ft. Spool	.125"

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS

MULTI-CONDUCTOR FLEXIBLE CABLE

(RUBBER JACKETED)

GENERAL PURPOSE: For indoor and outdoor speakers, permanent or portable P.A. systems, sound recording and auto radios.



No.	Put-up	Conductors	Capacity Per Ft. Between Conductors	O.D.
1244	100 Ft. Spool	2	22 mmf.	.250"
1245	100 Ft. Spool	3	20 mmf.	.300"
1246	100 Ft. Spool	4	18 mmf.	.320"
1247	100 Ft. Spool	5	17 mmf.	.370"
1247/6	100 Ft. Spool	6	16 mmf.	.400"
1247/8	100 Ft. Spool	8	16 mmf.	.460"

CONSTRUCTION: Each conductor No. 20-26/34 flexible stranded tinned copper, cotton wrap, 1/32" "Hi-Tension" rubber, color coded, conductors twisted, cushioned with cotton fillers, cotton wrap, tough black rubber jacket overall.

MULTI-CONDUCTOR FLEXIBLE CABLE

(COTTON BRAID)

GENERAL PURPOSE: For connecting speakers, analyzers, remote control units, P.A. systems or wherever a multiple circuit hook-up is required.



No.	Put-up	Conductors	Capacity Between Conductors	O.D.
1182	100 Ft. Spool	2	31.5 mmf.	.135"
1183	100 Ft. Spool	3	31.0 mmf.	.170"
1184	100 Ft. Spool	4	30.0 mmf.	.180"
1185	100 Ft. Spool	5	29.5 mmf.	.205"
1186	100 Ft. Spool	6	29.2 mmf.	.225"
1187	100 Ft. Spool	7	28.8 mmf.	.240"
1188	100 Ft. Spool	8	28.5 mmf.	.255"
1189	100 Ft. Spool	9	27.9 mmf.	.275"
1190	100 Ft. Spool	10	27.6 mmf.	.310"
1192	100 Ft. Spool	12	27.0 mmf.	.340"

CONSTRUCTION: Each conductor No. 20-10/30 stranded tinned copper, 1/64" thermoplastic insulation, color coded, conductors twisted, glazed brown cotton braid overall.

RUBBER SHEATHED SERVICE CORD

(UNDERWRITERS APPROVED)

GENERAL PURPOSE: For amplifiers, sound systems, speakers, vacuum cleaners, electric tools, washing machines, refrigerators, appliances, trouble lights, garage lamps or wherever a rough usage power line is required.



No.	Put-up	Size	Conductors	Type	Current Carrying Capacity	Voltage Rating	O.D.
1951	250 Ft. Spool	18	2	SV	5 amps	300	.250"
1952	250 Ft. Spool	18	2	SJ	5 amps	300	.310"
1953	250 Ft. Spool	16	2	SJ	7 amps	300	.340"
1954	250 Ft. Coil	18	2	S	5 amps	600	.390"
1955	250 Ft. Coil	16	2	S	7 amps	600	.410"
1956	250 Ft. Coil	14	2	S	15 amps	600	.540"
1957	250 Ft. Coil	12	2	S	20 amps	600	.605"
1958	250 Ft. Coil	10	2	S	25 amps	600	.640"

Also Available with Additional Conductors.

CONSTRUCTION: Each conductor stranded bare copper, cotton separator, 1/32" "Hi-Tension" rubber, color coded, conductors twisted, cushioned with jute fillers, 40% tough rubber jacket overall.

TYPE POSJ-E-Z STRIP LAMP CORD

(UNDERWRITERS APPROVED)

GENERAL PURPOSE: For line cord on radios, lamps, electric clocks, food mixers and other small devices.

No.	Put-up	O.D.
1966	100 Ft. Spool	.235" x .130"
1967	250 Ft. Spool	.235" x .130"

Standard Colors: Brown, Black and Ivory



CONSTRUCTION: Two conductors parallel, each conductor No. 18-41/34 extra flexible bare copper, color coded cotton serve, 40% tough rubber jacket overall. Slit in jacket to permit "E-Z" separation.

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS



CONSTRUCTION: Very flexible tinned soft annealed copper, concentric strand, cotton wrap, 3/64" "Super Hi-Tension" rubber, satin finish.



CONSTRUCTION: No. 18 - 65/36 tinned soft annealed copper, concentric strand, cotton wrap, 7/64" "Super Hi-Tension" rubber, satin finish.

KINKLESS TEST LEAD WIRE

GENERAL PURPOSE: As test leads in analyzers, oscillators and all other types of testing apparatus or wherever an EXTRA FLEXIBLE insulated wire is required.

No.	Put-up	Size	Strand	Voltage Breakdown (60 Cycles)	D.C. Insulation Resistance Per Ft. (Megohms)	O.D.
1633	100 Ft. Spool	20	41/36	10,000 V.	710	.140"
1635	500 Ft. Spool	20	41/36	10,000 V.	710	.140"
1636	500 Ft. Spool	18	65/36	12,000 V.	800	.150"

Heavy Duty Type

GENERAL PURPOSE: For television, therapeutic equipment, analyzers, oscillators, etc., or wherever a heavy duty EXTRA FLEXIBLE high voltage line is required.

No.	Put-up	Voltage Breakdown (60 Cycles)	D.C. Insulation Resistance Per Ft. (Megohms)	O.D.
1637	100 Ft. Spool	22,000 V.	Over 1,000	.245"
1638	500 Ft. Spool	22,000 V.	Over 1,000	.245"

Stock Colors: Red and Black



CONSTRUCTION: Composed of very fine soft annealed tinned copper wires braided and rolled flat.

TINNED COPPER SHIELDING

GENERAL PURPOSE: For shielding speaker leads, lead-ins, amplifier wires, auto radio installations. Also for bonding.

No.	Put-up	O.D.
1229	50 Ft. Spool	1/8"
1230	50 Ft. Spool	3/16"
1231	50 Ft. Spool	1/4"
1232	50 Ft. Spool	3/8"
1233	50 Ft. Spool	5/8"
1234	50 Ft. Spool	3/4"
1235	50 Ft. Spool	1"



CONSTRUCTION: No. 1200 - 24 gauge flexible stranded copper conductor, vinyl plastic insulation, close tinned copper shielded braid overall.

No. 1201 same as No. 1200 plus cotton braid over shield.

No. 1202 same as No. 1200 except two conductor with shield overall.

SHIELDED PHONO AND GRID WIRE

GENERAL PURPOSE: Extreme flexibility and limpness make this an ideal wire for phonograph pick-up arm cable and grid wire.

No.	Put-up	Insulation	O.D.
1200	1000 Ft. Spool	.010"	.080"
1201	1000 Ft. Spool	.010"	.095"
1202	1000 Ft. Spool	.010"	.080" x .115"



CONSTRUCTION: Single conductor No. 20 - 10/30 stranded tinned copper, insulated with low loss rubber compound, white silk braid, tinned copper shield overall.

SHIELDED LOW LOSS CABLE

GENERAL PURPOSE: For auto radios, lead-ins, short wave receivers and for grid leads in the input stages of P.A. amplifiers.

No.	Put-up	Capacity Per Ft.	O.D.
1241	100 Ft. Spool	26.6 mmf.	.225"



CONSTRUCTION: Stranded tinned copper, low loss insulation, highly lacquered braid, close tinned copper shield overall.

SHIELDED HOOK-UP AND LEAD-IN WIRE

GENERAL PURPOSE: To reduce interference caused by motors, high tension wires, x-ray machines or other apparatus that radiates electrical impulses. Ideal for grid-lead use.

No.	Put-up	Size	Strand	O.D.
1194/22	1000 Ft. Spool	22	7/30	.105"
1194	1000 Ft. Spool	20	10/30	.110"
1196	1000 Ft. Spool	18	16/30	.145"
1197	1000 Ft. Spool	16	26/30	.160"
1198	1000 Ft. Spool	14	41/30	.180"

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS



STRANDED



SOLID

CONSTRUCTION: Single conductor, stranded and solid tinned copper wires with thermoplastic (Vinylite) insulation. High dielectric strength; 80°C (176 F) acid, alkali, oil and moisture resistant. Underwriters approved.

Standard Colors: Black, Red, Green, Yellow, Light Blue, Brown, White, Orange, Slate, Purple, Tan, Pink and Dark Blue

PLASTIC SRIR HOOK-UP WIRE

GENERAL PURPOSE: For radio, radar, electronic devices, transmitters, aircraft instruments, fluorescent fixtures, rectifiers, electrical toys, etc.

No.	Put-up	Size	Strand	Insulation (60 cycles)	Volt. Break-down (60 cycles)	D.C. Insulation Resistance per ft. (Megohms)	O.D.
1551	1000 Ft. Spool	22	7/30	1/64"	8000	5000	.065"
1552	100 Ft. Spool	22	7/30	1/64"	8000	5000	.065"
1553	1000 Ft. Spool	20	10/30	1/64"	8000	5000	.072"
1554	100 Ft. Spool	20	10/30	1/64"	8000	5000	.087"
1555	1000 Ft. Spool	18	16/30	1/64"	8000	5000	.087"
1557	1000 Ft. Spool	16	26/30	1/64"	8000	5000	.100"
1561	1000 Ft. Spool	22	Solid	1/64"	8000	5000	.060"
1562	100 Ft. Spool	22	Solid	1/64"	8000	5000	.060"
1563	1000 Ft. Spool	20	Solid	1/64"	8000	5000	.066"
1564	100 Ft. Spool	20	Solid	1/64"	8000	5000	.066"

TYPE WL HOOK-UP WIRE

GENERAL PURPOSE: For aircraft instruments and lighting and power, radio, electronic devices, radar, transmitters, rectifiers, etc.

COTTON BRAID



CONSTRUCTION: Single conductor, stranded tinned copper, vinyl plastic insulation, cotton or glass braid, lacquered, flame retarding and fungi proof.

(Specification JAN-C-76)

No.	Put-up	Size	Strand	Insulation (60 cycles)	Volt. Break-down (60 cycles)	D.C. Insulation Resistance per ft. (Megohms)	O.D.
1480	1000 Ft. Spool	22	7/30	1000	200	.090"	
1481	1000 Ft. Spool	20	10/30	1000	200	.100"	
1482	1000 Ft. Spool	18	16/30	1000	200	.115"	
1483	1000 Ft. Spool	16	26/30	1000	200	.130"	
1484	1000 Ft. Spool	14	41/30	1000	200	.150"	
1485	1000 Ft. Spool	12	65/30	1000	200	.170"	

GLASS BRAID

1490	1000 Ft. Spool	22	7/30	1000	200	.085"
1491	1000 Ft. Spool	20	10/30	1000	200	.095"
1492	1000 Ft. Spool	18	16/30	1000	200	.110"
1493	1000 Ft. Spool	16	26/30	1000	200	.125"
1494	1000 Ft. Spool	14	41/30	1000	200	.145"
1495	1000 Ft. Spool	12	65/30	1000	200	.165"

LACQUERED HOOK-UP AND LEAD-IN WIRE

(HIGH GLOSS LACQUERED BRAID)

GENERAL PURPOSE: For point to point soldering connections on transformers, amplifiers, panel hook-up, etc., where a low loss dielectric is required. It is not a pushback wire but will strip easily.

No.	Put-up	Size	Strand	Insulation (60 cycles)	Volt. Break-down (60 cycles)	D.C. Insulation Resistance per ft. (Megohms)	O.D.
1513	100 Ft. Spool	20	10/30	1/64"	7000	290	.090"
1515	500 Ft. Spool	20	10/30	1/64"	7000	290	.090"
1523	100 Ft. Spool	18	16/30	1/64"	7000	300	.110"
1525	500 Ft. Spool	18	16/30	1/64"	7000	300	.110"
1533	100 Ft. Spool	18	16/30	1/32"	8500	460	.125"
1535	500 Ft. Spool	18	16/30	1/32"	8500	460	.125"
1543	100 Ft. Spool	16	26/30	1/32"	8500	460	.140"
1545	500 Ft. Spool	16	26/30	1/32"	8500	460	.140"



CONSTRUCTION: Stranded tinned conductor, free stripping insulation, single braid highly lacquered. Bright colors.

Standard Colors: Black, Red, Green, Yellow, Blue, Brown, White

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS

"CL" PUSHBACK WIRE

GENERAL PURPOSE: Pushback hook-up wire in various bright colors for circuit identification; radio, radar, electronics, electrical toys, etc.

No.	Put-up	Size	Strand	Volt. Break-down (60 cycles)	D.C. Insulation Resistance per ft. (Megohms)	O.D.
1460	1000 Ft. Spool	22	7/30	1000	200	.065"
1460Q	100 Ft. Spool	22	7/30	1000	200	.065"
1461	1000 Ft. Spool	20	10/30	1000	200	.070"
1461Q	100 Ft. Spool	20	10/30	1000	200	.070"
1462	1000 Ft. Spool	18	16/30	1000	200	.082"
1462Q	100 Ft. Spool	18	16/30	1000	200	.082"
1463	1000 Ft. Spool	16	26/30	1000	200	.093"
1463Q	100 Ft. Spool	16	26/30	1000	200	.093"
1464	1000 Ft. Spool	14	41/30	1000	200	.105"
1464Q	100 Ft. Spool	14	41/30	1000	200	.105"
1465	1000 Ft. Spool	22	Solid	1000	200	.060"
1465Q	100 Ft. Spool	22	Solid	1000	200	.060"
1466	1000 Ft. Spool	20	Solid	1000	200	.065"
1466Q	100 Ft. Spool	20	Solid	1000	200	.065"
1467	1000 Ft. Spool	18	Solid	1000	200	.075"
1467Q	100 Ft. Spool	18	Solid	1000	200	.075"
1468	1000 Ft. Spool	16	Solid	1000	200	.085"
1468Q	100 Ft. Spool	16	Solid	1000	200	.085"
1469	1000 Ft. Spool	14	Solid	1000	200	.095"
1469Q	100 Ft. Spool	14	Solid	1000	200	.095"



STRANDED



SOLID

CONSTRUCTION: Single conductor, stranded and solid tinned copper, heavy wrap of cellulose acetate, cotton braid with flame-retarding lacquer.

Standard Colors: Black, Red, Green, Yellow, Blue, Brown, White and Orange

LACQUERED PRIMARY WIRE

GENERAL PURPOSE: For automobile head, tail, side, dashboard lamps, horn, spotlight, instrument leads and general high voltage and primary voltage applications.

No.	Put-up	Size	Strand	Rubber	O.D.
1989	100 Ft. Spool	18	16/30	1/64"	.110"
1991	100 Ft. Spool	18	16/30	1/32"	.125"
1995	100 Ft. Spool	16	26/30	1/32"	.140"
1997	100 Ft. Spool	14	41/30	1/32"	.170"
1999	100 Ft. Spool	12	19/25	1/32"	.190"
1983	100 Ft. Spool	10	19/23	1/32"	.208"



CONSTRUCTION: Stranded soft annealed tinned copper, insulated with rubber, over which is a highly lacquered braid. Oil, heat, and moisture resistant.

7 MM LACQUERED CABLE

GENERAL PURPOSE: For high voltage leads in television receivers, cathode-ray tubes, oscilloscopes, etc.

No.	Put-up	O.D.
1981	100 Ft. Spool	.275"



CONSTRUCTION: Single conductor No. 16-19/29 stranded tinned copper, rubber insulated, cotton braid highly lacquered.

7MM SHIELDED IGNITION CABLE

GENERAL PURPOSE: For automotive and aircraft ignition systems requiring grounding to overcome interference.

No.	Put-up	O.D.
1193	100 ft. spool	.300"



CONSTRUCTION: Single conductor No. 16-19/29 stranded tinned copper, rubber insulated, cotton braid highly lacquered, braided tinned copper shield overall.

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ALPHA WIRE PRODUCTS

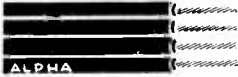


CONSTRUCTION: Two conductors parallel, each conductor 7/28 bare copper flexible stranding, low loss polyethylene plastic insulation, smooth satin finish. Standard color: brown.

TELEVISION AND FM TWIN-LEAD CABLE

GENERAL PURPOSE: For use especially in television and FM as the lead-in from the antenna to the receiver.

No.	Put-up	Impedance (Ohms)	Capacity Per Ft.	O.D.
1150	1000 Ft. Spool	300	4.5 mmf.	.070" x .395"
1151	1000 Ft. Spool	150	9.5 mmf.	.060" x .190"
1152	1000 Ft. Spool	75	20.0 mmf.	.070" x .120"

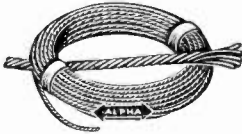


CONSTRUCTION: Conductors flat parallel, each conductor 7/30 stranded copper with one conductor bare and other conductors tinned. Durable rubber insulation.

ROTARY TV-FM CABLE

GENERAL PURPOSE: Designed for use with TV or FM antenna rotators.

No.	Put-up	Conductors	O.D.
1150 3	1,000 Ft. Spool	3	.085" x .265"
1150 4	1,000 Ft. Spool	4	.085" x .345"



CONSTRUCTION: Stranded galvanized steel wires with great tensile strength.

GUY WIRE

GENERAL PURPOSE: To prevent sway of F.M., T.V. and radio receiver masts, poles or towers.

No.	Put-up	Strand.	Breaking Strength	O.D.
1168	1,000 Ft. Spool	6/18	650 Lbs.	.156"
1169	1,000 Ft. Spool	6/20	470 Lbs.	.105"
1170	100 Ft. Coil	6/20	470 Lbs.	.105"
1171	50 Ft. Coil	6/20	470 Lbs.	.105"



CONSTRUCTION: Single conductor No. 22 solid copperweld, polyethylene insulation, bare copper shield, black vinyl plastic jacket overall.

CO-AXIAL CABLE (RG-59U)

GENERAL PURPOSE: Co-axial cable is ideal for television, FM and facsimile reception. Is suitable for very high frequency and ultra high frequency ranges.

No.	Put-up	Nom. Imp. (Ohms)	Nom. Cop.	Max. Oper. Volts RMS	O.D.
1157	1000 Ft. Reel	73	21 mmf./F+	2300	.242"



CONSTRUCTION: 6 feet E-Z Strip cord (Type POSJ-64), molded-on rubber plug attached to one end, TV molded-on rubber connector attached to other end.

TELEVISION POWER CONNECTOR CORD

GENERAL USE: For replacement of worn out or damaged TV cords.

No.	Length
2126	6 Ft. Cord

ALPHA E-Z STRIP LINE CORD



This is the modern and ideal power supply cord for replacement on radios, lamps, fans, etc. It is made of E-Z strip rubber parallel cord (UN-
DERWRITERS APPRO-

VAL) with a small unbreakable soft rubber attachment plug. Free end stripped and tinned ready to attach.

No. 2106 - 6 Ft. No. 2109 - 9 Ft. No. 2112 - 12 Ft.

Cords Available in Any Length

GLASS INSULATOR



Will withstand great strain.

No. 2020 Per Carton 100

NAIL KNOB



A 2 piece knob of glazed porcelain and a heavy nail for secure holding.

No. 2031 Per Carton 100

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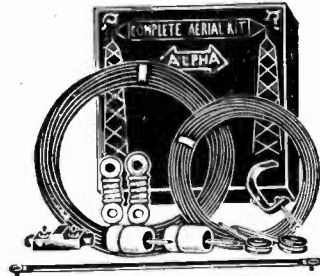
ALPHA WIRE PRODUCTS

AERIAL KITS

Alpha Aerial Kits are designed to meet the requirements of the various types of radio installations. Each kit is complete and boxed attractively.

No. 301
 50 Ft. 7 Strand Copper Aerial
 25 Ft. Lead-in Wire
 2 No. 2022 Insulators
 2 No. 2031 Nail Knobs
 1 No. 2012 Ground Clamp
 1 No. 2002 Lead-in Strip

No. 304
 75 Ft. 7/24 Copper Aerial Wire
 25 Ft. Lead-in Wire
 1 No. 2001 Lightning Arrester
 1 No. 2002 Lead-in-Strip
 2 No. 2031 Nail Knobs
 1 No. 2012 Ground Clamp
 2 No. 2022 Insulators



PHOSPHOR BRONZE AERIAL WIRE

GENERAL PURPOSE: Recommended especially for ship, short wave and transmitting aeriels where high tensile strength is required.

No.	Put-up	Strand	Breaking Strength	O.D.
1160	500-Ft. Spool	7/22	420 Lbs.	.075"
1161	500 Ft. Spool	7/20	650 Lbs.	.100"
1163	500 Ft. Spool	7/18	1000 Lbs.	.122"
1164	500 Ft. Spool	7/16	1600 Lbs.	.150"
1165	500 Ft. Spool	7/14	2140 Lbs.	.190"
1166	500 Ft. Spool	7/12	3670 Lbs.	.240"



CONSTRUCTION: 7 strands Phosphor Bronze.

LEAD-IN AND GROUND WIRE

GENERAL PURPOSE: Lead-in, ground, hook-up, all purpose wire.

No.	Put-up	Size	Strand	Insulation	O.D.
1114	1000 Ft. Spool	20	10/30	1/32"	.105"
1114E	500 Ft. Spool	20	10/30	1/32"	.105"
1131	500 Ft. Spool	18	16/30	1/32"	.125"



CONSTRUCTION: Stranded tinned or solid tinned copper conductor, insulated with live free stripping rubber, jet black waxed finish overall.

COPPER AERIAL WIRE

STRANDED — BARE

No.	Put-up
101	7/20 100 Ft. Coil
104	7/20 75 Ft. Coil
105	7/20 50 Ft. Coil
106	7/20 1000 Ft. Spool
107	7/22 100 Ft. Coil
110	7/22 75 Ft. Coil
111	7/22 50 Ft. Coil
112	7/22 1000 Ft. Spool

STRANDED — TINNED

No.	Put-up
161	7/22 100 Ft. Coil
164	7/22 75 Ft. Coil
165	7/22 50 Ft. Coil
166	7/22 1000 Ft. Spool

SOLID — ENAMEL

No.	Put-up
269	14 100 Ft. Coil
274	14 1000 Ft. Spool
275	12 100 Ft. Coil
280	12 1000 Ft. Spool
281	10 100 Ft. Coil
283	10 1000 Ft. Spool

SOLID — TINNED

No.	Put-up
284	14 100 Ft. Coil
286	14 1000 Ft. Spool
287	12 100 Ft. Coil
289	12 1000 Ft. Spool
290	10 100 Ft. Coil
292	10 1000 Ft. Spool



All Alpha Aerial Wire is pure electrolytic copper properly annealed to assure required flexibility and tensile strength.

AC-DC ANTENNA WIRE

GENERAL PURPOSE: Ideal replacement wire for universal midjets, indoor aeriels and loop antennas.

No.	Put-up
1281	25 Ft. Disc
1282	100 Ft. Spool
1283	500 Ft. Spool
1284	1000 Ft. Spool



CONSTRUCTION: Single conductor No. 24-16/36 stranded bare copper, extra flexible, covered with dark brown braid or plastic.

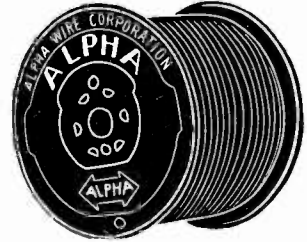
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ALPHA WIRE PRODUCTS

TINNED COPPER BUS-BAR WIRE

GENERAL PURPOSE: Winding of coils, antennas, point to point, bus bar, etc.

No.	Put-up	Size	O. D.
292	1000 Ft. Spool	10	.103"
289	1000 Ft. Spool	12	.082"
286	1000 Ft. Spool	14	.065"
295	1000 Ft. Spool	16	.051"
296	1000 Ft. Spool	18	.040"
297	1000 Ft. Spool	20	.033"
298	1000 Ft. Spool	22	.025"



DIATHERMY CABLE

GENERAL PURPOSE: Its extreme flexibility and tough rubber jacket give it long life. This cable is used as a lead on therapy apparatus, charging cable, battery lead, underground cable, etc.

No.	Put-up	O. D.
1623	100 Ft. Spool	.300"
1625	1000 Ft. Reel	.300"



CONSTRUCTION: Single conductor extra flexible No. 14-104/34 copper, paper serve, 3/64" ASTM performance grade rubber, double cotton braid, .040" oil resistant neoprene rubber jacket.

TWISTED PAIR TRANSMISSION LINE

(WEATHERPROOF BRAID)

GENERAL PURPOSE: For inter-com. hook-up. Also suitable for low loss coupling between antenna and receiver as doublet style twisted lead-in.

No.	Put-up	Capacity Bet. Conds. Per Ft.	Frequency (KC)	Power Factor Per Cent	O. D.
1146	500 Ft. Spool	21.8 mmf.	3,500	3.75	.175"
1148	100 Ft. Coil				
1149	50 Ft. Coil				
1135	500 Ft. Spool	21.8 mmf.	3,500	3.75	.190"



CONSTRUCTION No. 1146: Two conductors No. 22-7/30 stranded tinned copper, 1/32" "Hi-Tension" rubber, color coded, conductors twisted, cotton braid overall, saturated weather-proof finish.

CONSTRUCTION No. 1135: Two conductors No. 18-16/30 stranded tinned copper, 1/32" "Hi-Tension" rubber, color coded, conductors twisted, cotton braid overall, saturated weather-proof finish.

PHOSPHOR BRONZE DIAL CABLE



CONSTRUCTION: Made of 42 strands (6 x 7 x .004) genuine phosphor bronze wire with a linen center for extra flexibility. Is guaranteed not to warp or stretch.

No.	Put-up	Tensile Strength	O. D.
1689	25 Ft. Spool	50 lbs.	.036"
1691	100 Ft. Spool	50 lbs.	.036"
1692	500 Ft. Spool	50 lbs.	.036"

BRAIDED LINEN DIAL CABLE



CONSTRUCTION: Made of the finest linen obtainable. Composed of a very strong linen center over which is a smooth black braid.

HEAVY

No.	Put-up	Tensile Strength	O. D.
1694	25 Ft. Spool	40 lbs.	.057"
1695	100 Ft. Spool	40 lbs.	.057"
1696	500 Ft. Spool	40 lbs.	.057"

Longer Lengths Available.

LIGHT

No.	Put-up	Tensile Strength	O. D.
1697	25 Ft. Spool	22.5 lbs.	.036"
1698	100 Ft. Spool	22.5 lbs.	.036"
1699	500 Ft. Spool	22.5 lbs.	.036"

Longer Lengths Available.

EXTRA-THIN

No.	Put-up	Tensile Strength	O. D.
1700	25 Ft. Spool	18 lbs.	.027"

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS



FLEXIBLE VARNISHED TUBING AND SLEEVING

RADIO VARNISHED TUBING — (Spaghetti). A sleeving with a heavy coat of varnish, in high gloss vivid colors. Average dielectric strength: 4,000 volts.

SATURATED SLEEVING — A fibre yarn sleeving saturated with high grade insulating varnish. Cuts clean and has a smooth interior wall. Average dielectric strength: 2,000 volts.

MAGNETO VARNISHED TUBING—The production of this type of tubing is under rigid control so as to insure a maximum in quality. It is thoroughly impregnated with a varnish of maximum insulating value. It is resistant to heat, oil, gas and acids. Colors are bright and vivid. Average dielectric strength: 7,000 volts.

No.	Approx. I.D.
20	.034"
19	.038"
18	.042"
17	.047"
16	.053"
15	.059"
14	.066"
13	.076"

No.	Approx. I.D.
12	.085"
11	.095"
10	.106"
9	.118"
8	.133"
7	.148"
6	.166"
5	.186"
4	.208"

No.	Approx. I.D.
3	.234"
2	.263"
1	.294"
0	.330"
3/8"	.375"
7/16"	.438"
1/2"	.500"
5/8"	.625"

Tolerances: Sizes:
0 to 2—plus or minus .005"
3 to 13—plus or minus .004"
14 to 20—plus or minus .002"
Lengths—Standard 36"

Standard Colors: Black, Red, Yellow, Green and Brown
Sizes follow the B & S System of gauging wires. For instance, a No. 10 tubing will fit over a No. 10 bare wire or any wire with an insulation of which the O.D. is equivalent to No. 10 B & S gauge. If in doubt, it is best to submit a sample of the wire or product to be covered.

Longer Lengths Available.

SPAGHETTI TUBING

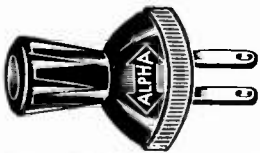


A superior varnished tubing for radio work. It will retain its dielectric and flexibility indefinitely. Takes up to No. 14 wire.

Colors: Black, Red, Yellow, Green and Brown

No. 2091 — 36" Lengths

UNBREAKABLE SOFT RUBBER PLUG



Made of sturdy live soft rubber. Brass blades. Unbreakable, easy to attach.

No. 1964 Per Carton 100

RADIO LIGHTNING ARRESTER



Made of high quality glazed porcelain with nicked screws and nuts. For indoor or outdoor use.

No. 2001 Individually boxed

GROUND CLAMP



Heavy gauge strap, Fahnestock terminal and brass screw and nut. This ground clamp makes a quick and positive connection. Fits a 3/8" to 2" pipe.

No. 2012 Type Strap Per Carton 50

LEAD-IN STRIP-CLIP TYPE



Strips are waterproofed being fully covered with a heavily lacquered braid. Fahnestock clips are riveted to strap for firm contact.

No. 2002 Length 12" Per Carton 50

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

ALPHA WIRE PRODUCTS

NOTE: USEFUL INFORMATION FOR ORDERING

- All tests on specifications are approximate and subject to normal manufacturing tolerances.
- Lengths other than those regularly listed can be furnished.
- Other wires and cables made to specifications.
- Use the following symbols alongside catalog number for other than standard put-ups.

COILS		COILS		COILS		SPOOLS		SPOOLS		SPOOLS	
25 Ft.....H	100 Ft.....K	500 Ft.....B	25 Ft.....N	100 Ft.....Q	250 Ft.....D	50 Ft.....Z	150 Ft.....L	1000 Ft.....C	50 Ft.....T	150 Ft.....R	500 Ft.....E
75 Ft.....J	200 Ft.....M	250 Ft.....A	75 Ft.....P	200 Ft.....S	1000 Ft.....F						

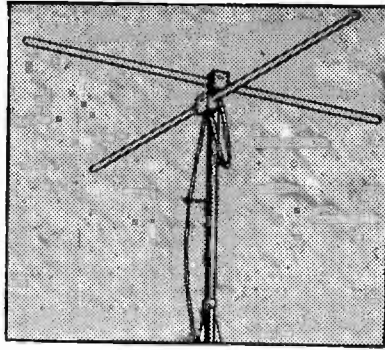
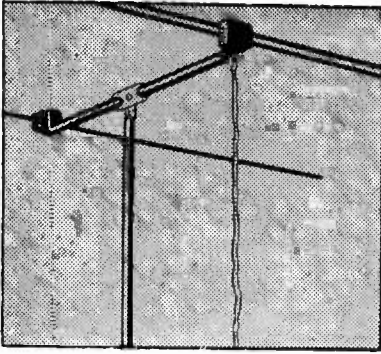
G—LONGER LENGTHS ON SPOOLS OR REELS

The constant development of new and improved designs and manufacturing processes results in continually changing specifications. In every case where Alpha wires shipped are different in specifications from those shown in this catalog, an improvement will be noted.

Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price	Cat. No.	List Price
301	\$ 1.20	1254	\$22.50	1490	\$22.50	1989	\$ 2.75	4	\$12.00
304	2.25	1255	25.00	1491	25.88	1991	3.13	3	13.50
1114	9.38	1255/8	33.75	1492	31.75	1995	4.75	2	15.00
1114E	5.13	1256	7.50	1493	40.50	1997	5.00	1	16.88
1131	12.25	1257	10.00	1494	52.13	1999	6.88	0	20.25
1135	20.50	1258	12.50	1495	91.88	2001	per C 40.00	3/8	24.38
1146	15.00	1261	55.00	1513	2.13	2002	per C 10.63	7/16	29.25
1148	3.13	1262	8.25	1515	10.00	2012	per C 10.00	1/2	33.75
1149	1.63	1263	11.50	1523	2.70	2020	per C 7.50	5/8	39.38
1150/3	32.50	1264	14.75	1525	12.75	2031	per C 7.50	SATURATED SLEEVING	
1150/4	45.00	1265	40.00	1533	2.95	2091	.18	Per C ft.	
1150	31.25	1266	50.00	1535	14.00	2106	.35	Cat. No.	List Price
1151	37.50	1267	23.13	1543	4.75	2109	.43	24	\$ 5.38
1152	35.00	1268	30.00	1545	22.50	2112	.50	20	4.13
1157	105.00	1269	17.50	1551	10.50	2126	.70	19	4.25
1160	21.25	1271	137.50	1552	1.18	101	2.38	18	4.50
1161	35.00	1272	37.50	1553	13.13	104	1.80	17	4.63
1163	37.50	1274	15.00	1554	1.45	105	1.23	16	4.88
1164	50.00	1275	20.00	1555	17.88	106	23.00	15	5.25
1165	77.50	1275/4	28.75	1557	25.25	107	1.30	14	5.50
1166	117.50	1275/5	42.50	1559	35.00	110	1.00	13	5.75
1168	25.00	1275/6	50.00	1561	8.13	111	.67	12	6.13
1169	15.00	1276/2	75.00	1562	.95	112	12.25	11	6.50
1170	1.63	1276/3	95.00	1563	10.25	131	.95	10	6.75
1171	.88	1276	180.00	1564	1.15	134	.75	9	7.13
1182	4.00	1277	255.00	1565	14.00	135	.50	8	7.50
1183	5.00	1277/13	325.00	1567	19.13	136	8.75	7	7.88
1184	6.50	1277/15	375.00	1569	26.88	161	1.68	6	8.38
1185	8.25	1277/25	575.00	1571	18.38	164	1.28	5	8.63
1186	10.25	1279	18.75	1573	20.75	165	.88	4	9.75
1187	11.75	1280	28.13	1575	25.63	166	16.00	3	11.25
1188	13.50	1281	.28	1577	34.13	269	1.75	2	12.00
1189	15.25	1282	.95	1579	46.50	274	16.75	1	13.50
1190	17.50	1283	4.13	1581	13.75	275	2.60	0	16.88
1192	21.25	1284	8.00	1583	16.50	280	25.25	3/8	21.75
1193	15.00	1289	350.00	1585	21.00	281	3.75	7/16	26.25
1194/22	37.50	1291	500.00	1587	27.25	283	36.75	1/2	30.00
1194	40.00	1293	662.50	1589	35.75	284	1.70	5/8	35.63
1196	50.00	1295	937.50	1623	13.13	286	16.25	MAGNETO VARNISHED TUBING	
1197	62.50	1460	14.38	1625	125.00	287	2.50	Cat. No.	Per C ft.
1198	75.00	1460-Q	1.58	1633	2.50	289	24.25	List Price	
1200	36.25	1461	16.63	1635	11.25	290	3.70	24	\$ 6.00
1201	40.00	1461-Q	1.80	1636	13.75	292	36.25	20	6.00
1202	55.00	1462	21.00	1637	6.25	295	12.38	19	6.00
1229	2.50	1462-Q	2.23	1638	30.00	296	10.75	18	6.00
1230	2.75	1463	25.88	1689	1.13	297	6.75	17	6.00
1231	3.25	1463-Q	2.73	1691	3.75	298	4.50	16	6.38
1232	5.50	1464	34.75	1692	16.25	RADIO VARNISHED TUBING			
1233	8.25	1464-Q	3.60	1694	1.13	Cat. No.	Per C ft.	15	6.75
1234	12.00	1465	13.25	1695	3.88	List Price		14	7.13
1235	14.50	1465-Q	1.45	1696	18.00	24	\$ 6.00	13	7.25
1241	10.00	1466	14.25	1697	3.50	20	4.63	12	7.50
1242	37.50	1466-Q	1.55	1698	16.88	19	5.00	11	8.63
1244	8.75	1467	18.00	1700	.68	18	5.38	10	9.38
1245	10.50	1467-Q	1.93	1951	16.88	19	5.63	9	10.13
1246	12.00	1468	21.63	1952	18.13	17	5.75	8	10.75
1247	15.00	1468-Q	2.30	1953	21.88	16	6.00	7	11.75
1247/6	20.00	1469	27.88	1954	28.75	15	6.13	6	12.88
1247/8	27.50	1469-Q	2.93	1955	32.50	14	6.50	5	14.00
1248	7.50	1480	21.63	1956	57.50	13	6.50	4	15.13
1249	10.00	1481	25.25	1957	82.50	12	7.13	3	16.25
1250	11.25	1482	30.50	1958	112.50	11	7.50	2	17.63
1250/18	16.25	1483	38.00	1964	.13	10	7.88	1	18.75
1251	13.00	1484	49.50	1966	3.63	9	8.25	0	22.50
1252	15.50	1485	89.00	1967	8.25	8	8.63	3/8	28.13
1253	20.00			1981	8.25	7	9.00	7/16	31.88
				1983	7.75	6	9.38	1/2	37.50
						5	10.50	5/8	43.13

ALL PRICES AND SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.

BELDEN • FM antenna systems



- Highly efficient
- Broad response
- Low standing wave ratio
- Perfect matching
- Mechanically strong
- Light in weight
- Factory assembled
- Weather resistant
- Wind resistant



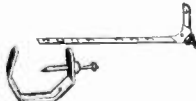






Trade Number	†Pkg.	Description	Net Weight in Lb	Contents
FM DIPOLE ANTENNA				
8320	1K	The Belden FM Dipole Antenna System is scientifically engineered and may be used on all FM radios. It can be used for Standard Broadcast as well as FM reception. Its performance has been proven in laboratory and field service tests. Careful electrical design has resulted in excellent response over the entire FM band. Maximum signal and trouble-free reception are assured.	2.5	1—65' 300-OHM Transmission Line 8225 1—Aluminum Antenna Element 1—Porcelain Junction Block 1—5' Aluminum Standard 2—Stand-off Insulators 8126 2—Mounting Straps 1—Instruction Sheet
FM REFLECTOR				
8321	1K	For greater radio signal strength, use the Belden FM Reflector with the No. 8320 Belden FM Dipole Antenna to form an antenna-reflector array. The addition of a reflector improves FM reception for any installation and is necessary in locations where the radio signal is weak, for example, due to its distance from radio stations or its location among buildings. Also, a reduction in interference may be effected to the rear or reflector side of the antenna.	.8	1—Aluminum Reflector Element 1—Porcelain Junction Block 1—Aluminum Cross Member 1—Instruction Sheet

Trade Number	†Pkg.	DESCRIPTION
8304	1 K	1—75' 7x22 Beldenamel Antenna Wire 8005 1—35' 16 Stranded Lead-in Wire 8201 1—Arrester 8896 1—Type "C" Ground Clamp 8897 1—12" Lead-in Strip 8890 2—Antenna Insulators 8103 2—Porcelain Nail-on-knobs 8102 1—Stand-off Insulator 8104 1—Instruction Sheet
8305	1 K	1—75' 7x22 Bare Copper Antenna Wire 8000 1—35' 16 Stranded Lead-in Wire 8201 1—Arrester 8896 1—Type "C" Ground Clamp 8897 1—12" Lead-in Strip 8890 2—Antenna Insulators 8103 2—Porcelain Nail-on-knobs 8102 1—Stand-off Insulator 8104 1—Instruction Sheet
8309	1 K	1—50' 7x24 Bare Copper Antenna Wire 8002 1—25' 18 Stranded Lead-in Wire 8200 1—Arrester 8896 1—Type "C" Ground Clamp 8897 2—Antenna Insulators 8103 1—Porcelain Nail-on-knob 8102 1—Stand-off Insulator 8104 1—Instruction Sheet

litz wire

8817 100' S For rewinding antenna primaries and for hand-wound r-f coils. 5x44 Celenamel with wrap of nylon.


arresters • ground clamps • lead-in strips • insulators

Trade Number	DESCRIPTION
 8895	1K Belden doublet-type bakelite arrester. Listed as approved by Underwriters
 8896	1K Belden single-type bakelite arrester. Listed as approved by Underwriters
 8892	25K Ground clamp—8¼" long
 8897	25K "C" type ground clamp. Fits pipe up to 1¾" OD
 8104	10K 7" Stand-off insulator
 8890	1K 12" Single lead-in strip—rubber insulated—clips both ends
 8126	10K 3" Stand-off insulator for flat transmission line
 8102	10K Porcelain nail-on-knobs
 8103	10K Porcelain insulators, 2½" over-all length


†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN • aerial wire • lead-in wire

shielded lead-in wire

Trade Number	Length and Package	Size	DESCRIPTION	Stranding	Insulation Thickness (Inches)	Finished OD (Inches)
 8206	250' S	18	Tinned copper, flexible stranding; rubber insulation; tinned copper braid shield	7x27	.040"	.155

lead-in wire

 8200	100' S 500' S 1000' S	.18	Tinned copper, flexible stranding; rubber insulation	7x27	.040	.126
8201	50' CK 100' S 250' S 500' S 1000' S	16	Tinned copper, flexible stranding; rubber insulation	7x25	.040	.135

voice coil lead wire



8127	10'***	25	Bare copper wire braided	32x40		.024
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***Packaged 10 ft on card, 5 cards in carton.

indoor aerial wire—EXTRA FLEXIBLE



8014	25'*	25	Tinned copper, flexible stranding; chrome vinyl plastic insulation	13x36	.010	.044
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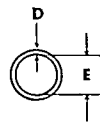
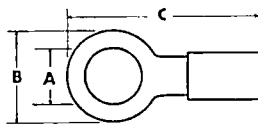
*Packaged 25 ft on card, 5 cards in carton.

aerial wire (FULL GAUGE AND WEIGHT)





STRANDED BARE COPPER			STRANDED BELDENAMEL			SOLID TINNED COPPER (Bus Bar Wire)			SOLID BELDENAMEL		
Trade Number	Length and Package	Size	Trade Number	Length and Package	Size	Trade Number	Length and Package	Size	Trade Number	Length and Package	Size
8000	50' C 75' C 100' C 1000' S	7x22	8005	75' CK 100' CK 1000' S	7x22	8011	100' CK	12	8008	100' CK 200' S 500' S	12
8002	50' C 75' C 100' C 1000' S	7x24	8006	100' CK 1000' S	7x20	8012	100' CK	14	8009	100' CK 500' S	14
						8013	100' CK	16			

terminals

Tinned; easy to solder



DIMENSIONS—INCHES		
A	B	C
Hole Size or Opening	Over-all Width	Over-all Length

Trade Number	Quantity and Package	For Screw Size	Hole Size or Opening	Over-all Width	Over-all Length
 8989	*25c pkg. 100 K 1000 K	12	.219	3/8	1 11/16
 8992	*25c pkg. 100 K 1000 K	8	.165	1 1/16	2 5/16
 8993	*25c pkg. 100 K 1000 K	10	.191	5/16	3/4
 8995	*25c pkg. 100 K 1000 K	8	.165	5/16	3/4



Trade Number	Quantity and Package	For Screw Size	DIMENSIONS—INCHES		
			Hole Size or Opening	Over-all Width	Over-all Length
8996	*25c pkg. 100 K 1000 K	10	.191	5/16	3/4



8997	*25c pkg. 100 K 1000 K	8	.165	1 1/16	1 1/16
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8998	*25c pkg. 100 K 1000 K	8	.172	1/4	1/2
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8999	*25c pkg. 100 K 1000 K	8	.172	5/16	3/4
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8994 100 K 100 Assorted Belden Terminals, including 20-8995, 25-8997, 10-8996, 10-8998, 35-8999





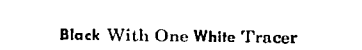





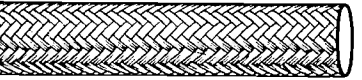
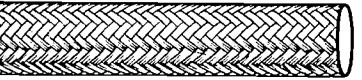
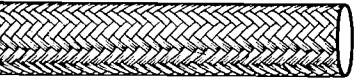
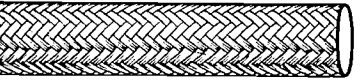
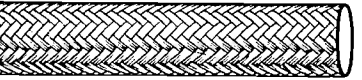


*25c package — Sealed Cellophane Envelopes 20 Envelopes in carton

†CK—Coiled in carton K—Carton CR—Crate Reel S—Spool C—Coil SK—Spooled in carton

BELDEN • auto and aircraft radio wires and shielding

Belden supplies a complete line of auto radio wires and shielding to handle every wire requirement in installation and servicing.

In installations of this type, the use of the correct wire is particularly important. Applications are indicated in the listings below.

ILLUSTRATION AND COLOR	Trade Number	Lengths and Package	A.W.G.	GENERAL CONSTRUCTION	Stranding	Finished Cable OD (inches)	Nominal Capacitance Per Ft (mmf)
 Black	8664	100' S	28	.013" Tinned steel wire, solid; cellulose yarn braid; polyethylene insulation; tinned copper braid shield; black vinyl plastic jacket	solid	.250	14.5
 Black	8667	100' S	16	Tinned copper, flexible stranding; rubber insulation; cotton braid; lacquer coating	19x29	.280	
 Black	8665	100' S	19	Stainless steel alloy, flexible stranding; rubber insulation; glass yarn web braid; neoprene jacket; tinned copper braid shield; neoprene jacket	6x.013"+ 1x.011" steel alloy	.365	
 Black, Blue, Green, Red, Yellow, White	8833	100' S 1000' S	18	Tinned copper, flexible stranding; paper wrap; rubber insulation; cellulose acetate yarn braid; lacquer coating	16x30	.136	
 Black With One White Tracer	8652	100' S	16	Tinned copper, flexible stranding; cellophane wrap; rubber insulation; black cotton braid with one white tracer; lacquer coating	19x29	.140	
 Green With Two White Tracers	8651	100' S	14	Same as 8652 except green cotton braid with two white tracers	19x27	.165	
 Red With Three White Tracers	8650	100' S	12	Same as 8652 except red cotton braid with three white tracers	19x25	.195	
 Tinned copper braid	8656	100' S	16	Tinned copper, flexible stranding; cellophane wrap; rubber insulation; cotton braid; blue lacquer coating; tinned copper braid shield	19x29	.170	
 Tinned copper braid	8655	100' S	14	Tinned copper, flexible stranding; cellophane wrap; rubber insulation; cotton braid; blue lacquer coating; tinned copper braid shield	19x27	.195	
 Tinned copper braid	8654	100' S	12	Tinned copper, flexible stranding; cellophane wrap; rubber insulation; cotton braid; blue lacquer coating; tinned copper braid shield	19x25	.225	
 Tinned copper braid in form of tubing	8660	50' SK 250' S		Tinned copper braid in form of tubing	96x34	13/64 I D	
 Tinned copper braid in form of tubing	8668	50' SK 250' S		Tinned copper braid in form of tubing	120x34	1/8 I D	
 Tinned copper braid in form of tubing	8661	50' SK 250' S		Tinned copper braid in form of tubing	192x34	3/8 I D	
 Tinned copper braid in form of tubing	8669	50' S 250' S		Tinned copper braid in form of tubing	336x34	1/2 I D	
 Tinned copper braid in form of tubing	8662	50' S 250' S		Tinned copper braid in form of tubing	576x34	25/32 I D	
 Tinned copper braid shield over fabric loom	8657	50' CK		Tinned copper braid shield over fabric loom		3/16 I D	
 Tinned copper braid shield over fabric loom	8658	50' CK		Tinned copper braid shield over fabric loom		5/16 I D	




†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN • microphone cables




Performance and appearance are the outstanding features built into Belden microphone cables. Polyethylene insulation is used for outstanding dielectric properties and vinyl plastic jackets for protection.

Dielectrically, Belden microphone cables have low capacitance, high insulation resistance, and low attenuation at audio frequencies. In addition, they provide resistance to physical abuse, aging, and moisture.

plastic microphone cable

ILLUSTRATION AND APPLICATION	Trade Number	Lengths †Package and Color	A.W.G. and No. Condrs.	GENERAL CONSTRUCTION	Stranding	Fin-ished Cable O D (inches)	Nom. Capacitance Per Ft (mmf)
 For lapel microphones	8411	25' CK 100' S Chrome	25-1	Tinned copper and tinned steel, flexiblestranding; cellulose yarn braid; polyethylene insulation; tinned copper braid shield; chrome vinyl plastic jacket	3x33 copper plus 4x33 steel	.140	40.
 For crystal, ribbon and carbon microphones	8401	25' CK 50' CK 100' S 500' S Chrome	25-1	Tinned copper and tinned steel, flexiblestranding; cellulose yarn braid; polyethylene insulation; tinned copper braid shield; chrome vinyl plastic jacket	3x33 copper plus 4x33 steel	.200	25.
 For carbon microphones	8422	25' CK 50' CK 100' S 500' S Chrome	22-2	Tinned copper, flexible strand- ing; polyethylene insulation, color coded; conductors cabled with fillers; rayon braid; tinned copper braid shield; chrome vinyl plastic jacket	16x34	.235	**28.

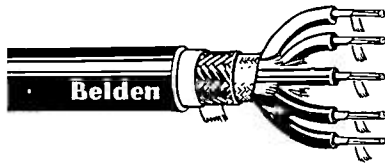
rubber microphone cable

 For crystal ribbon and carbon microphones	8410	25' CK 50' CK 100' S 500' S Black	25-1	Tinned copper and tinned steel, flexiblestranding; cellulose yarn braid; waxed; rubber insula- tion; rayon braid; tinned copper braid shield; rayon wrap; black rubber jacket	3x33 copper plus 4x33 steel	.245	33.
 For carbon microphones	8412	25' CK 50' CK 100' S 500' S Black	20-2	Tinned copper, flexible strand- ing; cotton wrap; rubber insu- lation, color coded; conductors cabled with fillers; rayon braid; tinned copper braid shield; cot- ton wrap; black rubber jacket	26x34	.280	**63.
 For carbon microphones	8423	50' CK 250' S Black	20-3	Tinned copper, flexible strand- ing; cotton wrap; rubber insu- lation, color coded; conductors cabled; rayon braid; tinned copper braid shield; cotton wrap; black rubber jacket	26x34	.280	††54.

**Between one conductor and other conductor connected to shield.
Nominal capacitance between conductors only, 16 mmf per foot.
***Between one conductor and other conductor connected to shield.
Nominal capacitance between conductors only, 36 mmf per foot.
††Between one conductor and other conductors connected to shield.
Nominal capacitance between conductors only, 41 mmf per foot.

shielded multiple conductor cables

Belden multiple conductor cables are developed for long service life, excellent mechanical and electrical characteristics, and uniform quality. These cables are used for a multitude of applications including power and interconnecting cords on radio receivers, electronic devices, speakers, analyzer test equipment, remote control circuits, and press-to-talk micro-
phone circuits.




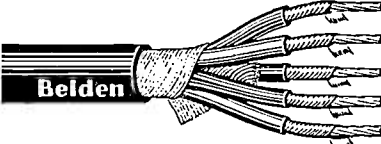


ILLUSTRATION	Trade Number	Lengths †Package and Color	A.W.G. and No. Condrs.	GENERAL CONSTRUCTION	Stranding	Nom. Insulation Thick. (inches)	Nom. Jacket Thick. (inches)	Fin-ished Cable O D (inches)
	*8424	50' CK 250' S Black	20-4	Tinned copper, flexible strand- ing; cotton wrap; rubber insu- lation, color coded; conductors cabled; rayon braid; tinned copper braid shield; cotton wrap; black rubber jacket	26x34	.020	.040	.305
	8425	50' CK 250' S Black	20-5	Same as 8424 except five con- ductors	26x34	.020	.040	.335
	8426	100' S Black	20-6	Same as 8424 except six con- ductors	26x34	.020	.040	.355
	8427	100' S Black	20-7	Same as 8424 except seven conductors	26x34	.020	.040	.370

*Also used as microphone cable.

†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN • multiple conductor cables

RUBBER-JACKETED PORTABLE CORD






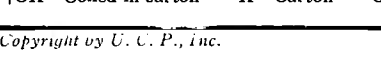

ILLUSTRATION	Trade Number	Lengths (Package and Color)	A.W.G. and No. Conds.	GENERAL CONSTRUCTION	Stranding	Insulation Thick. (inches)	Jacket Thick. (inches)	Finished Cable O. D. (inches)
 Underwriters' Approved Type SV	8452	100' S 500' S Black	18-2	Bare copper, flexible stranding; cotton wrap; rubber insulation, color coded; conductors cabled with fillers; cotton wrap; black rubber jacket	41x34	1/64	1/32	.245
 Underwriters' Approved Type POSJ-64	8453	100' S 500' S Black	18-3	Bare copper, flexible stranding; cotton wrap; rubber insulation, color coded; conductors cabled with fillers; cotton wrap; black rubber jacket	41x34	1/64	1/32	.275
 Underwriters' Approved Type POT-64	8454	100' S 500' S Black	18-4	Same as 8453 except four conductors	41x34	1/64	1/32	.265
 Belden	8455	100' S 250' S Black	20-3 18-2	Bare copper, flexible stranding; cotton wrap; rubber insulation, color coded; conductors cabled with fillers; cotton wrap; black rubber jacket	26x34 41x34	1/64	1/32	.285
 Underwriters' Approved Type POSJ-64	8462	100' S 250' S Brown	18-2	Bare copper, flexible stranding; cotton wrap, color coded; parallel conductors with rubber insulation and jacket integral	41x34	1/32		.123x .223
 Underwriters' Approved Type POT-64	8888	250' S Black	18-2	One bare and one tinned copper conductor, flexible stranding; parallel conductors with vinyl plastic insulation and jacket integral	41x34	1/32		.114x .231

Flexible, light weight and small diameter.

Applications include control, annunciator, and communications circuits.

BRAIDED PLASTIC-INSULATED CABLE




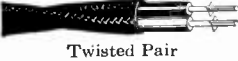
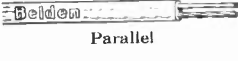
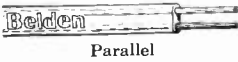


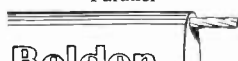





(See intercommunications cables, page 12, for shielded types.)

 8443	100' S 500' S Brown	22-3	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; conductors cabled; over-all brown cotton braid	7x30	.010	.140
 8444	100' S 500' S Brown	22-4	Same as 8443 except four conductors	7x30	.010	.153
 8445	100' S 500' S Brown	22-5	Same as 8443 except five conductors	7x30	.010	.167
 8446	100' S Brown	22-4 16-2	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; conductors cabled; over-all brown cotton braid	7x30 19x29	.010 .018	.218
 8447	100' S Brown	22-5 16-2	Same as 8446 except seven conductors	7x30 19x29	.010 .018	.235
 8448	100' S Brown	22-6 16-2	Same as 8446 except eight conductors	7x30 19x29	.010 .018	.240
 8449	100' S Brown	22-7 16-2	Same as 8446 except nine conductors	7x30 19x29	.010 .018	.260

†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN transmission line cables

NOMINAL ELECTRICAL PROPERTIES

ILLUSTRATION AND TYPE	Trade Number	Lengths and Package	A.W.G.	GENERAL CONSTRUCTION	Stranding	Finished Cable O.D. (inches)	Frequency (mc)	Attenuation Per 100 Ft (decibels)	Impedance (ohms)	Velocity of Propagation (per cent)	Capacitance Per Ft (mmf)	Puncturing Voltage (volts)
 Belden Coaxial	8216	50' S 250' S	14	Tinned copper, flexible stranding; low-loss rubber insulation; tinned copper braid shield; rubber jacket	19x27	.460	.5 1.0 5.0 10. 50. 100.	.30 .51 1.8 2.9 10.0 17.0	72.	56.	37.	30000
 Twisted Pair	8204	500' S	18	Tinned copper, flexible stranding; cotton wrap; low-loss rubber insulation, color coded; two conductors cabled; white cotton braid treated with weather-resistant compound	7x26	.190	.5 1.0 5.0 10. 50. 100.	.37 .53 1.4 2.3 7.4 12.3	72.	61.	21.	
 Twisted Pair (Shielded)	8209	500' S	18	Tinned copper, flexible stranding; cotton wrap; low-loss rubber insulation, color coded; two conductors cabled; paper wrap; tinned copper braid shield; white cotton braid, treated with weather-resistant compound	7x26	.235	.5 1.0 5.0 10. 50. 100.	.91 1.1 2.1 3.2 9.5 14.9	72.	57.	32.*	
 Twisted Pair	8205	500' S	22	Tinned copper, flexible stranding; paper wrap; rubber insulation, color coded; two conductors cabled; black cotton braid, treated with weather-resistant compound	7x30	.175						
 Belden Parallel	8222	100' S 500' S	20	One bare and one tinned copper conductor, flexible stranding; conductors parallel; polyethylene plastic insulation	7x28	.075 x.128	50. 100. 200. 300. 400. 500.	5.3 7.7 11.0 13.6 15.9 17.8	72.	69.	20.7	
 Belden Parallel	8223	100' S 500' S	20	Same as 8222	7x28	.075 x.143	50. 100. 200. 300. 400. 500.	3.5 5.1 7.2 8.9 10.3 11.5	100.	72.	16.3	
 Belden Parallel	8224	100' S 500' S	20	Same as 8222	7x28	.075 x.182	50. 100. 200. 300. 400. 500.	1.9 2.8 4.2 5.4 6.4 7.3	150.	76.	9.8	
 Belden Parallel	8225	100' S 500' S 1000' S	20	Same as 8222	7x28	.075 x.390	50. 100. 200. 300. 400. 500.	1.9 1.1 1.7 2.2 2.7 3.1	300.	85.	4.6	
 Belden Parallel	8235	100' S 500' S	18	Bare copper, flexible stranding; conductors parallel; polyethylene plastic insulation	7x26	.200 x.530	50. 100. 200. 300. 400. 500.	.70 1.10 1.73 2.28 2.74 3.18	300.	82.	5.8	35000
 Belden Parallel	8210	100' S 500' S	13	Bare copper, flexible stranding; conductors parallel; polyethylene plastic insulation	7x21	.166 x.278	50. 100. 200. 300. 400. 500.	2.2 3.1 4.4 5.5 6.3 7.0	72.	85.	22.	15000
 Belden Parallel (Shielded)	8226	100' S 500' S	20	One bare and one tinned copper conductor, flexible stranding; conductors parallel; polyethylene plastic insulation; tinned copper braid shield; black vinyl plastic jacket	7x28	.190 x.310	50. 100. 200. 300. 400. 500.	5.8 8.3 12.0 14.8 17.2 19.4	100.	64.	18.2*	
 Twisted Pair (Shielded)	8227	100' S 250' S	20	One bare and one tinned copper conductor; flexible stranding; polyethylene plastic insulation; two conductors cabled; polyethylene plastic jacket; tinned copper braid shield; black vinyl plastic jacket	7x28	.335	50. 100. 200. 300. 400. 500.	2.6 4.1 6.4 8.4 10.2 11.8	100.	62.	22.*	
 Coaxial	8229	100' S 500' S	22	Bare copper, solid; polyethylene plastic insulation; tinned copper braid shield; black vinyl plastic jacket	solid	.242	50. 100. 200. 300. 400. 500.	3.2 5.0 7.7 10.0 12.1 14.1	72.	67.	20.5	20000
 Coaxial	8228	100' S 500' S	20	Bare copper, solid; polyethylene plastic insulation; tinned copper braid shield; black vinyl plastic jacket	solid	.195	50. 100. 200. 300. 400. 500.	2.75 4.45 7.2 9.6 11.8 13.6	52.	66.	28.5	20000

*Capacitance between conductors.

†CK—Coiled in carton

K—Carton

CR—Crate reel

S—Spool





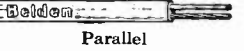
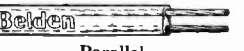
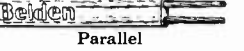
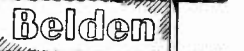

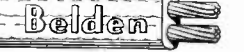




C—Coil

SK—Spooled in carton

Belden transmission cables are available for every receiving and low power transmitting antenna application. Coaxial, twisted pair, and parallel type lines are represented. These cables are designed to meet exacting electrical requirements and are mechanically strong, weather re-

sistant, and give long service life. Cables constructed with polyethylene insulation are especially suitable for very high frequency (VHF) and ultra high (UHF) ranges where the losses in ordinary types of transmission line cables are excessive.

TRANSMISSION LINE CABLE APPLICATIONS

	Lengths and Package	A. W. G.	Trade Number	ILLUSTRATION AND TYPE
72-Ohm cable for use with receiving and low power transmitting antenna at low frequencies. Also for heavy-duty high-voltage leads.	50' S 250' S	14	8216	 Coaxial
72-Ohm cable for use with doublet receiving antenna at low frequencies.	500' S	18	8204	 Twisted Pair
72-Ohm shielded cable for use with doublet receiving antenna at low frequencies to reduce noise pick-up. Also used for long runs in extension speaker installations.	500' S	18	8209	 Twisted Pair (Shielded)
Inexpensive cable for use with doublet receiving antenna at low frequencies. Also used for extension speaker and control circuits.	500' S	22	8205	 Twisted Pair
72-Ohm cable for use with receiving antenna at high frequencies.	100' S 500' S	20	8222	 Parallel
100-Ohm cable for use with receiving antenna, matching transformer, connecting link between electronic units, and experimental applications at high frequencies.	100' S 500' S	20	8223	 Parallel
150-Ohm cable for use with receiving antenna, matching transformer and experimental applications at high frequencies.	100' S 500' S	20	8224	 Parallel
300-Ohm cable especially recommended for use with television and FM receiving antenna. Exceptionally low losses at high frequencies.	100' S 500' S 1000' S	20	8225	 Parallel
300-Ohm heavy-duty cable especially recommended for use with television and FM receiving antenna. Also for low power transmitting antenna. Exceptionally low losses at high frequencies.	100' S 500' S	18	8235	 Parallel
72-Ohm cable for use with low power transmitting antenna at high frequencies.	100' S 500' S	13	8210	 Parallel
100-Ohm shielded cable for use with television and FM antenna to reduce noise pick-up.	100' S 500' S	20	8226	 Parallel (Shielded)
100-Ohm shielded cable for use with television and FM antenna in extremely noisy locations.	100' S 250' S	20	8227	 Twisted Pair (Shielded)
72-Ohm cable for use with television antenna.	100' S 500' S	22	8229	 Coaxial
52-Ohm cable for radio frequency transmission, video, test equipment, and pulse transmission.	100' S 500' S	20	8228	 Coaxial

BELDEN • hookup and lead wires

There is a Belden hook-up and lead wire construction for every service requirement—for receivers, transmitters,

amplifiers, rectifiers, aircraft radio, geophysical instruments, and in all other types of electric equipment.

HOOKUP WIRE CELLULOSE BRAID LACQUERED



Black, Blue, Green, Red, Yellow,
White, Brown, Orange

Black, Blue, Green, Red,
Yellow, White



Black, Blue, Green, Red, Yellow,
White, Brown, Orange

Black, Blue, Green, Red,
Yellow, White



Black, Blue, Green, Red,
Yellow, White



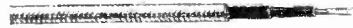
8864
8865

RUBBER-INSULATED PUSH-BACK

Colors:
Black, Blue, Green, Red, Yellow, White



SHIELDED HOOKUP WIRE



R-F PUSH-BACK WIRE CELLULOSE ACETATE BRAID WAXED



Trade Number	Lengths and Package	A.W.G.	GENERAL CONSTRUCTION AND COLORS	Stranding	Insulation Thick. (inches)	Finished OD (inches)	Nominal *D.C. Ins. Res. Per Ft (meg-ohms)	Nominal **Break-down Voltage (volts)
8941	25' CK 100' SK 1000' S	20	Tinned copper, solid; heavy cellulose acetate yarn wrap; cellulose acetate yarn braid; fungus-resistant lacquer coating	solid		.072	200	1000
8945	25' CK 100' SK 1000' S	18		solid		.080	200	1000
8943	25' CK 100' SK 1000' S	20	Tinned copper, flexible stranding; heavy cellulose acetate yarn wrap; cellulose acetate yarn braid; fungus-resistant lacquer coating	10x30		.077	200	1000
8947	25' CK 100' SK 1000' S	18		16x30		.087	200	1000
8942	25' CK 100' SK 1000' S	16		26x30		.099	200	1000
8938	25' CK 100' SK 500' S	14	(2 colors only; Red or Black)	41x30		.115	200	1000

DISPLAY ASSORTMENT

8864

Contents: 6 Rolls 8941. Size 20 solid; cellulose acetate wrap and braid lacquered. One each Black, Blue, Green, Red, Yellow, and White.

8865

Contents: 6 Rolls 8943. Size 20 flexible; cellulose acetate wrap and braid lacquered. One each Black, Blue, Green, Red, Yellow, and White.

General-use hook-up wire and as leads for transformers, speakers, and controls, in audio and power circuits. Furnished in the following 6 colors: Black, Blue, Green, Red, Yellow, and White. SPECIFY COLOR.

8837

25' CK
100' SK
1000' S

20

Tinned copper, solid; cotton wrap; unvulcanized rubber insulation; cellulose acetate yarn braid; fungus-resistant lacquer coating

solid

.010

.075

2000

2000

8838

25' CK
100' SK
1000' S

20

"SAME AS 8837 EXCEPT FLEXIBLE STRANDING"

10x30

.010

.081

2000

2000

8834

100' S
1000' S

20

Tinned copper, flexible stranding; paper wrap, rubber insulation; cellulose acetate yarn braid; fungus-resistant lacquer coating

10x30

.031

.127

10000

8000

8833

100' S
1000' S

18

Tinned copper, flexible stranding; paper wrap, rubber insulation; cellulose acetate yarn braid; fungus-resistant lacquer coating

16x30

.031

.136

10000

8000

Used in circuits where shielded grid return is required and to shield a circuit conductor from stray fields.

8885

25' CK
100' SK
500' S

20

Tinned copper, flexible stranding; rubber insulation; cellulose acetate yarn braid; fungus-resistant lacquer coating; tinned copper braid shield

10x30

.015

.117

5000

4000

Used on r-f circuits where low-loss properties are required. Furnished in following colors: Black, Blue, Green, Red, each with White Tracer, and Yellow and White, each with Black Tracer. SPECIFY COLOR.

8842

25' CK
100' SK
1000' S

22

Tinned copper, solid; two cellulose acetate yarn braids, waxed

solid

.060

1000

1000

8841

25' CK
100' SK
1000' S

20

Colors:
Black—White Tracer
Blue—White Tracer
Green—White Tracer
Red—White Tracer
Yellow—Black Tracer
White—Black Tracer

solid

.067

1000

1000

8861

25' CK
100' SK
1000' S

18

solid

.075

1000

1000

8863

25' CK
100' SK
1000' S

16

solid

.086

1000

1000

*Measurements for d-c insulation resistance were made by means of a megohm bridge at 300 volts on specimens in mercury after subjection to 90% relative humidity and 100 F for 24 hours.

**Measurements for insulation breakdown were made on specimens in mercury by application of gradually increasing 60-cycle a-c potential.

BELDEN • hook-up and lead wires

R-F PUSH-BACK WIRE
CELLULOSE ACETATE BRAID WAXED



8860



Trade Number	Lengths and †Package	A.W.G.	GENERAL CONSTRUCTION AND COLORS	Stranding	Insulation Thick. (inches)	Finished O D (inches)	Nominal *D-C Ins. Res. per Ft (meg-ohms)	Nominal **Break-down Voltage (volts)
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DISPLAY ASSORTMENT

8860 Contents: 2 Rolls 8941. Size 20 solid; cellulose acetate wrap and braid lacquered, Black and Red; 2 rolls 8943. Size 20 flexible; cellulose acetate wrap and braid lacquered, Blue and Green; 2 rolls 8913. Size 20 flexible; vinyl plastic, Yellow and White.

8810	25' CK 100' SK 1000' S	22	Tinned copper, flexible stranding; two cellulose acetate yarn braids, waxed	7x30		.065	1000	1000
8839	25' CK 100' SK 1000' S	20	Colors: Black—White Tracer Blue—White Tracer Green—White Tracer Red—White Tracer Yellow—Black Tracer White—Black Tracer	10x30		.072	1000	1000
8844	25' CK 100' SK 1000' S	18		16x30		.092	1000	1000
8862	25' CK 100' SK 1000' S	16		26x30		.095	1000	1000

General-use hook-up wire and as leads for radio components such as transformers, chokes, and controls. Furnished in the eight following colors: Black, Blue, Green, Red, Yellow, White, Brown, and Orange. SPECIFY COLOR.

Wires with 1/4" plastic insulation are designed for use within the chassis of radio receivers, amplifiers, instruments, controls, and other electronic devices. Wires with .025" plastic insulation are designed for use inside or outside the chassis but within the radio cabinet. The operating temperature limit for these wires is 80 C (176 F).

PLASTIC INSULATED



8858



8901	25' CK 100' SK 1000' S	20	Tinned copper, solid; vinyl plastic insulation Colors: Black, Yellow, Blue, White, Green, Brown, Red, Orange	solid	.015	.066	5000	8000
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8909	25' CK 100' SK 1000' S	20	Tinned copper, solid; vinyl plastic insulation Colors: Black, Yellow, Blue, White, Green, Brown, Red, Orange	solid	.025	.086	5000	12000
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DISPLAY ASSORTMENT

8858 Contents: 6 Rolls 8909. Size 20 solid vinyl plastic. One each Black, Blue, Green, Red, Yellow, and White.

8905	25' CK 100' SK 1000' S	20	Tinned copper, flexible stranding; vinyl plastic insulation Colors: Black, Yellow, Blue, White, Green, Brown, Red, Orange	10x30	.015	.075	5000	8000
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8913	25' CK 100' SK 1000' S	20	Tinned copper, flexible stranding; vinyl plastic insulation Colors: Black, Yellow, Blue, White, Green, Brown, Red, Orange	10x30	.025	.093	5000	12000
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DISPLAY ASSORTMENT

8859 Contents: 6 Rolls 8913. Size 20 flexible; vinyl plastic. One each Black, Blue, Green, Red, Yellow, and White.








8859

†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

*Measurements for d-c insulation resistance were made by means of a megohm bridge at 300 volts on specimens in mercury after subjection to 90% relative humidity and 100 F for 24 hours.

**Measurements for insulation breakdown were made on specimens in mercury by application of gradually increasing 60-cycle a-c potential.


BELDEN • intercommunicating and sound system cables

ILLUSTRATION AND APPLICATION	Trade Number	Lengths and †Package	A. W. G. and No. Condrs.	No. Pairs	GENERAL CONSTRUCTION	Tinned Copper Shielding	Stranding	Condr. Insulation Thickness (inches)	Finished Cable O D (inches)
 <p>For Station-to-Station and Extension Wiring (Unshielded)</p>	8740	100' S 500' S	22-2	1	Bare copper, solid; heavy formvar enamel coating; cotton braid; waxed; color coded; conductors cabled; over-all brown cotton braid	None	solid		.130
	8741	100' S 500' S	22-4	2		None	solid		.200
	8742	100' S 500' S	22-6	3		None	solid		.225
	8743	100' S 500' S	22-12	6	Tinned copper, solid; vinyl plastic insulated, color coded; conductors cabled in pairs; over-all brown cotton braid	None	solid	.010	.275
	8744	100' S 500' S	22-18	9		None	solid	.010	.320
	8745	100' S 500' CR	22-30	15		None	solid	.010	.415
 <p>For Station-to-Station and Extension Wiring (Shielded)</p>	8746	100' S 500' CR	22-54	27		None	solid	.010	.535
	8734	100' S 500' S	22-3	Not paired	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; three conductors cabled, one conductor tinned copper braid shield, and two conductors unshielded; over-all brown cotton braid	Over 1 conductor	7x30	.010	.155
	8735	100' S 500' S	22-3	Not paired	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; three conductors cabled; tinned copper braid shield; over-all brown cotton braid	Over 3 cabled conductors	7x30	.010	.170
	8737	100' S 500' S	22-2	1	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; conductors cabled; tinned copper braid shield; over-all brown cotton braid	Over 2 cabled conductors	7x30	.010	.155
	8738	100' S 500' S	22-2	1	Bare copper, solid; heavy formvar enamel coating; cotton braid; waxed; color coded; conductors cabled; tinned copper braid shield	Over 2 cabled conductors	solid		.125
	8739	100' S 500' S	22-2	1	Same as 8738 plus over-all brown cotton braid	Over 2 cabled conductors	solid		.160
 <p>For Station-to-Terminal Wiring (Unshielded)</p>	8747	100' S	22-12	6	Tinned copper, flexible stranding; vinyl plastic insulation, color coded; conductors cabled in pairs; over-all brown cotton braid	None	7x30	.010	.305
	8748	100' S	22-18	9		None	7x30	.010	.350
	8749	100' S	22-30	15		None	7x30	.010	.445
	8750	100' S	22-54	27		None	7x30	.010	.565
	 <p>For Station-to-Terminal Wiring (Shielded)</p>	8751	100' S	25-12 16-2	Not paired	Bare copper, flexible stranding; vinyl plastic insulation, parallel thread for color coding; 12 conductors 25-ga individually shielded, cabled (not paired) with 2 conductors 16-ga unshielded; over-all brown cotton braid	Over each 25-ga conductor only	7x33 19x29	.015 .012	.335
8752		100' S	25-22 16-2	Not paired	Same construction as 8751 except 22 conductors 25-ga individually shielded	Over each 25-ga conductor only	7x33 19x29	.015 .012	.485
 <p>P. A. Cable—Amplifier-to-Speaker</p>	8799	100' S 500' S	18-2	1	Bare copper, solid; heavy formvar enamel coating; cotton wrap; cotton braid; waxed; color coded; conductors cabled; tinned copper braid shield	Over 2 cabled conductors	solid		.165
	8432	100' S 500' S	20-2	Not paired	Tinned copper, flexible stranding; paper wrap; rubber insulation; cotton braid; lacquer coating; color coded; conductors cabled; tinned copper braid shield	Over-all	10x30	.015	.215
	8433	100' S 500' S	20-3	Not paired		Over-all	10x30	.015	.230


†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN • instrument and lead wires

photoelectric cell cable


Trade Number	Lengths † Package and Color	A. W. G.	GENERAL CONSTRUCTION	Stranding	Finished Cable O. D. (Inches)	Nominal Capacitance Per Ft (mmf)
 8221	100' S Black	25	Tinned copper and tinned steel, flexible stranding; cellulose yarn braid, polyethylene insulation; tinned copper braid shield; black vinyl plastic jacket	3x33 copper 4x33 steel	.240	20

phonograph pickup arm cable

 8431	100' S Brown	24	Tinned copper, flexible stranding; rubber insulation; tinned copper braid shield; fine brown cotton braid	16x36	.010	.085*
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 8014	25' ** 500' SK Chrome	25	Tinned copper, flexible stranding; chrome vinyl plastic insulation <i>**Packaged 25 ft on card, 5 cards in carton</i>	13x36	.010	.044
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cathode-ray tube lead cable

 8869	25' S 100' S Red with Two White Tracers	20	Tinned copper, flexible stranding; polyethylene plastic insulation, red cotton braid with 2 white tracers; lacquer coating	7x28	.035	.145	10000
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 8868	25' S 100' S Red	20	Same as 8869 except heavier insulation and solid red braid	7x28	1/16	.205	20000
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test prod wire

 8899	††14' CK 100' S 1000' S Red Black	18	Tinned copper, extra flexible stranding; cotton wrap; rubber insulation	65x36	.043	.140	5000
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 8898	100' S 500' S Red Black	18		65x36	.088	.230	10000
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*Suggested values.

††7' Red and 7' Black

magnet wire

SINGLE COTENAMEL

Size	Turns Per Linear Inch	Turns Per Square Inch	APPROX. LENGTH IN FEET	
			¼-Lb Spool	½-Lb Spool
14	14.1	199	....	39
16	17.4	303	....	61
18	21.4	458	....	97
20	26.1	681	....	154
22	31.9	1018	....	241
24	38.6	1490	....	376
26	46.4	2153	295	590
28	55.1	3036	458	916
30	64.7	4186	710	1420
32	74.6	5565	1090	2180
34	86.6	7500	1606	....
36	97.6	9526	2425	....

BELDENAMEL

Size	Turns Per Linear Inch	Turns Per Square Inch	APPROX. LENGTH IN FEET	
			¼-Lb Spool	½-Lb Spool
14	15.2	231	....	40
16	19.1	365	....	62
18	23.9	571	....	100
20	29.9	894	....	160
22	37.4	1399	....	250
24	46.9	2200	....	400
26	59.0	3481	....	638
28	73.8	5446	505	1010
30	92.2	8501	805	1610
32	114.0	12996	1270	2540
34	144.0	20736	2015	4030
36	180.0	32400	3200	6400
38	225.0	50625	5070	....
40	290.0	84100	8050	....







SINGLE NYLTENAMEL

22	34.9	1218	....	248
24	43.1	1857	....	390
26	52.9	2798	309	618
28	64.5	4160	487	974
30	78.1	6059	770	1540
32	93.4	8723	1202	2404
34	113.0	12769	1892	....
36	134.2	18009	2854	....

†CK—Coiled in carton K—Carton CR—Crate reel S—Spool C—Coil SK—Spooled in carton

BELDEN • replacement and extension cords

each cord bears Underwriters' label of approval

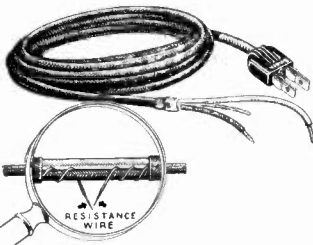
	Trade Number	Lengths †Package and Color	A.W.G.	GENERAL CONSTRUCTION	Stranding	Insulation Thickness (inches)	Finished Cable O.D. (inches)	Voltage* Rating (volts)
	1701	1 K	10 Ft Brown	Extension Cord—Size 18, Type POSJ-64. Extra-flexible all-rubber parallel lamp cord. Both ends unbreakable rubber. Does not mar floors or furniture. Safe for use on table tops.				
	1702	1 K	15 Ft Brown					
	1705	1 K	6 Ft Brown					
	1751	1 K	25 Ft Black	Extension Cord—Size 18, Type SV. All-rubber portable cord with Belden molded-on all-rubber connector and Belden unbreakable soft rubber plug.				
	1725	1 K	7 Ft 6 In. Brown	Replacement Cord—Size 18, Type POSJ-64. Extra-flexible all-rubber parallel lamp cord with Belden unbreakable soft rubber plug; opposite end stripped and tinned—ready for easy attachment. For lamps, radios, small appliances.				
	1749	1 K	6 Ft 3 In. Black	Replacement Cord—Size 18, Type SV. All-rubber portable cord with Belden unbreakable soft rubber plug; opposite end stripped and tinned—ready for easy attachment. For amplifiers, test equipment and small appliances.				
	8874	1 K	6 Ft Brown	Television Power Supply Connector Cord. Original equipment on most television sets. Size 18, Type POSJ-64. Extra-flexible all-rubber parallel lamp cord with Belden molded-on all-rubber connector and Belden unbreakable soft rubber plug.				
	8125	10 K		Male Connector—Flush mounting for use with 8874 cord connector set.				

headphone cords



8872	1 K	5 Ft Brown	Headphone Set, Pin tips all ends. 5 Ft of extra-flexible moisture-resistant rubber insulated tinsel cord. Over-all durable brown cotton braid. "Y" arm sections 15", coupled in series.
8873	1 K	5 Ft Brown	Headphone Set, Spade tips 4 phone ends. Pin tips plug end. 5 Ft of extra-flexible moisture-resistant rubber insulated tinsel cord; over-all durable brown cotton braid. "Y" arm sections 15", coupled in series.

AC•DC resistance cord



Trade Number	Resistance (ohms)	Color Marker	Voltage Drop at 0.3 Amps.	*Sum of Tube Voltages for		
				110 Volt Line	115 Volt Line	120 Volt Line
8920	1 K	Green*	40.5	69.5	74.5	79.5
8921	1 K	Yellow	49.5	60.5	65.5	70.5
8976	1 K	Orange	54.	56.	61.	66.
8929	1 K	Blue	66.	44.	49.	54.
8977	1 K	Grey	75.	35.	40.	45.
8922	1 K	Black	87.	23.	28.	33.
8923	1 K	Brown	99.	11.	16.	21.
8924	1 K	White	**84.	26.	31.	36.
8925	1 K	Red	***72.	38.	43.	48.

To determine the proper ac-dc line cord, add the filament voltages of the individual tubes in the receiver. From the chart at right, select the nearest figure under the heading SUM OF TUBE VOLTAGES in the column headed by the available power supply. Length 6 ft. Size 18.

*When line voltages other than those shown must be used, subtract sum of tube voltages from available line voltage to obtain voltage drop. The nearest figure in "Voltage Drop" column gives proper ac-dc cord to use.

Voltage drop at 0.175 amps. *Voltage drop at 0.75 amps.

BELDEN • Price List

Belden Trade Number	Unit Package & Length**	Suggested List Price Each	Belden Trade Number	Unit Package & Length**	Suggested List Price Each	Belden Trade Number	Unit Package & Length**	Suggested List Price Each	Belden Trade Number	Unit Package & Length**	Suggested List Price Each
1701	Brown	\$1.30	8422	100'	\$.09'	8810†	1000'	\$.02'	8905†	25'	\$.40
1702	Brown	1.45	8422	500'	.09'	8817	100'	.40	8905†	100'	1.25
1705	Brown	1.20	8423	50'	5.00	8833†	100'	.03'	8905†	1000'	.015'
1706	Brown	2.40	8423	250'	.11'	8833†	1000'	.03'	8909†	25'	.40
1709	Brown	2.75	8424	50'	6.25	8834†	100'	.02'	8909†	100'	1.35
1712	Brown	3.00	8424	250'	.14'	8834†	1000'	.02'	8909†	1000'	.015'
1715	Brown	3.25	8425	50'	7.25	8837†	25'	.50	8913†	25'	.45
1725	Brown	.55	8425	250'	.16'	8837†	100'	1.95	8913†	100'	1.55
1749	Black	.70	8426	100'	.20'	8837†	1000'	.02'	8913†	1000'	.015'
1751	Black	2.15	8427	100'	.21'	8838†	25'	.55	*8918	250'	.025'
*1777		.90	8431	100'	.04'	8838†	100'	2.00	*8918	1000'	.025'
8000	50'	.70	8432	100'	.07'	8838†	1000'	.02'	8920		1.25
8000	75'	1.00	8432	500'	.07'	8839†	25'	.55	8921		1.25
8000	100'	1.25	8433	100'	.09'	8839†	100'	2.00	8922		1.25
8000	1000'	11.40	8433	500'	.09'	8839†	1000'	.02'	8923		1.25
8002	50'	.53	8443	100'	.045'	8841†	25'	.50	8924		1.25
8002	75'	.70	8443	500'	.045'	8841†	100'	1.85	8925		1.25
8002	100'	.90	8444	100'	.06'	8841†	1000'	.02'	8929		1.25
8002	1000'	7.75	8444	500'	.06'	8842†	25'	.45	8938†	25'	.75
8005	75'	1.35	8445	100'	.07'	8842†	100'	1.65	8938†	100'	2.90
8005	100'	1.80	8445	500'	.07'	8842†	1000'	.02'	8938†	500'	.015'
8005	1000'	16.00	8446	100'	.10'	8844†	25'	.60	8941†	25'	.45
8006	100'	3.00	8447	100'	.11'	8844†	100'	2.25	8941†	100'	1.65
8006	1000'	28.25	8448	100'	.12'	8844†	1000'	.025'	8941†	1000'	.015'
8008	100'	1.95	8449	100'	.12'	8858		2.40	8942†	25'	.60
8008	200'	3.75	8452	100'	.05'	8859		2.70	8942†	100'	2.40
8008	500'	9.00	8452	500'	.05'	8860		2.80	8942†	1000'	.025'
8009	100'	1.35	8453	100'	.07'	8861†	25'	.55	8943†	25'	.50
8009	500'	6.00	8453	500'	.07'	8861†	100'	2.05	8943†	100'	1.80
8011	100'	1.95	8454	100'	.08'	8861†	1000'	.025'	8943†	1000'	.02'
8012	100'	1.40	8454	500'	.08'	8862†	25'	.70	8945†	25'	.50
8013	100'	1.05	8455	100'	.10'	8862†	100'	2.65	8945†	100'	1.90
8014	25'	.30	8455	250'	.10'	8862†	1000'	.03'	8945†	1000'	.02'
8014	500'	.015'	8462	100'	.03'	8863†	25'	.60	8947†	25'	.55
810e		.15	8462	250'	.03'	8863†	100'	2.45	8947†	100'	2.10
8103		.15	*8472		.08'	8863†	1000'	.025'	8947†	1000'	.025'
8104		.20	*8482		.015'	8865		3.00	8976		1.25
8125		.20	*8483		.025'	8868	25'	1.55	8977		1.25
8126		.15	8484	500'	.045'	8868	100'	.055'	8989	25c pkg.	.25
8127	10'	.23	8484	1000'	.045'	8869	25'	1.00	8989	100	.75
8200	100'	.015'	8650	100'	.08'	8869	100'	.03'	8989	1000	5.00
8200	500'	.015'	8651	100'	.06'	8872		1.25	8989	25c pkg.	.25
8200	1000'	.015'	8652	100'	.05'	8873		1.15	8992	100	.75
8201	50'	.88	8654	100'	.10'	8874		.70	8992	1000	5.00
8201	100'	.02'	8655	100'	.08'	8885	25'	1.00	8993	25c pkg.	.25
8201	250'	.02'	8656	100'	.07'	8885	100'	.04'	8993	100	.65
8201	500'	.02'	8657	50'	.11'	8885	500'	.04'	8993	1000	3.75
8201	1000'	.02'	8658	50'	.13'	8888	250'	.05'	8994		.65
8204	500'	.04'	8660	50'	.035'	8890		.30	8995	25c pkg.	.25
8205	500'	.03'	8660	250'	.035'	8892		.20	8995	100	.65
8206	250'	.02'	8661	50'	.05'	8895		1.10	8995	1000	3.75
8209	500'	.08'	8661	250'	.05'	8896		.55	8996	25c pkg.	.25
8210	100'	.07'	8662	50'	.19'	8897		.25	8996	100	.65
8210	500'	.07'	8662	250'	.19'	8898†	100'	.04'	8996	1000	3.75
8221	100'	.09'	8664	100'	.09'	8898†	500'	.04'	8997	25c pkg.	.25
8222	100'	.02'	8665	100'	.21'	8899†	14'	.50	8997	100	.65
8222	500'	.02'	8667	100'	.09'	8899†	100'	.025'	8997	1000	3.75
8223	100'	.02'	8668	50'	.05'	8899†	1000'	.025'	8998	25c pkg.	.25
8223	500'	.02'	8668	250'	.05'	8901†	25'	.30	8998	100	.50
8224	100'	.03'	8669	50'	.15'	8901†	100'	1.00	8998	1000	2.50
8224	500'	.03'	8669	250'	.15'	8910†	1000'	.015'	8999	25c pkg.	.25
8225	100'	.04'	8734	100'	.09'				8999	100	.50
8225	500'	.04'	8734	500'	.09'				8999	1000	3.10
8225	1000'	.04'	8735	100'	.09'						
8226	100'	.09'	8735	500'	.09'						
8226	500'	.09'	8737	100'	.07'						
8227	100'	.14'	8737	500'	.07'						
8227	250'	.14'	8738	100'	.04'						
8228	100'	.07'	8738	500'	.04'						
8228	500'	.07'	8739	100'	.06'						
8229	100'	.08'	8739	500'	.06'						
8229	500'	.08'	8740	100'	.03'						
8235	100'	.08'	8740	500'	.03'						
8235	500'	.08'	8741	100'	.06'						
8304		3.45	8741	500'	.06'						
8309		2.30	8742	100'	.07'						
8320		7.50	8742	500'	.07'						
8321		4.25	8743	100'	.09'						
8322		12.65	8743	500'	.09'						
8401	25'	1.90	8744	100'	.13'						
8401	50'	3.75	8744	500'	.13'						
8401	100'	.08'	8745	100'	.21'						
8401	500'	.08'	8745	500'	.21'						
8410	25'	2.50	8746	100'	.34'						
8410	50'	5.00	8746	500'	.34'						
8410	100'	.10'	8747	100'	.13'						
8410	500'	.10'	8748	100'	.18'						
8411	25'	1.55	8749	100'	.28'						
8411	100'	.06'	8750	100'	.48'						
8412	25'	2.40	8751	100'	.40'						
8412	50'	4.75	8752	100'	.65'						
8412	100'	.10'	8799	100'	.05'						
8412	500'	.10'	8799	500'	.05'						
8422	25'	2.25	8810†	25'	.55						
8422	50'	4.50	8810†	100'	2.00						

*New Item. †Specify Color. All prices subject to change without notice.

**Please indicate length desired, immediately following trade number, when more than one length is listed under the same trade number.

BELDENAMEL MAGNET WIRE			SINGLE COTENAMEL MAGNET WIRE			SINGLE NYLTEXENAMEL MAGNET WIRE		
Size	Suggested List Price		Size	Suggested List Price		Size	Suggested List Price	
	1/4 lb. Spools	1/2 lb. Spools		1/4 lb. Spools	1/2 lb. Spools		1/4 lb. Spools	1/2 lb. Spools
14	—	\$.70	14	—	\$.75	18	—	—
16	—	.70	16	—	.80	20	—	—
18	—	.70	18	—	.85	22	—	\$1.10
20	—	.70	20	—	.90	24	—	1.25
22	—	.70	22	—	.95	26	\$.80	1.45
24	—	.70	24	—	1.05	28	.90	1.70
26	—	.75	26	\$.65	1.15	30	1.15	2.15
28	\$.50	.80	28	.70	1.30	32	1.35	2.50
30	.50	.95	30	.85	1.60	34	1.70	—
32	.55	.95	32	1.00	1.85	36	2.50	—
34	.60	1.05	34	1.35	—			
36	.75	1.30	36	1.60	—			
38	.95	—						
40	1.35	—						

Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER



RADIO AND TELEVISION WIRE PRODUCTS

P-A WIRES and CABLES

HOLLYWOOD MICROPHONE CABLES (Shielded-Jacketed)

Substantially made to withstand rough usage. Special low capacity color coded conductors. Braided with tinned copper shield. Tough weatherproof polished jacket overall.

Single Conductor — unusually low capacity. Can be used up to 100 ft. with high impedance ribbon microphones and up to 50 ft. with crystal microphones.



Cat. No.	Conductors	Approx. Feet on Spool	Approx. Outside Diam.	List Price per M ft.
1105	1	100	5/32"	\$85.00
2104	1	500	5/32"	82.00
2101	1	1000	3/2"	80.00



Two Conductor, for low impedance microphones and transmission lines.

1152	2	100	1/4"	\$105.00
1153	2	250	1/4"	102.00
2152	2	500	1/4"	100.00
1154	3	100	3/8"	130.00
1155	3	250	3/8"	127.00
2153	3	500	3/8"	125.00
1156	4	100	3/8"	160.00
1157	4	250	3/8"	157.00
2154	4	500	3/8"	155.00

LAPEL MICROPHONE CABLE



Similar to No. 2101 except smaller in diameter.

1160	1	100	.175"	\$75.00
1161	1	500	.175"	72.00
2160	1	1000	.175"	70.00

SHIELDED CABLES



These cables are recommended for sound recording equipment and P.A. systems where a flexible shielded cable is necessary. Each conductor consists of multi-strand copper wire cotton served, rubber covered and braided with color-coded cotton. Conductors No. 20 gauge unless otherwise specified.

Cat. No.	Put-Up	List Price per M ft.
1114	100' Spool 2 Conductor	\$ 78.00
1115	250' Spool 2 Conductor	75.00
1116	100' Spool 3 Conductor	108.00
1117	250' Spool 3 Conductor	105.00
1118	100' Spool 4 Conductor	135.00
1119	250' Spool 4 Conductor	132.00
1120	100' Spool 5 Conductor	161.00
1121	250' Spool 5 Conductor	158.00
1122	100' Spool 6 Conductor	183.00
1123	250' Spool 6 Conductor	180.00

SHIELDED CABLES—COTTON BRAID OVERALL

Cat. No.	Put-Up	List Price per M ft.
1124	100' Spool 2 Conductor	\$ 98.00
1125	250' Spool 2 Conductor	95.00
1126	100' Spool 3 Conductor	135.00
1127	250' Spool 3 Conductor	132.00
1128	100' Spool 4 Conductor	163.00
1129	250' Spool 4 Conductor	160.00
1130	100' Spool 5 Conductor	193.00
1131	250' Spool 5 Conductor	190.00
1132	100' Spool 6 Conductor	223.00
1133	250' Spool 6 Conductor	220.00

RADIO BATTERY CABLE AND DYNAMIC SPEAKER EXTENSION CABLE

Multi-conductor cables having flexible conductors with overall heavy cotton braid. Individual conductor consists of stranded copper, rubber covered with color-coded cotton braid. Suitable to all types of P.A. Systems. Conductors No. 20 gauge.

Cat. No.	Put up in spool	List Price per M ft.	Cat. No.	Put up in spool	List Price per M ft.
228	3 Wire-100 Ft.	\$ 70.00	241	7 Wire-100 Ft.	\$137.00
219	4 Wire-100 Ft.	85.00	222	8 Wire-100 Ft.	153.00
221	5 Wire-100 Ft.	100.00	223	9 Wire-100 Ft.	170.00
231	6 Wire-100 Ft.	120.00	224	10 Wire-100 Ft.	188.00

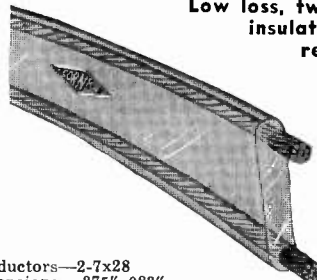
SHIELDED LEAD-IN AND GROUND WIRE

These products are made of flexible stranded copper conductors insulated with a substantial wall of high grade rubber with an overall of close tinned copper shield. They are most frequently used as a shielded down lead to ground out interference noises.

No. 20 1/32" R.C.	List Price Price	No. 18 1/32" R.C.	List Price Price
1143— 50 Ft. Coil....	\$ 1.80	1146— 50 Ft. Coil....	\$ 2.10
1144— 250 Ft. Spool....	8.00	1147— 250 Ft. Spool....	9.25
1145—1900 Ft. Spool....	30.00	1148—1000 Ft. Spool....	35.00

300-OHM TELEVISION DOWN-LEAD

Low loss, twin conductor, insulated with weather-resistant poly-ethylene



Put-Up	List Price Ea.
100 ft. spool....	\$3.70
250 ft. spool....	9.00
500 ft. spool....	17.50
1000 ft. spool....	34.00
	M Ft.
*Mill Reel....	30.00
	*about 2500 ft.

Conductors—2-7x28
Dimensions—.375"x0.83"
Nominal impedance—300 ohms.

RG-59U COAXIAL CABLE



Put-Up	List Price
100 Ft. Spool	\$10.20 ea.
500 Ft. Spool	49.75 ea.
Mill Real (about 2500 ft.)	95.00 M Ft.



RADIO AND TELEVISION WIRE PRODUCTS

INTERCOMMUNICATION CABLES

MULTI-PAIRED CABLES



Conductors are No. 22 solid tinned copper insulated with either vinyl plastic or double cotton impregnated braid—cabled in color-coded twisted pairs—with overall cotton braid.

Cat. No.	Put-Up	Width	List Price per M ft.
1225	2 Pair (O.D. approx. $\frac{3}{8}$ ")		\$ 54.00
1226	6 Pair (O.D. approx. $\frac{1}{2}$ ")		153.00
1227	13 Pair (O.D. approx. $\frac{1}{2}$ ")		325.00
1228	26 Pair (O.D. approx. $\frac{5}{8}$ ")		640.00

TWO CONDUCTOR SHIELDED CABLE



Consists of two No. 20 solid tinned copper plastic insulated conductors, color-coded and twisted with overall close tinned copper shield.

No. 1230 \$45.00

THREE CONDUCTOR CABLE

3 Conductors are No. 20 solid tinned copper, plastic insulated, color-coded, twisted, with overall treated cotton braid.

No. 1231 \$42.00

THREE CONDUCTOR (One Shielded)

Consists of a twisted pair of No. 20 solid tinned copper plastic insulated wires, and a single No. 20 solid tinned copper plastic insulated and shielded, all twisted, with over-all dry cotton braid.

No. 1232 \$75.00
 No. 1233—Same as No. 1232 except conductors are No. 22 solid \$63.00

FLEXIBLE CORDS (Fixture Wires — Lamp Cords)

Fixture wires often used as all-purpose radio and lead-in wire. Lamp cords used for power supply and extension cords. Colors: Brown, Black, Ivory.

Cat. No.	Put-Up	List Price per M ft.
3050—No. 18 Single, Type F, Cotton	1000 ft.	\$17.50
*3020—No. 18 Parallel, Type PO, Rayon	250 ft.	40.00
*3000—No. 18 Parallel, Type POSJ, All Rubber	250 ft.	32.50
*3300—No. 18 All Rubber Service Cord, Type SJ	250 ft.	60.00
*3500—Replacement Cord Set—6 ft. 18/2, POSJ, 1/64 with Molded Rubber Plug	.40 ea.	

*Has Underwriter's Labels.

AERIAL WIRE

STRANDED BARE WIRE — Copper

No.	Ft.	Size	List Price
40A	75-ft. coil	7/22	\$ 1.07
40	100-ft. coil	7/22	1.40
40B	1000-ft. spool	7/22	14.00
42A	75-ft. coil	7/24	.75
42	100-ft. coil	7/24	.95
42B	1000-ft. spool	7/24	9.50

LEAD-IN WIRE

STRANDED—Rubber Covered

No.	Ft.	Size	List Price	No.	Ft.	Size	List Price
300	50' coil	18- $\frac{3}{32}$ "	\$.60	302	500' spool	18- $\frac{1}{16}$ "	\$5.50
301	100' spool	18- $\frac{3}{32}$ "	1.10	303	1000' spool	18- $\frac{1}{16}$ "	10.50

LEAD-IN WIRE

SOLID—Rubber Covered

No.	Ft.	Size	List Price	No.	Ft.	Size	List Price
320	25' coil	18- $\frac{3}{32}$ "	\$.32	330	25' coil	20- $\frac{3}{32}$ "	\$.28
321	50' coil	18- $\frac{3}{32}$ "	.57	331	50' coil	20- $\frac{3}{32}$ "	.51
322	500' spool	18- $\frac{3}{32}$ "	5.25	332	500' spool	20- $\frac{3}{32}$ "	4.75
323	1000' spool	18- $\frac{3}{32}$ "	10.00	333	1000' spool	20- $\frac{3}{32}$ "	9.00

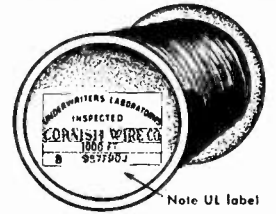
TWISTED PAIR DOWNLEAD

Two conductors, each No. 22 stranded copper, 1/32" rubber-covered (one black, one red), twisted and covered with overall black weatherproof braid.

No. 1122—List Mft. \$30.00

"NOFLAME-COR"—

The Television Hook Up Wire



Note UL label

For the first time a hook-up wire for the trade with Underwriters' Label attached. The famous "NoFlame-Cor" wire is approved for 90°C—600 volt usage.

SOLID				STRANDED			
Cat. No.	Size	Put-up	List Each	Cat. No.	Size	Put-up	List Each
470	22	100' spool	\$2.25	473	22	100' spool	\$2.45
471	20	"	2.55	474	20	"	2.80
472	18	"	3.15	475	18	"	3.40

RADIO HOOK-UP WIRE

"CORLAC" HOOK-UP WIRE

Special under-insulation makes this hook-up wire moisture-proof and gives voltage break-down of 3100 volts (as per certified report of Electrical Testing Laboratory, N. Y. C.). Excellent push-back in waxed finish. Tinned copper conductors.

WAXED			LACQUERED		
Cat. No.	Put-Up	List Each	Cat. No.	Put-Up	List Each
No. 22 SOLID					
434—	25 Ft. Cartons	\$.40	452—	25 Ft. Cartons	\$.46
436—	1000 Ft. Spools	10.60	454—	1000 Ft. Spools	12.50
No. 20 SOLID					
437—	25 Ft. Cartons	.48	455—	25 Ft. Cartons	.56
439—	1000 Ft. Spools	13.00	457—	1000 Ft. Spools	16.00
No. 22 STRANDED					
443—	25 Ft. Cartons	.44	461—	25 Ft. Cartons	.50
445—	1000 Ft. Spools	12.00	463—	1000 Ft. Spools	14.00
No. 20 STRANDED					
446—	25 Ft. Cartons	.52	464—	25 Ft. Cartons	.58
448—	1000 Ft. Spools	14.50	466—	1000 Ft. Spools	17.00
No. 18 STRANDED					
449—	25 Ft. Cartons	.64	467—	25 Ft. Cartons	.72
451—	1000 Ft. Spools	19.00	469—	1000 Ft. Spools	22.50

AC-DC ANTENNA WIRE

Flexible Bare copper conductor with brown cotton braid.

661	1000 Ft. Spools	\$10.00
661A	25 Ft. on Fibre	.33

TEST LEAD WIRE

A super flexible conductor covered with heavy live rubber. Will not wear, kink or crack. Made in Black and Red. Mention color when ordering. O.D.—.140".

1140	100 Ft. Spools	\$ 3.00
1141	500 Ft. Spools	13.00
1142	1000 Ft. Spools	25.00

Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

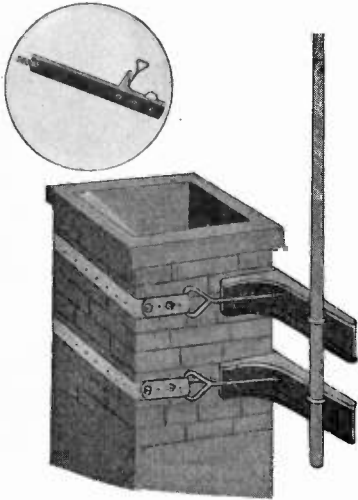
RADIO'S MASTER



Birnbach TV-FM ANTENNA ACCESSORIES

THE NEW MODEL No. 6000

CHIMNEY MOUNT ANTENNA BASE



Installation men have for years shown their preference for Birnbach Products — now, once again Birnbach shows the way. The New Birnbach Chimney Mount Antenna Base No. 6000 has received a ready and sensational acceptance. Its ease of installation, its unusual durability, versatility, and last but not least its very low price have all added up now once again, as in the past, that Birnbach has shown the way to quality at a low, low price.

Here it is . . . The New Birnbach Chimney Mount Antenna Base Model 6000 for . . .
FM • TELEVISION • AMATEURS

A Few of Its Many Features:

- **Simple — One Man Operation**
Sharply reduces installation time and cost.
- **No Drilling**
No special tools — no special equipment.
- **Fits All Chimneys and adaptable for posts, corners of buildings, etc.**
- **Two Separate Sections**
Longer distance between sections allows maximum mast support.
- **Base Castings Made of Strong Corrosion-Resistant Die Cast Aluminum Alloy — highest possible tensile strength.**
- **Easily Installed at Highest Elevation.**
- **Fits Masts 5/8" to 1 1/2" O.D.**
- **Complete With All Hardware — 2 — 12-ft. steel strapping, etc., ALL COMPLETELY RUST-RESISTANT.**
- **Simple Instructions.**

No. 6000 — Complete List Price \$5.50 Per Pair



WOOD SCREW ANCHOR

Especially designed to give permanent anchorage in any kind of masonry for insulated ribbon, coaxial or similar type standoffs. Threaded to take No. 10 Wood Screws and to fit 3/8" dia. hole. After partially inserting the threaded end of the standoff into this wood screw anchor and then using a pair of pliers to dig deeper into the anchor you have positive assurance of trouble-free installation. Rustproof, galvanized steel. Free tamping tool with each 100 anchors.

a permanent
Free tamping
tool with each
100 anchors.

No. 7039 Standard Package 100 List Price \$11.00 per C



MACHINE SCREW ANCHORS

These anchors are tapped for 1/4" machine screw bolts. Takes a 1/2" dia. hole and comes with a 3/4" long bolt. Gives permanent anchorage. Used for fastening wall mounts brackets and pipe straps to any type of masonry. Free tamping tool with each 100 anchors.

No. 7040 Stand. Pack. 100 List Price \$20.00 per C



ANCHOR BOLT ASSEMBLIES

This is the standard anchor used by installation companies for fastening wall mounts and pipe straps to masonry. Cannot pull out. Rustproofed. The 1/4" bolt comes with anchor and nut complete. Hole dia. 1/2". Available in 2" and 3" lengths of bolt. Designed to give permanent anchorage. Corrosion-proof. Free tamping tool with each 100 bolts.

No. 7041—2" Standard Package 100 List Price \$15.00 per C
No. 7042—3" Standard Package 100 List Price 15.00 per C



PIPE HANGER

Made of galvanized steel, this pipe hanger can be used for fastening poles, masts and other objects to walls, roofs, gables, etc.

No. 7038 Stand. Pack. 100 List Price \$0.10 ea.



LAG BOLTS

For permanently holding brackets, etc., in place. Made of galvanized steel, this sturdy bolt screws easily into wood, brick, etc. Available in four sizes: 1", 1 1/2", 2", 3". Specify size.

No. 7043 Stand. Pack. 100 List Price \$9.00 per C



EYE BOLT ASSEMBLIES

Designed for permanent anchoring of guy wires, cables, brackets, etc., in brick or masonry. Cannot pull out. Made of 1/4" material. Overall length 2 1/2". Dia. of eye 3/8". Hole dia. 3/8". Rustproofed. Use tamping tool No. 7046.

No. 7044 Stand. Pack. 100 List Price \$18.00 per C



PIPE BOLT ANCHORS

Used to mount pipe poles or antenna masts directly onto brick or masonry. Cannot pull out. Made of 1/4" stock for 1/2", 3/4" and 1" pipe. A very useful and superior bolt. Rustproofed. Use tamping tool No. 7046.

No. 7045 Stand. Pack. 100 List Price \$28.00 per C

TAMPING TOOLS



Special Tamping Tool for anchoring eye bolts and pipe bolts.
No. 7046 List Price \$4.75 ea.



Tamping Tool for 1/4" anchor bolts.
No. 7047 List Price \$2.00 ea.



3 IN 1 TOGGLE BOLTS

Strongest toggle bolt obtainable. Used for bolting or mounting to wood, hollow concrete, tile partitions or plaster walls. Can be used with nut end or screw end in wall. Bolt dia. 1/4". Bolt length 3". Rustproofed.

No. 7048 Stand. Pack. 100 List Price \$22.00 per C

STAR DRILLS



Made of hand-tempered and hand-forged high-grade tool steel for hand drilling in brick, stone and concrete. Standard package 12.

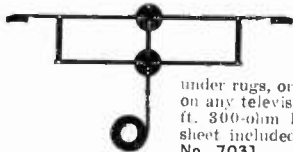
No. 7049—3/8" x 8" long List Price \$0.85 ea.
No. 7050—1/2" x 8" long List Price .90 ea.



Birnbach

TV-FM ANTENNA ACCESSORIES

NEW ALL CHANNEL INDOOR TELEVISION ANTENNA



Can be Used on All Television Sets
Flexible Folded Dipole Antenna for Television—covers all Television Channels (1-13) and FM. No problem to install indoors. Can be placed anywhere; in attic, under rugs, or any out-of-the-way location. Works on any television set. Freq. range 44-216 mc. 10 ft. 300-ohm lead transmission line. Instruction sheet included. Individually boxed.
No. 7031.....List Price \$2.95 ea.

FLEXIBLE FOLDED DIPOLE ANTENNAS

For Television (TV)



The flexible folded dipole antenna for Television is perfect for indoor use. This antenna can be placed in attics or in apartment houses; it can be placed under rugs, behind large couches, behind drapes covering windows, etc. This aerial can be oriented for best reception over all television stations. The new Birnbach indoor Television Antenna should prove a real seller for you. Transition loss measures 2.85 DB in television band.

No. 7027—Flexible Folded Dipole Antenna for Television (TV).....List Price (Individually Boxed) \$1.95 ea.
No. 7027HF—List Price (Individually Boxed) 1.50 ea.

For Frequency Modulation (FM)

The flexible folded dipole antenna for FM is excellent for all FM receivers. With the new FM Converters and Tuners now on the market you can enjoy a very lucrative sale on this low-priced antenna. Losses in line measure .85 DB per 100 feet at 100MC.

No. 7026—Flexible Folded Dipole Antenna for Frequency Modulation (FM).....List Price (Individually Boxed) \$1.65 ea.

For above antennas with 50 ft. lengths of 300 ohm Transmission Line add \$2.00 to the list price.

An attractive display card furnished to aid you in the sale of our two new products.



GUY WIRE CABLE CLAMPS (VIBRATION-PROOF)

New Vibration-Proof Lock Clamps for positive grip on guy wire. Weather-proofed throughout. Standard package 100.
No. 762.....List Price \$0.20 ea.



KNIFE SWITCHES

Made of special nickel-plated spring brass on a porcelain base. Screw terminals located conveniently for easy connections in circuit. Has two holes for mounting.

No.	Description	Standard Package	List Price
6100	S.P. S.T.	10	\$0.45 ea.
6102	S.P. D.T.	10	.55 ea.
6103	D.P. S.T.	10	.77 ea.
6104	D.P. D.T.	10	1.00 ea.

No. 6104 is widely used for switching from one television antenna to another.



U BOLT

Useful for mounting poles to steel plates, wooden sections, etc. Nuts and washers supplied. 2 1/4" overall; 1 1/4" thread length; 1 1/2" distance between legs, 3/4-20 size thread.

No. 7035.....Standard Package 50.....List Price \$0.30 ea.

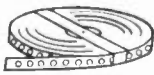
TELEVISION LOOM



This 3/8" Non Metallic Loom is used for the protection of twin lead and Coax Cable on television installations. Use short sections of this

loom over that part of the twin lead or Coax cable which comes in contact with any sharp edges such as corners of buildings, fire escapes, etc. Use friction tape to keep loom in place by binding the end of the loom to the cable.
No. 1013—25 ft.....List Price \$2.75 ea.
No. 1014—50 ft.....List Price 5.25 ea.
No. 1015—100 ft.....List Price 10.00 ea.

PERFORATED HANGER STRAPPING



Can be used and adapted for mounting Antenna Masts to various odd shaped objects; chimneys, towers, etc. Made of 3/8" x .023 galvanized steel strap. Tough but flexible.

No.	Standard Package	List Price
7032—12 ft. coil	25	\$0.75 ea.
7033—100 ft. coil	8	5.50 ea.



TELE-RAY FILTERS FOR BETTER TELEVISION IMAGE VIEWING

Outstanding Features:

- Scientifically compounded, optically perfected filtering for all models.
- Engineered to give a stereoscopic, life-like effect to the Television screen.
- Instantly and easily attached by special adhesive.
- Picture Contrast increased by elimination of unwanted light — softens grays — sharpens blacks.
- Image becomes sharp and clear with increased detail in room illumination.
- Glare from screen eliminated with resulting restfulness to eyes.
- Unbreakable.
- Bevelled edges (Super Quality).
- Both gauges have the correct rigidity for your viewing pleasure and are guaranteed not to bend or buckle under the most extreme operating conditions.
- Not to be confused with any cheap imitations of these quality-engineered products.
- Works on all Television sets.
- Individually packed with simple instructions.

Deluxe TELE-RAY FILTER—40 gauge		Super Quality TELE-RAY FILTER—80 gauge (Beveled Edges)	
No.	List Price	No.	List Price
7051—7" tube size	Each \$1.50	7056—7" tube size	Each \$3.25
7052—10" tube size	Each 2.00	7057—10" tube size	Each 4.25
7053—12" tube size	Each 3.25	7058—12" tube size	Each 7.00
7054—15" tube size	Each 5.50	7059—15" tube size	Each 8.50
7055—20" tube size	Each 8.00	7060—20" tube size	Each 14.50



DRIVE RING

Can be used for securing guy wire. Made of steel galvanized. When hammered in at an angle will remain secure under any condition.

No.	Standard Package	List Price
7036	100	\$0.10 ea.



BRIDLE RING

Ruggedly constructed. Will stand up under maximum strain. Made of galvanized steel.

No.	Standard Package	List Price
7037	100	\$0.10 ea.



GUY SCREW ANCHOR

Designed to be added to existing masts where guy wires are necessary. By drilling a 1/8" hole through mast. Secure any size guy wire. Rustproof. Complete with nut and washer.

No. 1971.....Standard Package 50.....List Price \$0.10 ea.



INSULATED WIRING NAILS

Perfected for twin lead indoors. The minimum of metal, in the head and wide fibreboard giving firm support to plastic band creates an extremely low capacity effect which does not interfere with TV reception. Fully insulated. Standard package 100 to a box (1000 to a carton).

No. T42—White or Brown.....List Price \$7.50 per M



Birnbach

TV-FM ANTENNA ACCESSORIES

LEADIN STRIPS



Covered with a heavy cotton braid, weather-proofed.

No.	Lgth.	Std. Pkg.	List Price Each
611	Black 12"	50	\$0.11
613	White 12"	50	\$0.12

Screw Terminal Leadin Strip



Locks the wire together with the strip in a secure connection assuring perfect contact. Has weather-proof covering over a copper strip with cadmium plated terminals. Available in white or black.

No.	List Price Std. Pkg. Each
617	Leadin Strip 50... \$0.17
2617	Doublet Leadin Strip 25... .35

COPPER STRAP CLAMP



Will take 3/8" to 2" Pipe.
No. 600—Std. pkg. 50. Ea. \$0.10 List

ADJUSTABLE FLEXIBLE PIPE CLAMP

This outstanding adjustable pipe clamp fits all masts and poles from 3/8" to largest size pipe. This clamp, when placed under the Birnbach free floating guy ring provides an excellent anchor for attaching guy wires.



No. 627—Std. pkg. 50. Ea. \$0.25 List

SADDLE GROUND CLAMPS

These ground clamps have a hard pointed screw which digs through rust and makes a positive contact. Fits a 3/8" to 2" pipe.



No.	List Price Std. Pkg. Each
625	Heavy Saddle Clamp 50... \$0.20

FLOATING GUY WIRE RING

This free floating ring fits 1", 1 1/2", 1 3/4" O.D. Masts and telescopes easily over smaller upper mast, and rests on shoulder of mast section.



No. 7034—Std. Pkg. 100... List \$0.25

MAST Standoff ASSEMBLY

For fast mounting of twin lead. Lead slips easily into sturdy insulated insert. This assembly will fit around all size masts from 3/8" to 2" pipes. Standard package 50.



No. 628... Ea. \$0.40 List Price

GLASS INSULATORS



Made of crystal clear glass and have a smooth surface which prevents dirt or ice

No.	Std. Pkg.	List Price
00—3"	100	\$8.00

PORCELAIN INSULATORS AND NAIL-IT KNOBS



No.	Porcelain Insulators	Std. Pkg.	List Price
666	Brown or White	100	\$8.75
669	Glazed Nail-It Knobs	100	7.50

GROUND RODS



No.	Std. Pkg.	List Price
616	4 Ft.	12 ea. \$1.50
618	6 Ft.	12 ea. 2.25

AIRPLANE SPRINGS



This rustproof steel spring cadmium-plated throughout provides a compact compression spring for taking up slack in the guy due to any great pull or strain on antenna during a heavy storm.

No. 764. Std. Pkg. 100. Ea. \$0.33 List

AERIAL SPRING ADJUSTER



Prevents swinging and swaying of antennas. Consists of two books with porcelain rings interconnecting with a powerful compression spring. Cadmium-plated.

No. 765... Ea. \$0.90 List Price

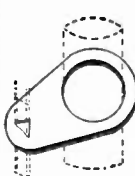
PORCELAIN TUBES



3/4" Dia. Hole.

No.	Std. Pkg.	List Price
42	2"	100... C \$5.00
43	3"	100... C 6.00
44	4"	100... C 7.50
46	6"	100... C 10.50
48	8"	100... C 15.00

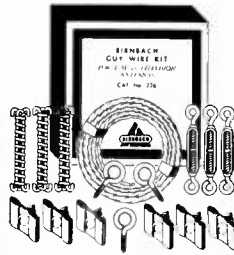
RUBBER STANDOFF INSULATOR



Can be used with either RG59U type cable or ribbon type line. It is heavy, rugged, and weather-proof. Will fit all antenna masts up to 1 1/2". Tough, resilient rubber. It will keep all cables away from poles.

SPECIFY SIZE DESIRED.

Standard Package 100.
No. 968... Ea. \$0.10 List Price



No. 226 Standard Package 24 List Price, Each \$3.40
A "Natural" for your customer's Television pleasure

TV-FM GUY WIRE KIT

A compact and complete kit. Do not allow your new television installation to be destroyed by the first windstorm. A necessary addition for successful television service. Assures a trouble-free and efficient installation with a minimum of effort and cost. Simple and complete directions with each individually boxed kit. Contains 50 ft. 6 strands heavy No. 20 guy wire, 3 No. 665 screw eyes, 3 Birnbach No. 763 turnbuckles, 3 Birnbach No. 764 Springs, 6 Birnbach Vibration-proof No. 762 Clamps. Boxed.

GUY WIRE

Finest quality guy wire obtainable. Constructed of high tensile strength galvanized steel stranded twisted wire. Ideal for guying up television transmitter, receiver masts and poles. Made of 6 strands No. 20. Fully weather-proofed. A real necessity for television installers.



450 lbs. Tensile Strength.

No.	List Price
19	25 ft. coil... Each \$0.44
20	50 ft. coil... Each .88
221	100 ft. coil... Each 1.76
220	500 ft. spool... Each 8.38
1220	1000 ft. spool... Each 16.75

GUY WIRE

This low priced guy wire can be used on short runs and where maximum tensile strength is not required. It has 4 strands of No. 20 high tensile twisted steel galvanized wire. Fully weather-proofed.



225 lbs. Tensile Strength.

No.	List Price
20A	50 ft. ... Each \$0.65
221A	100 ft. ... Each 1.25
220A	500 ft. ... Each 6.25
1220A	1000 ft. ... Each 12.00

DOUBLET LIGHTNING ARRESTERS



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. 2650—Doublet Lightning Arrester Std. Pkg. 25... List \$0.50

RADIO LIGHTNING ARRESTER
No. 2650—Std. Pkg. 50. Ea. \$0.56 List

INSULATED STANDOFFS

TWIN LEAD TYPE

This insulated twin lead standoff is quality engineered and is constructed of low loss insulating material. These sturdy insulators are slotted to take the 300-ohm ribbon type line and are solidly held by the eye of the cadmium-plated steel screws. The No. 1965—3" machine screw twin lead standoff is designed for mounting directly on a metal mast—uses a 10/32 thread.



No.	Standard Package	List Price
1963	3" 100	Each \$0.10
1965	3" M.S. 100	Each .15
1964	7" 100	Each .15
1967	12" 25	Each .25

SCREW EYES — BAKELITE EYES



No.	Standard Package	List Price
963	3" 100	Per C \$11.25
964	7" 50	Per C 13.75
967	12" 25	Per C 37.50



TURNBUCKLES

Constructed of rustproofed galvanized steel. Used to take up any slack in guy wire. Convenient, durable, dependable.
No. 763... Standard Package 100... Each \$0.27 List Price

Birnback HOOK-UP WIRE



SPECIAL SPOOL ASSORTMENT \$1.10 LIST PRICE

No.	Ft.	Size	Type	No.	Ft.	Size	Type
3000	.65	.22	Solid Pushback	3013	.60	.18	Solid Leadin
3001	.55	.20	Solid Pushback	3014	.65	.18	Stranded Leadin
3002	.45	.18	Solid Pushback	3015	.35	.18	Stranded Lacquered
3003	.35	.16	Solid Pushback	3016	.75		Brown & White AC-DC Wire
3004	.30	.14	Solid Pushback	3017	.30		Kinkless Wire
3005	.55	.22	Stranded Pushback	3018	.20	.18	Twisted Lamp Cord
3006	.45	.20	Stranded Pushback	3019	.45	.18	Single Fix. Wire
3007	.40	.18	Stranded Pushback	3020	.25	.18	Parallel Silk
3008	.30	.16	Stranded Pushback	3021	.15	.18	Blk., Wht., Bun. Zip Cord
3009	.20	.14	Stranded Pushback	3022	.100	.18	Solid Tinned
3010	.50	.18	Colored Rubber	3023	.75	.18	Bell Wire
3011	.35	.16	Colored Rubber	3024	.15	.18	Shielded Wire
3012	.30	.14	Stranded Leadin				

FREE DISPLAY

One Display is given with each initial order for 100 spools. Each Display made of strong, re-inforced steel, mahogany crackle finish with attractive 3 color Display at top. Space provided to indicate YOUR resale price.

EXTRA DISPLAY RACKS AVAILABLE AT \$3.25 EACH, NET

Height — 24" Width — 12 1/2"



Thermoplastic Synthetic Insulated Radio and Electronic Hook-up Wire (Fungus Proof)

★ SPECIFICATION JAN-C-76 ★

Type SRIR—1000 Volt



COLORS:

Black Red
Gray Yellow
Brown Purple
White Green
Blue Orange
Dk. Blue Pink
Tan

Note: For 25,000 feet of on color, deduct 10% of List Prices above.

Approx. AWG Cat. No.	Navy Standard Conductor Designation	Conductor Construction	Nom. Wall	Max. O. D.	List Price Per M. Ft.
7024—24 Stranded	(16)	16 wires .005"	.013"	.053"	\$16.50
7000—22 Solid	3/5 (1)	.0253 solid	.015"	.062"	12.50
7001—22 Stranded	3/5 (7)	7 wires .010	.015"	.066"	15.00
7002—20 Solid	1 (1)	.032 solid	.015"	.068"	15.00
7003—20 Stranded	1 (10)	10 wires .010	.015"	.071"	19.50
7004—18 Solid	1 1/2 (1)	.0403 solid	.015"	.076"	19.00
7005—18 Stranded	1 1/2 (16)	16 wires .010	.015"	.083"	22.50
7007—16 Stranded	2 1/2 (26)	26 wires .010	.015"	.096"	37.50
7009—14 Stranded	4 (41)	41 wires .010	.018"	.120"	55.00
7011—12 Stranded	6 (65)	65 wires .010	.018"	.140"	80.00

The above items meet all requirements of Army-Navy joint specification JAN-C-76. Type SRIR for plain resin construction where highest resistance to fungus growth is required.

SPECIFICATIONS FOR THE JAN-C-76

- I—Electrical Properties:
 - A—Dielectric strength
 - B—Insulation resistance
 - C—Creepage resistance
- II—Mechanical Properties:
 - A—Low temperature flexibility
 - B—High temperature stability
 - C—Resistance to heat deformation
 - D—Abrasion resistance
 - E—Low moisture absorption
- III—Chemical and Other Properties:
 - A—Resistance to common solvents
 - B—Flame resistance
 - C—Fungus resistance

SHIELDED LEAD-IN WIRE



Used to prevent the pickup of interference or man-made static. Consists of a stranded tinned copper conductor with a wall of live rubber over which a tinned copper braid is woven.

No. 20—1/64"

No.	Ft.	Cap. mmfd. per Ft.	O. D.	List Price
810—500 Spool	.105	.090		\$25.00

No. 18—1/64"

807—25 Coll	.125	.100		\$ 1.30
809—100 Spool	.125	.100		5.00
803—250 Spool	.125	.100		\$2.50

No. 16—1/32"

825—25 Coll	.90	.145		\$ 1.75
851—100 Spool	.90	.145		6.50
802—250 Spool	.90	.145		15.00

No. 14—3/64"

804—25 Coll	.95	.185		\$ 2.25
806—100 Spool	.95	.185		8.50
801—250 Spool	.95	.185		22.50

RADEX SLIPBACK HOOKUP WIRES

It has a covering of rubber over a cotton wrap and is then covered with a bright color cotton braid and dipped into paraffin. This construction will not cause the cotton insulation to fray or bunch up when pushed back. It has a high dielectric strength and will withstand all climatic changes without breakdown.



25 FT. COILS				100 FT. SPOOLS				500 FT. SPOOLS			
Size	No.	List Price	Stranded No. List Price	Size	No.	List Price	Stranded No. List Price	Size	No.	List Price	Stranded No. List Price
20	280	\$0.56	281 \$0.63	20	280	\$2.25	281 \$2.50	20	280	\$11.20	281 \$12.60
18	282	.77	283 .84	18	282	2.50	283 2.80	18	282	482	483 4.40
16	284	.87	285 .94	16	284	3.10	285 3.40	16	284	484	485 4.70
14	286	1.05	287 1.26	14	286	4.20	287 5.00	14	286	486	487 5.50
12	288	1.61	289 1.75	12	288	6.50	289 7.00	12	288	488	489 8.25

1000 FT. SPOOLS				SOLID WIRE PUNCTURE VOLTAGE			
Size	No.	List Price	Stranded No. List Price	No. 20	60 Cycle A.C.	No. 18	2100
20	580	\$21.00	581 \$23.25	No. 16	2100	No. 14	2100
18	582	24.50	583 26.00	No. 12	2200		
16	584	28.00	585 31.50				
14	586	35.00	587 39.50				
12	588	63.00	589 70.00				

STRANDED WIRE PUNCTURE VOLTAGE			
No.	60 Cycle A.C.	No.	2300
No. 20	2100	No. 14	2200
No. 18	2200	No. 12	2300
No. 16	2200		

COLORS—Black, Red, Blue, Yellow, Green, White, Brown



This wire is constructed of quality materials and carefully insulated with a cotton wrap over which a cotton braid is closely woven, and then saturated with paraffin.

SOLID COLORS—Red, Black, Green, Blue, Yellow, White.
TRACER COLORS—Red, Black, Green, Blue, Yellow, Brown.

25 FT. COILS				100 FT. COILS			
Size	No.	List Price	Stranded No. List Price	Size	No.	List Price	Stranded No. List Price
22	70	\$0.42	71 \$0.49	22	70	\$1.70	73 \$2.00
20	80	.50	81 .56	20	80	2.00	85 2.25
18	82	.56	83 .63	18	82	2.25	87 2.55

500 FT. SPOOLS				1000 FT. SPOOLS			
Size	No.	List Price	Stranded No. List Price	Size	No.	List Price	Stranded No. List Price
22	74	\$8.50	75 \$10.00	22	74	\$15.50	77 \$17.50
20	88	10.00	89 11.20	20	88	17.50	93 19.60
18	90	11.20	91 12.60	18	90	21.00	95 24.00

Puncture Voltage 60 Cycle A.C. 1500



Birnbach

CABLE and TRANSMISSION LINE

— COAXIAL CABLE —

PA and COMMUNICATING SYSTEM CABLES



Shielded Twisted Pair

Constructed of solid enameled wire with a cotton wrap color coded cotton braid twisted pair waxed, and bare copper braid woven overall.

No.	Size	O.D.	List Price
821—100 Ft.	.22	.125	\$ 6.75
822—500 Ft.	.22	.125	32.00
823—100 Ft.	.19	.145	8.00
824—500 Ft.	.19	.145	37.50



Armored Speaker Cable

Constructed of 2 No. 18 stranded parallel conductors of rubber color coded cotton braid waxed, paper wrap and closely armored.

No.	Size	O.D.	List Price
1110—100 Ft.	.18 $\frac{1}{2}$	.155 x .260"	\$10.00
1111—250 Ft.	.18 $\frac{1}{2}$	.155 x .260"	20.00
1112—500 Ft.	.18 $\frac{1}{2}$	.155 x .260"	40.00
1113—1000 Ft.	.18 $\frac{1}{2}$	.155 x .260"	80.00

Rubber Shielded Microphone Cable



Consists of individual flexible tinned copper conductors, each insulated with a heavy wall of colored rubber for easy identification. A tinned copper shield is woven over all conductors, and then cotton wrapped. A 1/32 wall of tough rubber is placed overall. It is a weatherproof cable, ideal for outdoor use, and will withstand hard and rough usage.

No.	No. Conds.	Ft.	Size	Cap. bet. Cond. mmdfs.	Cap. bet. Cond. mmdfs.	O.D.	List Price
772	2	100	20	55	31	.270	\$15.00
1772	2	250	20	55	31	.270	35.00
773	2	100	20	58	33	.305	19.50
1773	3	250	20	58	33	.305	48.75
774	4	100	20	48	28	.345	22.50
1774	4	250	20	48	28	.345	59.75
775	5	100	20	51	29	.395	27.50
1775	5	250	20	51	29	.395	68.75
776	6	100	20	45	27	.405	32.00
1776	6	250	20	45	27	.405	80.00
777	7	100	20	49	27	.420	35.00
1777	7	250	20	49	27	.420	87.50

RUBBER S. J. CABLE



Consists of individual flexible tinned copper conductors, each insulated with a heavy wall of colored rubber for easy identification. A 1/32 wall of tough polished rubber is placed overall. It is a weatherproof cable, ideal for outdoor use, and will withstand hard and rough usage.

Cat. No.	No. Conds.	Ft. Spool	O.D.	List Price
788	2	100	.250	\$12.00
789	2	250	.250	28.25
790	3	100	.300	15.25
791	3	250	.300	35.00
792	4	100	.325	19.50
793	4	250	.325	45.00
794	5	100	.370	24.00
796	6	100	.400	30.00
797	6	250	.400	70.00
798	7	100	.400	35.00
749	8	100	.460	40.00

FM and TELEVISION TWIN LEAD 300 OHM TRANSMISSION WIRE



Has full thickness insulation throughout. Polyethylene insulation resists oil, acids and abrasions. Minimizes the effects of attenuation. Reduces distortion.

R.M.A. STANDARD

Conductors, Bare Copper	7/No. 28 AWG
Insulating Material	Polyethylene
Weight per 1000 ft.	14.1 lbs.
Impedance	300 Ohms
Attenuation in Decibels per 100 ft.:	
50 MC	0.68
100 MC	0.85

No. 7028—50 ft. coils List Price \$2.25 ea.
 No. 7029—100 ft. coils List Price 4.50 ea.
 No. 7030—1000 ft. spools List Price 40.00 ea.
 50-ft. and 100-ft. coils individually boxed

COPPERWELD ANTENNA WIRE (STRETCHLESS)



Has steel core covered with copper heavily enameled. High tensile strength—several times that of enameled copper wire. Low I.P. resistance, ideal for transmitting doublet and directional antenna systems. Will maintain frequency characteristics of antenna.

LIST PRICES

Feet	No. 10	No. 12	No. 14
100	\$ 4.50	\$ 3.15	\$ 1.90
250	11.25	7.75	5.25
500	22.50	15.50	10.25
1000	43.75	30.50	20.00
2500	108.00	76.00	49.50

TENSILE STRENGTH

No. 10	1130 lbs.
No. 12	720 lbs.
No. 14	400 lbs.

SPECIAL LENGTHS AVAILABLE ON ORDER

Crystal Microphone Cable



For use with crystal and ribbon microphones. They are designed for low capacity and low losses. Constructed of tinned stranded conductor with a wall of low capacity rubber and closely woven shield and tough rubber wall overall.

No.	Ft.	Size	Cap. mmdfs.	O.D.	List Price
872	100 Crystal	20	37	.270	\$12.00
1872	250 Crystal	20	37	.270	28.50
870	100 Lapel	20	60	.175	9.00
1870	250 Lapel	20	60	.175	22.50
871	100 Lapel	20	50	.155	9.00
1871	250 Lapel	20	50	.155	22.50

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. Used to prevent interference from being picked up.

No.	No. Conds.	Ft.	Size	Cap. bet. Cond. mmdfs.	Cap. bet. Cond. mmdfs.	O.D.	List Price
972	2	100	20	76	61	.205	\$9.50
973	3	100	20	90	50	.210	11.00
974	4	100	20	62	35	.285	14.00
975	5	100	20	61	43	.290	17.00
976	6	100	20	95	48	.300	20.00
977	7	100	20	87	41	.340	25.00
978	8	100	20	103	61	.345	29.00
979	9	100	20	100	57	.360	32.50
980	10	100	20	107	80	.375	37.00

HEAVY DUTY S. J. CABLE

Cat. No.	No. Conds.	Ft.	Gauge	O.D.	List Price each
574	2	500	No. 18	.300	\$45.00
578	2	500	No. 16	.325	54.00

73 OHM COAXIAL CABLE RG-59/U

Constructed of No. 22 solid plain copperweld with .146 O.D. Dielectric insulation, then with copper inner shield and Black Vinyl jacket. Overall O.D. is .242. Nominal impedance 73 ohms. Nominal capacitance 21 mmf. per ft. Permits peak receiver performance without distortion. Meets all requirements for Television and FM range.

Attenuation (Mc)	10	30	100	300	400
DB per 100 ft.	1.0	2.0	3.8	7.0	7.9

No.	List Price
907—100 ft. Spool	\$15.00
908—250 ft. Spool	36.00
909—500 ft. Spool	70.00
910—1000 ft. Reel	137.50

SHIELDED TRANSMISSION CABLE



Twisted, shielded 2-cond. 72-ohm transmission cable. Weather-proof, reduces interference. A matching stub is recommended with this cable in place of 300-ohm line. 2-cond. No. 22 strands, shielded.

No. 1978—100 ft.	List Price \$10.50 ea.
No. 1978—100 ft.	List Price \$10.50 ea.
No. 1980—1000 ft.	List Price \$7.50 ea.

Commercial Type Twisted Pair (No. 18 STRANDED)



This cable is used extensively as original equipment of master antenna systems. It is constructed of 2 No. 18 tinned stranded conductors insulated with a special grade of rubber color coded and covered with a white weatherproof cotton braid.

No.	Ft.	List Price	Surge Imp. per Freq. (Ohms)	Loss 100'
916—50 Spool		\$3.25		
917—100 Spool		6.00	10 Mes. 82	2.1
918—250 Spool		12.00	20 Mes. 82.5	3.9
919—500 Spool		23.75	40 Mes. 82.3	6.3
920—1000 Spool		47.50		

BATTERY CABLE



Constructed of individual rubber insulated stranded conductors, cotton braided and color coded. A closely woven cotton braid overall.

No.	No. Conds.	Ft.	Size	O.D.	List Price
172	2	100	20	.200	\$6.00
173	3	100	20	.205	8.00
174	4	100	20	.260	10.00
175	5	100	20	.300	12.00
176	6	100	20	.320	14.50
177	7	100	20	.340	17.50
178	8	100	20	.370	20.50
179	9	100	20	.400	23.00
180	10	100	20	.410	25.00
182	12	100	20	.430	30.00

All Cables Available in Special Lengths

Shielded Battery Cable (Cotton Braid Overall)



Constructed of individual tinned stranded copper with a wall of rubber and covered with a colored cotton braid.

No.	No. Conds.	Ft.	Size	Cap. bet. Cond. mmdfs.	Cap. bet. Cond. mmdfs.	O.D.	List Price
1972	2	100	20	120	65	.215	\$10.50
1973	3	100	20	86	49	.240	15.00
1974	4	100	20	103	46	.295	18.00
1975	5	100	20	78	38	.312	21.00
1976	6	100	20	70	36	.330	25.00
1977	7	100	20	68	35	.350	28.00

Diathermy Cable

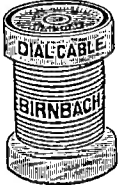


Specially designed for use with electrotherapy apparatus. It is extremely flexible with a special grade of tough live flexible jacket to withstand the exacting service required.

No.	Ft.	Breakdown Voltage 60 Cycles A.C.	O.D.	List Price
756	100 Spool	20,000	.300	\$ 14.00
757	1000 Reel	20,000	.300	126.00

Birnbach

BIRACO TUBING DIAL and MAGNET WIRE



DIAL CABLE 42 Strand Phosphor Cable

Constructed of the finest phosphor bronze wire over a linen thread center. Due to its high tensile strength, it will not stretch.

- No. 1025—25' Spool List Price \$1.20 each
- No. 1050—50' Spool List Price 2.25 each
- No. 1051—100' Spool List Price 4.00 each
- No. 1052—1000' Spool List Price 33.00 each

Phosphor Bronze (Light Cable)

A lower quality cable than No. 1025, but a cable that will give good service. This is a braided Phosphor Bronze cable.

- No. 1053—25' Spool List Price \$0.66 each
- No. 1054—50' Spool List Price 1.25 each
- No. 1055—100' Spool List Price 2.50 each
- No. 1056—1000' Spool List Price 18.50 each

Extra Heavy Linen Dial Cable

Made of the finest linen for replacement on all receivers, same as used for Philco. It is extra heavy for exceptional long service.

- No. 1057—25' Spool List Price \$1.30 each
- No. 1058—50' Spool List Price 2.50 each
- No. 1059—100' Spool List Price 4.50 each
- No. 1060—1000' Spool List Price 36.00 each

Heavy Linen Cable

This braided cable is used for replacement for all Philco Receivers.

- No. 2025—25' Spool List Price \$1.30 each
- No. 2050—50' Spool List Price 2.50 each
- No. 2051—100' Spool List Price 4.50 each
- No. 2052—1000' Spool List Price 36.00 each

Light Linen Dial Cable (Silk Core)

High quality linen cable used on many receivers specially treated to prevent slipping.

- No. 3025—25' Spool List Price \$1.20 each
- No. 3050—50' Spool List Price 2.25 each
- No. 3051—100' Spool List Price 4.00 each
- No. 3052—1000' Spool List Price 25.00 each

Extra Light Linen Cable

It is a strong extra thin linen cable for replacement. Braided of the finest black linen.

- No. 4025—25' Spool List Price \$0.75 each
- No. 4050—50' Spool List Price 1.40 each
- No. 4051—100' Spool List Price 2.50 each
- No. 4052—1000' Spool List Price 18.50 each



SPRING WIRE CLIPS

They will hold a wire up to No. 10 B&S Gauge, in a secure contact. All clips are brass nickel-plated.

- | | | | |
|-----|------------------|-----------|--------|
| No. | Length | Std. Pkg. | Per C |
| 32 | Spring Clip 1" | 100 | \$2.00 |
| 33 | Twin Clip 1 1/4" | 100 | 8.50 |

ALL RUBBER LAMP CORD

This cord is an all rubber covered insulated parallel cord which can be separated by starting with a knife. Connects easily and cannot fray. Sanitary and neat.

- | |
|----------------------------------|
| COLORS: Black, White, Brown |
| 570—100 Spool.....18.....\$ 4.25 |
| 572—250 Spool.....18.....10.00 |
| 573—500 Spool.....18.....20.00 |

BUS BAR WIRE

Used to hook up all types of transmitters, especially ultra short wave equipment. Made of hard drawn copper, tinned, straightened, and cut 2 ft. lengths.

- | | | | |
|------|---------------------------|-----------|--------|
| No. | Length | Std. Pkg. | Per C |
| 2010 | No. 10 Round Tinned..... | 100 | \$8.50 |
| 2012 | No. 12 Square Tinned..... | 100 | 6.75 |
| 2013 | No. 12 Round Tinned..... | 100 | 6.00 |
| 2014 | No. 14 Square Tinned..... | 100 | 5.10 |
| 2015 | No. 14 Round Tinned..... | 100 | 4.30 |

MAGNET WIRE

Special Spools — \$0.56 List Price

On attractive spools, even sizes from 14 to 40 inclusive, in Double Cotton, Plain Enamel, and Double Silk. Here is a really sensational seller for the dealer who will put this display on the counter. It is a Silent Salesman which will bring you real profit the year around! **FREE DISPLAY!** One Display is given with each initial order for 100 spools. Each Display made of strong, re-inforced steel, mahogany crackle finish with attractive 3 color Display at top. Space provided to indicate YOUR resale price.

Extra Display Racks available at \$3.50 each, Net.

LENGTH OF WIRE OF SPECIAL SPOOLS

Size B&S	Plain Enamel	Double Cotton	Double Silk	Size B&S	Plain Enamel	Double Cotton	Double Silk	Size B&S	Plain Enamel	Double Cotton	Double Silk
12	15 ft.	9 ft.	— ft.	22	112 ft.	75 ft.	37 ft.	32	675 ft.	180 ft.	124 ft.
14	26 ft.	20 ft.	11 ft.	24	184 ft.	97 ft.	56 ft.	34	900 ft.	195 ft.	131 ft.
16	34 ft.	34 ft.	19 ft.	26	244 ft.	116 ft.	71 ft.	36	1275 ft.	206 ft.	142 ft.
18	56 ft.	44 ft.	23 ft.	28	401 ft.	131 ft.	90 ft.	38	1725 ft.	210 ft.	116 ft.
20	86 ft.	56 ft.	29 ft.	30	525 ft.	158 ft.	112 ft.	40	1950 ft.	245 ft.	125 ft.

1/4 LB., 1/2 LB., 1 LB., MAGNET WIRE—Approximate Feet and List Prices

Double Cotton (White)				Plain Enamel				Double Silk (Green)			
1/4 lb Spool	1/2 lb Spool	1 lb Spool	List Price	1/4 lb Spool	1/2 lb Spool	1 lb Spool	List Price	1/4 lb Spool	1/2 lb Spool	1 lb Spool	List Price
12	12 \$0.40	24 \$0.70	49 \$1.27	12	12 \$0.33	25 \$0.63	50 \$1.08	12	12 \$0.57	25 \$1.12	49 \$2.12
14	19 .41	39 .71	78 1.30	14	20 .35	40 .65	80 1.10	14	19 .60	39 1.15	78 2.15
16	31 .44	62 .73	123 1.33	16	32 .36	63 .66	126 1.12	16	31 .65	62 1.25	125 2.27
18	48 .45	97 .91	194 1.37	18	50 .37	100 .67	201 1.16	18	49 .72	99 1.31	198 2.50
20	78 .49	157 .90	304 1.54	20	80 .40	160 .68	320 1.21	20	78 .83	157 1.62	314 3.05
22	119 .55	238 1.02	477 1.75	22	127 .41	254 1.22	508 1.27	22	123 .96	247 1.87	493 3.35
24	131 .64	269 1.21	738 2.18	24	201 .43	403 .77	806 1.33	24	195 1.06	390 2.06	781 4.00
26	281 .77	568 1.44	1136 2.54	26	320 .52	640 .92	1280 1.66	26	303 1.28	606 2.50	1212 4.90
28	435 .91	871 1.75	1742 2.97	28	507 .55	1015 .97	2030 1.75	28	478 1.43	956 2.81	1912 5.31
30	611 1.09	1224 2.06	2596 3.53	30	805 .60	1610 1.10	3220 2.00	30	739 1.62	1479 3.12	2958 6.25
32	976 1.35	1953 2.55	3906 4.85	32	1282 .66	2564 1.18	5128 2.18	32	1136 2.18	2272 4.25	4545 8.50
34	1365 1.90	2735 3.60	5470 6.80	34	2037 .75	4075 1.36	8150 2.73	34	1719 2.81	3439 5.50	6849 10.60
36	1827 2.60	3654 4.98	7309 9.35	36	3221 .87	6442 1.59	12887 2.98	36	2551 4.37	5102 8.50	10204 16.25
38	2738 5.00	5476 9.35	10952 17.50	38	5132 1.00	10264 1.85	20528 3.47	38	3770 6.25	7541 11.85	15082 22.50
40	3405 7.50	6811 14.00	13623 26.00	40	8143 1.50	16286 2.77	32573 5.25	40	5040 9.35	10080 17.75	20161 33.50

BIRACO TUBING (Extruded)



It is an extruded tubing made of the new synthetic plastic material. Extremely flexible and when stretched returns to its original form. Withstands the effects of heat and will not support combustion. Will only soften at 300°F and will not flow at 425°F. Its dielectric strength—750 volts per mil. when dry and 350 volts when wet. It is not affected by oil and is resistant to most coal tar solvents and petroleum solvents. Resists acids, alkalis in concentrations up to 30% by weight. Available in continuous lengths. Dielectric strength—10,000 volts.

COLORS: Black, Red, Green, White and Yellow

No.	Size	I. D.	List Price per 36" lengths	No.	Size	I. D.	List Price per 36" lengths
313	20	.034	\$0.17	291	20	.034	\$0.17
314	18	.042	.17	293	18	.042	.17
315	16	.053	.17	294	16	.053	.17
316	14	.066	.19	295	14	.066	.17
317	12	.085	.19	300	12	.085	.17
318	8	.135	.50	297	8	.135	.50
319	4	.208	.75	298	3/16	.208	.50
320	2	.263	.75	303	1/4	.263	.75
321	5/16	.3125	.70	304	5/16	.3125	.75
322	3/8	.375	1.2	299	3/8	.375	.75
323	1/2	.500	1.2	299	1/2	.500	1.50
324	3/4	.625	1.3	296	3/4	.625	1.50



SERVICE CORDS

Constructed of all rubber Underwriters Approved lamp cord and plug on one end and with the other end stripped and tinned all ready for use.

COLORS: Black or Brown		
No.	Ft.	List Price
816-B	6	\$0.50
817-B	7 1/2	.60
819-B	10	.65

VARNISHED TUBING

Provides quality insulation for wires used on radio sets, small electrical equipment and instruments. The outside is impervious to oil, acid and water. It is highly flexible and will not crack after aging. Average dielectric strength 5000 volts.

COLORS: Black, Red, Green, White and Yellow

No.	Size	I. D.	List Price per 36" lengths	No.	Size	I. D.	List Price per 36" lengths
291	20	.034	\$0.17	293V	18	.042	.25
293	18	.042	.17	294V	16	.053	.25
294	16	.053	.17	295V	14	.066	.25
295	14	.066	.17	300V	12	.085	.25
300	12	.085	.17	307V	10	.106	.25
297	8	.135	.50	308V	10	.106	.25
298	3/16	.208	.50	309V	8	.135	.50
303	1/4	.263	.75	302V	6	.166	.75
304	5/16	.3125	.75	305V	4	.208	.75
299	3/8	.375	.75	306V	2	.263	1.00
299	1/2	.500	1.50	293VC	18	.042	1.00
296	3/4	.625	1.50	294VC	16	.053	1.00
				295VC	14	.066	1.00
				300VC	12	.085	1.00
				307VC	10	.106	1.00
				308VC	8	.135	1.00
				302VC	6	.166	1.00
				305VC	4	.208	1.00
				306VC	2	.263	1.50
				293VC	18	.042	5.25
				294VC	16	.053	5.25
				295VC	14	.066	5.25
				300VC	12	.085	5.25
				307VC	10	.106	9.00
				308VC	8	.135	9.00
				302VC	6	.166	9.00
				305VC	4	.208	9.00
				306VC	2	.263	15.00

BIRACO & VARNISHED TUBING IN HANDY PACKAGES

Both BIRACO Extruded TUBING and VARNISHED TUBING are also available on convenient paper spools in a variety of lengths to meet practically every demand. Put up in handy packages to fill the requirements of servicemen and manufacturers. Wide assortment of colors.

BIRACO TUBING					VARNISHED TUBING				
Cat. No.	Gauge Size	Approx. I. D.	Length Package	List Price Package	Cat. No.	Gauge Size	Approx. I. D.	Length Package	List Price Package
314B	18	.042	25 ft.	\$0.75	293V	18	.042	25 ft.	\$ 1.50
316B	16	.053	25 ft.	.75	294V	16	.053	25 ft.	1.50
317B	14	.066	25 ft.	.75	295V	14	.066	25 ft.	1.50
325B	10	.106	15 ft.	.75	300V	12	.085	25 ft.	1.50
318B	8	.135	15 ft.	.75	307V	10	.106	20 ft.	1.50
326B	6	.166	15 ft.	.75	308V	8	.135	15 ft.	1.50
319B	4	.208	10 ft.	.75	302V	6	.166	10 ft.	1.50
320B	2	.263	10 ft.	.75	305V	4	.208	10 ft.	1.50
314BC	18	.042	100 ft.	2.75	306V	2	.263	10 ft.	1.50
315BC	16	.053	100 ft.	2.75	293VC	18	.042	100 ft.	5.25
316BC	14	.066	100 ft.	2.75	294VC	16	.053	100 ft.	5.25
317BC	12	.085	100 ft.	2.75	295VC	14	.066	100 ft.	5.25
325BC	10	.106	30 ft.	4.40	300VC	12	.085	100 ft.	5.25
318BC	8	.135	100 ft.	4.40	307VC	10	.106	100 ft.	9.00
326BC	6	.166	100 ft.	4.40	308VC	8	.135	100 ft.	9.00
319BC	4	.208	100 ft.	6.75	302VC	6	.166	100 ft.	9.00
320BC									

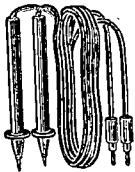


Birnbach

TEST LEADS and ACCESSORIES

High Voltage Test Leads

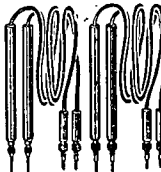
The high dielectric strength and low leakage resistance of these test leads recommend them for testing high voltage high sensitivity devices such as Meggers and Megohmmeters. They are particularly well suited for use in testing breakdown voltages up to 1200 volts. The prods and the tip handles are made of black and red bakelite with special designed tips for application. The prods are 6" long and 1/2" dia. and have a guard ring near the metal tip to prevent accidental touching of the exposed metal part. Extra heavy kinkless test lead wire 7/32" dia. is used throughout. The leads are 60" long.



No. 562—High Voltage Test Leads \$5.00

DeLuxe Test Leads

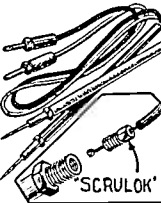
Constructed with 5" long cast phenolic red and black handles with removable needlepoint chucks or solderless tips. Black and red heavy kinkless instrument 48" long is used to connect the prods with the insulated red and black cast phenolic solderless tips. Either needlepoint or solderless tip available.



No. 560—Solderless prod test leads. \$1.75
561—Needlepoint prod test leads 1.75

Bakelite Pencil Type Test Leads

Red and black bakelite handles, 6" long and 5/16" in dia. and red and black bakelite insulated phone tips. Heavy kinkless wire is used together with the Birnbach Scrulok system of solderless wire connection. The Universal needle and phone tip prod have the same dimensions as the standard phone tip and are useful for piercing insulation without damage. The needlepoint is extra heavy to prevent breakage and should it become broken can be readily replaced. Available only in combination of needlepoint prods and insulated phone tips. Length overall 60".



No. 408—Bakelite Pencil Type Test Lead \$2.50
439—Needlepoint Prod Tip for Replacement25

Test Leads (Bakelite Handles)

Have 4" red and black insulated handles. Needles can be replaced when broken simply by loosening the knurled collar. Available with either phone tips or spade lugs. Length overall 50".



No. 420—Phone Tip Test Leads \$1.12/2
421—Spade Lug Test Leads 1.12/2

Standard Test Leads

Same as above with a Sr. solderless phone tip.

No. 422—Phone Tip Test Leads. \$1.00
423—Spade Lug Test Leads. 1.00

Insulated Solderless Phone Tips

Insulated handles 3/8" dia. by 1" long fitted to solderless phone tips. The wire can be easily attached by threading through the hole in the handle and tightening the knurled nut. Colors:—red, black, green, and yellow.



List Price
409—Insulated Sr. Solderless Tip—2 1/4" Long each \$0.20
415—Insulated Jr. Solderless Tip—1 1/8" Long each .18

Insulated Phone Tip

The insulated handle is 1" long, 1/8" dia. Connection is made by threading wire through the Scrulok threaded bushing (see drawing). Colors: red, black, green and yellow.



412—Scrulok Pin Tip, 1 1/2" Long each \$0.24
419—Scrulok Pin Tip, 1 1/8" Long each .30

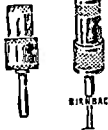


Phone Tip

Ideal for replacement on headset, speaker and extension cords. No. 402—Std. Pkg. 100 List Price \$2.25 per C

Solderless Phone Tips

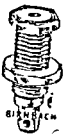
Milled of solid brass and nickel-plated. Designed for easy insertion of the wire.



List Price
No. 24—Junior .. \$1.50
24—Senior .. 12.50
Std. Pkg. 100.

No. 26 Phone Tip Jack

Milled of brass and nickel plated. The bronze springs are specially made to hold the phone tip tight and straight. Mounts in a 3/4" dia. hole.



No. 26—Std. Pkg. 100. List Price \$12.50 per C

No. 407 Insulated Tip Jack

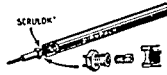
Has a 1/8" insulated top and mounts in a 3/8" dia. hole. The specially designed bronze springs hold the phone tip tight and straight. Colors:—red, black, yellow, and green. Std. Pkg. 100.



No. 407—Insulated Phone Tip Jack \$0.18

No. 411 Bakelite Pencil Test Prods

These prods have the Birnbach Scrulok solderless needlepoint tips. They are made of bakelite and are 6" long and 5/16" dia. The connection is made by threading the wire through the handle and securing to the needlepoint tip by locking the Scrulok. The tip is then screwed into the handle. Available in red or black only.



List Price
411—Bakelite Pencil Test Prods \$1.10

Solderless Tip Prod

Made of highly polished cast phenolic resin. A solderless phone tip is threaded at end permitting replacement of tip. Available in red or black.



List Price
410..... 4" Handle..... \$0.50
343..... 5" Handle..... .50

Needlepoint Test Prod

A threaded shank needlepoint chuck is threaded into the end of handle. Made of highly polished cast phenolic handle. Available in red or black.



List Price
344—Needlepoint Test Prod, 4" Handle \$0.45
345—Needlepoint Test Prod, 5" Handle50

SCRULOK Needlepoint Test Prods

These insulated prods have the Scrulok solderless system of wire connection. Wire is easily attached without soldering. An extra heavy needle is fitted into the tip. Colors:—black or red.



List Price
No. 417—Needlepoint Test Prod, 4" Handle \$0.45
418—Needlepoint Test Prod, 5" Handle50



Headset Phone Cords

These cords are closely woven and are very durable and strong. They are used for replacement of worn headset cords. Standard cords are listed which will match practically all headsets manufactured. We will be glad to quote on cords having special terminal requirements.

List Price
No. 104—5 ft. Pin & Spade Tips \$1.15
105—5 ft. Pin & Spade Tips 1.15
107—5 ft. Pin & Eye Tips 1.15
108—8 ft. Pin & Eye Tips 1.50
109—10 ft. Pin & Eye Tips 2.15

AC-DC Resistance Cords



Designed for replacement of the internal voltage dropping resistor on the present and older type of AC-DC sets. It consists of a line cord into which a third element has been incorporated. The voltage dropping resistor reduces the voltage to that needed for the filament of the tubes.

Card Rating	Sets Having	Following Tubes	List Price
35...135 ohm...	2525-43-4*	...	\$1.15
36...160 ohm...	2525-43-3*	...	1.15
34...180 ohm...	1223-43-4*	...	1.15
49...200 ohm...	2525-43-2*	...	1.15
37...220 ohm...	1223-43-3*	...	1.15
41...250 ohm...	1223-43-2*	...	1.15
38...290 ohm...	1223	3*	1.15
45...300 ohm...	1223	2*	1.15
39...330 ohm...	1223	4*	1.15
40...350 ohm...	1223	1*	1.15
47...390 ohm...	1223	2*	1.15
125...220-110 Volt	reducing cord	.....	2.25
126...280 ohm...4	Wire	.....	2.00
127...190 ohm...4	Wire	.....	2.00
128...165 ohm...4	Wire	.....	2.00

* 6.3 volt tubes. † For Emerson Radio.

Speaker Extension Cords



Constructed of stranded annealed copper wire insulated with rubber over which a brown merrized cotton braid is closely woven. Complete with easily attached bakelite connector.

No.	Length	List Price
166	10 ft. Cord	each \$1.50
120	50 ft. Cord	each 2.00
121	30 ft. Cord	each 2.75
122	40 ft. Cord	each 3.10
123	50 ft. Cord	each 3.50
124	100 ft. Cord	each 6.50
151	Bakelite Extension Cord Connector only	each .60

Alligator Clips

Made of steel nickel plated. The jaws match accurately permitting them to grip all kinds of wire securely. The insulated handle is 3/4" dia. and 3/4" long and comes in red or black.



No.	Length	Std. Pkg.	List Price
31	Alligator clip 2"	50	\$0.09
310	Insulated Alligator clip 2 1/4"	50	.23

Test Clips

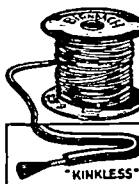


The teeth mesh correctly permitting good contact to be made. The No. 27-S is a solid copper clip with a brass screw designed for high frequency work. Sturdily constructed. Standard Package 50.

No.	Length	Jaw Price	Spread ea.
27	Pea Vee 1 1/2"	3/8"	\$0.09
28	Midget 1"	3/8"	.09
29	Medium 1 1/2"	1"	.11
30	Large 2"	1 1/4"	.13
27C	Pea Vee 1 1/2"	3/8"	.20
27	Copper 1 1/2"	3/8"	.17
27R	Rubber Sleeve	red or black	.16

Kinkless Test Lead Wire

Abrasion resisting live rubber that will not kink or break down in service. No. 20 has 41 strands and No. 18 has 66 strands of No. 36 tinned annealed copper wire.



No.	Ft.	Price	Size	Rubber Wall Thicknesses	Puncture 60 Cycle A.C.	O.D.
60	25	\$0.75	20 3/4		12,000	.140
61	100	3.75		0.45	12,000	
62	500	17.00			12,000	.155
64	25	1.35	18 3/4	.045		
66	100	4.55				
67	500	21.00				
HIGH VOLTAGE TEST LEAD WIRE						
63	25	\$2.60	18 3/4	.076	16,500	.218
68	100	7.00				
69	500	.42				

COLORS:—Red and Black.

Birnbach WIRE, AUTO CABLE and ACCESSORIES



7 MM HIGH TENSION CABLE



Useful in reducing interference from auto secondary circuits. Also used as photo electric cell leads and wherever a low loss shielded lead is required.

No.	List Price Per 100'
1600—7 MM. High Tension Cable.....	\$10.00
781—7 MM. Shielded Secondary Wire	16.00

FORD V-8 DISTRIBUTOR SUPPRESSOR



Designed to be inserted in the distributor of Ford V-8. Unit consists of a resistor brush which replaces the regular brush.

No. 365.....	List Price \$0.35
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AUTO ANTENNA CONNECTOR

Permits quick connection of the auto antenna lead-in to the receiver.



No. 366—Auto Connector.....	List Price per C \$20.00
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FUSED ANTENNA CONNECTOR



This connector takes a standard 3 AG automobile fuse. Used in auto radio power supply cables.

No. 367—Fused Connector.....	List Price per C \$25.00
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HIGH VOLTAGE LACQUERED WIRE

Recommended for use as leads for wiring high voltage devices, and transmitter power supplies. Constructed of tinned stranded copper conductor with a wall of rubber covered with a highly lacquered cotton braid.



No.	Ft.	Size	Puncture Voltage	O.D.	List Price
2810—100	10 $\frac{1}{2}$		9500	.225	\$10.50
2812—100	12 $\frac{1}{2}$		9500	.192	7.00
2814—100	14 $\frac{1}{2}$		9500	.167	4.75
2816—100	16 $\frac{1}{2}$		9500	.153	4.00
2818—100	18 $\frac{1}{2}$		9500	.145	3.50

SHIELDED VARNISHED CAMBRIC WIRE

Used where an oil and water resistant wire with a shielded covering is required. Constructed of tinned stranded conductor with 2 layers of varnished cambric and a lacquered cotton braid with a tinned copper shield overall.



No.	Ft.	Size	Capacity per Ft. mmfds.	O.D.	List Price
1800—100	16		142	.145	\$10.50
1818—100	18		102	.181	9.50
1820—100	20		100	.125	8.75

SHIELDED GRID LEAD WIRE

High insulation of this wire will reduce the loss in shielded grid circuits. Constructed of tinned stranded conductor with a rubber insulation, waxed cotton braid with closely woven shield overall.



No.	Ft.	Size	Capacity per Ft. mmfds.	O.D.	List Price
818—100	18 $\frac{1}{2}$		75	.180	\$6.50
820—100	20 $\frac{1}{2}$		70	.160	7.50

SOLID TINNED WIRE

SOFT DRAWN

No.	No. 10	List Price	No. 18	List Price
1400—25 ft. coil		\$ 1.30	1416—25 ft. coil	\$0.33
1401—50 ft. coil		2.55	1417—50 ft. coil	.60
1402—100 ft. coil		5.00	1418—100 ft. coil	1.10
1403—1000 ft. spool		46.00	1419—1000 ft. spool	11.00
No. 12			No. 20	
1404—25 ft. coil		.85	1420—25 ft. coil	.30
1405—50 ft. coil		1.60	1421—50 ft. coil	.50
1406—100 ft. coil		3.00	1422—100 ft. coil	1.00
1407—1000 ft. spool		28.00	1423—1000 ft. spool	10.00
No. 14			No. 22	
1408—25 ft. coil		.60	1424— $\frac{1}{4}$ lb. spool	.75
1409—50 ft. coil		1.10	1425— $\frac{1}{2}$ lb. spool	1.20
1410—100 ft. coil		2.00	1426—1 lb. spool	2.25
1411—1000 ft. spool		20.00	No. 24	
No. 16			1427— $\frac{1}{4}$ lb. spool	.82
1412—25 ft. coil		.42	1428— $\frac{1}{2}$ lb. spool	1.50
1413—50 ft. coil		.68	1429—1 lb. spool	2.65
1414—100 ft. coil		1.10	No. 26	
1415—1000 ft. spool		11.00	1430— $\frac{1}{4}$ lb. spool	.90
			1431— $\frac{1}{2}$ lb. spool	1.65
			1432—1 lb. spool	3.00

SOLID ENAMEL WIRE

No.	No. 10	List Price	No. 12	List Price
597—25 ft. coil		\$1.50	192—25 ft. coil	.85
697—50 ft. coil		2.50	292—50 ft. coil	1.70
497—100 ft. coil		4.40	492—100 ft. coil	2.75
1497—1000 ft. spool		44.00	492A—150 ft. coil	4.15
			492B—200 ft. coil	5.50
			1492—1000 ft. spool	27.50
		No. 14		
		190—25 ft. coil	.50	
		290—50 ft. coil	1.00	
		490—100 ft. coil	1.80	
		490A—150 ft. coil	2.70	
		490B—200 ft. coil	3.60	
		1490—1000 ft. spool	18.00	
		No. 15		

RAYON BRAID LACQUERED WIRE

Constructed of stranded tinned copper conductor for easy soldering, with heavy wall of live rubber over which a rayon braid is woven. A high gloss lacquered finish over braid. Conductor consists of 16 strands of No. 30.



No.	Ft.	Puncture Voltage	Size	List Price
3425—25 Coil		9000	18 $\frac{1}{2}$	\$1.00
3450—50 Coil		9000	18 $\frac{1}{2}$	2.00
3460—100 Coil		9000	18 $\frac{1}{2}$	4.00
3600—500 Spool		9000	18 $\frac{1}{2}$	18.00

Colors: Black, red, green, yellow, brown, blue

VARNISHED CAMBRIC WIRE

Widely used in automotive wiring because of oil and waterproof construction. Consists of tinned stranded conductor with two layers of varnished cambric over which a lacquered cotton braid is woven.



No.	Ft.	Size	Puncture Voltage	O.D.	List Price
3416—100	16		1000	.108	\$6.75
3418—100	18		1000	.107	5.75
3420—100	20		1000	.094	4.50

No. 340 WHEEL STATIC ELIMINATOR

An effective means of reducing static created by the front wheels. Installation is made by placing the broad base of the spring against the hub cap and the cone point into the hole of the axle.



No. 340—Std. Pkg. 50	List Price.....	\$10.00 per 100
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PHONO-PICKUP WIRE

Small diameter—ideally suited for replacement in pickup arms of any make.

No.	Ft.	Size	List Price
1822A	100 ft. Spool	22	\$ 6.00
1822B	500 ft. Spool	22	28.00
1822C	1000 ft. Spool	22	52.50



350



351



352



353

BIRNBACH IGNITION FILTERS

These Ignition Filters completely eliminate all ignition and high tension circuit interference, making clear auto radio reception a certainty. The only ignition filters having a copper wound inductance, which accounts for the low resistance of 120 ohms for the Ignition Filter. Less gasoline is consumed than when high resistance filters are used.

No.	List Price each
350—Ignition Filter—Bracket Type.....	\$0.85
351—Ignition Filter—Cable Type.....	.85
352—Distributor Filter.....	.85
353—Ignition Filter—Screw Type.....	.85
359—Ignition Filter—Slip-on Type.....	.85

BIRNBACH MASTER FILTER

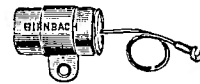
Eliminates all ignition interference and does away with the necessity of having a separate filter for each spark plug. Available in two types, namely, the Distributor type for easy insertion into distributor head, and the Cable type to be placed into the distributor lead where it is impossible to insert it into the distributor head.



No.	List Price each
354—Cable or Distributor Type.....	\$3.50

AUTO NOISE FILTER

These are especially designed for the elimination of noise created by generator commutator, electrical windshield wiper, horn, and especially dome, tail, and stop light cables. Connections made by bolting down the flange of container to chassis. The long insulated lead with a convenient screw lug is connected to the source of interference.



No.	List Price
355—Auto Noise Filter— $\frac{1}{2}$ Mfd.....ea.	\$0.75
356—Auto Noise Filter—1 Mfd.....ea.	.75



Birnbach PLUGS and JACKS

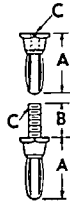
GIANT PLUGS



Used for heavy current, they are rated at 25 amps. The long life nickel silver alloy spring is secured over a pin preventing a collapse of the spring and also maintaining the full action of the spring when inserted into the jack. The No. 398A plug has a hole in the threaded shank to permit soldering to it. It is used extensively on diathermy electrode pad cables. Standard Package 25.



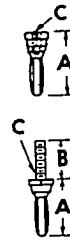
No.	Plug	A	B	C	List Price
396	Plug	1 1/2	—	10-32	each \$0.30
397	Plug	1 1/4	—	1/4-20	each .35
398	Plug	1 3/8	5/8	1/4-28	each .30
398A	Plug	1 3/8	5/8	1/4-28	each .30



Large area of contact is one of the outstanding features of these jacks and plugs. The No. 400 series of packages have a nickel silver contact spring secured over a full length central pin, making these plugs non-collapsible and assuring a low resistance contact. Capacity 5 amperes. Standard Package 100.



No.	Plug	A	B	C	List Price
400	Plug	3/4	1/2	6-32	each \$0.12
401	Plug	3/4	—	6-32	each .13
404A	Plug	3/4	3/8	1/4-28	each .18



BANANA PLUGS

No. 403 BANANA JACK

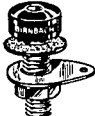


Accurately milled and has a precision reamed hole to help maintain the tight and smooth action of the plug. It is made of brass nickel plated and comes complete with nut and lug. Standard Package 100.

No.	Jack	A	B	C	List Price
403	Jack	1/2	3/8	1/4-28	\$0.12



INSULATED BANANA JACKS



The No. 391 Jack is very popular with the electric therapeutic manufacturers. The 1/2" dia. insulated head admits all of the exposed metal part of the metal plug when inserted. Mounts in a 5/8" dia. hole on a panel up to 3/8" thick. The No. 406 Jack has a 1/10" dia. insulated top. It fits into a 3/8" dia. hole and takes up to a 3/8" panel. Both come complete with insulating shoulder washer, nut and lug.

No.	Insulated Jack	Color	Std. Pkg.	List Price
391	Insulated Jack	red or black	50	\$0.19
406	Insulated Jack	red, black, yellow, or green	50	.18

SHAFT COUPLINGS, REDUCERS AND EXTENDERS

By the use of these units all 1/4" and 3/8" dia. shafts and knobs can be assembled together. The insulated units are for use where electrical isolation is desired. Furnished complete with set screws shown. Be sure to specify whether Brass or Insulated is desired.

Brass No.	Insulated No.	Shaft A	Hole B	List Price
534	634	1/4"	1/4"	each \$0.16
535	635	1/4"	3/8"	each .16
536	636	3/8"	1/4"	each .16
537—Reducer for 3/8" Dia. Hole to 1/4" Dia. Shaft.				each .10

Brass No.	Insulated No.	Shaft A	Hole B	List Price
531	631	1/4"	1/4"	each \$0.16
532	632	1/4"	3/8"	each .16
533	633	3/8"	1/4"	each .16

No.	Length	Hole I.D.	Shaft O.D.	List Price
538—Brass	1 3/4"	1/4"	1/4"	each \$0.25
539—Insulated	1 3/4"	1/4"	1/4"	each .25

No.	Dia.	Length	List Price
540	3/4"	6"	each \$0.20
541	3/4"	12"	each .40
542	3/8"	8"	each .35

No.	Dia.	Length	List Price
543	3/4"	6"	each \$0.25
544	3/4"	12"	each .50
545	3/8"	8"	each .60

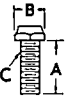
GIANT JACKS



Milled with the central hole being reamed to size to insure a tight fit with all Giant Plugs. The No. 394 and No. 399A have a 10-32 thread tapped at the end permitting connection to be made. They are all made of brass and nickel-plated and come complete with nut and lug.



No.	Jack	Std. Pkg.	A	B	C	List Price
399A	Jack	25	1 3/8"	1/2"	3/8-24	each \$0.30
394	Jack	25	1 1/8"	1/2"	1/2-20	each .25
395	Jack	25	1 1/8"	3/8"	1/2-20	each .30
399	Jack	25	1 3/8"	5/8"	3/8-24	each .35



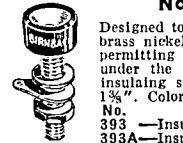
No. 392 INSULATED GIANT PLUG



Made so that no projecting edges are exposed, thereby protecting the user from unnecessary contact. Connection is made by soldering into the hole at the end of the threaded shank of the plug. Handle is 1 3/8" long by 5/8" dia.; length overall 3". Colors: red or black.

No. 392—Insulated Giant Plug	List Price	\$0.50
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No. 393 INSULATED GIANT JACK



Designed to leave no metal part exposed on the panel. The 3/8-24 brass nickel plated sleeve has a 10-32 threaded hole at the end permitting a connection to the jack or to the lug under the head. Either assembly available complete with nut, insulating shoulder washer, lock-washer and lug. Length overall 1 3/8". Colors: red or black.

No.	Insulated Giant Jack	List Price
393	Insulated Giant Jack under head lug	\$0.45
393A	Insulated Giant Jack end lug	.45

HARD RUBBER INSULATED GIANT PLUG



Especially designed for use with diathermy cables. It has 5/8" dia. hole in the handle to take the largest cable. It is made of polished black hard rubber. The handle is 3" long by 7/8" dia. Overall length is 4 3/8".

No. 342—Hard Rubber Insulated Plug	List Price	\$2.00
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No. 341 Insulated Banana Plug



This plug consists of our No. 404A plug with a larger handle 1 3/8" long by 1/2" dia. Used on a therapeutic apparatus and test equipment. Overall length 2 3/8". Colors: red or black.

No. 341—Insulated Banana Plug	List Price	\$0.45
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No. 404 Insulated Banana Plug



The plug is for experimental test leads because of its Scrulok solderless connection and the non-collapsible special alloy springs assembled on a pin preventing collapse of the plug spring. The handle is made of phenolic resin and is 3/8" by 1" long. Colors: red, black, yellow and green.

No. 404—Insulated Banana Plug	Std. Pkg. 50	List Price	\$0.20
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No. 604 BANANA PLUG



Made of solid brass nickel-plated, with the end being slotted. The cast phenolic handle is 1" long by 3/8" dia. and is held on by the screw that secures the wire to the plug. Colors: red, black, yellow and green.

No. 604—Plug	Std. Pkg. 50	List Price	\$0.19
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No. 605 HANDLE JACK



Consists of a banana jack inside an insulated sleeve. Connection is made by soldering to the end of the jack. Handle is made of cast phenolic resin 3/8" dia. by 1 1/4" long. Colors: red, black, yellow and green.

No. 605—Handle Jack	Std. Pkg. 50	List Price	\$0.25
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TINNED LUGS



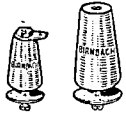
No.	Hole for Screw	Length	List Price Per M
1	6	5/8"	\$ 4.75
2	10	5/8"	4.75
3	1/4"	5/8"	4.75
4	7/8"	7/8"	27.00
5	1/2"	1 1/8"	34.50
21	10	1 1/8"	8.50
22	1/4"	1 3/8"	21.00
201	8	1 1/8"	8.50
96	6-8-10	7/8"	7.00
97	8	5/8"	7.00
98	6-8	1 1/4"	8.50
99	4-6-8	1 1/8"	8.50

Birnback

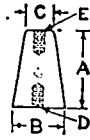
INSULATORS



STEATITE CONE STANDOFF INSULATORS

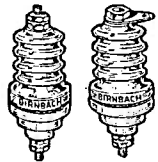


Made of low absorption high tensile strength porcelain with a smooth glaze. All heights except the No. 430 are available with a Jack or a threaded hole top. Range of sizes are adequate for all needs. They are available only in a white glaze and come complete with screws, metal and cork washers.



No.	Height		Std. Pkg.	Threaded Holes			List Price each
	A	B		D	E	Hole	
430	5/8"	1 1/8"	100	5/8"	1 1/8"	6-32	0.20
431	1"	1 1/4"	50	1 1/8"	1 1/2"	8-32	.30
431J	1"	1 1/4"	50	1 1/8"	1 1/2"	8-32	.35
432	1 1/4"	1 3/4"	50	1 1/8"	1 3/4"	10-32	.55
432J	1 1/4"	1 3/4"	50	1 1/8"	1 3/4"	10-32	.75
433	2 3/4"	3 1/4"	25	1 3/8"	2 1/4"	1/4-20	1.00
433J	2 3/4"	3 1/4"	25	1 3/8"	2 1/4"	1/4-20	1.20

CORRUGATED FEEDTHRU INSULATORS



The six new corrugated type feedthru insulators have more than twice the leakage path of the straight type because of increased surface of the corrugations and recommends itself where a straight side insulator of equal height is not satisfactory because of its shorter leakage path. Brass nickel-plated hardware and cork mounting washers supplied.



No.	Height		Std. Pkg.	Mounting			List Price each
	A	B		Hole	Hardware		
479	1 3/8"	1 3/4"	25	1 1/8"	1 1/8"	10-32	\$0.55
479J	1 3/8"	1 3/4"	25	1 1/8"	1 1/8"	No. 403 Jack	.65
4276	2 3/4"	3 1/4"	10	1 1/8"	1 1/8"	1/4-20	1.00
4276J	2 3/4"	3 1/4"	10	1 1/8"	1 1/8"	No. 394 Jack	1.20
4452	4 1/2"	5 1/2"	5	2 1/8"	1 1/2"	1/4-20	1.50
4452J	4 1/2"	5 1/2"	5	2 1/8"	1 1/2"	No. 394 Jack	1.80

HIGH VOLTAGE FEEDTHRU INSULATOR



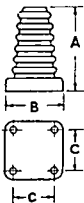
This insulator has been designed to meet the demand for an insulator having high dielectric and mechanical strength. The extra long leakage path is made possible by the corrugations on the top insulator. The bottom sleeve taper from a base dia. of 1 1/4" where the electric stress is greatest.

Height 1 1/2" ... Base Dia. 2" ... Mounting Hole 1 1/4" ... Hardware 1/4-20
No. 4233 ... List Price \$0.80

METAL BASE INSULATORS



Designed to replace conventional porcelain insulators where failure of the base is due to cracking when fastened down. Extremely long leakage paths due to the corrugated surface is one of the important characteristics. They are made from high tensile strength low absorption porcelain smoothly glazed all over. Supplied with nickel-plated brass

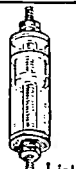


screws and nuts and cadmium plated drawn steel bases.

Cat. No.	Height		Std. Pkg.	Mounting Screw			Hardware	List Price
	A	B		D				
867	1 3/8"	2 1/8"	25	1 1/8"	1 1/8"	2 No. 8	10-32	ea. \$0.30
867J	1 3/8"	2 1/8"	25	1 1/8"	1 1/8"	2 No. 8	No. 403 Jack	ea. .40
4176	2 3/4"	3 1/4"	10	1 3/8"	1 3/8"	4 No. 10	1/4-20	ea. .55
4176J	2 3/4"	3 1/4"	10	1 3/8"	1 3/8"	4 No. 10	No. 395 Jack	ea. .70
4451	4 1/2"	5 1/2"	5	2 1/8"	2 1/8"	4 No. 10	1/4-20	ea. .82
4451J	4 1/2"	5 1/2"	5	2 1/8"	2 1/8"	4 No. 10	No. 395 Jack	ea. 1.15

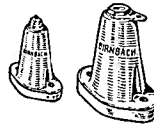
"LUCITE" FEEDTHRU INSULATORS

These feedthru insulators are ideal for bringing high frequency leads thru a panel. They are made of genuine Dupont Lucite. Because of its low loss at high frequency, it is well adapted to insulated elements of high frequency circuits. The 1/2" dia. insulators have brass nickel plated 6-32 hardware and the 3/4" have 10-32 hardware.

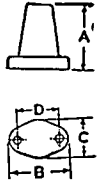


No.	Height		Panel	Dia.	Mtg. Hole	Bottom Height	List Price
	A	B					
377	1/4"	1/2"	1/4"	1/2"	1/8"	1/4"	\$0.35
378	1/2"	3/4"	1/2"	3/4"	1/8"	1/4"	.45
379	1"	1 1/4"	1"	1"	1/8"	1/2"	.50
475	1 1/2"	2"	1 1/2"	1 1/2"	1/8"	1 1/2"	1.00
476	2"	2 1/2"	2"	2"	1/8"	2"	1.25

STANDOFF INSULATORS



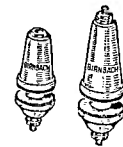
The sizes range from 5/8" to 4 1/2" high in five properly graduated heights. Made of highly vitrified low absorption glazed porcelain. No washers are necessary for mounting as the mounting surface is ground flat; but for the No. 405 and No. 966 Standoff insulators, it is advisable to use cork washers which are available as they



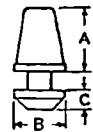
will permit mounting securely without breakage. All brass nickel-plated hardware is supplied. Available in white or brown glaze.

No.	Height		Std. Pkg.	Mounting Holes			Hardware	List Price each
	A	B		C	D			
405	5/8"	1"	100	1 1/8"	1 1/8"	6-32	\$0.11	
965	1"	1 1/4"	50	1 1/8"	1 1/8"	8-32	.15	
966	1"	1 1/4"	50	1 1/8"	1 1/8"	8-32	.15	
966J	1"	1 1/4"	50	1 1/8"	1 1/8"	No. 403 Jack	.20	
866	1 1/2"	2 1/4"	25	1 3/8"	1 3/8"	10-32	.20	
866J	1 1/2"	2 1/4"	25	1 3/8"	1 3/8"	No. 403 Jack	.25	
866J	1 1/2"	2 1/4"	10	1 3/8"	1 3/8"	No. 395 Jack	.60	
4275	2 3/4"	3 1/4"	10	2 3/8"	2 3/8"	1/4-20	.52	
4275J	2 3/4"	3 1/4"	10	2 3/8"	2 3/8"	No. 399 Jack	.90	
4450	4 1/2"	5 1/2"	5	3 3/8"	2 1/2"	1/4-20	1.00	
4450J	4 1/2"	5 1/2"	5	3 3/8"	2 1/2"	No. 399 Jack	1.35	

FEEDTHRU INSULATORS



Made of highly vitrified, low absorption porcelain smoothly glazed to prevent accumulation of dust or dirt. Maximum strength is achieved by the proper proportions and flat mounting surfaces. Long insulating sleeves on the lower part of the insulator contribute much



to their performance on high voltages. Brass nickel-plated hardware.

No.	Height		Std. Pkg.	Mounting			Hardware	List Price
	A	B		C	D			
458	5/8"	1"	50	1 1/8"	1 1/8"	6-32	ea. \$0.22	
478	1"	1 1/4"	25	1 1/8"	1 1/8"	10-32	ea. .30	
478J	1"	1 1/4"	25	1 1/8"	1 1/8"	No. 403 Jack	ea. .38	
4125	1 1/4"	2 1/4"	25	1 3/8"	1 3/8"	10-32	ea. .35	
4125J	1 1/4"	2 1/4"	25	1 3/8"	1 3/8"	No. 403 Jack	ea. .40	
4234	2 3/4"	3 1/4"	10	2 3/8"	2 3/8"	1/4-20	ea. .90	
4175	2 3/4"	3 1/4"	10	1 3/8"	1 3/8"	1/4-20	ea. .80	
4175J	2 3/4"	3 1/4"	10	1 3/8"	1 3/8"	No. 394 Jack	ea. 1.15	

BEE-HIVE STANDOFF

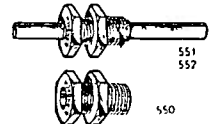


Base measures 2" dia. with 3 holes on a 1 1/2" circle, for No. 6 screws. Supplied complete with 12-24 nickel-plated brass screw and nuts. The No. 766J has a No. 403 Jack. Available white or brown glaze.

No.	Hardware	Std. Pkg.	List Price
766	Standoff Insulator, 12-24 Screw	10	\$0.30
766J	Jack Type	No. 403 Jack	10 ... .35

FRONT PANEL BEARING

The No. 550 Front Panel Bearing is cadmium plated brass for panels up to 3/8" in thickness and for 1/4" dia. shafts. The No. 551 and No. 552 are complete assemblies of the No. 550 and 1/4" dia. brass shaft cadmium plated.



Cat. No.	List Price
550—Front Panel Bearing	each \$0.16
551—Front Panel Bearing, 1/4" shaft, 3" long	each .45
552—Front Panel Bearing, 1/4" shaft, 6" long	each .55

FLEXIBLE COUPLINGS



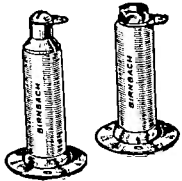
These flexible couplings cover all needs of the constructor. Tandem operation of two or more units is possible without having the shafts in exact alignment. Flexibility without back-lash is obtained by the cadmium plated phosphor bronze springs, which are rigidly riveted to the insulation. All units fit 1/4" dia. shafts.

No.	Dia.	Insulation	List Price
360	1 1/4"	Fibre	each \$0.35
361	1 1/4"	Bakelite	each .50
362	1 1/4"	Steatite	each .60

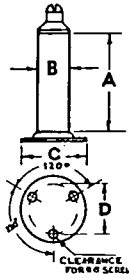


Birnback INSULATORS

STEATITE PILLARS



These (steatite) pillar insulators have great tensile strength with extremely low losses at very high frequencies and are glazed on the outside to decrease surface leakage. They are tapped on both ends and are supplied complete with nickel-plated mounting base and top hardware.



No.	Height	Std. Pkg.	Base Dia.	List Price
	A		C	each
450	1"	10	1 1/8"	\$0.50
450J	1"	10	1 1/8"	.60
451	1 1/2"	10	1 1/8"	.60
451J	1 1/2"	10	1 1/8"	.65
452	2 1/2"	10	1 1/8"	.85
452J	2 1/2"	10	1 1/8"	1.15
453	2 1/2"	5	1 1/8"	1.35
453J	2 1/2"	5	1 1/8"	1.50
454	4"	5	1 1/8"	1.50
454J	4"	5	1 1/8"	1.60

LUCITE SPREADERS

They are made of Dupont Lucite rod which has a very low loss at radio frequencies. It is water clear and has very low water absorption. The holes are drilled to take a No. 12 wire. A screw at the end of the spreader locks the wire in position.

LUCITE SPREADERS

No.	Wire Spacing	Std. Pkg.	List Price
			Each
436	2"	25	\$0.45
437	3"	25	.50
438	6"	25	.60

LUCITE RODS

No.	Dia.	List Price per Ft.
455	1/4"	\$0.75
459	3/8"	.90
460	1/2"	1.50
461	3/4"	2.75

Available in lengths up to 48 inches

FEEDER SPREADERS

They have a cross section of 3/4" x 1/2". Made of lightly vitrified, low absorption, high tensile strength porcelain with a smooth white glaze overall.

No.	Std. Pkg.	List Price
462—Spreader, 2" long	25	each \$0.22
464—Spreader, 4" long	25	each .30
469—Spreader, 6" long	25	each .40

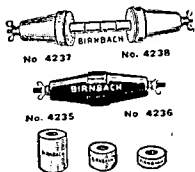
ANTENNA INSULATORS

These Antenna Insulators have exceptional low moisture absorption. The leakage path is long and the cross section is small and is consistent with the strength required. A smooth white glaze overall prevents the accumulation of dirt or ice.

No.	Std. Pkg.	List Price
668—4 1/4" long	25	each \$0.30
470—7" long	10	each .90
471—12" long	5	each 1.25
468—4 1/2" long Center Insulator	10	each .40

LEADIN INSULATORS

Each come is 2 3/4" high and made of low absorption, highly vitrified glazed porcelain. The Nos. 4237 and 4238 Leadin Insulators have sufficient insulating bushings to insulate the rod that goes through the wall. In addition, 2 bushings are included, 1/4" and 1/2" long, allowing complete insulation of the threaded rod of any length in multiples of 1/4". They come complete with brass nickel-plated hardware and lead and cork washers to permit a water-tight seal.



No.	Description	List Price
4235	—10" Rod	\$1.75
4236	—15" Rod	2.00
4237	—10" Rod with bushings	2.25
4238	—15" Rod with bushings	2.85

STEATITE BUTTON

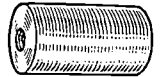
These specially designed steatite buttons are intended for use to simplify wiring and to be used as a binding post or as a binding post insulator, or as a standoff insulator. Attention is called to the uniqueness of the design which prevents either section of the insulator from turning in respect to the special screw. The specially designed screw locks both sections.



A 1/8"	B 1/2"	C 3/4"	D 1/2"	F 6-32
No. 457		Std. Pkg. 25		List Price \$0.30

STEATITE PILLARS

(Without Hardware)



In many constructions, these unmounted threaded steatite pillars will facilitate assembly because of the one hole mounting and parallel mounting surfaces. They are made of glazed Steatite with threaded holes on both sides.

No.	Height	Dia.	Threaded Hole	List Price
443	1/2"	1/2"	6-32	\$0.10
444	3/4"	1/2"	6-32	.10
445	1"	1/2"	6-32	.30
446	1 1/2"	1/2"	6-32	.35
447	2 1/2"	1/2"	6-32	.40
448	2 1/2"	3/4"	1/4-20	.60
449	4"	3/4"	1/4-20	.95

AIRPLANE INSULATORS

Used on mobile antenna installations, particularly on aircraft, as they are shaped for the least air resistance. They are made of white glazed low absorption porcelain.



No. Length	Std. Pkg.	List Price
473—2"	100	each \$0.15
474—1 1/2"	100	each .11

STEATITE AIRPLANE INSULATORS

A very small compression type insulator with small wind resistance. It is 1 1/2" long and 1/2" dia.

No. 463—Std. Pkg. 25, List Price \$0.35



TUBE CLAMPS

These tube clips will be found extremely desirable when mounting resonant lines or elements of directive beam antennas. They are made of hard drawn aluminum and are available for 1/8", 3/8", 1/2", 3/4" and 1" dia. tubes. The 1/8", 3/8", and 1/2" have a clearance hole for No. 10 screw and the 3/4" and 1" dia. clamps have holes for 7/8" bolts.



Cat. No	To Fit Tube	List Price
51—Clamp	1/4" Dia.	each \$0.18
52—Clamp	3/8" Dia.	each .18
53—Clamp	1/2" Dia.	each .18
54—Clamp	3/4" Dia.	each .18
55—Clamp	1" Dia.	each .30
56—Clamp	1 1/2" Dia.	each .40
57—Clamp	2" Dia.	each .40

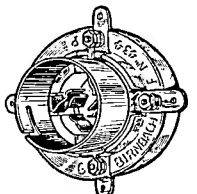
FLEXIBLE SHAFTS

At times there is difficulty getting the controls to the proper position on the panel. With couplings and these flexible shafts, locations can be made with ease on an offset and angles up to 90 degrees. The flexible shafts are made of phosphor bronze and fitted into 1/4" dia. hubs.

Cat. No.	List Price
553—Flexible Shaft, 3" long	each \$0.60
554—Flexible Shaft, 6" long	each .85

TRANSMITTING TUBE SOCKETS

Improved design and additional features of the Birnback transmitting sockets has increased their popularity and are accepted as standard. The 50 watt socket has extra heavy side-wiping phosphor bronze contact spring with the filament spring having a double contact to safely carry the heavy current. The tube base is supported by the highly polished nickel-plated brass shell set in a highly vitrified low absorption porcelain base which is ground flat to prevent breakage. All brass nickel-plated screw and milled nuts are used.



Cat. No.	List Price
434—50 Watt Socket	each \$1.70
435—10 Watt Socket	each 1.25

RCA ELECTRONIC COMPONENTS



TELEVISION ANTENNAS

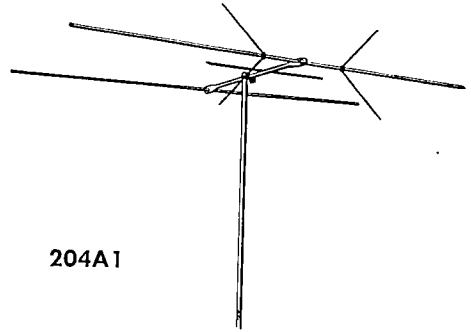
COMPLETELY NEW DESIGN — BUILT TO LAST RCA 12-CHANNEL TELEVISION ANTENNA — TYPE 204A1

BASED UPON YEARS OF FIELD EXPERIENCE
• Easily Assembled • Ruggedly Constructed • Uni-Directional

Here's an RCA "Leader" to meet the majority of your everyday antenna needs. Engineered and developed by RCA for plus-value service, RCA-204A1 is intended for use in most receiver locations where both high and low-frequency stations are in the same general direction. Unique RCA "V" attachments provide uniform directional characteristics for all 12 channels.

RCA-204A1 12-Channel Television Antenna is simple in design and appearance. Sturdily built of aluminum, it will withstand high winds, sleet, and ice. Designed for use with 300-ohm transmission line, the 204A1 rates "A" for antenna achievement:—for over-all performance and unusually flat response over each of the two television bands. It can be readily combined with any of the RCA Stacking Kits for fringe or other difficult reception areas.

Supplied with all necessary hardware and sturdy 5 ft x 1 1/4" aluminum mast which may easily be extended by addition of RCA-207A1 antenna mast sections. Completely illustrated instructions for installations are included.



204A1

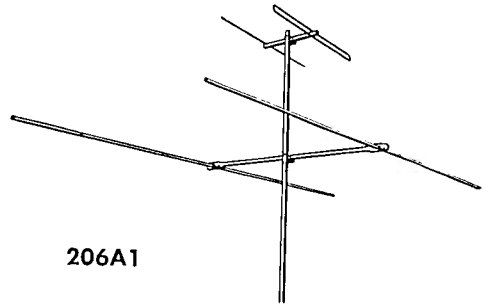
RCA "HIGH-LOW" TELEVISION ANTENNA ARRAY — TYPE 206A1

FOR 12-CHANNEL TELEVISION RECEPTION

Here's an antenna that you can depend upon for optimum performance in locations where high and low-channel stations are widely separated. Sturdily built to provide long, dependable service, the 206A1 will withstand severe weather conditions.

RCA-206A1, thoroughly tested for over-all performance characteristics, provides superior reception. When used with 300-ohm transmission line, it requires no external transformers nor matching stubs.

Comes complete with harness, all necessary hardware and sturdy 5 ft x 1 1/4" aluminum mast which may be easily extended by addition of RCA-207A1 antenna mast sections. Completely illustrated instructions included.

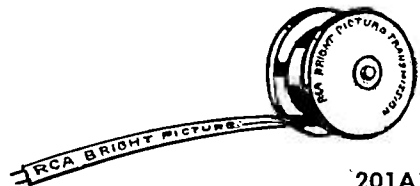


206A1

ANTENNA ACCESSORIES

Bright Picture Transmission Line

Especially designed for Television and FM. Special chemical-resistant plastic finish insures continued flexibility even in extreme heat or cold. Ultralow loss—less than 0.8 db per 100' at 50 Mc; less than 1.2 db per 100' at 100 Mc. 4.5 μf per foot capacitance. Propagation velocity 83%. Extra strong—supports a mile of its own weight (75 lbs.) before breaking. Stock No. 201A1. Sugg'd List Price: \$47.50 per 1000'.

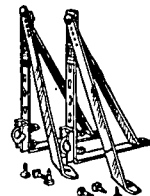


201A1

Antenna Mounting Brackets

For use with RCA Antennas Stock #225A1 and #226A1. Readily adjustable to permit mounting on any roof—regardless of overhang. Can be attached to brick, stone or wood. Entire bracket is plated with bright zinc, preventing rusting and subsequent staining of building surfaces. Special angular supports eliminate sagging. Stock No. 227A1. Sugg'd List Price: \$7.50 per pair.

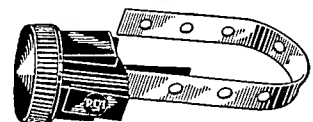
227A1



Twin-Lead Lightning Arrester

For use with FM and TV antennas. Easy to install—cutting or stripping of transmission line is unnecessary. Fits any 1/2"-2" pipe. Continually dissipates static surges. Does not unbalance line. Brown plastic case. Stock No. 206X1. Sugg'd List Price: \$1.10.

206X1



All prices in effect 5/15/49.



E. F. JOHNSON Company WASECA, MINNESOTA

THE JOHNSON "Q" AND JOHNSON "Q" BEAM

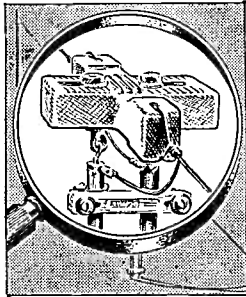
COMPLETE "Q" SYSTEMS

Cat. No.	List Price (Meters)	Band
137-2Q	\$7.00	2
137-6Q	10.50	6
137-10Q	9.75	10
137-14Q	14.00	14
137-20Q	16.50	20
137-40Q	28.00	40

The consistent results obtained by the thousands of users of the JOHNSON Q antenna system are due to the extremely high efficiency of this famous antenna. Applications include half-wave doublet, either horizontal or vertical, harmonic or "long wire" radiator, radiator-reflector, radiator director, "V" Beam, JOHNSON Q Beam and others.

The JOHNSON Q Beam is a special application of the Q system. It consists of two half-wave Q antennas spaced 1-5 wave and Q sections connected in parallel at the bottom. In ordering specify two Q antennas for the lower frequency of the two bands desired. For example if you want a Q Beam to operate on 10 and 20 meters, order two JOHNSON Qs for 20 meters.

The -20Q and -6Q use aluminum tubing for the radiating portion as well as for the matching section. The 136-35 Jack Strip and 136-36 Plug Strip make an ideal feeder connection at the transmitter when the antenna is suspended.



"Q" SUSPENSION ASSEMBLY

Includes new type insulator and all necessary hardware for connecting "Q" matching section to antenna and transmission line. Insulator may also be used to bring off "Zepp" feeders from the flat top.



136-106

Cat. No.	List Price
136-39 — Suspension Assembly	\$3.25
136-106 — Antenna Feeder Insulator only	.50

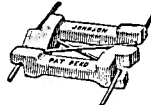
FEEDER INSULATORS

Nos. 136-122, -124 and -126 are conventional feeder spreaders of high grade low absorption porcelain, Silicone impregnated for finest water repellent characteristics. No. 136-122 is provided with notches for 1/2" line spacing. All have 3/8x1/2" cross section. No. 136-31 is a glazed porcelain transposition insulator which permits crossing transmission lines at frequent intervals to prevent radiation and provide 2" line spacing.

Cat. No.	List Price	Lg.
136-122	\$0.16	2"
136-124	.23	4"
136-126	.30	6"
136-31	.16	



136-122, -124, -126



136-31

ANTENNA INSULATORS

These insulators include both wet and dry process porcelain. The 136-107 and 136-112 are wet process and are 1" in diameter.

The Commercial Type is 1 1/2" in diameter, for use where much greater strength is necessary. The 136-104 is dry process and is 3/8" square, for service where the strength of the 1" or 1 1/2" types is not required.

These JOHNSON antenna insulators have long leakage paths, low capacity and their freedom from moisture absorption results in exceptional efficiency.

The 136-151, -152, -153 are wet process porcelain and are 1 1/2" in diameter. End fittings are of non-corrosive aluminum alloy.

Cat. No.	List Price	Break. Strng.	Lg.
136-104	\$0.20	400 lbs.	4"
136-107	1.10	800 lbs.	7"
136-112	1.20	800 lbs.	12"

Cat. No.	List Price	Breaking Strength	Net Overall
136-151	\$9.00	5000 lbs.	8" 15 1/2"
136-152	12.00	5000 lbs.	12" 19 1/2"
136-153	17.50	5000 lbs.	20" 25 1/2"

Cat. No. 136-32—Airplane compression type strain insulator of porcelain. 2" long
List Price \$0.15



136-107, 136-112



136-151, -152, -153

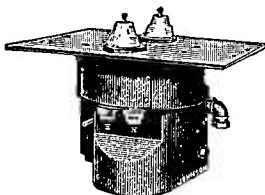


136-32

JOHNSON UNIVERSAL ROTOMATIC ANTENNA ARRAY



New direction indicator and Beam control is Selsyn motor operated.



Heavy-duty drive unit is self-lubricating and fully enclosed.

Available with Parasitic or Phased Driven Elements. Enjoy more QSOs — work more DX with the new JOHNSON Universal Rotomatic Beam.

The new symmetrical unidirectional beam employing phased driven elements is easy to tune — performs beautifully.

DeLuxe Models of the parasitic or phased arrays are available for two-band operation, employing two separate sets of elements but only one transmission line.

NEW JOHNSON PARASITIC ARRAY

When you see it you will realize it's in a class by itself! New, unique design allows an infinite variety of element lengths and spacing. Perfect impedance matching on two bands — any impedance from 50 to 600 ohms — coaxial or open wire line.

NEW ROTATOR AND DIRECTION INDICATOR

The heavy-duty drive unit will take rain, sleet and high winds in its stride — will turn on the coldest mornings. Rotation is instantly reversible, 360° at 1 1/2 RPM. Motor control and antenna relay switch are contained in the selsyn indicator case.

The elements, rotator, direction indicator, etc., may all be purchased separately.

See your JOHNSON Jobber for Rotomatic catalog (includes prices)

ROTOMATIC FEATURES

✓ **New Antenna Array**
The entire unit is so sturdy that it will withstand heavy icing and high winds.

Two-band operation with Deluxe model. Two arrays fed with same transmission line, switched by low-loss RF relay.

✓ **New Matching System**
New matching system permits efficient wide band operation and freedom to move about from the low to the high end of the bands. In addition, either open wire line or coaxial cable may be used.

✓ **New Heavy Duty Drive Unit**
Powerful, smooth, continuous rotation either direction at 1 1/2 RPM. Mechanism is self-lubricating and fully enclosed in weather-proof housing.

Universal bracket for mounting on pole or platform. May be driven with 1/20 HP motor or larger — rated at 1750 RPM.

✓ **New Direction Indicator and Beam Control**

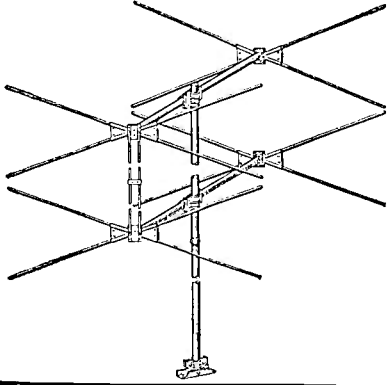
Selsyn motor controlled indicator. Indicating arrow glides through 360°, in either direction, over a map, with compass graduations. Stop beam anywhere instantly.

JIFFY-RIG TELEVISION ANTENNAS

Taco Jiffy-Rig Antennas are the answer to the quickest installations without any electrical or mechanical sacrifice. These antennas come completely assembled, and are readied for installation by merely opening up and tightening a few screws. Elements are all securely

locked in place when antenna is installed.

For performance curves and field patterns on all Taco antennas, refer to Catalog No. 30. Tests are made on all models at the thoroughly equipped Taco laboratories and testing grounds in Sherburne, N. Y.



LAZY X ANTENNA TYPE 950

First introduced by Taco in 1940, this antenna has a single forward lobe for both high and low channels. It has a high front-to-back ratio, high gain, and broad coverage. Available either as a stacked or single antenna. Stacked antenna has approximately twice the gain of single. Outstanding characteristic is stability of impedance and gain over far greater frequency range than most other types. Matches popular 300 ohm lead-in and receiver input.

CAT. No. 950—Stacked Lazy X Antenna for channels 2-13. 2 X Antenna-Reflectors, connecting line between antennas, bakelite terminal panel, mast swivel bracket, 2 five-foot mast sections. (Shipping Wt.: 11 lbs.) List Price \$41.50

CAT. No. 951—Stacked Lazy X Antenna. Same as No. 950 less 2 five-foot mast sections and mast swivel bracket. (Shipping Wt.: 9 1/2 lbs.)....List Price \$34.00

CAT. No. 952—Single Lazy-X Antenna with five foot mast and accessories. (Shipping Wt.: 7 lbs.)

List Price \$21.00

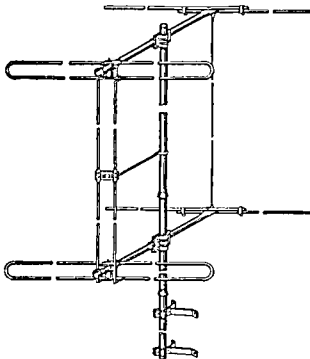
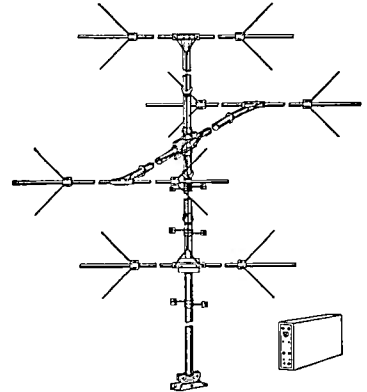
CAT. No. 953—Single Lazy-X Antenna less mast and accessories. (Shipping Wt.: 5 lbs.).....List Price \$16.50

ALL-CHANNEL REVERSIBLE BEAM ANTENNA TYPE 900

An entirely new and improved approach to co-channel interference caused by stations approximately 180° apart, on the same channel. Uses four driven elements instead of parasitic elements, resulting in extremely high front-to-back ratio ranging from 5:1 up to 20:1. Antennas are connected in pairs, each pair with separate lead to receiver. Diplexer supplied with antenna eliminates any ghosts due to mismatch between receiver and lead. Diplexer incorporates a direction-reversing switch to reverse receiving direction 180°. Antenna receives equally well in either direction. Covers all channels 2-13 with a single lobe.

CAT. No. 900 — All-Channel Reversible Beam Antenna Array. Consists of: 4 sets dipole elements with wings; 4 dipole connecting links with terminal panel; 3 five-foot section masts; accessories; 1 diplexer. (Shipping Wt.: 14 lbs.)
List Price \$59.50

CAT. No. 905 — High-Band Reversible Beam Antenna Array. Consists of: 4 high-frequency dipoles; 4 connecting links with terminal panel; 2 five-foot mast sections; 1 crossarm; accessories; 1 diplexer. (Shipping Wt.: 8 lbs.).....List Price \$32.00



STACKED HIGH-GAIN ANTENNA TYPE 995

For fringe areas where low-band channels are operating, this antenna has no equal as proved by its record-breaking history. Comes tuned for any one channel (2, 3, 4, 5, 6) but will receive adjacent channels with slight attenuation. Order for weakest channel. Cleans up fuzzy signals with its high signal-to-noise ratio. Used in high-signal areas to eliminate interference. Extremely rugged mechanically. Used with Catalog 992-D () director for extreme fringe areas.

CAT. No. 990-()—Stacked High-Gain Antenna. Specify channel in bracket. Consists of: 2 sets tuned dipole-reflectors; transmission lines with center terminal panel; transmission line brace. (Shipping Wt.: 9 1/2 lbs.)
List Price \$32.00

CAT. No. 995-()—Stacked High-Gain Antenna. Same as No. 990 plus the following: 3 five-foot mast sections; 1 set 190-7 mast brackets; 6 screw-eye insulators; 4 mast insulators; 2 guy rings. (Shipping Wt.: 14 lbs.)
List Price \$40.00

INDOOR ANTENNA TYPE 975

For strong signal areas where regular antenna is not feasible. May be located at receiver or in attic. Base made of mottled mahogany-finished bakelite. Dipoles nickel-plated with metal-balled tips. Mounting feet permit anchoring to rafter in attic. Dipoles may be set in any position or length, thus covering all channels. No knobs to tighten due to exclusive Taco ratchet design.

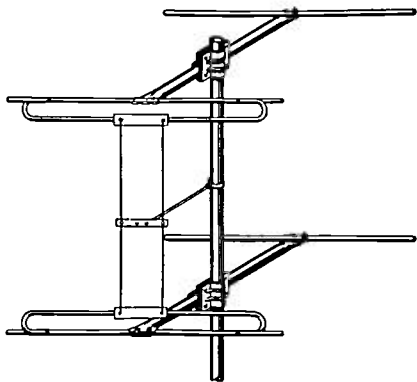
CAT. No. 975—Indoor Antenna. Individually packed. Standard package, 6 antennas. (Shipping Wt. for 6: 13 lbs.).....List Price \$6.50 each

DIRECTOR TYPE 992-D-()

For increased gain and sharper tuning on channels 2, 3, 4, 5, 6, this director has been designed to slip into the open end of Taco No. 995. Increases voltage gain by 3 db for tuned channel. For areas where sharper tuning and higher gain is desired, the addition of director greatly improves reception. Director may be added any time to an existing installation.

CAT. No. 992-D-()—Director (Channel 2, 3, 4, 5, or 6). Consists of: 2 crossarm assemblies with director elements assembled by Jiffy-Rig construction. (Shipping Wt.: 2 lbs.)
List Price \$9.50

JIFFY-RIG TELEVISION ANTENNAS



STACKED HIGH-GAIN ANTENNA TYPE 944 JIFFY-RIG CONSTRUCTION

The finest in high-frequency antennas. Used in fringe areas and areas of average signal strength with excellent results. Cleans up high-frequency signals through the use of two 600-ohm folded dipoles tapped at center terminal for a transmission line impedance of 300 ohms. Exceptionally flat field characteristics eliminates ground reflections. Broad banded, but may be peaked for additional gain on any high-frequency channel by the addition of directors.

CAT. No. 944—Stacked High-Gain Antenna for high-band channels 7-13. Consists of: 2 600-ohm folded dipole antenna-reflector combination mounted on crossarm; terminal panel; 5-foot aluminum mast; mast insulator. (Shipping Wt.: 5 lbs.)
List Price \$16.50

CAT. No. 947 D—H. F. Directors adjustable for any high channel. Attaches to Cat. 944 antenna. (Shipping Wt.: 3 lbs.).....List Price \$3.50
2 packed per carton

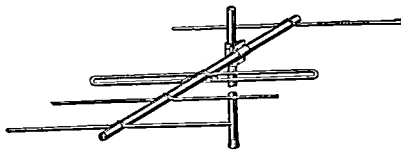
YAGI ANTENNA TYPE 957 JIFFY-RIG CONSTRUCTION

An exceptionally high gain, sharply tuned antenna. Performance comparable to stacked antenna-reflector array for any one channel. Available in 3 models to cover the 7 upper channels. Model 957-8 covers 7, 8, 9; 957-10 covers 9, 10, 11; 957-12 covers 11, 12, 13. Sharp tuning means elimination of much interference and ghosts caused by reflected signals. May be stacked with Type 958 Stacking Kit for a 9 db gain. Jiffy-Rig construction, fully assembled.

CAT. No. 957-(8, 10 or 12)—Yagi Antenna. Consists of: 1 folded dipole antenna; 1 reflector; 2 directors; 1 crossarm with mast-mounting clamp. 5 ft. mast (Shipping Wt.: 4 lbs.)
List Price \$11.00

CAT. No. 958-(8, 10, or 12)—Yagi Antenna Stacking Kit. Same as above without mast but with transmission line for stacking. (Shipping Wt.: 3 lbs.).....List Price \$9.00

CAT. No. 959-(8, 10, or 12)—Stacked Yagi Antenna. Combination of a 957 and a 958 antenna. (Shipping Wt.: 6 lbs.).....List Price \$18.75



SINGLE HIGH-BAND ANTENNA TYPE 945

Ideal for use as high-frequency adapter in average to strong signal areas. Jiffy-Rig construction matches 300-ohm antenna and permits use of common transmission line through use of matching network. Used as antenna in areas where only high frequency stations are operating. May be stacked in weak signal areas using Type 946 Antenna.

CAT. No. 945—Folded Dipole Antenna. Consists of: folded dipole with reflector; 5-foot mast. (Shipping Wt.: 2 lbs.) List Price \$7.00

CAT. No. 946—Folded dipole Stacking Antenna. Same as above less mast. (Shipping Wt.: 1 lb.).....List Price \$5.75

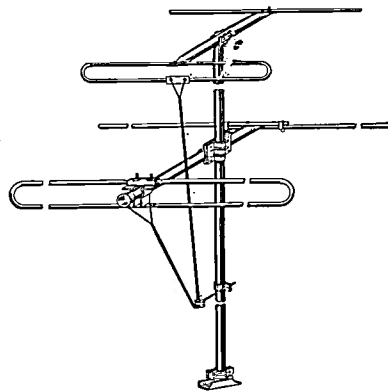
HI-LO BAND ANTENNAS TYPE 920 AND 925 JIFFY-RIG CONSTRUCTION

An improved version of the famous Taco 465, original piggy-back Hi-Lo Band Antenna. The most popular types for areas of average signal strength where both high and low bands are in operation. Separate high and low band elements allow independent orientation of high and low-band antennas for elimination of ghosts and sharpness of picture. Matching network minimizes interaction between sections, and allows full freedom in orientation. Also available as a stacked high and single low-band antenna. Cat. No. 920 for increased gain usually needed in the high-band channels.

CAT. No. 925-5—5-foot Hi-Lo Band Antenna. Consists of: High and low-band folded dipole antennas-reflectors; 5-foot mast; matching network; mast swivel base. (Shipping Wt.: 6 lbs.).....List Price \$17.00

CAT. No. 925-10—10-foot Hi-Lo Band Antenna. Same as above plus extra 5-foot mast section, guy anchor, extra mast standoff. (Shipping Wt.: 7 lbs.).....List Price \$20.00

CAT. No. 920—Stacked High, Single Low-Band Antenna. Consists of: Stacked high-band antenna-reflector combination; Low-band antenna-reflector; matching network; 2 five-foot mast sections; swivel base bracket; guy anchor. (Shipping Wt.: 8 lbs.).....List Price \$25.00



FOLDED DIPOLE ANTENNA-REFLECTOR TYPE 940

An economical, dependable folded dipole antenna for prime service area use. Single lobe in low band, Jiffy-Rig construction assures quick erection. Matches 300-ohm transmission line. For added gain a 992-() director may be used.

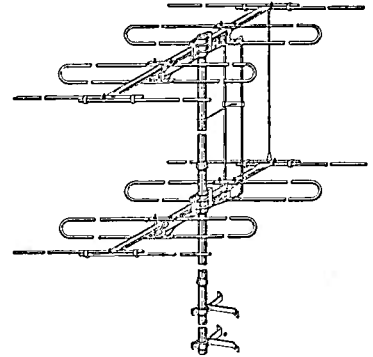
CAT. No. 940-L—Folded Dipole Antenna-Reflector Type 940. Consists of: 1 folded dipole; crossarm with mast clamp; reflector; 1 5-foot mast;

2 mast insulators; swivel base. (Shipping Wt.: 5 lbs.)
List Price \$15.00

JIFFY-RIG TELEVISION ANTENNAS

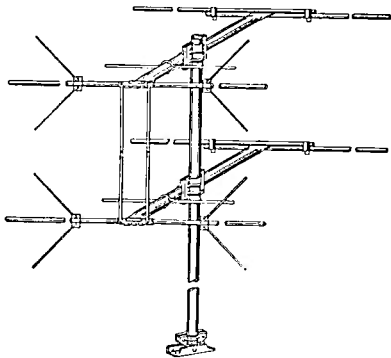
TWIN-DRIVEN YAGI ANTENNA

For fringe area reception a rotator often permits maximum results. Taco twin-driven Yagi Antenna, due to its high gain, is the ideal antenna because of its low overall height. In sub-fringe areas use 980-() stacked model with a gain of over 9 db. Special bulletin available on request. Tuned for each low band channel. Use 959-() for high band stations. The antenna and first director are driven elements for improved impedance match.



- CAT. No. 980-()—Two-Bay Twin-Driven Yagi Antenna, less mast. List Price \$49.50
- CAT. No. 981-()—Single Bay Twin-Driven Yagi Antenna, less mast. List Price \$24.00

- CAT. No. 985-()—Two-Bay Twin-Driven Yagi Antenna with 15-foot mast. List Price \$59.50
- CAT. No. 986-()—Single Bay Twin-Driven Yagi Antenna with 5-foot mast. List Price \$27.50



SINGLE-LOBE DOUBLE-DOUBLET TYPE 912

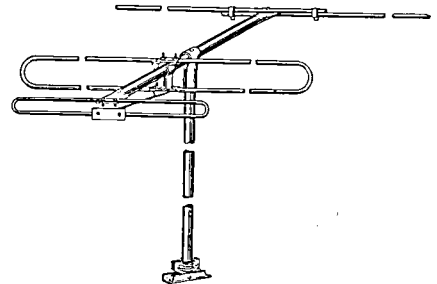
Originally designed as a low band antenna and well known as Cat. No. 435 Lazy H Antenna. Re-designed for high-low band operation by the addition of high frequency wings and H. F. reflectors to give the one direction lobe necessary for most localities. High gain and excellent front-to-back ratio obtained by use of separate high frequency reflectors. Recommended for low signal strength areas. Good FM coverage. Available as a signal bay unit Cat. 910 for higher signal strength areas.

- CAT. No. 912—Single-lobe Double Doublet Antenna. Consists of: 2 antenna-reflectors on separate crossarms; high frequency reflectors; connecting network; 2 five foot masts; mounting accessories; high frequency wings. (Shipping Wt.: 8 lbs.).....List Price \$25.00

- CAT. No. 910—One-Bay Single Lobe Antenna for high and medium signal strength areas. Consists of: antenna-reflector combination on one crossarm; high frequency reflector; high frequency wings; 5-foot mast; mounting accessories. (Shipping Wt.: 6 lbs.).....List Price \$15.00

HI-LO BAND IN-LINE ANTENNA TYPE 930 AND 932

Designed for areas of average-to-strong signal strength where both high- and low-band channels are in the same direction. Gain is high in both bands. Directivity lobes show this antenna as having one main forward lobe in both the high and low band. Matching network eliminates troublesome interaction between elements. Perfect match for 300-ohm lead-in. A stacked model Cat. No. 932-10 is available where additional gain is required in either band.



- CAT. No. 930-5—5-foot In-Line Antenna. Consists of: High and low-band antenna sections with low-band reflector; 5-foot mast; jumper network; 3 screw-eyes; mast standoff; mast swivel bracket and mounting screws. (Shipping Wt.: 6 lbs.).....List Price \$17.00

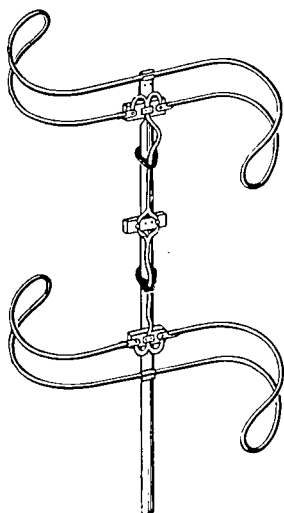
- CAT. No. 930-10—10-foot In-Line Antenna. Same as 910 plus one extra 5-foot section of mast. (Shipping Wt.: 7 lbs.).....List Price \$20.00
- CAT. No. 932—10-foot Antenna. Consists of: 2 high-low antenna-reflectors; 2 crossarms; 2 five-foot mast sections; mounting accessories. (Shipping Wt.: 10 lbs.).....List Price \$34.00

ACCESSORIES AND SUPPLIES

- | | | |
|----------------------|--------------------------|--------------------------|
| Extension Masts | Crossarm Connectors | Screw-eye Standoffs |
| Sectional Masts | Mast Guy Anchors | Ribbon Transmission Line |
| Mast Couplings | Mast Standoff Insulators | Concentric Cable |
| Mast Brackets | Ribbon Wire Insulators | Twisted Pair Lead-in |
| Mast Swivel Brackets | Baseboard Standoffs | H. F. Splicing Tape |
| Antenna Insulators | Porcelain Nail Knobs | Window Lead-in Strips |
| Strain Insulators | Lightning Arrestors | Ground Rods |
| Turnbuckles | Shorting Bars | Ground Clamps |
| Guy Wire | Replacement Parts | Ground Straps |

FM ANTENNAS

FM OMNIDIRECTIONAL ANTENNA TYPE 624



This antenna has nearly the same gain as a single dipole in the FM band, which is unique for an antenna of the non-directional type. Covers FM band with practically equal gain throughout, due to its 300-ohm impedance. Gain and band-width greater than that of turnstile antenna. For areas with less signal strength, the 624 may be stacked $\frac{1}{2}$ wave-length between elements for maximum gain and minimum interaction. In a stacked array it is possible to peak the antennas for weaker stations.

CAT. No. 624—Omnidirectional Antenna. Consists of: 1 S-Type folded dipole with terminal panels; 1 5-foot aluminum mast; 2 mast insulators; 60-foot transmission line; 2 ribbon-type standoff insulators; 2 mast clamps; mounting screws. (Shipping Wt.: 4 $\frac{3}{4}$ lbs.)
List Price \$11.00

CAT. No. 624-L—Omnidirectional Antenna. Same as above less transmission line. (Shipping Wt.: 4 lbs.).....List Price \$8.00

CAT. No. 624ST—Stacked Omnidirectional Antenna. Consists of: 2 S-Type antennas; 1 stacking transmission line with terminal panel and mounting clamp; 2 5-foot aluminum mast sections; 1 coupling for mast with mounting panel; 60-foot transmission line; 2 ribbon type standoff insulators; 2 mast clamps with mounting screws. (Shipping Wt.: 6 $\frac{1}{2}$ lbs.)
List Price \$18.00

CAT. No. 624ST-L—Stacked Omnidirectional Antenna. Same as above less transmission line. (Shipping Wt.: 6 lbs.).....List Price \$15.00

FM FOLDED DIPOLE ANTENNA-REFLECTOR

The folded dipole is the best type FM antenna inasmuch as the spread is only 10% above and below the mean frequency. Has a flat response of 3 db over entire FM band. Unidirectional characteristic is ideal for pinpointing in noisy locations. Mechanically rugged. Electrically perfect.

CAT. No. 620—Folded Dipole Antenna-Reflector. Consists of: 1 folded dipole; 1 reflector with crossarm; 5-foot aluminum mast; 2 mast insulators; 2 mast-mounting straps with mounting screws; 2 standoff insulators; 60-foot 300-ohm transmission line. (Shipping Wt.: 4 $\frac{3}{4}$ lbs.)
List Price \$13.50

CAT. No. 620-L—Folded Dipole Antenna Reflector. Same as above less transmission line. (Shipping Wt.: 3 $\frac{3}{4}$ lbs.).....List Price \$10.50

CAT. No. 621—Folded Dipole Antenna. Consists of: 1 folded dipole with terminal block; 60-foot 300-ohm transmission line; 1 5-foot mast; 2 mounting straps and mounting screws; 3 special screw-eyes. (Shipping Wt.: 3 $\frac{1}{2}$ lbs.).....List Price \$10.25

CAT. No. 621-L—Folded Dipole Antenna. Same as above less transmission line. (Shipping Wt.: 2 $\frac{1}{2}$ lbs.).....List Price \$7.25

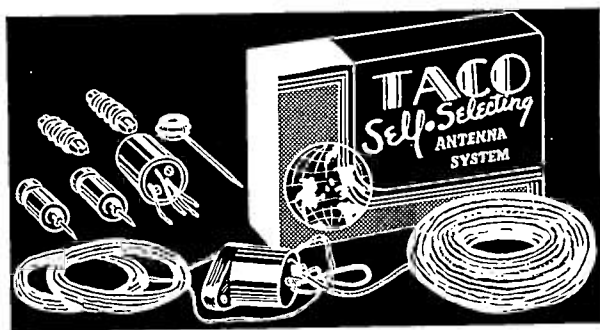
FM STACKED HIGH-GAIN ANTENNA

For low-strength signal areas. Maximum gain through proper spacing and matching. Impedance at terminal panel is 300 ohms, assuring good match. Designed to retain broad band coverage despite gain. Front-to-back ratio approximately 15:1; gain about 6.5 db over reference dipole in FM band. Built to withstand all kinds of weather. May be used with a rotator for pinpointing reception in fringe areas.

CAT. No. 635—Stacked Folded Dipole Antenna-Reflector. Consists of: 2 folded dipoles; 2 reflectors with crossarms; 2 transmission lines with terminal panels; 2 5-foot mast sections; mounting hardware. (Shipping Wt.: 9 $\frac{1}{4}$ lbs.).....List Price \$25.00

ANTENNA SYSTEMS

ALL-WAVE NOISE REDUCING ANTENNA SYSTEM



Taco AM antenna kits have been designed and manufactured to perform the important function of delivering as much signal strength to the receiver as possible, and at the same time to hold back undesirable background noises. The signal-to-noise ratio is extremely high, due to the matching transformers incorporated in the following systems.

DOUBLET ANTENNA SYSTEM TYPE 220 FM

Balanced doublet type covering the standard broadcast, shortwave and FM bands. Completely wired, soldered and tested. Includes Type 221 antenna transformer, two 30-foot coils of aerial wire, 60-foot transmission line, and all necessary hardware. Standard Package: 6.

CAT. No. 220-FM—(Shipping Wt.: 4 lbs.).....List Price \$13.50 each
CAT. No. 220—Antenna, AM only.....List Price \$12.75

MULTIPLE OUTLET SYSTEM

Master antenna system for connecting 10-30 AM or FM receivers to one antenna using one or several transmission lines. Used extensively in schools, hospitals and apartment houses. Special type antennas for school public address installations.

INFORMATION ON FM AND AM ANTENNAS IS CONTAINED IN SPECIAL TACO CATALOG.

PREMAX

Telescoping Vertical Antennas

Premax Adjustable Tubular Antennas have been widely used in radio fields for a long period of years and have shown exceptionally efficient, dependable performance under most severe climatic and shock conditions, both in continental United States and abroad. They are available in various lengths to meet all requirements, in monel, aluminum and steel. Mountings and insulators will be found on page S-48.

MONEL ANTENNAS FOR CORROSION RESISTANCE

Premax Monel Antennas have an outstanding combination of strength and corrosion resistance that is vital to trouble-free communications, whether at land or at sea . . . in the tropics or the arctics. The monel used in these Premax Antennas . . . two-thirds nickel and one-third copper . . . is twice as stiff as bronze, strong as structural steel. Yet it will not corrode or lose its strength in salt-water installations, Polished chrome-plated finish on all sizes.

Premax Monel Antennas are built up of multiple sections of hard-drawn monel tubing of a tensile strength exceeding 125,000 pounds per square inch. They are available in five standard units, fully telescoping and adjustable to any height between the minimum and maximum shown. The locking device employs a special knurled thimble and split friction clutch sleeve and holds the sections firmly at any desired height, also providing perfect electrical contacts.

SPECIFICATIONS

No.	Description	Ext'd. Lgth.	C'laps'd. Lgth.	Base O.D.	Base I.D.	Wgt. ea. lbs.
MM-313	2-Sec. Tele.	about 13'	6'9"	.615"	.545"	2 3/4
MM-419	3-Sec. Tele.	about 19'	6'9"	.747"	.667"	5
MM-825	5-Sec. Tele.	about 25'	5'8"	.893"	.799"	7 1/2
MM-430	5-Sec. Tele.	about 30'	6'9"	1.065"	.945"	13
MM-635	5-Sec. Tele. Heavy	about 35'	7'8"	1.250"	1.120"	21

ALUMINUM ANTENNAS FOR LIGHT WEIGHT

Premax Adjustable Type Aluminum Antennas are designed to provide light-weight with corrosion resistance and adequate strength to meet the most exacting conditions, for marine, mobile and commercial installations where convenience in erection and dependable performance are important considerations. They are ideally adapted for use in radio telephone installations on fresh-water craft and commercial installations where convenience in extending and collapsing are important considerations.

These Antennas are built up of tubing that is specially drawn seamless tempered aluminum with diameters, gauges and temper engineered to withstand wind velocities up to 60 m.p.h. The locking device is simple and positive and provides low-resistance contact between sections. Six units are available, all fully telescoping.

SPECIFICATIONS

No.	Description	Ext'd. Lgth.	C'laps'd. Lgth.	Base O.D.	Base I.D.	Wgt. ea. lbs.
AL-106	1-Pc. Taper Rod	6'3"	6'3"	.313"	.....	1/4
AL-312	2-Sec. Tele.	12'4"	6'4"	.500"	.334"	1 1/2
AL-518	3-Sec. Tele.	18'5"	6'4"	.750"	.584"	3
AL-324	4-Sec. Tele.	24'4"	6'4"	1.000"	.834"	5
AL-530	5-Sec. Tele.	30'0"	6'5"	1.250"	1.084"	7
AL-535	6-Sec. Tele.	35'8"	6'5"	1.500"	1.310"	12

HEAVY-DUTY NON-ADJUSTABLE

Another type for special installations under extraordinarily trying conditions is a Heavy-Duty, Non-Adjustable Aluminum Antenna in either 17 1/2' or 35' length. This is a specially heat-treated Antenna designed to withstand wind velocities up to 100 m.p.h. The tubing is step-tapered from a base diameter of 2" to a top of 1 1/2" on the 35' mast and a base of 3 1/2" to a top of 1 1/2" on the 17 1/2' mast.

HEAVY-DUTY, NON-ADJUSTABLE

AM-017	1-Pc. Taper Tube	17'9"	17'9"	.969"	.689"	5 1/2
AM-035	2-Sec. Taper	35'0"	17'9"	2.000"	1.732"	19

(For Base Insulators and Mountings, See Page S-48)

STEEL ANTENNAS FOR LOW COST

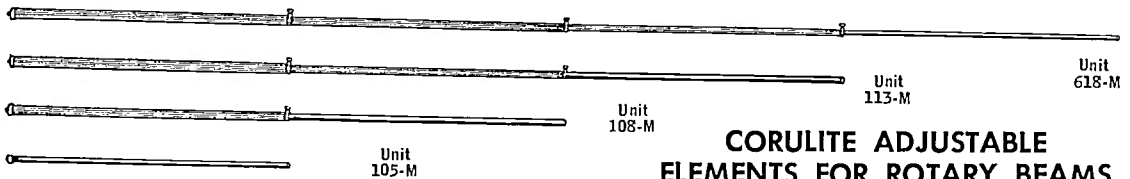
The low initial cost and general satisfaction of Premax Tubular Steel Antennas have made this equipment within all budget requirements for commercial, municipal, amateur and other types of installations. In construction these Antennas are made of high-tensile, copper-nickel steel tubing of carefully engineered diameters and wall thicknesses, heavily cadmium-plated and highly resistant to corrosion. When properly mounted, they will withstand all ordinary stresses without guying, but it is generally advisable to support them by guys or standoff insulators against abnormal winds or extreme strains.

Standard Premax Adjustable Tubular Steel Antennas are available in two, three, four, five and six-section models. All units are fully telescoping and adjustable within the lengths shown for the particular type. The locking device is simple in operation, positive in action and provides a secure and efficient electrical contact between the sections. While these Antennas possess unusual tensile strength, they are light in weight and easily portable. They have widespread use in fixed and mobile installations. NOT recommended for marine use on salt water.

SPECIFICATIONS

No.	Description	Ext'd. Lgth.	C'laps'd. Lgth.	Base O.D.	Base I.D.	Wgt. ea. lbs.
112-M	2-Sec. Tele.	11'8"	6'1"	.656"	.556"	4
318-M	3-Sec. Tele.	17'3"	6'2"	.875"	.775"	7
224-M	4-Sec. Tele.	22'9"	6'3"	1.063"	.963"	11
130-M	5-Sec. Tele.	28'3"	6'4"	1.250"	1.150"	15
136-M	6-Sec. Tele.	33'9"	6'5"	1.500"	1.400"	20

(For Base Insulators and Mountings, See Page S-48)



CORULITE ADJUSTABLE ELEMENTS FOR ROTARY BEAMS

Premax Corulite Elements are designed to meet the need for lightweight but sturdy elements for use in horizontal arrays and similar applications. They are unusually light in weight and their special corrugated or reed design provides exceptional strength and rigidity so essential in horizontal types of installations. All parts are heavily electro-plated to provide corrosion resistance and high electrical conductivity. A positive clamp, spot-welded to the tubing, permits adjustment in length and assures rigid joints and positive electrical contact between the telescoping sections. Ease of adjustment between the two halves of each component element is provided by the Premax "Hairpin" Tuning Bar. By its use it is possible to have all of the elements set at a single physical length and the variation in their electrical length may be accomplished by the "Hairpin."

Corulite Elements are available in one, two, three or four-section units as shown in the specifications at the right. These elements meet all requirements for the various five to twenty-meter arrays in general use and are ideal for combinations in commercial, FM, television or amateur bands.

SPECIFICATIONS

No.	Description	Extended Length	Collapsed Length	Base O.D.	Recommended For	Weight Per Pr.
105-M	1-Section	5'0"	3'0"	.625"	6-meter	1 lb.
108-M	2-Section	8'2"	4'7"	.750"	10-meter	2 lbs.
113-M	3-Section	12'4"	4'8"	.875"	.....	3 1/2 lbs.
618-M	4-Section	17'0"	5'3"	1.000"	20-meter	5 1/2 lbs.

PREMAX PRODUCTS, DIVISION OF CHISHOLM-RYDER COMPANY, INC., NIAGARA FALLS, N. Y.

Television transmitters emit horizontally polarized waves. However, near the receiving antenna, due to reflections from tall trees, buildings and other obstructions, there is bound to be a vertical component which, when combined with the horizontal component, will run the angle of polarization *somewhat above the original horizontal plane*.

Thus a "direct" and a "reflected" signal often combine at the receiving antenna and where an ordinary horizontal type dipole antenna is used this combination of signals produces only a minimum of desired signal *because one signal tends to cancel out the other*.

With the Premax Adjustable V Dipole Antenna the proper vertical or horizontal adjustment of the elements will correct this condition and make the two signals *combine* in phase, thereby *increasing* rather than reducing the received signal.

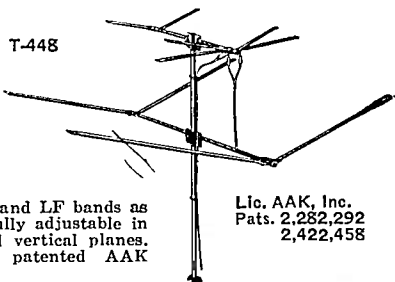
Premax dipole elements are designed to permit any desired adjustment of the angle for strongest reception (usually 35° to 45° above the horizontal plane) and they can be securely locked in the position deemed best.

Another feature of the Premax Adjustable V Dipole Antenna is that, properly mounted, it permits a *sufficient* signal energy *at the antenna terminals* to minimize the importance of the otherwise difficult task of perfect impedance matching.

Many leading radio engineers who have tested the Premax Adjustable V Dipole Antenna, mounted reasonably high and in the clear, find it insures *optimum reception* of signals from *all* of the TV stations which come within the line of sight.

COVERS ALL TELEVISION & FM CHANNELS

Simpler! Lower in cost! Easy to erect! Oversize elements! Adjustable V Dipole design! Two completely separate arrays on one mast, each of dipole and reflector. Provides maximum signal pickup for all channels in HF and LF bands as well as for FM. Fully adjustable in both horizontal and vertical planes. Interconnected by patented AAK divider coil system.



T-448

Lic. AAK, Inc.
Pats. 2,282,292
2,422,458

Can also be had in individual antennas for either HF or LF. Then, at any time, the other array may be added to give full two-band coverage.

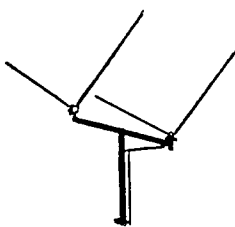
- T-448—LF-HF Antenna complete, less transmission line.
- TL-448—LF-HF Antenna complete with 75' 300-ohm. transmission line.
- TA-4481—LF Antenna and reflector only, including mast, less transmission line.
- TAL-4481—Same as TA-4481 but with 75' 300-ohm transmission line.
- TB-4482—HF Antenna and Reflector only, including mast, less transmission line.
- TBL-4482—HF Antenna and Reflector only, including mast and 75' line.
- TC-4483—HF Conversion Unit, less mast, less transmission line.
- TD-4484—LF Stacked Array, with 9' mast, less line.

FM and TV ADJUSTABLE "V" ANTENNAS



FM-130

Designed for maximum response for FM and TV bands. Dipole arms of heat-treated aluminum with wire terminals for lead-in connections. 50" tubular steel support mast. Arms may be locked at any designed angle. Simple, light-weight design is simple to erect and install. Provides better reception than any straight dipole in congested areas.



FM-230

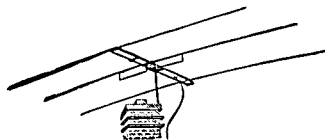
No. FM-130—FM Antenna complete with mounting, less transmission line.

No. FML-130—Same as FM-130 but with 75' 300-ohm twin-lead transmission line..

No. FM-230—Same as FM-130 but with reflector, less transmission line.

No. FML-230—Same as FM-230 but with 75' 300-ohm twin-lead transmission line.

ROTARY BEAM ANTENNA FOR 6-10-11 METER BANDS



RB-6309

A high-gain directive Antenna with many distinctive features and high degree of flexibility for use on 6, 10 or 11 meter bands. Aluminum supporting frame. Seamless duraluminum tubing elements readily adjustable in length for operation at optimum efficiency in any band listed. Light in weight with slight wind resistance.

RB-6309 Kit includes frame, 3 pr. Elements with necessary insulators and hardware including T-match accessories but no transmission line. Weight 30 pounds.

309-A Extra Elements only, no frames, insulators or hardware included. Packed in pairs. Weight 2 lbs. per pair.

HAND-OPERATED TURNTABLE

Will support the largest type of Rotary Beam Assembly and permits rotation for full 360° in either direction. Formed of heavy sheet steel, spot welded. Steel angles spot-welded inside housing for additional strength. Platform or turntable is 10" x 12" formed of extra heavy sheet steel, is supported by 7" ball thrust bearing. Main shaft supported by two bearings to prevent side-play. 5/8" opening through center shaft for lead-in wires. Duraluminum control cable pulleys and 6' galvanized flexible steel cable. Shipping weight 17 pounds.



BM-46

PREMAX PRODUCTS, DIVISION OF CHISHOLM-RYDER COMPANY, INC., NIAGARA FALLS, N. Y.

CENTER-LOADED TUBULAR TELESCOPING MARINE ANTENNA

Gives a remarkable gain over the signal produced by a base-loaded type of same overall length. At high-frequency end of its 2000 to 3000 kc range it gives a measured effective signal power of 6 decibels when compared with a base-loaded antenna of similar length. This is equivalent to that produced by quadrupling the transmitter power output. For example, with this new Antenna, a 10w transmitter will produce a signal equal to that of a 40w transmitter using a base-loaded antenna and tuning system.

The base of this Antenna presents such a low impedance that less loss is experienced with leaky base insulators due to icing, wet weather or water spray. The line feeding the base is a low impedance line and is not critical as to length and body-capacity effects as is the case of the base-loaded antenna where the loading coil is housed in the transmitter cabinet.

The Antenna consists of two telescoping, adjustable base sections on which the loading coil is mounted, with a tapered top whip section. Each tubular section and the top whip is approximately 6 1/2' long, providing a total extended length of about 19'. The base sections collapse to a single unit and the top whip section telescopes through the coil into the lower sections, making a collapsed length of only about 7 1/2'.

Available in monel for salt-water installations or in aluminum for fresh water use.

CLM-519—Monel type

Base O.D. .893" I.D. .799"

CLA-619—Aluminum type

Base O.D. 1.000" I.D. .834"

Solid Stainless Steel Tapered Antennas

Recommended for use where extreme durability and great corrosion resistance are necessary. One-piece solid hard-drawn stainless steel rod, tapered from 3/4" base to 1/8" top. A tough, durable Antenna that will take it. Available in three standard lengths, to fit all standard mountings shown on page S-48.

No. SP-472—Stainless Steel Tapered Antenna, 72" long.

No. SP-484—Stainless Steel Tapered Antenna, 84" long.

No. SP-496—Stainless Steel Tapered Antenna, 96" long.

(For Mountings See Page S-48)

Solid Steel "Whip Type" Graduated Diameter Antennas

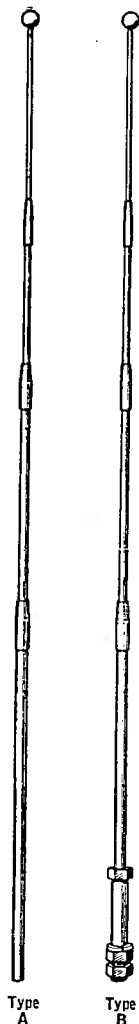
Made of solid steel of extremely high carbon content, heat-treated and oil-tempered to carefully develop physical properties. Rods of varying diameters cold-drawn to rigidly-held tolerances, are joined securely and permanently into a single graduated length Antennas of high flexibility, minimum wind resistance and long life. Available in cadmium-plated with plain 1/4" end (Style A) or 7/16" threaded stud end complete with hexagon nuts and lock washers (Style B). Also available in stainless steel.

CADMIUM-PLATED STEEL			STAINLESS STEEL		
Length	Style A	Style B	Length	Style A	Style B
72"	AC-172	BC-172	72"	AS-172	BS-172
78"	AC-178	BC-178	78"	AS-178	BS-178
84"	AC-184	BC-184	84"	AS-184	BS-184
90"	AC-190	BC-190	90"	AS-190	BS-190
96"	AC-196	BC-196	96"	AS-196	BS-196

(Mountings for Mobile and Police Antennas Shown on Page S-48)



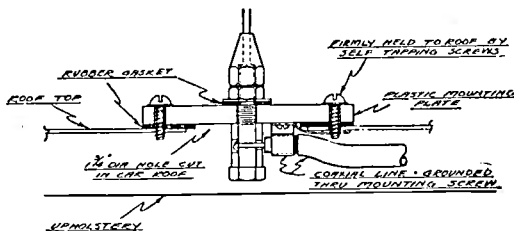
Center Loaded Antenna



Type A

Type B

160 Mc. Roof Antenna—1 Man Mount



The most improved, easiest to install Roof Antenna made! One man makes the installation without cutting or ripping car upholstery. Single hole 1 3/4" diameter in metal roof is all that is necessary.

Mounting grounds coaxial sheathing of lead-in line. Rubber gasket insures against leakage. Transparent plastic insulator makes inspection easy. The antenna is stainless steel wire, 18" long with ball-tip and threaded fitting. Suitable for all frequencies in the 152 to 162 megacycle band.

No. DSH-118—Complete Assembly, less transmission line.

No. DS-118—Antenna only.

No. DSJ-118—Antenna with one-hole mounting and porcelain insulator. (Not illustrated.)

Motorcycle Antennas and Mounts

Overcomes weaknesses and defects commonly found in other types! In this Premax, the coaxial line is grounded to same portion of mounting bracket that carries the antenna support itself. Hence no flexing of cable between ground and antenna connection.

A spring-tension joint permits entire antenna including insulator support and grounded cable to be deflected 90° without injury. Spring tension is sufficient to prevent accidental deflection.

Cadmium-plated steel bracket fits 3/4" tubing frame in either vertical or horizontal position as shown at right.

Antenna is high-carbon, heat-treated tempered steel 34" long mounted in high-strength porcelain cone insulator. Antenna may be changed without disturbing insulator assembly.

No. CCY-134—Complete Assembly, Antenna and Mounting, less cable.

No. CC-134—Antenna only with Adaptor.

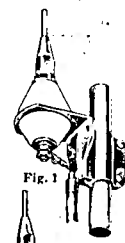


Fig. 1

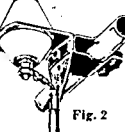


Fig. 2



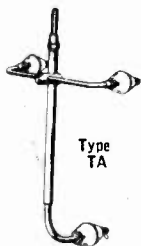
TYPE NA Insulated Bumper Mounting. Plates heavily cadmium-plated steel; insulation white glazed ceramic cones. Fits Style A or 1/4" antenna.



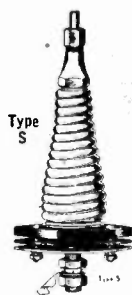
TYPE K Insulated Bumper Mounting. Antenna rod fits into section of heavy brass tubing attached to the insulator and permits 10" adjustment in height of antenna. Nut and compression sleeve lock antenna in place. Fits Style A or 1/4" antenna. White glazed ceramic insulator.



TYPE R Insulated Universal Mounting of split-ball type. Solid cast bronze, which bolts directly to car panel or other surface thru heavy plastic disc insulation with waterproof gasket and steel backplate. Baked black enamel finish. Fits Style A or any 1/4" antenna.



TYPE TA Trunk or Panel Mounting. for Premax Style A or any 1/4" Antenna. Fastens to car body or trunk or to any horizontal surface such as roof. Lower support is solid brass rod joined to 12" brass tube carrying antenna. Upper support is 24" brass rod adjustable on antenna tube and also in insulator assemblies to fit contour of car. High-tension white-glazed ceramic cone insulators. Maximum 10" antenna adjustment. All metal parts heavily cadmium plated.



TYPE S Insulated Roof Mounting for auto or any flat surface. Special plastic insulation disc carrying heavy tempered steel spring with retaining nut and tapered split bushing to fit Premax Style A or any 1/4" antenna. Overall height about 5"; diameter of base about 3". Fittings are solid brass electroplated.



TYPE SA Spring Adaptor Mounting, similar to Type S described above except that a base plug is provided with an adaptor stud to fit any Premax Mounting shown in this column. Fits Premax Type A or any 1/4" Antenna. Overall height about 4 3/4"; base diameter about 1 3/8".



Type 1 Base Insulator; heavy-duty with compression rating up to 10,000 lbs. Galvanized malleable iron or bronze. Available in three styles:

Type 1 RIGID POST TYPES (illustrated)

Galv. No.	Bronze No.	Dia. Post	Top Post	Fits Antennas Nos.
1PG-24	1PB-24	3/8"	3/8"	318-M
1PG-25	1PB-25	1/2"	1/2"	MM-825
1PG-26	1PB-26	1/2"	1/2"	AL-324
1PG-30	1PB-30	1/2"	1/2"	MM-430, MM-435
1PG-34	1PB-34	1 1/8"	1 1/8"	AL-530
1PG-35	1PB-35	1 1/8"	1 1/8"	MM-635
1PG-41		1 1/8"	1 1/8"	AL-535
1PG-44		1 1/8"	1 1/8"	136-M
1PG-55		1 3/8"	1 3/8"	AM-035

HINGED POST TYPES

Galv. No.	Bronze No.	Dia. Post	Top Post	Fits Antennas Nos.
1HG-25	1HB-25	3/8"	3/8"	MM-825
1HG-26	1HB-26	1/2"	1/2"	AL-324
1HG-30	1HB-30	1/2"	1/2"	MM-430, MM-435
1HG-34	1HB-34	1 1/8"	1 1/8"	AL-530
1HG-35	1HB-35	1 1/8"	1 1/8"	MM-635
1HG-41		1 1/8"	1 1/8"	AL-535
1HG-44		1 1/8"	1 1/8"	
1HG-55		1 3/8"	1 3/8"	

*Can be used with adaptors to fit all other sizes of masts.

TYPE 1X—SOCKET TOP

No.	Material	Top tapped standard
No. 1-XG	Galvanized	3/4" 16-thread
No. 1-XB	Bronze	3/4" 16-thread



Type 2 Base Insulator; light design for masts up to 18' or higher if guyed or supported by standoff insulators. 3/4" top post but with use of adaptors will fit other size masts. Brown-glazed porcelain with galvanized malleable iron top post and base support cemented into insulator.



Deck Bushing of brown glazed porcelain with galvanized malleable flange which bolts thru rubber gasket to roof or deck.

Bushing No.	I.D.	Total Length	Above Deck	Flange Diameter
5D-24	3/4"	6"	3"	4"
5D-40	1 1/4"	8"	4 1/2"	4 1/2"
5D-56	1 3/4"	8 1/2"	4 1/2"	5 3/8"



Type 6 Base Insulator for tower platform, rooftops or Marine. Lead-thru construction permits antenna connections below roof or deck. Flanges 6" diameter with stud and bolts for 1/2" to 3" deck. In galvanized malleable iron or bronze.

Type 6

Galv. No.	Bronze No.	Dia. Post	Top Post	Fits Antennas Nos.
6PG-24	6PB-24	3/4"	3/4"	318-M
6PG-25	6PB-25	1/2"	1/2"	MM-825
6PG-26	6PB-26	1/2"	1/2"	AL-324
6PG-30	6PB-30	1/2"	1/2"	MM-430, MM-435
6PG-34	6PB-34	1 1/8"	1 1/8"	AL-530
6PG-35	6PB-35	1 1/8"	1 1/8"	MM-635
6PG-41	6PB-41	1 1/8"	1 1/8"	AL-535
6PG-44	6PB-44	1 3/8"	1 3/8"	136-M



Wall Bracket of heavy formed steel for mounting vertical antennas on side walls, parapets, etc. Drilled to fit Premax Type 1 and 2 Base Insulators. Baked black enamel finish. No. WB-1.



Type 10-S Standoff Insulator, heavy-duty type. Chrome-plated bronze base and head-caps, porcelain insulator. Has solid clamp or hinged clamp for use with hinged-base insulator.

Solid Clamp No.	Hinged Clamp No.	Fits Tube O.D.	Height to Center
10S-2832	10SH-2832	7/8" to 1"	about 4 1/2"
10S-3236	10SH-3236	1" to 1 1/8"	about 4 1/2"
10S-3642	10SH-3642	1 1/8" to 1 3/8"	about 4 1/2"



Type 3 Standoff Insulator for supporting verticals or for use in pairs as complete antenna or element mounting. Galvanized iron or bronze with porcelain body, 3" in diameter.

Type 3

Galv. No.	Bronze No.	Fits Tube O.D.
3SG-16	3SB-16	1/2"
3SG-20	3SB-20	3/4"
3SG-24	3SB-24	3/4"
3SG-28	3SB-28	7/8"
3SG-32	3SB-32	1"
3SG-34	3SB-34	1 1/8"
3SG-40	3SB-40	1 1/8"
3SG-42	3SB-42	1 1/8"
3SG-48	3SB-48	1 1/2"
3SG-52	3SB-52	1 5/8"

Type 4 Standoff Insulator is similar to Type 3 excepting it is provided with two ringed clamps instead of the bottom plate. In galvanized iron or bronze in same sizes as the No. 3.



Type 7 Standoff Insulator is a low-priced substantial mounting with wide application. Galvanized malleable frame enclosing white split porcelain bushing. Height 6".

No.	Fits Tube O.D.
7S-20	5/8"
7S-24	3/4"
7S-28	7/8"
7S-32	1"



Type 8-C Insulated Mounting Clamp for horizontal arrays, verticals, etc. Galvanized iron frame with white split porcelain bushing. Width 3 1/2".

Type 8-C

No.	Fits Tube O.D.
8C-20	5/8"
8C-24	3/4"
8C-28	7/8"
8C-32	1"



Type 9C Insulated Mounting Clamp for horizontal elements, verticals, etc. Gray iron galvanized frame with white porcelain split bushing. Height to center 2".

Type 9-C

No.	Fits Tube O.D.
9C-20	5/8"
9C-24	3/4"
9C-28	7/8"
9C-32	1"



Type 10-C Insulated Mounting Clamp. Stamped steel electroplated frame, white porcelain split bushing; light-weight. 2" to center.

Type 10-C

No.	Fits Tube O.D.
10C-20	5/8"
10C-24	3/4"
10C-28	7/8"
10C-32	1"

WARD



ANTENNAS For FM and Television

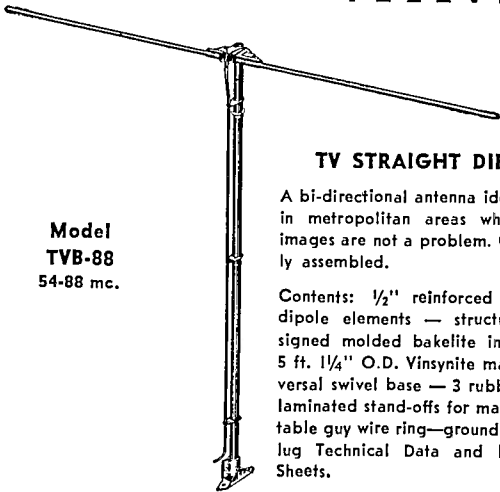
MINUTE MAN SERIES

Can be assembled by 1 Man in 1 Minute!
A magnificent new series of antennas designed and developed in the Ward antenna laboratory.

- Maximum electrical efficiency for all channel coverage.
- Mechanical design that assures permanent and trouble-free installations.

- Vinsynite mast for strength, durability and maximum protection against corrosion.
- Rotatable guy ring for orientation of antenna after guying.
- Nylon insulators on high band antennas.

TELEVISION MODELS



Model TVB-88
54-88 mc.

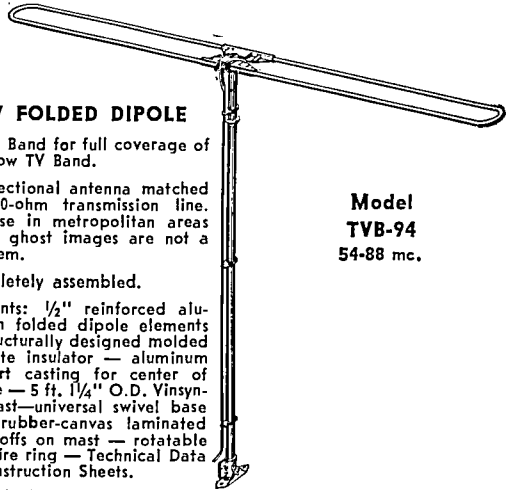
TV STRAIGHT DIPOLE

A bi-directional antenna ideal for use in metropolitan areas where ghost images are not a problem. Completely assembled.

Contents: 1/2" reinforced aluminum dipole elements — structurally designed molded bakelite insulator — 5 ft. 1 1/4" O.D. Vinsynite mast — universal swivel base — 3 rubber-canvas laminated stand-offs for mast — rotatable guy wire ring — grounding solder lug
Technical Data and Instruction Sheets.

Individually packed: six to a master carton.
Approximate individual shipping weight: 4 lbs. 12 oz.

List Price.....\$7.50



Model TVB-94
54-88 mc.

TV FOLDED DIPOLE

Broad Band for full coverage of the Low TV Band.

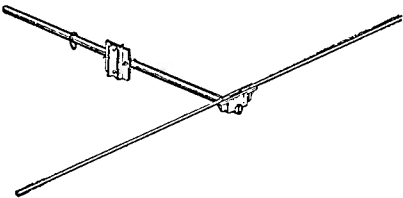
Bi-directional antenna matched to 300-ohm transmission line. For use in metropolitan areas where ghost images are not a problem.

Completely assembled.

Contents: 1/2" reinforced aluminum folded dipole elements — structurally designed molded bakelite insulator — aluminum support casting for center of dipole — 5 ft. 1 1/4" O.D. Vinsynite mast — universal swivel base — 3 rubber-canvas laminated stand-offs on mast — rotatable guy wire ring — Technical Data and Instruction Sheets.

Individually packed: six to a master carton.
Approximate individual shipping weight: 5 lbs. 6 oz.

List Price.....\$8.75



TV REFLECTOR KIT

For use with Straight or Folded Dipoles.

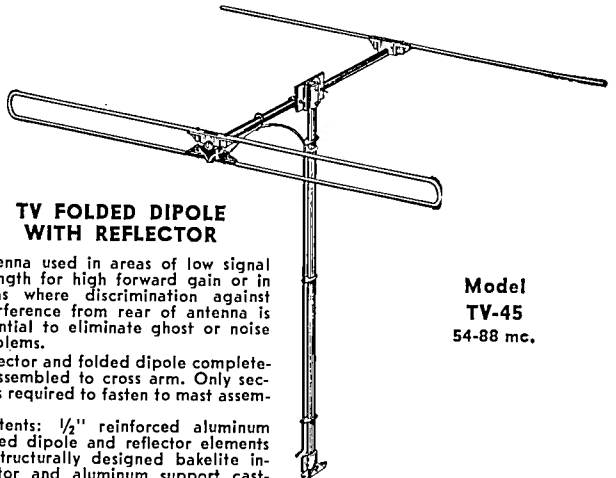
Used to give additional forward gain, to eliminate ghosts and to discriminate against interference from the back side of the antenna.

Contents: 1/2" reinforced aluminum elements — aluminum element support casting for center of dipole — 1 1/4" O.D. Vinsynite cross arm — aluminum bracket for attaching cross arm to mast — rubber-canvas laminated stand-offs — Technical Data and Instruction Sheets.

Individually packed: six to a master carton.
Approximate individual shipping weight: 4 lbs. 2 oz.

List Price.....\$6.95

Model TVRA-92
54-88 mc.



Model TV-45
54-88 mc.

TV FOLDED DIPOLE WITH REFLECTOR

Antenna used in areas of low signal strength for high forward gain or in areas where discrimination against interference from rear of antenna is essential to eliminate ghost or noise problems.

Reflector and folded dipole completely assembled to cross arm. Only seconds required to fasten to mast assembly.

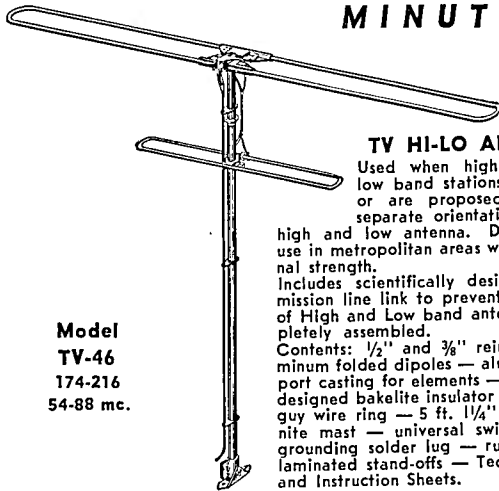
Contents: 1/2" reinforced aluminum folded dipole and reflector elements — structurally designed bakelite insulator and aluminum support castings for elements — aluminum brackets for attaching cross arm to mast — 5 ft. 1 1/4" O.D. Vinsynite metal mast — universal swivel base — rotatable guy wire ring — rubber-canvas laminated stand-offs — grounding solder lug — Technical Data and Instruction Sheets.

Individually packed: six to a master carton.
Approximate individual shipping weight: 8 lbs. 9 oz.

List Price.....\$15.40

WARD Magic Wand Television Antennas

MINUTE MAN SERIES

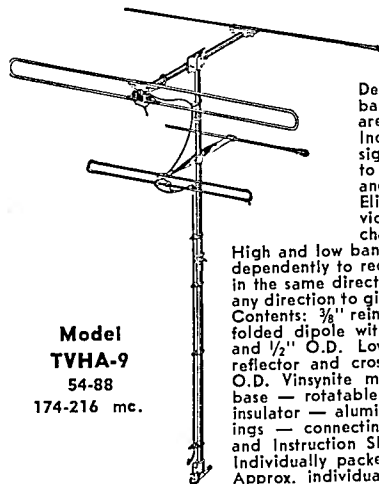


TV HI-LO ANTENNA

Used when high band and low band stations are on air or are proposed. Provides separate orientation on both high and low antenna. Designed for use in metropolitan areas with high signal strength. Includes scientifically designed transmission line link to prevent interaction of High and Low band antennas. Completely assembled. Contents: $\frac{1}{2}$ " and $\frac{3}{8}$ " reinforced aluminum folded dipoles — aluminum support casting for elements — structurally designed bakelite insulator — rotatable guy wire ring — 5 ft. $1\frac{1}{4}$ " O.D. Vinsynite mast — universal swivel base — grounding solder lug — rubber-canvas laminated stand-offs — Technical Data and Instruction Sheets.

Model
TV-46
174-216
54-88 mc.

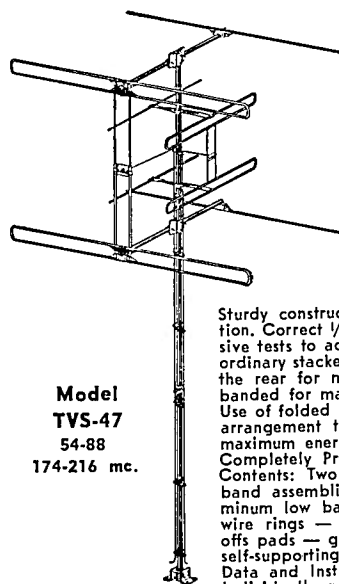
Individually packed: six to a master carton.
Approximate individual shipping weight: 5 lbs. 14 oz.
List Price.....\$11.00



ALL CHANNEL ANTENNA

Designed for use when high band and low band stations are on air or are proposed. Includes scientifically designed transmission line link to prevent interaction of high and low antennas. Eliminates necessity for individual antennas cut for each channel. High and low band bays can be oriented independently to receive stations which are not in the same direction. Each bay adjustable in any direction to give maximum desired signal. Contents: $\frac{3}{8}$ " reinforced aluminum high band folded dipole with reflector and cross arms and $\frac{1}{2}$ " O.D. Low band folded dipole with reflector and cross arms — two 5 ft. $1\frac{1}{4}$ " O.D. Vinsynite mast — universal mounting base — rotatable guy wire ring — bakelite insulator — aluminum element support castings — connecting links — Technical Data and Instruction Sheets. Individually packed: six to a master carton. Approx. individual shipping weight: 12 lbs. List Price.....\$21.00

Model
TVHA-9
54-88
174-216 mc.

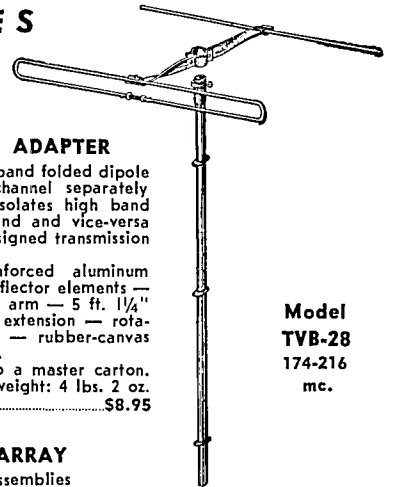


ALL CHANNEL STACKED ARRAY

Combination Low Band stacked folded dipoles and reflectors and High Band stacked folded dipoles and reflectors for complete all channel coverage. Specifically designed for areas on the fringe of both high and low band stations. Half wave bay spacing with phasing link scientifically determined for maximum gain on entire band. Ingenious design allows High Band section to be oriented independently of Low Band section. Sturdy construction insures permanent installation. Correct $\frac{1}{2}$ wave spacing proven by extensive tests to achieve greater forward gain than ordinary stacked arrays. Eliminates signals from the rear for maximum ghost rejection. Broad banded for maximum pick up on all channels. Use of folded dipoles in scientifically designed arrangement to provide broad response and maximum energy transfer. Completely Pre-Assembled. Contents: Two $\frac{3}{8}$ " reinforced aluminum high band assemblies and two $\frac{1}{2}$ " reinforced aluminum low band assemblies — rotatable guy wire rings — rubber-canvas laminated stand-offs pads — grounding solder lug — all angle self-supporting mounting base — Technical Data and Instruction Sheets. Individually packed: six to a master carton. Approximate individual shipping weight: 21 lbs. 12 oz. List Price.....\$49.50

Model
TVS-47
54-88
174-216 mc.

Approximate individual shipping weight: 21 lbs. 12 oz.
List Price.....\$49.50



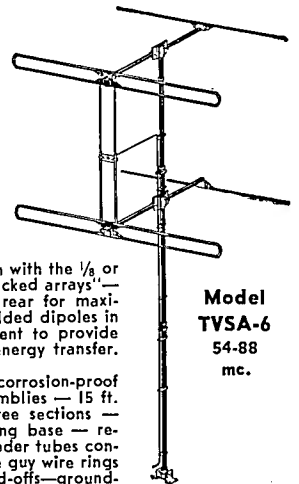
HIGH BAND ADAPTER

Used to convert low band folded dipole to dual band all channel separately orienting antenna. Isolates high band section from low band and vice-versa with scientifically designed transmission line link. Contents: $\frac{3}{8}$ " reinforced aluminum folded dipole and reflector elements — sturdy reflector cross arm — 5 ft. $1\frac{1}{4}$ " O.D. Vinsynite mast extension — rotatable guy wire ring — rubber-canvas laminated stand-offs. Individ. packed: six to a master carton. App. ind. shipping weight: 4 lbs. 2 oz. List Price.....\$8.95

Model
TVB-28
174-216
mc.

TV STACKED ARRAY

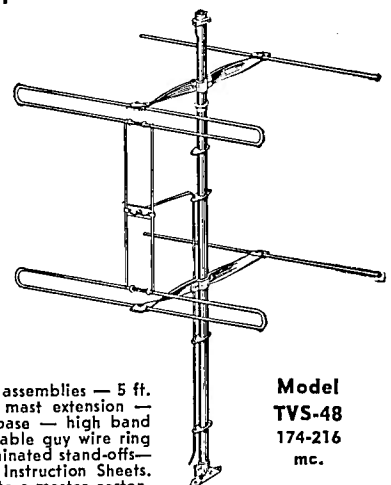
Two Low Band assemblies stacked one above the other to produce the extra forward gain needed for good TV reception in remote installations and poor signal locations. Half wave bay spacing with phasing link scientifically determined for maximum gain on entire band. Broad Banded to give full coverage on channels 2 through 6. Sturdy design and extra-strong construction assures permanently secure mounting in any weather — correct $\frac{1}{2}$ wave spacing proven by extensive tests to achieve greater forward gain, much more than with the $\frac{1}{8}$ or $\frac{1}{4}$ wave spacing of ordinary "stacked arrays" — elimination of signals from the rear for maximum ghost rejection — use of folded dipoles in scientifically designed arrangement to provide broad response and maximum energy transfer. Completely Pre-Assembled. Contents: Two $\frac{1}{2}$ " reinforced corrosion-proof folded dipole and reflector assemblies — 15 ft. $1\frac{1}{4}$ " O.D. Vinsynite mast in three sections — all angle self-supporting mounting base — reinforced aluminum telescopic feeder tubes connecting the two bays — rotatable guy wire rings — rubber-canvas laminated stand-offs — grounding solder lug — Technical Data and Instruction Sheets. Individually packed: six to a master carton. Approximate individual shipping weight: 20 lbs. 4 oz. List Price.....\$42.50



Model
TVSA-6
54-88
mc.

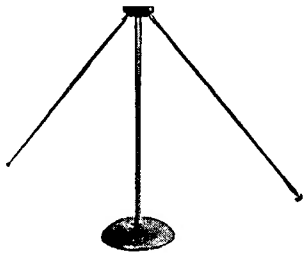
TV HIGH BAND STACKED ARRAY

High Band Stacked folded dipole. Can be used as a stacked high band antenna by itself or as adapter to convert low band stacked array to all channel stacked array. Half wave bay spacing with phasing link scientifically determined for maximum gain on entire band. Superb antenna for use in fringe areas having high band stations. Contents: Two $\frac{3}{8}$ " reinforced aluminum high band folded dipole and reflector assemblies — 5 ft. $1\frac{1}{4}$ " O.D. Vinsynite mast extension — universal mounting base — high band phasing link — rotatable guy wire ring — rubber-canvas laminated stand-offs — Technical Data and Instruction Sheets. Individ. packed: six to a master carton. Approximate individual shipping weight: 5 lbs. 2 oz. List Price.....\$13.50



Model
TVS-48
174-216
mc.

WARD Magic Wand INDOOR TV ANTENNAS

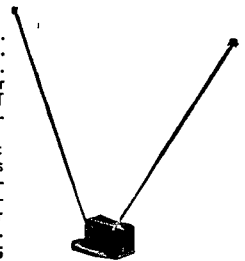


MODEL TVI-43

The TVI-43 is the finest indoor antenna modern skill and technology can produce — far superior by any standard than anything else on the market. Brings in all channels precisely and brilliantly. Beautifully designed in satin beige brown finish — blends perfectly with the most exacting interior. Contents: 2½ ft. metal mast — heavy base. Two 45" telescopic tuneable elements of chrome-plated brass tubing — 12 ft. colinear transmission line, Instruction sheet. Individually packed: six to a master carton. Approx. individual shipping weight: 9 lbs. List Price.....\$17.95

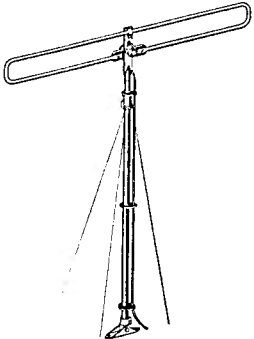
MODEL TVI-49

Excellent reception on all channels. Top quality electric insulation. Orients easily in all directions. Heavy base with large surface for mechanical stability. WILL NOT TIP OVER. Telescopic dipole elements. Contents: Ebony black ceramic base — Two 43" tuneable elements of chrome-plated brass tubing — Stainless steel rod allows no corrosion. Ind. packed: six to a master carton. App. in. shipping wt.: 5 lbs. List Price.....\$6.95



WARD Magic Wand FM ANTENNAS

FM MODELS

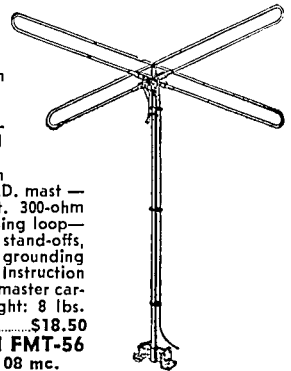


FM FOLDED DIPOLE

Bi-directional. Matched impedance to 300-ohm line for broad tuning, high signal gain over entire 88-106 mc. band. Adjustable mounting design for greater ease of orienting. Pre-assembly into component parts for quick installation. Contents: Dipole element of ¾" reinforced aluminum — molded bakelite insulator — 5 ft. 1" O.D. mast and guy wire ring — universal mounting base — conduit clamp—grounding solder lug— Technical Data and Instruction Sheets. Ind. packed: twelve to a master carton. Approx. indiv. shipping weight: 5 lbs. List Price.....\$10.95 Model FM-55 88-108 mc.

FM FOLDED TURNSTILE

Exceptional high signal gain from All DIRECTIONS. Does not require orienting. Packed complete, partially Pre-Assembled components for quick and simple installation. Contents: ¾" reinforced aluminum folded dipole elements — 5 ft. 1" O.D. mast — molded bakelite insulators — 60 ft. 300-ohm colinear line and ¼ wave length phasing loop— rubber stand-off pads — 6 plastic stand-offs, guy wire ring and conduit clamp — grounding solder lug— Technical Data and Instruction Sheets. Individually packed: six to a master carton. Approx. indiv. shipping weight: 8 lbs. List Price.....\$18.50



Model FMT-56
88-108 mc.

FM REFLECTOR KIT — Model FMR-63 88-108 mc.

Combines quickly and easily to make high gain directional array with Model FM-55. Increases gain and eliminates reflections. Most effective when transmitting stations are in same general direction. Maximum energy transfer of signal from antenna to set as result of accurately determined spacing and correct reflector length. — Contents: ¾" reinforced aluminum reflector element—weather-proofed metal cross arm and brackets plus mounting hardware—Technical Data and Instruction Sheets. Ind. packed: six to a master carton. Approx. indiv. shipping weight: 3 lbs. List Price.....\$5.25

TELEVISION AND FM ACCESSORIES



MAST EXTENSION

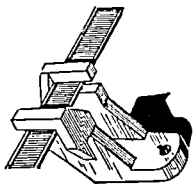
Model MEA-60 — For use with Television Models

Five-Foot Vinsynite mast extension to increase height of vertical mast and raise antenna into area of greater signal strength. Should be used also to comply with local codes in keeping antenna above required height. — Contents: 5 ft. 1¼" O.D. Vinsynite mast—weather-proofed inside and out—guy wire ring— rubber-canvassed laminated stand-offs. — Individually packed: six to a master carton. — Approx. shipping weight: 16 lbs. 4 oz. List Price.....\$3.25

MODEL ME-60 MAST EXTENSION FOR USE WITH FM MODELS

5 ft. 1" O.D. Mast Extension weather-proofed inside and out — rubber stand-off pads — guy wire ring — Packed: six to a master carton — Approximate shipping weight: 12½ lbs. List Price.....\$2.60

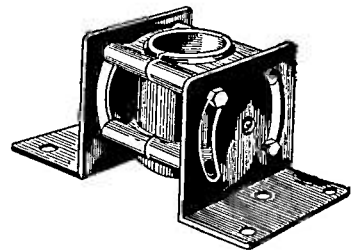
PLASTIC STAND-OFFS
Model SO-144



Unique design holds transmission line completely captive yet cannot pinch line to change impedance. Made of polystyrene to insure minimum loss. Stand-offs are sold in quantities of 144 and shipped in attractive counter display container to increase counter sales. Individ. packed: 144 to a carton. Approx. shipping weight: 2 lbs. List Price.....\$14.40

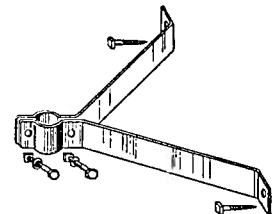
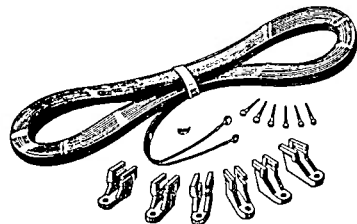
SELF-SUPPORTING BASE
Model C-14

New, heavy, weather-proofed metal base for sturdy installation on any angle. The self-supporting base eliminates the need for guy wire on most installations. Accommodates 1¼" O.D. Mast. Ind. packed: six to a master carton. App. ind. shipping wt.: 1 lb. 7 oz. List Price.....\$2.45 Model C-11: For use with 1" O.D. Mast. List Price.....\$0.00 Ind. boxed. — App. ind. shipping weight: 1 lb. 7 oz.



LEAD AND INSULATOR KIT

Model C-15 Contains 60 ft. 300-ohm line with terminals — 6 plastic stand-off insulators — 6 wood screws. Individually packed: six to a master carton. Approximate individual shipping weight: 14 oz. List Price.....\$3.00

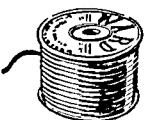


MAST STAND-OFF BRACKET KIT

Two pairs of heavy, cadmium-plated steel stand-off brackets, for 1¼" O.D., to extend mast from side of house or parapet for clearance of 7" or larger size for clearance of 14". Complete with all necessary mounting hardware. Model C-16 — For 7" clearance.....List Price, \$3.25 Individually packed: 6 kits to a master carton. Model C-17 — For 14" clearance.....List Price \$4.25 Individually packed: 6 kits to a master carton.

COLINEAR TRANSMISSION LINE

Parallel line of 300-ohm impedance insulated with polyethylene for highest quality FM and TV reception. For easy installation, line comes on handy reel. List Price, \$39.00 1,000 ft..... Model WR-1000 Approximate individual shipping weight: 18 lbs. Model WR-500 500 ft..... List Price, \$19.50 Approximate individual shipping weight: 10 lbs.





by WARD

BUILT FOR RIGOROUS SERVICE

UNIVERSAL SWIVEL MOUNTS

Antennas built for the hardest mobile use. Separate components may be combined to meet any requirements. These rear-mounting Transmitting Antennas are designed for the 25-45 mc. services. Base mounts in such a way as to allow the whip rod to be held vertically regardless of contour of vehicle body.

← SPP-3B

SINGLE ROD

Special Alloy Whip Rod of maximum resilience and durability. 84" Single rod for use in the range of 30 to 45 mc. Non-Corroding, stainless steel tapered for proper stress distribution. Base Adapter threaded 3/8-24 to permit mounting on SPP-3 Base or SPP-3A Spring.

Individually packed. Approx. weight: 2 lbs.
List Price.....\$11.50

SPP-12 →

ADJUSTABLE 2-SECTION ROD

Adjustable Rod. Telescopes from 85" to 103" and is equipped with a locking device that permits removal of the whip rod and replacement at the exact previous length. Heavy wall, hard drawn brass tubing — threaded 3/8-24 to fit either SPP-3 Base or SPP-3A Spring. See SPP-3B for Rod description.

Ind. packed. Approx. weight: 2 lbs. 10 oz.
List Price.....\$22.50

SPP-3

SWIVEL BASE

Swivel base for mounting at any desired point. Half balls of cast aluminum tapped 3/8-24 to accept whip rods and shock springs. Insulator of black bakelite — rubber gaskets — steel back-up plate. All screws are Allen Head type with wrenches supplied.

Individually packed. Approx. weight: 3 lbs. 4 oz.
List Price.....\$13.25



SPP-3A

SHOCK MOUNTING SPRING

This sturdy spring is used to lessen damage to the whip rod. A flexible lead through the center of the spring maintains constant electrical impedance through the spring assembly. 3/8-24 stud on one end — 1/2-24 tapped hole on opposite end — approximately 6" in height — made of oil tempered wire.

Individually packed. Approx. weight: 2 lbs. 12 oz.
List Price.....\$7.90



FENDER MOUNTS

Disappearing type antenna — For Transmitting and Receiving — Designed for rigorous service of Emergency Communications. Non-telescopic construction exactly duplicates standard automotive models in appearance — gives perfect disguise for detective or patrol service. Antenna mounts in fender or cowl — removable whip for quick service or installation.



55" permanent whip eliminates contact troubles . . . Lead take-off accepts standard AN connector. For low or high band services. Used as short 1/4 wave vertical for 25-44 mc. service . . . "J" for 152-162 mc. service. The universal split ball design insures a perfect fit as well as that neat built-in appearance and easy installation.
Lead not included.

Model SPP-71

Individually packed.
Approximate weight: 1 lb. 12 oz.
List Price.....\$22.50



MOTORCYCLE MOUNTS

These Antennas are designed for use on motorcycles and are built to withstand the rugged service and high vibration of vehicle. Rod is electrically short but can be used on all frequencies. 40" rod of same material as SPP-3B — 1/4-20 mounting stud in insulator for mounting to motorcycle. Flexible base of rubber to allow movement when rod is bent — Model SPP-6 with safety ring tip — Model SPP-6A with stainless steel ball tip — no lead supplied. Individually packed. Approx. weight: 1 lb.

Model SPP-6 Ring Tip (Illustrated)..... List, \$9.25
Model SPP-6A Ball Tip (Not Shown)..... List, \$9.25

ROOF TOP MOUNT

Developed for roof top mountings in 30 to 45 Megacycle range. Advantages of this type of antenna is that directional effects caused by car body shielding of antenna are avoided. Base is designed to be used with the SPP-3B rod which is sold separately. This unit consists of all components of Universal Swivel Mounts except that half-balls are replaced by SPP-3A Spring fastened permanently to insulator. No lead supplied.

Individually packed. Approximate weight: 3 lbs.
Model SPP-26 Base..... List, \$16.50

ROOF TOP ANTENNA →

This model is designed for taxicabs, police services, and others using the 140 to 165 Megacycles frequencies. Installed entirely from the outside of vehicle — 12 ft. length of RG-58/U coaxial cable attached permanently to antenna. Whip rod is replaceable.

Individually packed. Approximate weight: 1 lb.
Model SPP-18..... List, \$6.60



WARD AERIALS

World's Finest FOR CAR AND HOME

Offer
You

- ✓ SIMPLIFIED ONE-MAN INSTALLATION.
- ✓ UNIVERSAL DESIGNS TO FIT EVERY CAR.
- ✓ RUGGED, LASTING CONSTRUCTION with —
 - Heavy wall brass tubing
 - Weather-resistant triple chrome

- ✓ GREATEST SIGNAL PICKUP with —
 - High "Q" low-loss lead cables
 - Positive coaxial connections
 - 100% shielding
- ✓ PATENTED FLUID TYPE ANTI-RATTLE.
- ✓ HEAVY CARTONS READY FOR RESHIPMENT.

SIDE COWL MOUNTS

Two stanchions for sturdy installation. Smartly designed insulators with chrome caps. Conversion kit for torpedo bodies included.

LONG RANGER

Four-section, 100-inch, EZ-on installation. A favorite in low Signal areas where its extra length provides fine reception.

Individually packed: 12 to a master carton.
Approximate individual shipping weight: 1 lb. 11 oz.
Model SC-8.....List Price, \$6.95

AIR KING

Three-section, 66-inch, EZ-on installation.
Individually packed: 12 to a master carton.
Approximate individual shipping weight: 1 lb. 4 oz.
Model SC-6.....List Price, \$4.95



SIDE COWL OR FENDER FLEX-ANGLE

Three-section, 68-inch, EZ-on installation.

Individually packed: 12 to a master carton.
Approx. individual shipping weight: 1 lb. 8 oz.
Model CF-6.....List Price, \$5.45

Tops in popularity because of trim styling and a flexible adjustment so rod can be locked in a vertical position, regardless of body contour. Ideal design for new body styles.



TOP COWL OR FENDER "8-BALL"

Featuring the
SPLIT BALL DESIGN



Three-section, 56-inch, collapses to 22 inches.
Individually packed: 12 to a master carton.
Approximate individual shipping weight: 1 lb.
Model TCF-3.....List Price, \$5.35

Smart looking "8-Ball" design developed and engineered by WARD is the answer to every installer's dream. One man installs in five minutes! Secure installation! Perfect fit on every car!



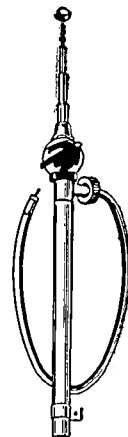
DISAPPEARING COWL OR FENDER IMPERIAL

Four-section, 100-inch, 8-9/16" exposed when collapsed.
Individ. packed: 12 to a master carton.
App. ind. shipping weight: 1 lb. 10 oz.
Model DCF-4.....List Price, \$10.95

A disappearing antenna — 100% shielded from engine noises and completely water-sealed. Unique split-ball design plus popular disappearing feature gives that smart built-in appearance. Universal bracket for sturdy mounting. Ward 36" coaxial lead cable.

PHANTOM

Three-section, 56-inch, 3 1/2" exposed when collapsed.
Ward 36" coaxial lead cable.
Individ. packed: 12 to a master carton.
Approx. ind. shipping weight: 1 lb.
Model DCF-3.....List Price \$6.95



EACH MODEL COMPLETE WITH A WARD COAXIAL LEAD CABLE



Made of the finest insulating materials — Polyethylene, wire shield braid, oil and abrasion-proof vinylite.

WARD's exclusive lead connector fitting provides an easy coaxial connection, 100% shielded. Bayonet adapter for pin plug included so lead will fit every car radio.



Model C-8 (12 in.) List, \$0.75
Model C-9 (18 in.) List, \$1.00
Provides additional lead length required for fender installation.

Covered by one or more of the following Patent Numbers: 104968, 119160, 2152316, 2251889, 2252671, 2269947, 2366634.

SPOT LITE WARD AUTO AERIALS

WITH THIS NEW ATTRACTIVE
3-COLOR DISPLAY —
FREE!

Featuring the "8-Ball" TCF-3 aerial and beautifully designed in 3 colors — yellow, orange and black. This display will catch the eye of every customer.

Display is FREE!

Just mount an "8-Ball" TCF-3 and set it up on the counter and watch your aerial sales grow.



Model CD-1

A WARD Development to fit every antenna need!

WARD ANTENNAS FOR THE HOME

Are vertical, the same as broadcasting antennas, for greatest signal pick-up, finest reception

HOUSE MAST

4-SECTION, 12-FOOT, COLLAPSIBLE TO 47 INCHES.

FEATURES . . . Easy installation, Universal mounting brackets, Heavy weatherproof cadmium plating, Built-in lightning arrester.

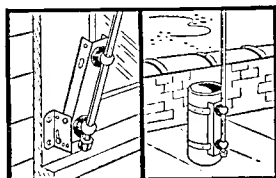
Model HM-4..... **List, \$7.45**

Ind. packed — 12 to the master carton.
Approx. ind. shipping wt. 4 lbs.

Complete Installation
Fittings Included

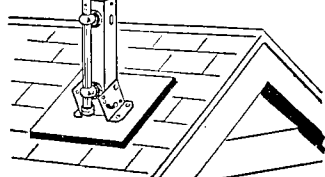


60' Lead Wire — Ground Clamp — 4
Wood Screws — 2 Nail-It-Knobs — 1
Porcelain Tube — 1 Lead-in Strap — 2
Soil Pipe Straps.



**WINDOW
FRAME**

**SOIL
PIPE**



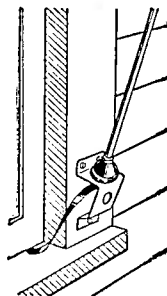
WINDOW MAST

3-SECTION, 8-FOOT, COLLAPSIBLE TO 42 INCHES.

FEATURES . . . Simple 3-point, 3-minute installation for apartments, homes, office buildings, Two-way mounting bracket, 12-inch lead-in strap, and heavy, weatherproof cadmium plating.

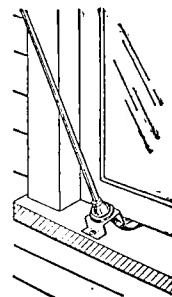
Model WM-3..... **List, \$3.25**

Individually packed — 12 to a master carton.
Approx. ind. shipping weight — 1 lb. 2 oz.



**WINDOW
FRAME
INSTALLATION**

**WINDOW
SILL
INSTALLATION**



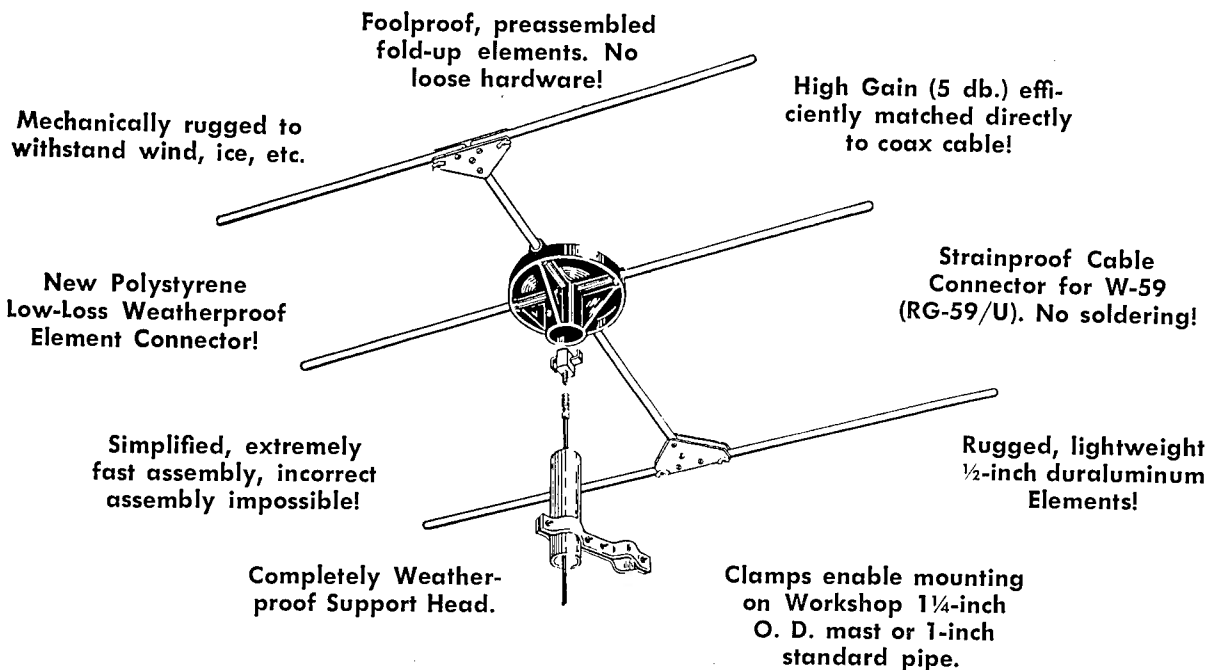
WORKSHOP TELEVISION ANTENNAS and ACCESSORY EQUIPMENT

The Workshop line for '49 has been redesigned to produce even better pictures at lower cost. Three-element arrays, designed for specific channels and combined on a single mast for particular areas, have been pioneered by the Workshop with outstanding success—even to the point of nationwide imitation during 1948.

SERIES A - BASIC THREE ELEMENT ANTENNA

This is a high-gain (5 db.) directional antenna having sufficient broad band response to cover the 6 mc. channel for

which it is engineered. It is the basic unit of all Workshop multi-channel systems. Note the following desirable features—

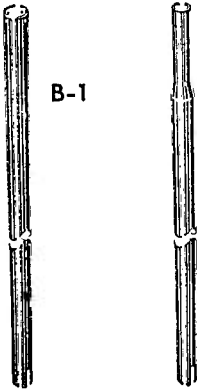


Basic 3-Element High Gain Antenna with Mounting Clamps for 1 1/4" O.D. or 1" Standard Pipe Mast

Low Band Models—List Price \$21.00 Shipping Weight 6 lbs.		High Band Models—List Price \$17.00 Shipping Weight 5 lbs.	
Model	For Channel	Model	For Channel
A-2	2*, 3	A-7	7*, 8
A-3	2, 3*, 4	A-8	7, 8*, 9
A-4	3, 4*, 5	A-9	8, 9*, 10
A-5	5*, 6	A-10	9, 10*, 11
A-6	5, 6*	A-11	10, 11*, 12
		A-12	11, 12*, 13
		A-13	12, 13*

*Optimum Channel

WORKSHOP SERIES B—MAST SECTIONS



MODEL B-1 Top Mast Section

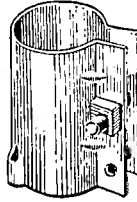
A sturdy 1/4 inch O.D. mast of heavy gauge seamless steel tubing, four feet long. Gray enameled. Holes provided at top for mounting three-element basic antenna. Slot at bottom aids self-tapping screw to hold mast extension described below. Net weight each, 2 lbs.

List Price \$2.50

MODEL B-2 Mast Extension

A swaged 1/4-inch O. D. seamless steel mast tube that will fit into B-1 mast listed above or bottom of another B-2 to extend overall height by approximately four feet. Gray enameled. Net weight each 2 lbs.

List Price \$2.75

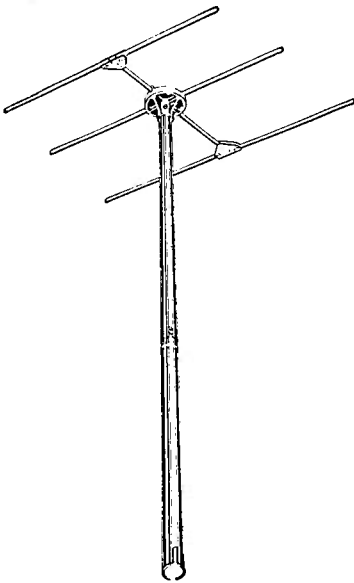


MODEL G-3 Guy Wire Fixture

This fixture can be placed on 1/4-inch O. D. or 1-inch standard pipe mast and tightly clamped in place so that three guy wires can be attached to aid in supporting mast equipment.

List Price \$0.50

SERIES AB—BASIC ANTENNA WITH MAST

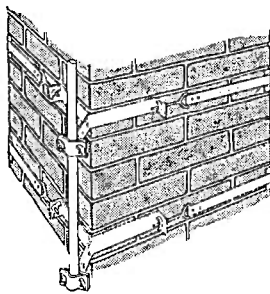


This series consists of a basic high-gain, Series A, three-element antenna described on page S-55 plus a 7 1/2-foot mast (B-1 and B-2 mast sections). Appropriate mounts can be selected from those described under Series C. Clamps for 1/4-inch O. D. mast or 1-inch standard pipe are also furnished. If and when new TV stations start operation in your area, this combina-

tion may be readily converted to a multi-channel system by the simple addition of Series A antennas and Model B-2 mast extensions. Series AB antenna with mast should be selected from the list below for the channel on which reception is desired. This series is furnished less transmission line and mounts.

Basic 3-Element High Gain Antenna with 7 1/2-foot Mast			
Low Band Models List Price \$26.25 Shipping Weight 12 lbs.		High Band Models List Price \$22.25 Shipping Weight 10 lbs.	
Model	Channel	Model	Channel
AB-2	2*, 3	AB-7	7*, 8
AB-3	2, 3*, 4	AB-8	7, 8*, 9
AB-4	3, 4*, 5	AB-9	8, 9*, 10
AB-5	5*, 6	AB-10	9, 10*, 11
AB-6	5, 6*	AB-11	10, 11*, 12
		AB-12	11, 12*, 13
		AB-13	12, 13*

SERIES C—MOUNTING EQUIPMENT



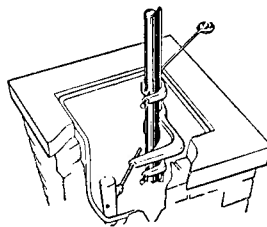
MODEL C-1, Conventional Chimney Mount

An excellent support for antennas with mast equipment that can be mounted on chimneys, posts, and other irregular objects. Made of heavy gauge steel and heavily plated to resist rust. Separation between clamps is variable. Masts from 1 to 2 inches O. D. can be used. Preassembled parts cut installation time. Shipping weight 5 lbs.

List Price \$6.50

Extra 10 feet of strapping, Model ST-1.

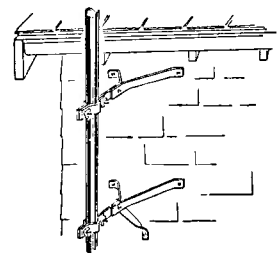
List Price \$0.75



MODEL C-2, Revolutionary New "Minute Mount" for Internal Chimney Mounting

This ingenious "Minute Mount" can be installed a short way *inside* a chimney. Completely adjustable for all chimney flues—tile lined or brick. Will not interfere with operation of chimney. Made of heavy cast alloy capable of supporting 150 lbs. with a generous safety factor. Mast 3/4-1 1/2 inches O. D. and antennas can be oriented while mount is in position. Built-in strain guide prevents chafing of cable against chimney. Shipping weight 2 lbs.

List Price \$8.95

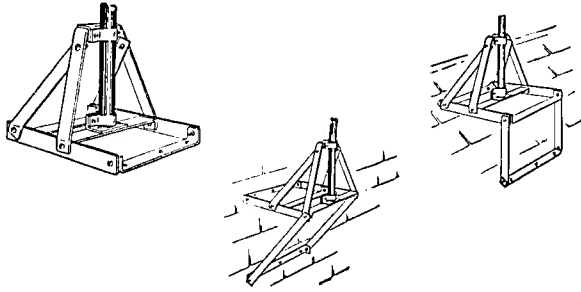


MODEL C-3, Wall Brackets

These rugged braced steel brackets, heavily plated, will furnish a 12 1/2-inch clearance for mast equipment that must be supported adjacent to siding or wall. Will hold masts from 1 to 2 inches in diameter. Furnished with wood screws. Packed 2 to a carton. Shipping weight 3 lbs.

List Price \$5.50

WORKSHOP SERIES C — MOUNTING EQUIPMENT (Con.)



MODEL C-4, Universal Base Mount

For installations requiring a truly sturdy braced mount none can compare with the stability of this universal mount. Made of heavy steel protectively plated to resist rust. This versatile mount has an 11 x 12-inch base. The mast is clamped at two places 9½ inches apart and can range from 1 to 1½ inch in diameter. Its durable and ingenious mounting features will allow mounting relatively heavy antennas and masts on flat, peaked, or inclined roofs, even walls with a 10-inch clearance. Complete with hardware and instructions. Individually packaged. Shipping weight 6½ lbs.

List Price \$11.00

SERIES 2A — SUPER HIGH-GAIN SIX-ELEMENT ARRAY

This six-element array consists of two basic three-element antennas spaced a ½-wave apart and connected by a pre-assembled cable harness as an efficient "broadside array." The forward gain is 7.8 db. compared to the conventional ½-wave dipole and will produce a signal approximately six times as strong in power. The array is essentially single channel with an adjacent channel gain of 5 db. The high front-to-back ratio of 18 db. signifies that the possible response of an interfering co-channel signal arriving from behind the array would be 2% of that picked up from the front.

The sharp directional pattern combined with the advantages of shielded coaxial transmission line, means that the signal-to-noise ratio is considerably greater, and "snow effect" less, than that of other so-called fringe area antennas. In addition, "ghosting" is discouraged, even in city areas where multi-path reflections are numerous.

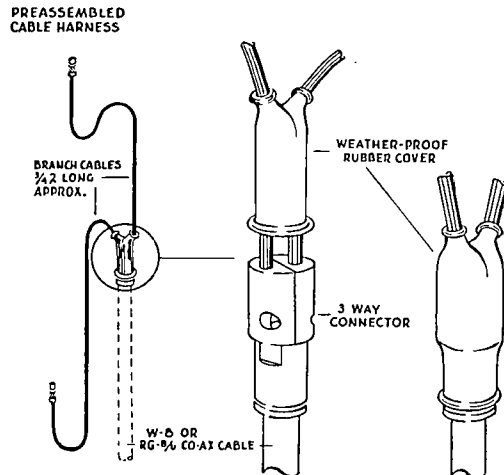
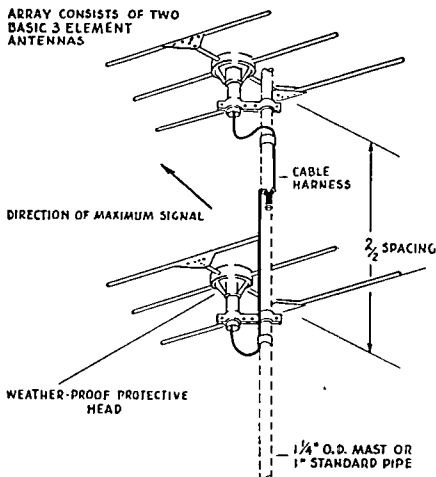
W-8, 52-ohm coaxial cable should be used as transmission line with this array. If a direct connection between the

cable and receiver is not practicable, impedancewise, a W-100 adaptor together with a T-72 matching transformer and fittings may be necessary.

No mast equipment is supplied with this antenna yet mounting is extremely simple, since the clamp brackets furnished fit any ¼-inch O. D. mast or 1-inch standard pipe. This feature along with "foolproof" assembly of the 2A antennas make installation very simple.

Preassembled Cable Harness Only

The installer can readily convert his present Series A, three-element antenna to a Series 2A, super high-gain, six-element array by adding another corresponding Series A antenna plus a cable harness. The performance of a high band (Channels 7 through 13) six-element Series 2A array can be further enhanced by stacking another Series 2A plus one more cable harness to make a very super high-gain twelve-element array. Details of these arrays are furnished with every Series 2A antenna.



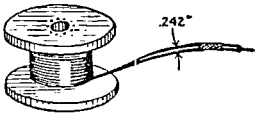
Super High Gain 6-Element Array

Low Band Models List Price \$52.00 Shipping Weight 11 lbs.		High Band Models List Price \$43.50 Shipping Weight 8 lbs.	
Model	Channel	Model	Channel
2A-2	2	2A-7	7
2A-3	3	2A-8	8
2A-4	4	2A-9	9
2A-5	5	2A-10	10
2A-6	6	2A-11	11
		2A-12	12
		2A-13	13

Cable Harness Only—For Making 6- and 12-Element Arrays

Low Band Models \$10.00		High Band Models \$9.50	
Model	Channel	Model	Channel
CH-2	2	CH-7	7
CH-3	3	CH-8	8
CH-4	4	CH-9	9
CH-5	5	CH-10	10
CH-6	6	CH-11	11
		CH-12	12
		CH-13	13

COAXIAL CABLE TRANSMISSION LINE

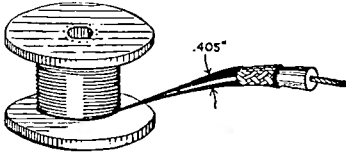


W-59 Standard 72 Ohm Coaxial Cable

Electrical and physical characteristics are the same as RG-59/U. Recommended as the ideal cable for installations not requiring more than 75 feet, directly matches Series A basic three-

element antennas. Neutral colored (weather-proof) jacket with convenient marks indicating 5-foot intervals. Supplied in 500-foot reels, weighing 22 lbs.

List Price \$0.10/ft.

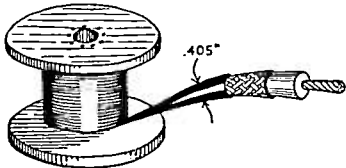


W-11 Very Low Loss 72 Ohm Coaxial Cable

Recommended for Series A three-element antennas when transmission line in excess of 75 feet is needed. Electrical

and physical characteristics same as RG-11/U. Weatherproof. Supplied in 500-foot reels. Shipping weight 55 lbs.

List Price \$0.30/ft.



W-8 Very Low Loss 52 Ohm Coaxial Cable

Electrical and physical characteristics same as RG-8/U. Recommended for transmission line with Series 2A six-

element arrays. Weatherproof. Supplied in 500-foot reels. Shipping weight 60 lbs.

List Price \$0.33/ft.

SOLDERLESS CABLE FITTINGS

Silver Plated Solderless Cable Connector (Male)

Model
W-50



Used with W-59 (RG-59/U) coaxial cable. Specially slotted to withstand considerable strain. Mates with W-60 receptacle (on R-4A switch) and W-80 junction listed below. Individually packaged and plainly marked.

List Price \$0.60

Silver Plated Cable or Panel Junction (Female)

Model
W-80

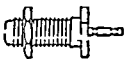


Mates at either end with W-50 male connector. A complete splice requires one W-80 junction and two W-50 connectors which must be ordered separately. Each W-80 individually packaged and plainly marked.

List Price \$1.00

Silver Plated Chassis Receptacle (Female)

Model
W-60



Mates with W-50 cable connector. For chassis or panel mounting. Threaded stem $\frac{3}{8}$ inch long. Soldering terminal protrudes from rear. Individually packaged and plainly marked.

List Price \$0.80

Cable Adaptor

Model
W-100

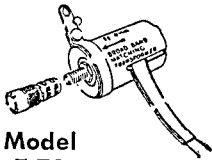


Required when changing from larger size W-11 (RG-11/U) or W-8 (RG-8/U) to smaller W-59 (RG-59/U) coaxial cables. No soldering necessary. W-50 cable connector furnished. Individually packaged and plainly marked.

List Price \$2.50

ACCESSORIES

Matching Transformer



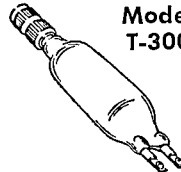
Model
T-72

Matches 72 ohm coaxial cable such as Workshop W-59 (RG-59/U) to 300 ohm receivers. Voltage step up of 2 : 1, with a flat response over the TV channels from 52-216 mos. A W-50 solderless cable connector is furnished. Size 2 inches long, 1-inch diameter. Strap provided for grounding and

mounting container on receiver chassis. Negligible mismatch when used with W-8 52-ohm coaxial cable and W-100 adaptor. Individually packaged.

List Price \$4.00

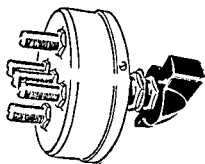
Model T-300 Exterior Matching Transformer



Completely weatherproof device for converting 72 ohm antennas for use with inexpensive 300 ohm Twin Lead transmission line at reasonable efficiency. Can also benefit of 72 ohm coaxial cable. Individually used with 300 ohm antennas to realize fully packed.

List Price \$3.50

New Coaxial Switch (SP4T)



Model
R-4A

This virtually lossless, constant impedance switch will connect any one of four single-channel TV antennas to a receiver. By simply using additional switches it can also be used for demonstrating any number of TV receivers in a display room, or for low-level audio applications.

Receptacle fittings mate with W-50 solderless connectors for W-59 cable and must be ordered separately. Decals are supplied for panel marking of TV channels. Only one $\frac{7}{16}$ -inch hole need be drilled for panel mounting. Size— $2\frac{3}{8}$ inches front to back; 2-inch diameter. Individually boxed.

List Price \$12.00

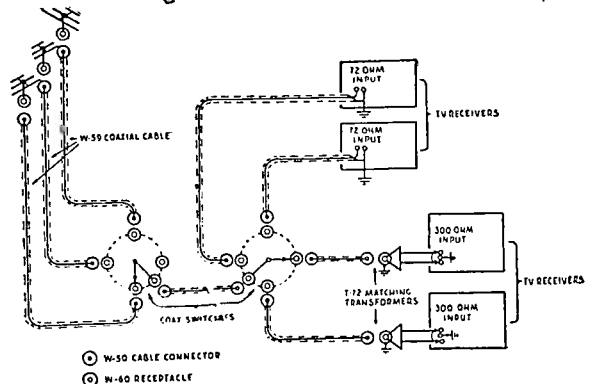


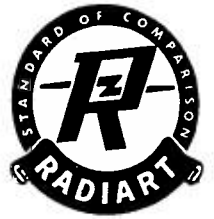
Diagram of a typical display system employing the R-4A coaxial switch and T-72 matching transformer.

THE WORKSHOP ASSOCIATES, INC.

Specialists in High Frequency Antennas

The "TOP" Name In Automobile
Aerials Now Brings You The
"TOPS" In
TV and FM ANTENNAS

Radiart "Simpli-Flex"

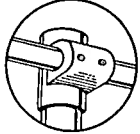


TELEVISION and FM ANTENNAS

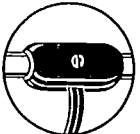
True to Radiart tradition . . . these new Television and FM antennas are the finest available! They are laboratory engineered and designed to deliver peak performance, always! Their top quality construction will produce the finest television picture possible. For just a little more . . . YOU can deliver the best . . . it pays!



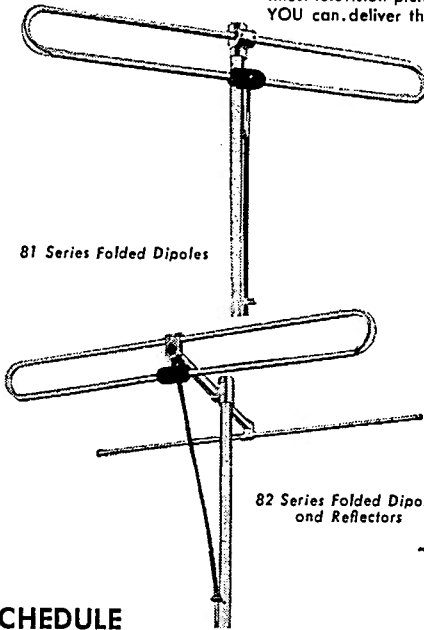
No "assembly puzzles" with Radiart's "SIMPLI-FLEX" design. No degree in engineering or truck-load of tools needed — absolutely no loose hardware. One minute assembly, one man installation!



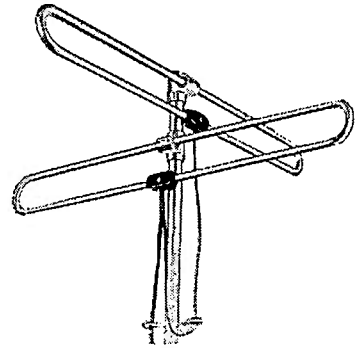
High strength, well engineered design of more than ample safety factor, with simple, sturdy all aluminum castings, elements, and heat-treated support masts for PERMANENT installations.



"WEATHER-SHIELD" polystyrene terminal block encloses lead-in connections and protects from all weather conditions! Keeps electrical performance at maximum.

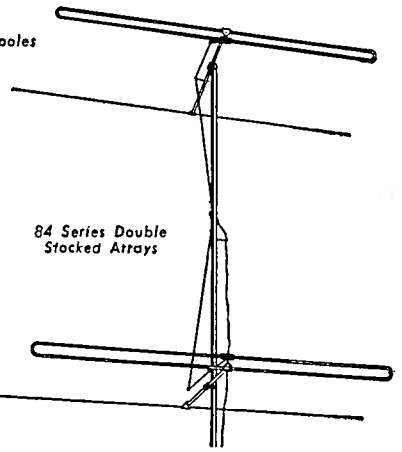


81 Series Folded Dipoles

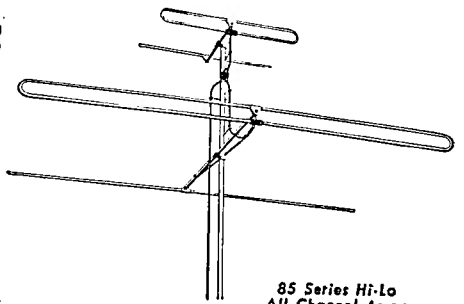


83 Series Turnstile Dipole — Non-directional FM Antenna

82 Series Folded Dipoles and Reflectors



84 Series Double Stacked Arrays



85 Series Hi-Lo All Channel Array

LIST PRICE SCHEDULE

TV and FM ANTENNAS			ACCESSORIES		
Model	Range, MC	List	Part #	Description	List
T81-LTV	54-88	\$14.95	AMT-56-1	4 ft. Mast, 1 1/8" OD, plug-in type	\$ 3.25
81-LTV	54-88	12.45	AMT-62-1	8 ft. Mast, 1 1/8" OD, plug-in type	5.75
T81-HTV	174-216	13.50	AMT-62-2	12 ft. Mast, 1 1/8" OD, plug-in type	8.25
81-HTV	174-216	11.00	AK-26	Mounting straps, dbles. set	2.50
T81-FM	88-108	14.25	AK-27	Universal mounting brackets, set of two, hdwre	5.00
81-FM	88-108	11.75	AK-30	Hvy. swivel mtng. base	2.00
T82-LTV	54-88	20.95	AK-31	Std. swivel base	1.00
82-LTV	54-88	18.45	AMX-122	Stand-off insulator, wood screw type, polythene grommet	.15
T82-HTV	174-216	19.00	ASA-230	Stand-off insulator, machine screw type, 4 1/4" long, #10-32 thrd.	.20
82-HTV	174-216	16.50	ATX-7	300-Ohm Trans. Line, per M	38.00
T83-FM	88-108	19.50	ALW-87	75 ft. coil 300-ohm line, 2 solder lugs attached.	3.00
83-FM	88-108	17.00	ANTENNA PARTS		
T84-LTV	54-88	42.50	AK-32	"Weather-Shield" Terminal Block, Polystyrene, for flat 300 ohm line, set.	1.00
84-LTV	54-88	40.00	AK-33	"Weather-Shield" Terminal Block, Polystyrene, for RG-59U Cable	1.25
T84-HTV	174-216	27.00	ASA-232	Large main aluminum casting, with screws	1.50
84-HTV	174-216	24.50	ASA-229	Small aluminum casting, with screws	1.25
T85-ATV	54-216	30.50	AMX-125	Barrier type junction block, for stacked arrays.	.50
85-ATV	54-216	28.00			
85-X	54-216	23.00			
T85-X	54-216	25.50			
85-XAX	54-216	45.00			
85-XAX	54-216	42.50			
ADAPTOR KITS					
81-RL	54-88	\$6.75			
81-RFM	88-108	6.45			
81-RH	174-216	6.00			
81-TK	88-108	5.75			
"ADD-ON" ARRAYS					
K82-HTV	174-216	\$8.00			
K82-LTV	54-88	10.00			
K84-HTV	174-216	8.00			
K84-LTV	54-88	10.00			

THE RADIART CORPORATION

MANUFACTURERS OF THE FAMOUS RED SEAL VIBRATORS

RADIART

1949

AUTO

AERIALS

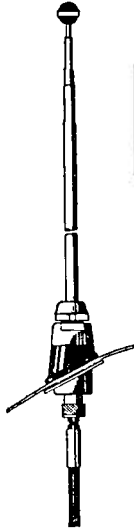


UNIVERSAL LOK-JOINT

This new design has eliminated the last "bug" in this style aerial. Locks easily and positively in any pre-set position without swinging the mast when tightened; 1/2" mounting hole.

MODEL U-3

63" Extended 3-Sections.
Shipping Wt. 1 lb. 3 oz.
LIST.....\$6.25
10 per master carton... 15 lbs.
CHEVROLET & GM
ADAPTOR KIT Included



**EASY TO
INSTALL**

— Features —

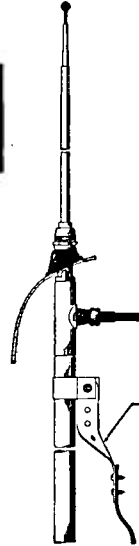
- replace most factory equipped aerials.
- easy one man installation.
- brilliant "SUPER-CHROME" plating.
- small mounting holes.
- highest quality heavy wall brass tubing.
- stainless steel top rod.
- absolutely waterproof.
- DeLuxe 48" interchangeable lead-ins fit all models.

DISAPPEARING MOUNT

This newest addition to the Radiart line collapses to 6" and extends to 60". Fits fender or cowl and features the exclusive "O" Ring Seal around the mast that shuts the door to water entry inside the aerial. Only one 3/8" mounting hole required.

MODEL D-3

60" Extended 3-Sections.
Shipping Wt. 2 lbs.
LIST.....\$7.45
10 per master car-
ton..... 19 lbs.



TWO-INSULATOR SIDE MOUNT

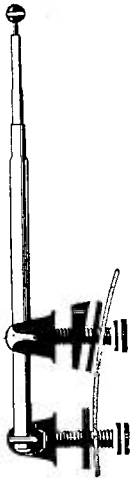
The old reliable with the "New Look"! Chrome trimmed stanchions on the well known sturdy side cowl antenna that requires only 1/2" holes for installation. Wedge type adaptor furnished.

MODEL S-3

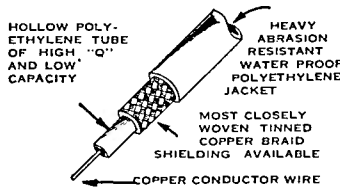
63" Extended 3-Sections.
Shipping Wt. 1 lb. 5 oz.
LIST.....\$5.45
10 per master car-
ton..... 13 lbs. 4 oz.

MODEL S-4 DELUXE

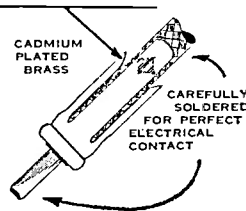
92" Extended 3-Sections,
LIST.....\$6.45
10 per master car-
ton..... 17 lbs. 5 oz.



LEAD-IN



WIPING SPRING FINGERS

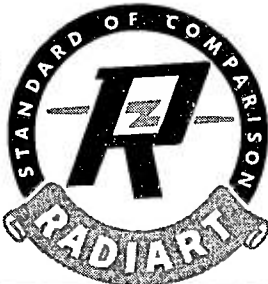
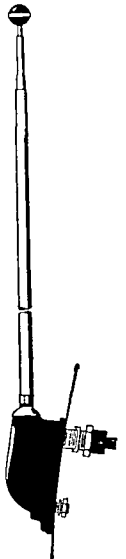


SWING ANGLE SIDE MOUNT

For side of cowl or fender — with 16° swing adjustment — locked PERMANENTLY with hex nut at mast base. Chrome trimmed "Tear Drop" styled insulator mounting through one 1/2" and one 1/4" hole.

MODEL A-3

63" Extended 3-Sections. Shipping Wt. 1 lb. 2 oz.
LIST.....\$5.95
10 per master car-
ton..... 14 lbs. 3 oz.



THE RADIART CORPORATION

MANUFACTURERS OF THE FAMOUS RED SEAL VIBRATORS

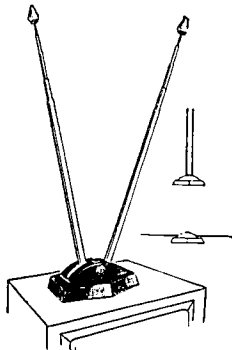
ICA INSULINE ICA

RADIO PRODUCTS

TELEVISION-FM ANTENNAS — ACCESSORIES

Latest Design

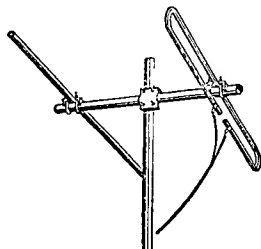
An entirely new and complete line of Television and FM antennas and accessories—precision made by ICA, pioneers in Television for over twenty years. Precision engineered; precision fabricated.



THE "SUPER-WASP" NEW! IMPROVED! SENSATIONAL!

The new INDOOR Television Antenna with amazing reception qualities. Instantaneous horizontal-vertical orienting and tuning for maximum reception. All-Channel selection. Beautifully designed golden-tone brass dipoles and bakelite walnut base with non-scratch cushions. Jiffy installation. Also improves reception when used to supplement existing outdoor antennas.

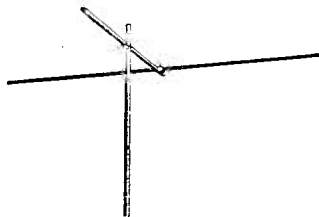
No. 6468—With 300 ohm lead List \$6.95



HI-BAND ANTENNA

Adds to the performance of existing television installations. Broadens reception range of low band antennas to include the higher channels (7 to 13). May be independently rotated for maximum directional response. Matching feature results in more even reception from channel to channel. All metal; weather-resistant. Includes 300 ohm connecting lead.

No. 6440—Ship. Wt. 2 1/4 lbs. List \$6.45



REFLECTOR

Add to existing folded or simple dipole for stronger pick-up. Improves response; cuts down interference. May be added to ICA No. 6420.

No. 6425—Ship. Wt. 3 lbs. List \$4.45

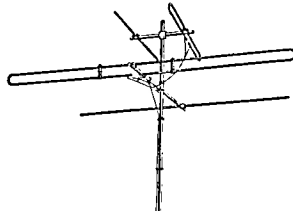
FM RECEPTION

Improves directional strength of FM reception in low signal areas. Eliminates reflections. May be added to No. 6406.

No. 6410—Ship. Wt. 2 1/2 lbs. List \$4.45

Latest Features

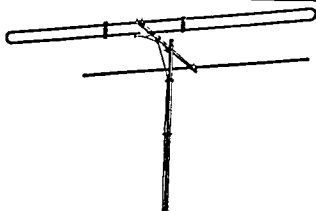
Includes sturdy, rust-proof, all-metal construction; non-corrosive aluminum dipoles, independently rotatable elements. Offers broad-band reception. Easy-fitting units for "jiffy" installation. Full instructions.



HI-BAND LO-BAND TV ANTENNA

For outstanding reception over the entire television channel range. Perfect 300 ohm impedance matching to transmission line and set making losses a minimum. Offers high gain and broad response with strong horizontal reception pattern. Separate elements are independently rotated to yield maximum clarity and signal strength in each band. Dipoles and reflectors of heavy wall non-corrosive aluminum; sturdy steel mast 5 ft. long. Shipping Weight 8 1/2 lbs.

No. 6444 List \$14.75



FOLDED DIPOLE WITH REFLECTOR

For areas of unusual natural interference. The folded dipole element offers matching feature for more even reception. Yields uniform response over a wide band of frequencies. For use with 300 ohm transmission line. Includes rubber stand-off insulators to prevent lead-in "contact" interference or sway.

Hi-Band Antenna (No. 6440) may be attached for coverage of higher channels.

Shipping Weight 7 1/2 lbs.

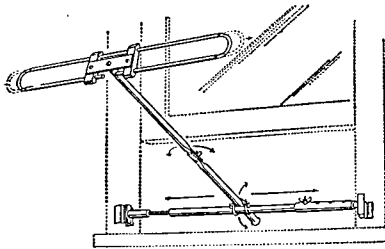
No. 6430 List \$13.75

FM RECEPTION

For maximum FM reception. Especially adaptable to high interference areas. Eliminates reflections.

Shipping Weight 4 1/2 lbs.

No. 6415 List \$13.75



WINDOW ANTENNA

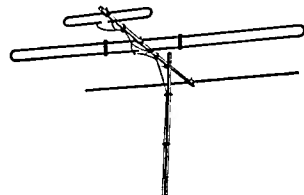
For All-channel Television Reception. Precision engineered, featuring ease of installation; maximum adjustable dipole for best all-channel reception; durable aluminum and steel construction; excellent reception. Special adjustable base spans 30 to 50 inches to fit any wood or casement window frame. Skillfully designed support permits horizontal or vertical positioning for maximum directional response.

Shipping Weight 5 1/2 lbs.

No. 6450 List \$15.35

Latest Types

ICA's new television series offers a wide assortment of antennas and accessories for every type of installation. Includes latest indoor type antennas and varied outdoor set-ups.

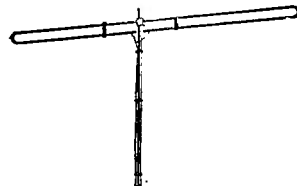


DOUBLE FOLDED DIPOLE-REFLECTOR ARRAY

An outstanding uni-directional broad band antenna system for all-channel, high band-low band reception. Small folded dipole serves as the high band antenna and as a director for the larger dipole. Matching stub provided for use between high and low band dipoles. Excellent 300 ohm impedance matching to transmission line and set. Possesses extremely high sensitivity to build up weak signal reception from distant television transmitters. Engineered to overcome unusual interference from local sources. Includes high band-low band connecting lead; sturdy 5 ft. steel mast; rubber stand-off insulators.

Shipping Weight 8 lbs.

No. 6448 List \$15.75



FOLDED DIPOLE

The ideal antenna for excellent low band television reception (channels 2 to 6) in areas of normally good signal strength with minimum interference present. For use with 300 ohm line. Sturdy 5 foot steel mast; non-corrosive aluminum dipole.

Shipping Weight 4 1/2 lbs.

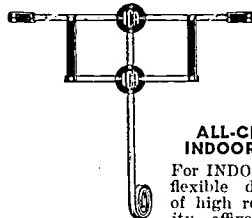
No. 6420 List \$8.95

FM RECEPTION

For optimum FM reception. Features clarity and fidelity. Eliminates reflections.

Shipping Weight 3 1/2 lbs.

No. 6405 List \$8.95



ALL-CHANNEL TV INDOOR ANTENNAS

For INDOOR use. Folded flexible dipole elements of high receptivity quality, affixed to 10 ft. standard 300 ohm twin lead transmission line. May be placed under rug, in attic or other out of way spot. For all television channels.

No. 6012—All-channel List \$2.95

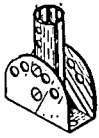
No. 6009—For channels 2 to 6 List 1.95

No. 6008—For FM reception List 1.65

ICA INSULINE RADIO PRODUCTS ICA

TELEVISION ACCESSORIES — TOOLS

VARI-ANGLE ANTENNA BASE ASSEMBLY



Suitable for flat or peaked roofs, gable roofs or side walls. Made of extra heavy gauge steel to insure rigid installation. Special feature permits a variety of mounting positions and directional rotating for best results.

No. 6132.....List \$2.65

ANTENNA MOUNT BASE

This separate section of the ICA antenna base unit is a useful aid in unusual installation problems where the entire ICA unit is not required. Excellent for side wall mounting. Heavy gauge steel.



No. 6133.....List \$1.25

PERFORATED MOUNTING STRAP

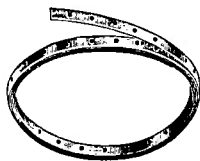


Designed for quick easy fastening of antenna masts to piping, etc. Perforated throughout entire length for maximum adjustability. Sturdy . . . flexible. Includes screw; nut.

No. 6134—15" Length.....List \$1.15
No. 6135—20" Length.....List .20

PERFORATED STRAPPING

Strong, flexible galvanized steel strapping that will serve a multitude of uses in antenna installation work. Ideal for mounting masts on vari-shaped objects—chimneys, posts, etc. Width 3/4". In 12 or 100 ft. lengths.



No. 6148.....List \$7.75 12 ft.....\$4.95 C ft.

DOUBLET LIGHTNING ARRESTER



Weatherproof lightning arrester specially designed for television application. Suitable for any doublet type antenna system. Accommodates twin lead or any other two-wire transmission line.

No. 6111.....List \$.60

LIGHTNING ARRESTER

The same weather-proof lightning arrester described above with convenient metal ground strap to permit ready affixing to water pipes or similar posts.

No. 6112.....List \$.75



MAST COUPLER

Makes addition of masts for greater height a simple matter. Sturdy heavy steel tubing assures rigidity. Slotted feature makes for firm grip. Suitable for masts of 1" diam. Includes 1/4" bolts and nuts.

No. 6140.....List \$1.25

ICA's Mast Coupler with 5 foot mast extension including hardware.

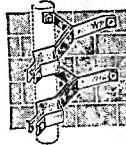
No. 6040.....List \$2.65



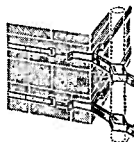
ANTENNA WALL BRACKETS

A useful antenna accessory where a vertical wall installation is desired. Offers a tight-gripping clamping action. Suitable for masts from 7/8" to 1 1/2" in diameter. Made of weather-resistant plated heavy gauge steel.

No. 6131.....List \$2.50 pr.



CHIMNEY ANTENNA MOUNT



For simplified mounting against chimneys, rough parapets and other superstructures. These heavy gauge steel supports solve many types of difficult mountings. The rugged steel strapping is perforated offering the

added feature of adjustability. Minimizes sway, shift or bending.

No. 6130.....List \$4.25 Set

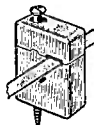
RUBBER STAND-OFF INSULATOR

Fits antenna mast with a snug grip to assure minimum shifting of lead-in cable. Made of long-lasting, tough, natural rubber. Insulates antenna from local grounded objects. Suitable for 300 ohm twin lead. For masts 1" to 1 1/4" diameter.

No. 6125.....List \$8.00 C



CERAMIC STAND-OFF INSULATOR



Moisture-proof for outdoor use. Offers rigid non-swaying grip on wire without insulation damage. For 300 ohm twin lead. With heavy screw for wood or masonry. Ideal for long transmission lines.

No. 6126.....List \$18.00 C

POLYSTYRENE TWIN-LEAD INSULATOR

For either indoor or outdoor application. Maintains firm non-slipping grip without insulation damage. Designed for 300 ohm twin-lead. Weather-resistant plastic. Convenient base hole.

No. 6127.....List \$13.00 C



COAXIAL CABLE



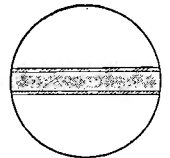
Standard 70 ohm impedance cable necessary in installations requiring long lead-ins or where high level of interference exists.

No. 6115.....List \$13.00 C ft.

TELEVISION - FM WIRE

High-grade 300 ohm transmission line of the twin-lead type. Low-loss polyethylene insulation. Supplied in 1,000 ft. rolls.

No. 6020
List \$ 4.25 C ft.
List 40.00 M ft.



GUY WIRE

For simple antenna installation needs. Strong but flexible enough for easy handling. Stranded copper and monel — 7 strands No. 26. 100 foot coils.

No. 6147.....List \$.40 Coil



The perfect guy wire. Rugged, galvanized steel twisted wire—6 strands No. 20. Weather-proofed—450 lbs. tensile strength.

No. 6186—50 ft.....List \$.88 Coil
No. 6187—100 ft.....List 1.75 Coil
No. 6188—500 ft.....List 8.38 Coil
No. 6189—1000 ft.....List 16.75 Coil

INSULATED SCREW EYES

Dual purpose — for either twin-lead or coaxial cable. Low-loss polyethylene insulation minimizes signal strength loss.

List

*No. 6119—3 1/2" L.....\$.09
*No. 6120—7" L..... .15
**No. 6262—3 1/2" L..... .12
**No. 6264—7" L..... .19

*Wood-screw threaded.
**Machine-screw threaded.



INSULATED SCREW EYES

Stand-off screw eye with convenient mast fitting metal loop for snug securing of transmission line. Fits 1" masts. For twin-lead or coaxial cable.

List

No. 6263—3 1/2" L.....\$.15
No. 6265—7" L..... .21

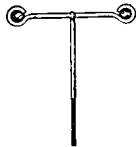


T-TYPE SCREW EYES

Secures double lead-ins with efficient spacing.

No. L. List
*6256 3 1/2" \$.28
*6258 7" .33
**6260 3 1/2" .28
**6261 7" .33

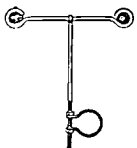
*Machine screw threaded.
**Wood screw threaded.



T-TYPE SCREW EYES

Same as above with mast-fitting metal loop for easy secure installation. Fits 1" mast.

No. L. List
6257 3 1/2" L. \$.38
6259 7" L. .43



ICA INSULINE RADIO PRODUCTS ICA

ICA "DE LUXE" AUTO RADIO ANTENNAS

The Latest, Improved ICA Auto Antennas

Pioneer manufacturers of auto radio antennas, ICA presents its latest line featuring: Noiseless Performance — Rattleproof Engineering — Lifetime Rustproof Guarantee — Easy One-Man Installation. Equipped with BOTH Delco and Motorola fittings.

REPLACEMENT ANTENNA RODS

Specially Designed for
BUICK — FORD

and other cars using antennas of similar windshield mount type. Precision made to assure peak performance

- Simple Installation
- Lasting Service
- Triple-chrome-plated brass

No. 4545—Buick—3 Sec. Extends to 36".....List \$2.75
No. 4546—Ford—2 Sec. Extends to 54".....List 2.25



ICA Disappearing ANTENNAS

For Fender and Cowl Mount
Suitable for all cars, old and new

56" of exposed antenna telescopes to 10". Does not obstruct vision. Plastic and chrome-plated insulator hugs flat or convex surfaces.

Generous length cable . . . 48".

No. 4570.....List \$6.45

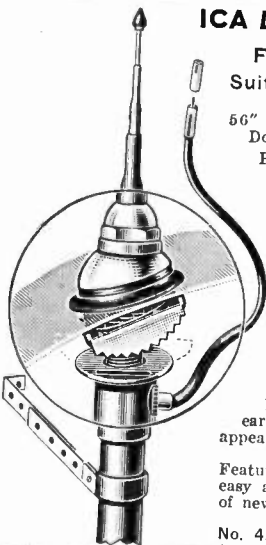
Three-Section
Packed 10 to a standard carton
Weight 11 lbs.

PEERLESS MODEL

Designed especially for 1948 and earlier model cars. Improved streamlined appearance.

Features unique swivel base permitting easy angle adjustment to match contours of new cars.

No. 4571—Three-Section.....List \$6.95
10 to standard carton — Weight 11 lbs



ICA "TOPPER" ANTENNA

For variable angle mounting on tops of fenders and cowls of newest streamlined cars.

- Patented brass shim contacts prevent rattling or vibration.
- Dust and Moisture Proof.
- Snug-fitting tapered telescopic joints.
- Varied mounting positions to harmonize with contour of car.
- Generous length (48") shielded loom Lo-Loss cable . . . Vinylite covered insulation.

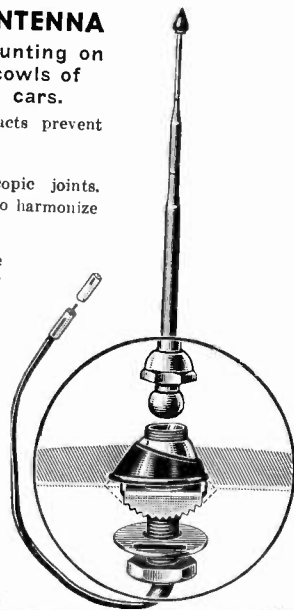
No. 4575.....List \$5.45
Three-Section
Extends from 20" to 63"

"PIVOT TOPPER"

New development in variable angle mountings. Special type pivot permits universal angle mounts. Easily installed. Merely set rod to desired angle and tighten securing nut. Hi-Q loss cable. 48" lead-in.

No. 4576.....List \$4.95

Three-Section
Extends from 20" to 63"
10 to stand. carton. Wt. 10 lbs.



NEW ANTENNA DISPLAY

FREE . . . Ready to Use

A sales stimulating display. Colorful . . . Neatly styled. Suitable for window or counter. (Size 20" x 20".) Display is FREE, you pay only for the following fully-mounted Antennas:

No. 4541—"Rocker"	} Cat No.
No. 4801—Uni-Mount		4500
No. 4568—Side Cowl	} List
No. 4575—Topper		$19.90

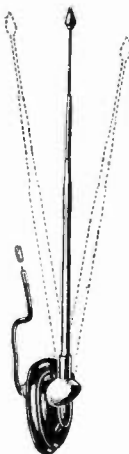


"ROCKER" ANTENNA

A Variable Angle Antenna to Fit the Contours of All Car Bodies

- Suitable for all cars.
- Easily adjusted to desired angle.
- Weatherproof joint construction.
- Easy, one-man installation.
- Streamlined design to harmonize with latest cars.
- High-luster bakelite insulator . . . tamper-proof.
- 48" Lo-Loss cable.
- Completely assembled, ready for installation.

No. 4541.....List \$5.25
Three-Section
Extends from 23 1/2" to 72"
10 to standard carton.
Weight 16 lbs.



UNI-MOUNT ANTENNAS

The Universal Aerial. Fits All Types of Cars . . . Old and New. For Underhood Mounting

- Streamlined modern design.
- Equipped with inter-changeable brackets for either sidehood or alligator hood mountings.
- No drilling of holes into car body necessary.
- Sturdy bakelite and chrome-plated brass insulator.
- Shielded loom LO-Loss cable 36" . . . vinylite insulated.

No. 4801.....List \$4.45

Three-Section
Extends from 20" to 63"
10 to standard carton. Wt. 11 lbs.

No. 4803.....List \$5.45

Three-Section
Extends from 31 1/2" to 96"
10 to standard carton. Wt. 14 lbs.



SIDE COWL ANTENNA

A Series of Side Cowl Antennas for Wide Application

Includes patented brass shim contacts for noiseless performance; brass swivel coupling for easy installation; shielded Lo-Loss cable, 36" long.

No. 4566 (10 lbs.*) List \$4.45
3-Section. Extends 20" to 63"
No. 4553 (11 lbs.*) List \$5.45
3-Section. Extends 31 1/2" to 93"

HEAVY DUTY AERIAL

Made of extra large diameter brass tubing. Ideal for long distance reception and rugged wear.

No. 4568 (14 lbs.*) List \$4.75
3-Section. Extends 29" to 68"
No. 4569 (15 lbs.*) List \$4.95
4-Section. Extends 30" to 80"
No. 4559 (15 1/2 lbs.*) \$6.45
4-Section. Extends 36" to 110"

"PACEMAKER"

Has most of the features of above antennas but priced low for quick sales.
No. 4567 (10 lbs.*) List \$3.35
3-Section. Extends 25" to 62"
*10 antennas in standard size.

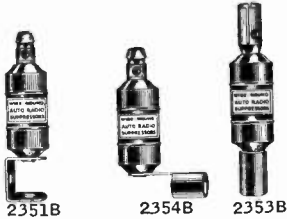


ICA INSULINE ICA

RADIO PRODUCTS

AUTO RADIO CONDENSERS AND SUPPRESSORS

ICA WIRE WOUND SUPPRESSORS LOW RESISTANCE 30 OHMS. D. C.



These suppressors have an extremely low D.C. resistance and thus definitely do not affect the intensity of the ignition spark or cut down the speed of the car.

No.	List
2351B—Spark Plug Suppressor	\$.65
2353B—Distributor Suppressor	.65
2354B—1940-41 Slip-On Suppressor; Will Also Fit Older Type Cars	.65

ICA AUTO ANTENNA CONNECTORS AND ADAPTERS



No. 2347—Antenna Connector. List\$1.0 ea.



No. 2348—Standard Fuse Holder. List\$1.5 ea.



No. 2349
Jumbo Fuse Holder
2 1/2 long x 1/2 wide
List\$3.0 ea.



No. 2372—Lead-in Adapter
—converts standard leads to Motorola fittings.
List\$3.0 ea.



No. 2375—Motorola Pin Plug List \$1.0 ea.
No. 2378—Motorola Shielded Jack
List\$2.0 ea.



No. 2396—Lead-in Adapters
—converts Motorola lead to Delco fittings.
List\$1.0 ea.



No. 2357
Ignition Cap Nut
List\$2.00 C

No. 2356
Ignition Cable Lug
List\$2.00 C

ICA WHEEL HUB STATIC ELIMINATOR

Used under hub of front wheel. An essential on all cars to eliminate front wheel static. Less Back Plate and screw.
No. 4476B List \$1.15



REPLACEMENT PARTS FOR ANTENNA AND FUSE RETAINERS

No. 2360—Female sleeve of fuse connector	List \$5.00 per C
No. 2361—Female sleeve of antenna connector	List \$3.50 per C
No. 2362—Male part of antenna connector	List \$3.00 per C
No. 2363—Spring for both antenna and fuse connectors	List \$1.00 per C
No. 2364—Fiber insulator for auto fuse holder	List \$.90 per C
No. 2365—Bakelite eyelet bushing	List \$2.50 per C

ICA SUPER-TEST AUTO RADIO IGNITION SUPPRESSORS

Made of Moulded Bakelite—All Metal Parts
Made of Rugged Machined Brass



Type No.	List
E—349B—Spark Plug Slip-on Suppressor. Fits 1940-41 cars.	\$.30
E—349F—Slip-on Spark Plug Suppressors for New Model Ford cars	.30
D—350B—Spark Plug Suppressors with Dual Threaded Inserts	.30
D—351B—Spark Plug Suppressors for Ford cars up to 1939	.30
A—377—Bracket type Suppressor	.30
B—352B—Distributor Suppressor for all cars	.35
C—4461—Ford Early Models	.35
C—4463—Ford Late Models	.35
F—4465—Cable Type Suppressor	.30

MASTER DIST. CARBON SUPPRESSOR — 10,000 OHMS

For use on new type cars where only one suppressor is needed. Master Suppressor is guaranteed to eliminate all motor noise—making unnecessary the use of individual suppressors.

No. 330 List \$7.75



AUTO BY-PASS CONDENSER

For by-passing ammeter, dome light or generator. Capacity 1/2 mfd.

No. 1244 List \$5.55

ICA GENERATOR SILENCER

Heavy duty generator condenser eliminates generator, ammeter, distributor noises. Capacity 1 mfd.

No. 1243 List \$8.00



ICA FORD V8 NOISE SILENCER

No. 1245
List \$8.55

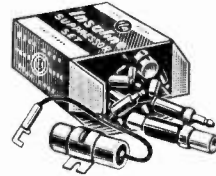
ICA FORD V8 CONDENSERS FOR 1939-1941 MODELS

Equipped with Special Bracket. Capacity 1/2 mfd.

No. 1246 List \$8.00



INTERFERENCE SUPPRESSOR SET



For Auto Radio
All the needed condensers, suppressors, etc. for a complete installation. Neatly packaged as a complete unit. Includes easy instructions. For all cars—old and new. Packed individually or in attractive counter display holding 6 Sets.

No.	For	List
SK-1	—8 Cyl. Cars (except Fords)	\$4.00
SK-2	—6 Cyl. Cars (except Fords)	3.40
SK-3	—Ford Cars (to 1938)	4.00
SK-4	—Ford Cars ('39 to current)	4.05



ELBOW SHAPED SUPPRESSOR

Auto ignition suppressor. Elbow type. Moulded-in bakelite. Machined brass. Metal parts.

No. 4464 List \$3.00

ICA AERIAL KITS



Carries all the essentials for complete antenna installation, packed in handsome 2-color box. Includes:

50 ft. heavy 7 strand tinned copper aerial wire. 22 gauge—30 ft. stranded copper, insulated weatherproof, lead-in wire—10 ft. ground wire, 22 gauge—Ground Clamp—Lead-in Strip—Underwriters' Approved Lightning Arrestor—2 Porcelain Insulators—2 Nail-it Knobs.

No. 654 List \$2.50

SPECIAL KIT

Includes the following aerial kit elements:

50 ft. heavy 7/22 tinned copper aerial wire—30 ft. stranded copper insulated weatherproof lead-in wire—10 ft. No. 22 Ground wire. 2 Porcelain insulators—Ground Clamp—Lead-in strip—Lightning arrestor.

No. 653 List \$2.25

CAPITALIZER KIT

Includes the following components:

100 ft. tinned aerial wire—7 strand copper and monel—30 ft. insulated lead-in wire—lightning arrestor—2 Porcelain insulators—Ground Clamp—Lead-in strip.

No. 651 List \$1.65

JUNIOR KIT

A utility kit for high-grade performance. Includes:

100 ft. tinned aerial wire—7 strand copper and monel—30 ft. insulated lead-in wire—2 porcelain insulators—Ground Clamp—Lead-in strip.

No. 649 List \$1.35

ANTENNA ACCESSORIES

No.	List
227—Porcelain Insulator—glazed	\$.10
223—Ground Clamp—adjustable	.10
1504—Lead-in strip—1/2" wide	.15
336—Approved Lightning Arrestor	.35

NOW only

JERROLD TV-FM BOOSTER

**Comes Equipped with the
Amazing New, Built-in**

MATCH-A-TRAN

Included At No Increase In Price

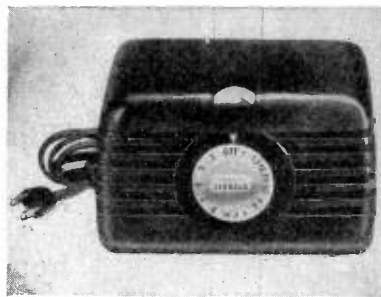
The Jerrold TV-FM Booster has been widely acclaimed for bringing better television reception to distant areas. Now, Jerrold makes another notable advance.

The Match-A-Tran is a new, variable step-impedance transformer that helps provide a perfect match between booster output and TV receiver—any receiver—on all channels. This assures that all the gain of the booster is delivered into the receiver. It is especially efficient on the high channels.

There Is A Difference

Yes, there is a difference between Jerrold and other boosters. Only Jerrold has a tuned-grid, tuned-plate circuit with a channel selector switch to select each channel. Only Jerrold gives a gain of 20 to 30 DB for the entire 6 megacycle bandwidth of each channel. Only Jerrold comes in a beautiful plastic cabinet. Only Jerrold has the Match-A-Tran.

Model TV-FM, \$37.50 List

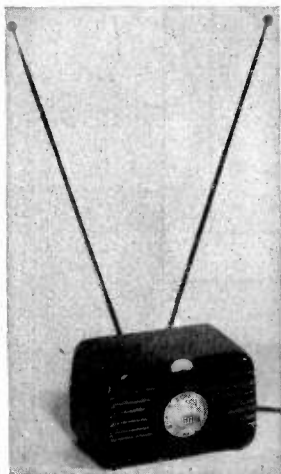


What is the MATCH-A-TRAN?

No present day receiver has an input impedance that is purely resistive for all channels. Thus, standing waves are present on all antenna lead-ins. These standing waves cause peaks and nulls of signal voltage to be spaced along the line at half wave length intervals for each frequency.

For best reception it is necessary that the receiver be connected at a peak signal point for each channel. In effect, the Match-A-Tran is an "electronic line stretcher" that can easily be adjusted for each channel. Thus, brighter, sharper pictures are obtained for all channels. Match-A-Tran is especially efficient on the high (7 to 13) channels.

JERROLD IN-TENNA



Indoor TV Antenna with Outdoor Antenna Gain

Jerrold In-Tenna combines an efficient indoor TV dipole with a high gain, wide band pre-amplifier. This combination offers a superior indoor antenna that is the perfect answer to TV installation problems in apartments, hotels, and private homes. Use it where an outdoor antenna cannot be installed and where an ordinary indoor antenna will not work satisfactorily.

The Jerrold In-Tenna is recommended as an indoor TV antenna, for use in any location up to 25 miles from the television transmitter. **Model TV IN, \$42.50 List**

JERROLD ELECTRONICS CORP.


Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

NEW Teletower with EXCLUSIVE Penn Pilot Hole

*So Foolproof... So Safe...
A Green Apprentice Can Zip it up Fast*



2 Men Do the Job — Minimizes Wind Resistance . . .
Reduces Vibration — Weighs Less Than 2 Pounds per Foot.
Sectional Construction (in 10 foot lengths) — Saves Storage Space.

Penn Pilot Hole — Cuts Assembly Time 1/3.
(Patent Applied For)

Quick erection by the installer means quick profit for the wholesale distributor . . . that's the boiled-down truth about the new Penn TELETOWER.

Why? Because—at last— *a manufacturer has taken the trouble to engineer a simple mechanical feature that serves as a foolproof guide to speedier, safer tower erection.* One leg of the middle section in Penn's tripod-type tower is made longer than the others. Position this single leg correctly and — zip! — the other two are automatically brought

into correct alignment.

As a result of this exclusive feature, Penn offers a tower with tripod stability that's as simply erected as a single pole. Two "green-hands" can put this tower up fast . . . and in safety!

When erected, this Penn Teletower forms a rigidly locked tripod that is unaffected by high winds and will not vibrate out of position. Yet, the entire assembly — built of lightweight steel — weighs less than 20 pounds. Sectional, prefabricated construction permits space-saving storage. Cross braces on tripod serve as rungs and make the tower a safe, useful ladder when erecting antenna. *Mount is so designed that not an ounce of tower weight rests on the motor!*

Penn Teletowers are already on the way "up"! . . . on roofs . . . and in sales! It will pay to drop us a line.

A profitable Penn Teletower connection in your territory may still be available — Though we anticipate heavy Distributor demand. Write or wire today. No obligation.

**PENN BOILER AND BURNER
MANUFACTURING CORP.**

All Channel Television and F-M INDOOR PORTABLE ANTENNAS

The most beautiful antennas on the market—highly efficient—compact—colorful. SPICO Antennas have been accepted as standard equipment by leading television receiver manufacturers. The TENNA-MASTER is available in 2 colors, and with 3 section dipoles and plated faceplates.

EXCLUSIVE FEATURES:

- **Perma-Tension telescopic construction.***
- Lock-Notch vertical orientation, — eliminates knobs and tightening.
- Clean job—no soldering or lugs showing, wires completely concealed.
- Rigid construction throughout; extra heavy wall, and larger diameter tubing.

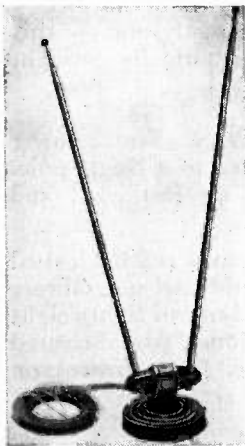
- **YET IT COSTS NO MORE!**

Tenna-Master Model TV 93B
Black bakelite housings and base.

Tenna-Master Model TV 93A
Mahogany bakelite housings and base.



**THE ARISTOCRAT
IN ITS FIELD**



PLUG-TENNA

- Contains all quality features of above.
- Antenna has built-in 4-prong plug which plugs into 4-prong socket molded into base, providing rigid support and excellent electrical contact.
- Antenna easily removed from base and stored in drawer when not in use.
- Engineer-tested, approved, and sold at standard equipment by leading TV set manufacturers.



MASTERETTE

- Economy-priced indoor antenna, with quality features as above.
- Has bell-shaped base, streamline-designed, with no lugs, knobs, or solder showing.
- Easily oriented without knobs.

We manufacture a complete line of standard auto radio antennas. Television, F-M antennas and component parts manufactured to specifications. Your inquiry invited.

*Patented, U. S. Pat. Off.

SPIRLING PRODUCTS CO., INC.

62 GRAND ST., N.Y. 13, N.Y.

Wind-O-Loop

THE IDEAL APARTMENT HOUSE ALL CHANNEL TV & FM ANTENNA

WIND-O-LOOP is a completely novel approach to the problems affecting apartment house or restricted zone installation of television receivers. Constructed of a single rectangular loop and one di-pole, WIND-O-LOOP is attached to the pane of any window, indoors or out, by means of two rubber suction cups. The flat lead-in wire may be brought into the house over the top of the window sash and down behind the curtain or drape to the receiver, thus making the entire antenna invisible from the room.

WIND-O-LOOP is packaged complete with twenty-five feet of lead-in, one end of which is already attached permanently to the antenna for greater convenience of installation. It is also provided with screws for use instead of the suction cups where installation upon a wood surface is desired. An all-channel antenna, WIND-O-LOOP may be oriented through 180° for maximum gain and may be permanently clamped in the most advantageous position. Since it is almost completely assembled upon delivery, WIND-O-LOOP may be assembled and installed in three minutes or less by anyone. Complete with all necessary attachments and 25 feet of wire.

List Price **\$8.50**

Di-Loop

TELEVISION AND FM ANTENNA

DI-LOOP and all-channel TV and FM Antenna is intended primarily for roof-top installation and is packaged complete with an aluminum 6' mast. Constructed of a loop and two di-poles, DI-LOOP uses the loop for high frequency reception and the di-poles for low. When used on low frequencies the loop acts as a resonated section for the di-poles.

DI-LOOP is a high-gain antenna, showing up to four times the gain of conventional folded di-pole antennas, yet its simplicity of construction and sturdy all-metal design insure speedy installation and a long life of excellent performance.

An excellent antenna in any area, DI-LOOP has been found to be ideal in fringe areas of reception where it has been found to out-perform antennas priced many times over its own low price.

Complete with 6' Mast List Price **\$12.50**

Additional 6' extension sections with connector clamps and guy rings List Price: **\$3.50**

SQUARE

ROOT

MANUFACTURING CORPORATION

YONKERS 3, N. Y.

"Wind-O-Loop" and "Di-Loop" are registered trade marks of Square Root Mfg. Corp. Patents Pending.

Quad-Loop

DELUXE

SELECTIVE

DIRECTIVITY

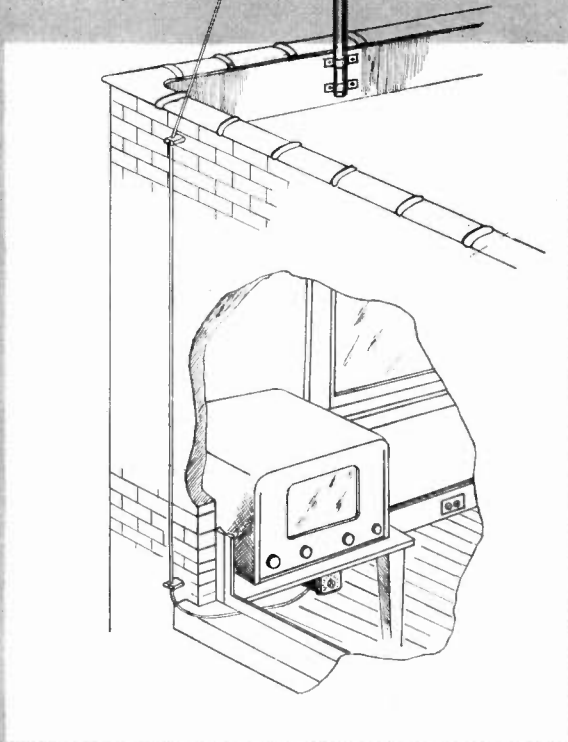
TV & FM ANTENNA

QUAD-LOOP, a quadrature-phasing antenna, achieves all of the advantages of mechanically rotated antennas without any moving parts. Controlled AT THE RECEIVER by a single knob, QUAD-LOOP selects maximum gain for each channel, regardless of the geographical location of the transmitting station.

Because it requires no orientation, QUAD-LOOP needs but one man to install instead of two, thus cutting installation costs materially. Ninety per cent assembled upon delivery, QUAD-LOOP may be completely assembled and installed in far less than the usual time required and because its sturdy, all-metal construction has no moving parts to wear or to become defective QUAD-LOOP will outlast mechanically rotated antennas without servicing or adjustment.

Constructed of two loops and four di-poles, QUAD-LOOP uses the loops for high frequency reception and the di-poles for low. When used on lower frequencies the loops act as resonated sections for the di-poles.

Kit..... List Price **\$34.50**



SQUARE
V
ROOT

MANUFACTURING CORPORATION
YONKERS 3, N. Y.

"Quad-Loop" is a registered trade mark of Square Root Mfg. Corp. Patent Pending.

ANTENNA
DESIGN ENGINEERS
SINCE 1921

RUTHERFORD AVENUE ON ROUTE 35

Telrex

INC.

ASBURY PARK 1, NEW JERSEY

ANTENNA

• DEVELOPMENT •
• MANUFACTURING •

• CONICAL ANTENNAS •

TECHNICAL NOTES

Telrex Conical Antennas technically and practically assume response characteristics similar to a solid conical cone, giving broad band and high gain response with full audio and video band, pass over the entire television spectra.

The nominal center impedance is designed to be 150 ohms and is non-varying because of the conical shaped receiving dipoles. The receiving dipoles are tilted forward to present a "V" to the incoming wave, preventing the receiving lobe changing with increasing frequency, and narrowing the forward receiving lobe. Thus the Telrex receiving dipole is an effective $\frac{1}{2}$ wave element on channel 2 increasing to $\frac{3}{4}$ wavelength on channel 3 and increasing in effective "V" beam action to channel 13 where it has become a full wavelength on each leg with the maximum receiving lobe being in line. The reflectors are effective at all frequencies with a front to back ratio of better than 12 DB on all frequencies.

Unlike other methods of covering both bands, Telrex Antennas do not introduce phase shift or discriminate in favor of one band versus the other or one station versus another, and need only one transmission line. Closer to the stations at some locations it may be necessary to use another antenna because one or more stations are located too far either side of the receiving lobe. This antenna should have its own transmission line. Results can be obtained by connecting the antennas together, although this should be avoided as it may impair the reception on one or more stations. When the stations are within a 5 to 15 degree sector depending on distance from the transmitter the Telrex antenna used for maximum efficiency at low frequencies becomes a much more efficient antenna on the high frequencies than a separate cut-to-frequency stacked antenna.

The 2X-TV model presents a modified stacking of $\frac{1}{4}$ wave with highest possible signal-to-noise ratio and minimum reflections. The 4X-TV model is stacked to present a spacing of $\frac{1}{4}$ wave on channel 2 increasing to full wavelength spacing on channel 13 lowering the angle of inception tremendously and eliminating high angle response lobes directly above and below the antenna. The gain effected by stacking is a variable factor depending on distance to the station, angle of radiation, season of year, time of day, etc., but it accounts for tremendous gain and minimizes noise, flutter, fading and reflections. The 8X-TV model presents the ultimate in television arrays with all band coverage.

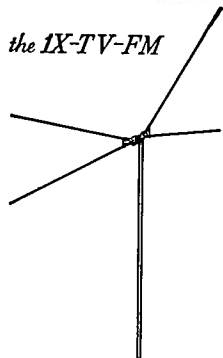
The 150-ohm non-varying center impedance makes it possible to use any of the commercially available transmission lines whether 75-ohm coaxial, 90-ohm twin-ex or the unshielded variety 150- and 300-ohm ribbons with a standing wave ratio never exceeding 1.6 to 1 regardless of channel being received. Standing waves cause excessive phase-shift, causing blurred pictures, multiple images and decreased sensitivity.

You are invited to consult our engineering staff on any unusual antenna problems.



the 4X-TV

America's Outstanding
Television Antenna

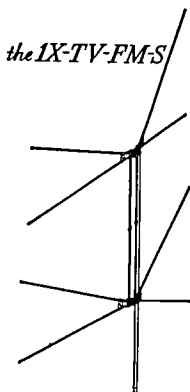


the 1X-TV-FM

For Use in
Primary Signal Areas

FEATURES:

- Bi-directional Hi-gain Conical "V"
- Beam Channels 2 to 13 and FM
- 2 to 1 Front to Back Ratio
- Low Inception Angle
- Extremely High Signal-to-Noise Ratio
- 150-Ohm Non-Varying Impedance
- Uses 72-, 150- or 300-Ohm Transmission Lines
- Minimizes "Ghosts"

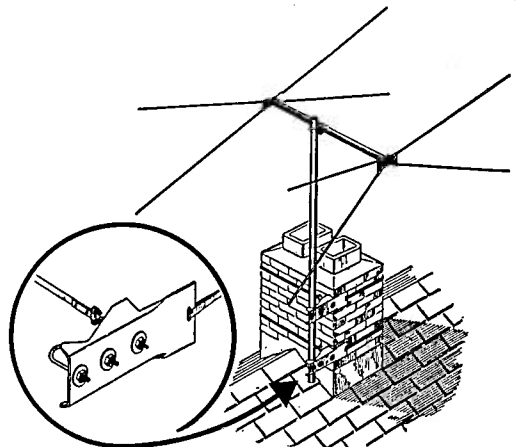


the 1X-TV-FM-S

For Use between Separated
Television Stations

FEATURES:

- Bi-directional Hi-gain Conical "V"
- Beam Channels 2 to 13 and FM
- 2 to 1 Front to Back Ratio
- Low Inception Angle
- Extremely High Signal-to-Noise Ratio
- 150-Ohm Non-Varying Impedance
- Uses 72-, 150- or 300-Ohm Transmission Lines
- Universal Mounting Clamp



Model 2X-TV installed on chimney, using the Telrex CM-2A Chimney Mount with stainless steel band.

ANTENNA
DESIGN ENGINEERS
SINCE 1921

ANTENNA
• DEVELOPMENT •
• MANUFACTURING •

RUTHERFORD AVENUE ON ROUTE 35

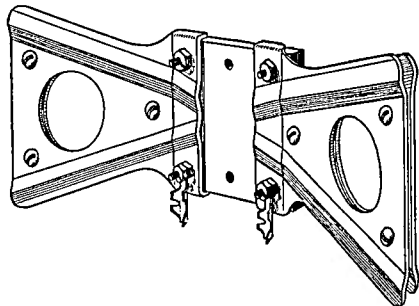
Telrex INC.

ASBURY PARK 1, NEW JERSEY

• TV AND FM ACCESSORIES •

MECHANICAL NOTES

Telrex products are designed to minimize assembly time on the "job" assuring a considerable time-saving and a perfect mechanical installation.

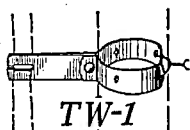


Telrex conical antennas are captivated within better than 3" of clamping action, providing better electrical contact over a longer period of time and a mechanical support that is second to none.

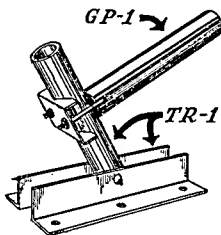
Mast or pipe clamps supplied are universal, allowing correct alignment and flexibility of mounting arrangements, from 3/4" up to and including 1 1/4" tubing.

The hardware in use is at all times the best money can buy oversized for the job.

Transmission Line Stand-off.
Stainless steel banding and phenolic. Used on any size mast or tacked to the building to keep the transmission line away from the pipe or building. Durable; easily installed.



TW-1

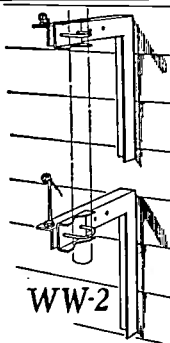


GIN Pole Accessory for use by the installer when a long mast is to be erected. Used in conjunction with the TR-1 (tilt-roof mount) makes erection of long masts a simpler task. Removed after installation for re-use.

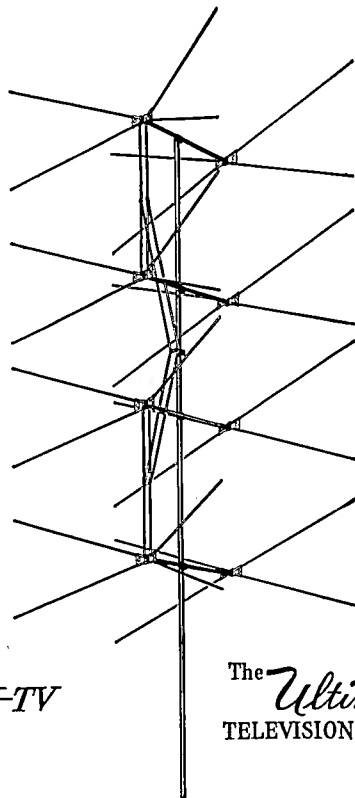
Tilt-roof Mount, sturdily built of angle iron—easily mounted to roof—free action of mast for rotation and orientation.

Window Wall Set. A two-piece installation set for use where a roof installation cannot be made or where the roof overhang would interfere with mast being installed flush to the building.

Made of welded angle iron with a cross brace of steel wire. Paint-dipped, assures a lasting installation.

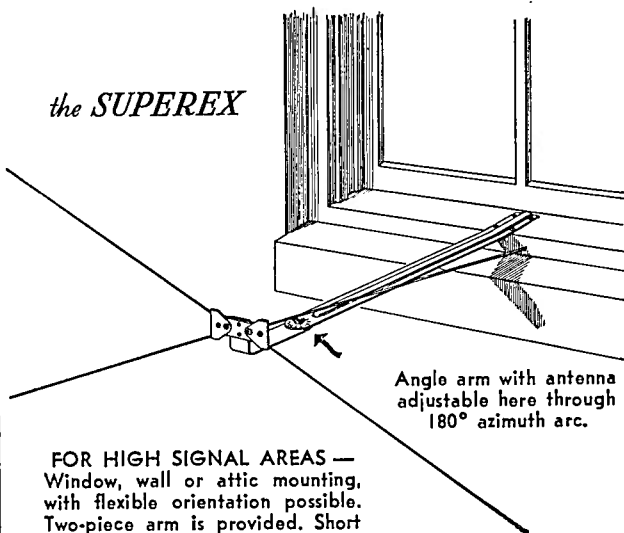


WW-2



the 8X-TV

The *Ultimate* in
TELEVISION ANTENNAS

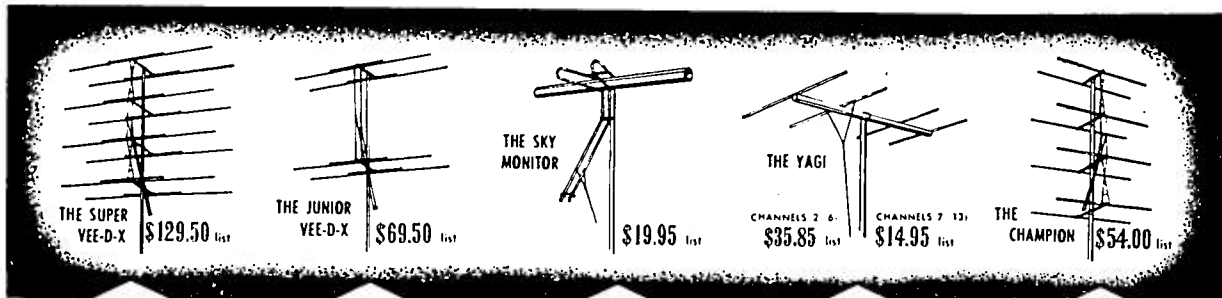


the SUPEREX

Angle arm with antenna adjustable here through 180° azimuth arc.

FOR HIGH SIGNAL AREAS — Window, wall or attic mounting, with flexible orientation possible. Two-piece arm is provided. Short arm is used for parallel-to-wall orientation. The second arm permits other than parallel orientation.

VEE-D-X HAS EVERYTHING YOU NEED FOR BETTER TV & FM INSTALLATIONS



The RD-13, a four bay, full wave, thirty-two element, stacked array, holds every record for long distance reception.

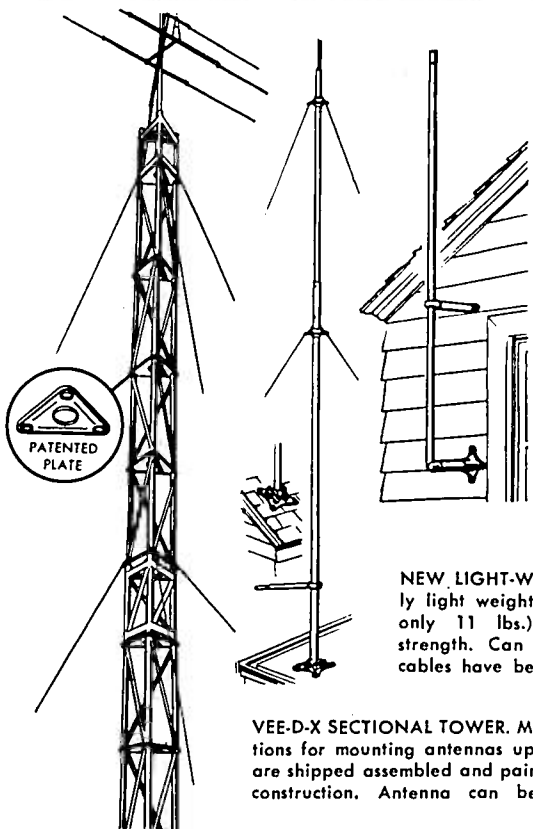
The JR-13, a two bay, full wave, 16 element, stacked array, adequate for most fringe areas.

The DGA-12—for the near fringe and primary areas. Broad band antenna with tunable "Q" Section. Extremely flat response.

The RDY Series, a four element beam cut especially for any channel. Utilizes 2" diameter boom with 1" elements for low channels. High gain at low cost.

The RDH series, a 16 element, full wave, four bay, stacked array, cut especially for any one of channels 7-13. This antenna will out-perform any other high channel antennas.

Whatever you need in the line of TV & FM antenna equipment may now be obtained from one dependable source. Why gamble with profits and customer good-will when you can be sure of all-around satisfaction with Vee-D-X—the complete single source quality line. Every Vee-D-X product is skillfully engineered for your active range of technical requirements and problems. Fast low cost installation insures full profit margin for you on every sale.



ALL ANGLE MOUNT. Particularly suited for mounting on side of house near a window for manual rotation of antenna. Designed to clear overhang of eaves, also excellent for flat or pitched roof. —\$7.50 List

CHIMNEY MOUNT. Fits any opening — round, square or rectangular from 4" to 22", accommodates 1", 1½" & 1¾" masts, takes only 60 seconds to install. \$7.50 List.

NEW LIGHT-WEIGHT MAST. Extremely light weight (a 20' section weighs only 11 lbs.) without sacrifice of strength. Can be rotated after guy cables have been installed.

LIGHTNING ARRESTOR. Installed without cutting transmission line. Does not disturb impedance match. High dielectric, low loss. \$2.50 List.

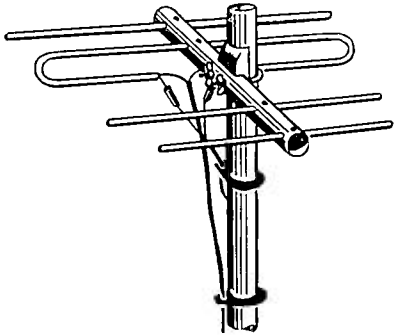
VEE-D-X SECTIONAL TOWER. Made in 10' and 20' Sections for mounting antennas up to 140' high. Sections are shipped assembled and painted. Strictly all welded construction. Antenna can be rotated from base.

THERE'S MORE VISION IN TELEVISION WITH VEE-D-X

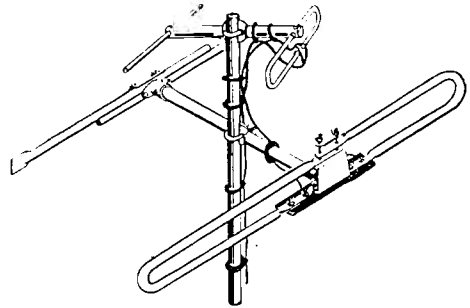
The LaPointe Plascomold Corp. UNIONVILLE, CONN.

ALL VEE-D-X PRODUCTS ARE FULLY PROTECTED BY PRODUCT LIABILITY INSURANCE

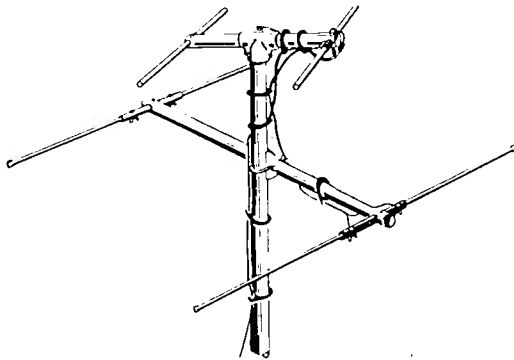
THE COMPLETE SOURCE OF TV AND FM ANTENNAS AND ANTENNA ACCESSORIES



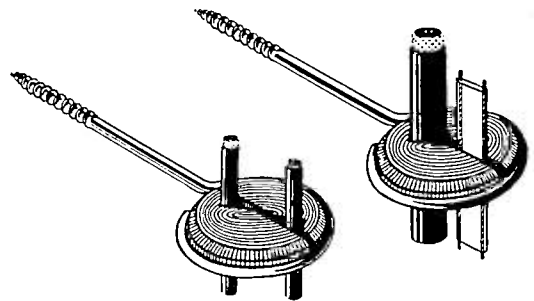
MODEL H-MFDR-5X. Highmaster TV Antenna. The last word in high frequency four-element array design. Super-sensitive pick-up in local or fringe areas. For channels 7-13 and can be independently oriented when used with low frequency array. Model shown contains patented A.A.K. filter divider network which is optional.



MODEL HLB-4. High-Low TV Deluxe Array. Factory assembled for fast installation — no hardware bag. Low array contains adjustable reflector elements for rejection of ghosts, also usable as directors when rotated to reverse position. For all channels and use in localities where there are reflection problems. This model has high forward gain and narrow band. Patented A.A.K. filter divider network is optional.



MODEL HLC-5. High-Low TV Standard Injector Array. Features slatted injection-type elements with bolts and wing nuts for fast assembly — no tools are required. Covers all channels and is used where a good signal level is available, but where there are slight reflection problems. Patented A.A.K. filter divider network is optional.



MODEL SSO-3. Steel Stand-Off. This universally efficient insulator will rigidly clamp any size of TV or F.M. twin-lead or coaxial cable. Various clamping combinations are available by merely reversing either or both half sections of the grommet. Supplied in 3" or 7" lengths. Made of semi-hard, weather resisting rubber compound, which will not deteriorate in heat or cold.

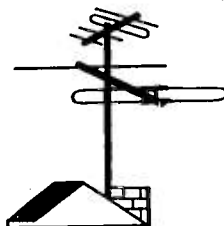
OAK RIDGE ANTENNAS

- Complete line of Model 5 TV Standard Rig-Fast Injector Arrays.
- Complete line of Model 4 TV Deluxe Factory Assembled Arrays.
- All lines contain single dipole to "lazy H" high and low frequency rigs; and, high-low combinations.

OAK RIDGE ACCESSORIES

- 4-Way Clamps
- Chimney Wall Mounts
- Flat and Coaxial Cables
- Steel and Rubber Stand-Offs
- Wall Mounts (6" and 12" sizes)
- Chimney Mount Conversion Units
- Telescopic Masts (24 ft. and 36 ft.)

Send for
FREE CATALOG



Rigged Fast To Last
OAK RIDGE ANTENNAS

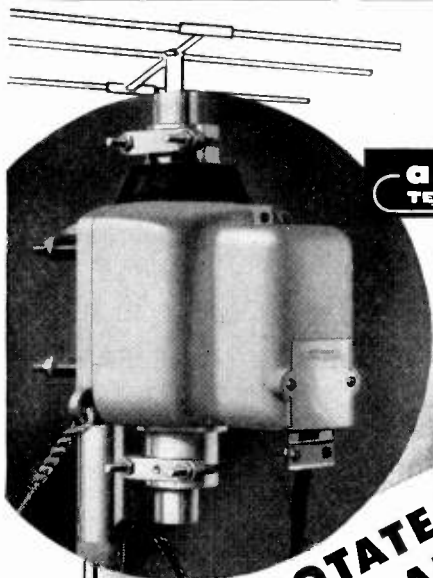
239 East 127th Street, New York 35, N. Y.
Manufacturing Division of Video Television, Inc.

New!

TELEVISION ANTENNA ROTATOR by alliance

Makes the Image Clear - Reduces Interference!

Operates in any weather
Fits most types of T.V. and F.M. antenna



alliance
TENNA · ROTOR

GETS
**STRONGER
SIGNALS**

**ROTATES
TV AND FM ANTENNA**

LIST PRICE **\$39.95**



This new Directional Aid means instant "arm-chair" control for Television Antenna. Dealers and Service Shops can order from their jobber now!

CONTROL BOX
Size: 5" x 5" x 4"

Announcement!
New deluxe Tenna-Rotor with indication control case (Model DIR) now available. . . . List Price \$49.95

Model
A T R

Size of
rotor
unit
7 $\frac{3}{4}$ "
x 5 $\frac{1}{4}$ " x
8"

Ship-
ping
weight
12 lbs.

• The Alliance Tenna-Rotor is an antenna rotator designed to rotate the beam antenna in FM, Television and other high frequency radio applications. It consists of the rotator which is mounted on the antenna mast and a control box placed adjacent to the receiver.

The rotator unit, fully enclosed in a split zinc die-cast housing, is an electrically driven rotor—actually a rotating hollow shaft, into which the antenna center post is clamped. A four-conductor cable connects the rotator with a plastic control box which plugs into any 60-cycle 110-volt AC house circuit. A three-position selector switch controls the rotator. Throwing the switch to the right or left rotates the Rotor shaft clockwise or counter-clockwise through a complete arc of 365 degrees.

At the position of optimum reception, the switch is thrown to the center OFF position. Thus, Tenna-Rotor provides positive, instant control of rotation, enabling the operator to select the exact position for "peaked" reception! An automatic signal light illuminates a screen on the panel and tells when the limit of travel in either direction is reached. Tenna-Rotor is factory lubricated for life . . . designed for years of rugged service, works in any weather and the rotor unit resists corrosion. Tenna-Rotor reduces interference, expands the range and improves the performance of TV and FM installations. Amateurs can use it for trans-

mission and reception with a special accessory thrust bearing (List Price \$7.95 additional) which will handle most three element beams with a thrust load up to 200 lbs.

SPECIFICATIONS Electrical

Input volts—110 volts 60 cycle AC
Input power—30 watts
Clockwise or counter-clockwise rotation
Instantly reversible motor
Minimum coast to stop
No receiver interference

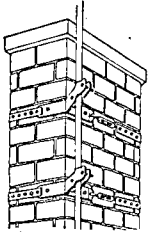
Mechanical

Positive mechanical stop at end of rotation
Rotates through 365 of arc at speed of approx. 1 r.p.m.
Factory lubricated for life
Moisture sealed
Corrosion resistant components throughout—
—cadmium plated parts
Maximum allowable antenna weight—20 lbs.
Maximum O.D. for antenna mast—1 $\frac{3}{8}$ "
Interconnecting cable—4 conductor No. 20 gauge
Rotor Size—7 $\frac{3}{4}$ " x 5 $\frac{1}{4}$ " x 8"
Control Case Size—5" x 5" x 4"
Approx. Shipping Wt., 12 lbs.

Metalace
SETS THE PACE

ANTENNA MOUNTING EQUIPMENT

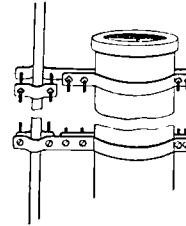
THE ONLY FULL LINE . . . a mount for every purpose . . . all constructed of heavy gauge steel — NOT Castings — treated with a new and improved waterproof coating made to Navy specifications for complete protection against weather conditions . . . in a handsome semi-gloss silver finish . . . vise-type clamps accommodating masts of $\frac{3}{4}$ " to $2\frac{1}{2}$ " . . . all hardware pre-assembled so that no time is lost in installation.



CHIMNEY MOUNT

Model CMA

Designed to allow any spread between mast brackets. Exclusive turnbuckle feature provides rapid and secure take-up. Installed in a matter of minutes with ordinary tools . . . no drilling necessary. Several other chimney type mounts available.



VENT PIPE MOUNT

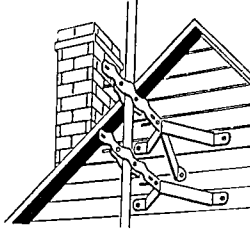
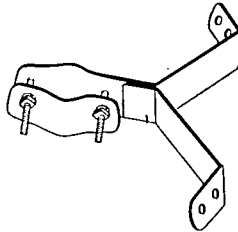
Model VM-6

For speedy installation of mast on 4" to 6" vent pipes or poles.

EAVE BRACKET

Model EM-6

For a simple installation allowing a 6" stand-off.



ADJUSTABLE EAVE MOUNT

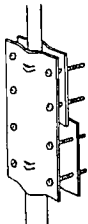
Model EMX

A practical tripod support with simple adjustment permitting an 8", 10" or 12" stand-off or as much as 16" when used in conjunction with Metalace Mast Joiner. Three other non-adjustable models available for 12", 18" or 24" stand-offs.

MAST EXTENDER

Model EM-8

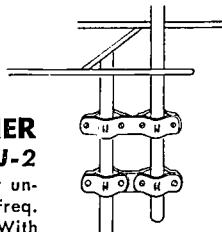
Permits a 4" bite on any two masts of equal or unequal diameter. With six guying points.



MAST JOINER

Model MJ-2

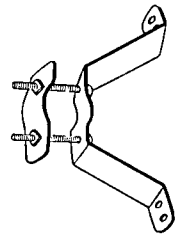
For joining masts of equal or unequal diameter . . . to add Hi-Freq. to an existing installation. With four guying points.



WALL MOUNT

Model WM-4

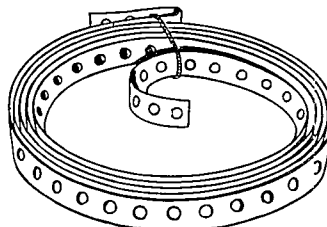
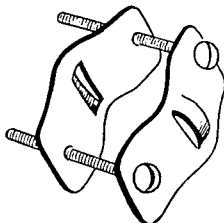
For rugged in-close mounting allowing a 4" stand-off.



GUYING CLAMPS

Model GC-4

Vise-type clamps to hold guys at any point on a mast.



STEEL STRAPPING

Model SM-100

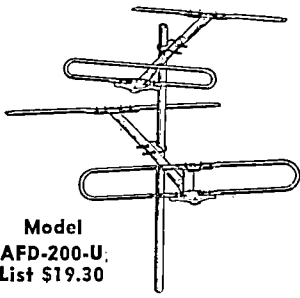
$\frac{3}{4}$ " galvanized steel with $\frac{1}{4}$ " holes on $\frac{3}{4}$ " centers . . . for mounting and securing masts to odd shaped forms. In convenient 100' rolls.

IMMEDIATE DELIVERY • LOWEST PRICES • MANY OTHER PRODUCTS • SEND FOR CATALOG

METALACE CORPORATION

Dept. 112 2101 GRAND CONCOURSE NEW YORK 53, N. Y.

RMS TELEVISION ANTENNAS ACCESSORIES



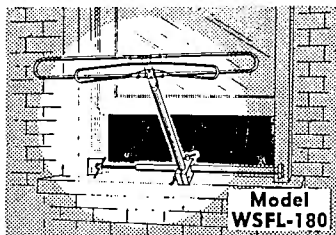
Model
AFD-200-U
List \$19.30

ALL-CHANNEL FOLDED DIPOLES with Reflectors

Aluminum tubing, massively constructed, specially ridged at joints for maximum strength. Both arrays separately oriented. U-Bolt mounting. Complete with mast.

Other RMS All-Channel Television Antennas

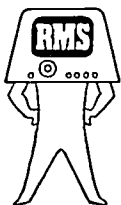
	List Price
ASD-150—Straight Dipoles with Reflectors and mast	\$18.20
AFD-200—Folded Dipoles with Reflectors and mast	20.00
ASD-150-U—Straight Dipoles with Reflectors, less mast, U bolt mounting	17.30
FFD-120—Folded Dipole, with hi-freq lobe, and mast	10.60
FRD-130—Folded Dipole with Reflector, hi-freq lobe, and mast	16.20
ALHS-675—Straight hi and lo dipoles, reflector, in line	15.30
ALH700—Folded hi and lo dipoles, reflector, in line	17.40
CAS725—Pyramidal, with reflector	21.15
CAD750—Stacked Pyramidal, with reflector	42.30
YAC800—Dual "U"	17.40



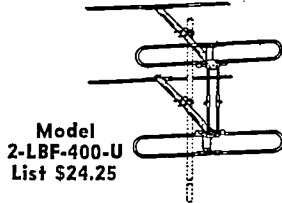
Model
WSFL-180

WINDOW SILL TELEVISION ANTENNAS

WSFL-180—All channel folded dipole with hi-freq lobes, mounts in any window, no drilling or cutting, no holes. Perfectly secure, dependable. List \$17.00
WSS-160—Straight Dipole window antenna, similar to above, channels 2 to 6. List \$13.80



MEMBER
RMA
You are invited to write for catalog #215-U, illustrating complete line of outstanding RMS antennas and associated accessories.



Model
2-LBF-400-U
List \$24.25

LOW BAND FOLDED DOUBLE DIPOLES with Reflectors

High gain array for channels 2 to 6. U-bolt mounting, less mast. Easily oriented. Rigid, massive construction. Other RMS Low Band Antennas

	List Price
SD-10—Straight Dipole	\$ 6.85
FD-25—Folded Dipole	9.40
SDR-50—Straight Dipole with Reflector	12.50
FDR-100—Folded Dipole with Reflector	15.00
LBS-30-U—Straight Dipole with Reflector, U-Bolt mounting, less mast	9.75
LBF-40-U—Folded Dipole with Reflector, U-Bolt mounting, less mast	11.60
2LBS-350-U—Stacked straight Dipoles with Reflectors, U-bolt mounting, less mast	19.25

HIGH BAND ATTACHMENTS

Model HFS-250 List \$6.60

Straight Dipole with reflector and mast, for channels 7 to 13. Easily attached to main antenna mast, by clamps supplied. Heavy gauge aluminum, polystyrene insulation.

Other RMS High Band Attachments

	List Price
SAH-1—Straight Dipole with Reflector	\$ 5.10
DAH-5—Folded Dipole with Reflector	5.40
HFF300—Folded Dipole with Reflector, mast and brackets	7.00
2HBS-450-U—Stacked Straight Dipoles with Reflectors, U-Bolt mounting, no mast	10.65
2HBF-500-U—Stacked Folded Dipoles with Reflectors, U-Bolt mounting, no mast	11.60

TELEVISION ANTENNA DIRECTORS

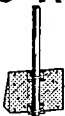
D2 to D6—Directors cut to exact channels 2 to 6. List each \$6.05
D7 to D13—Same, channels 7 to 13. List each \$4.50

EXTENSION MASTS for Television Antennas

AM-6—Heavy walled aluminum 1 1/2" OD, 6 ft. length.	List each \$3.50
SM-6—Heavy gauge plated lock-seam steel, 1" OD, 6 ft. length.	List Price Cartons of Twelve \$32.00
SM-10A—Steel, same as above, but 10 ft. length.	List Price Cartons of Twelve \$53.35
SM-10B—Steel, same, 10 ft. length, 1 1/4" OD.	List Price Carton of Twelve \$60.00

RMS ALL ANGLE MOUNTING BRACKET

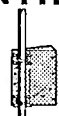
FOR
FLAT
ROOF



FOR
SLOPING
ROOF



FOR
WALL



for TELEVISION
ANTENNAS

Model AMB.

Made of heavy gauge plated steel, supplied with 2 "U" Bolts, nuts, 4 lag screws. List Price \$5.25

RUBBER STAND-OFF INSULATORS

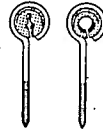
For holding twin-lead neatly, securely at fixed distance from crossbars and masts.

List Price
\$8.25 per 100



SCREW EYE STAND-OFF INSULATORS

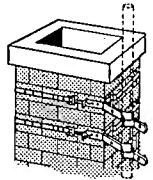
3530—3 1/2", for Twin Lead \$82.50 per M
3572—3 1/2", for Coax Cable \$82.50 per M
730—7", for Twin Lead \$150.00 per M
772—7", for Coax Cable \$150.00 per M



RMS TELEVISION ANTENNA CHIMNEY MOUNT

Model
SCM-100

Made of heavy gauge plated steel. Fits any chimney or other upright rectangular roof structure, having girth up to 12 ft. List Per Pair \$4.30



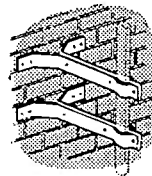
WALL & CHIMNEY MOUNT

for Television
Antennas

Model WCM-500

Holds antennas securely 6" from any wall or chimney.

Made of heavy gauge plated steel, easy to mount. All hardware included. List Per Pair \$2.00



U-BOLT MOUNTING BRACKETS

Model UB-10

Permits joining together of two masts each up to 1 3/8" OD. Packed 25 to carton. List Price per Carton \$12.50



GUY WIRE RINGS

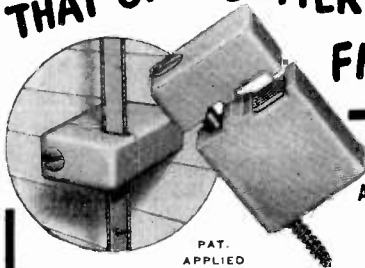
GR-1—1" I.D.
GR-2—1 1/8" I.D.
GR-3—1 1/4" I.D.
List Price any type, cartons of 100 \$15.00



RADIO MERCHANDISE SALES, INC.

NEW YORK, N. Y.

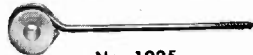
NEW LEAD-IN SUPPORTS THAT GIVE BETTER TELEVISION and FM RECEPTION!



PAT.
APPLIED
FOR
No. 9418

Porcelain Products' exclusively designed lead-in supports give rigid support preventing lead-in wire from twisting in wind or going slack. Quick moisture drainage prevents short circuits. Made of highest quality porcelain, resistant to weather extremes, factory assembled, screws rust-proofed, no maintenance, low initial cost. For all popular types of lead-in cables.

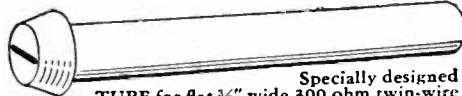
OTHER ANTENNA AND LEAD-IN ACCESSORIES



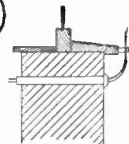
No. 1925
Insulated Screw Eye. Overall length 7-1/4", 5/16" insulator hole.



No. 1961
Split Bridle Ring Insulated Screw Eye. Overall length 3-5/8", 5/8" insulator hole, 1/4" diagonal slot.

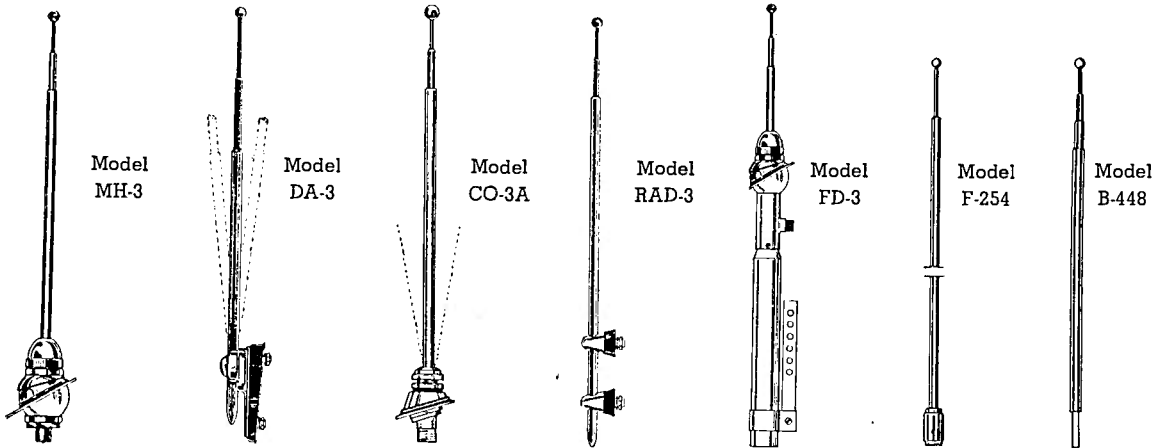


Specially designed TUBE for flat 3/8" wide 300 ohm twin-wire TV-FM Lead-in Conductors. Outside diameter 1 1/8" - fits hole made by standard 3/4" drill bit. Finest electrical porcelain, rectangular hole prevents conductor from twisting. Write for folder.



Porcelain Products, Inc.
FINDLAY, OHIO

RAD-EL-CO AERIALS



THE CHOICE ACROSS THE NATION FOR QUICK, EASY INSTALLATION!

MH-3 MONARCH COWL-FENDER

Chrome plated all metal mounting base adjustable from flat to 30°. Does not crush. Holds adjustment permanently. 36" Radar Cable.

MH-3 List \$5.45 3 Sec. 57"

DA-3 ADJUSTABLE SIDE COWL

Side mounting on sloping or vertical surfaces of cowl or fender. 1/2" mounting holes. Mast swing of 35°. 36" Radar Cable.

DA-3 List \$5.45 3 Sec. 72"

CS-3 CHAMPION SIDE COWL

Quality Built—competitively priced. Chrome plated brass tubing. Black covered shielded cable with screw-on connector. Metal capped ceramic insulators.

CS-3 List \$3.45 3 Sec. 66"

CO-3A ROTOLOK COWL-FENDER

Easy mounting through 1/2" hole. All tightening outside. Non-crushing chrome plated metal mount. VISE-LOCK eliminates braces. 36" Radar Cable.

CO-3A List \$4.95 3 Sec. 57"

RAD DELUXE SIDE COWL

Built to superior quality standards. Automotive specification chrome plate. Low loss 100% shielded 36" Radar cable with screw-on connectors.

RAD-3	List \$4.65	3 Sec.	70"
RAD-4	" 5.65	4 "	92"
RAD-5	" 6.65	5 "	112"

FD-3 CONCEALED COWL-FENDER

Chrome plated all metal adjustable mounting base. Strong, non-crushable. Waterproof, electrically efficient, guaranteed trouble free. 48" Radar Cable.

FD-3 List \$6.95 3 Sec. 4" - 55"

F-254 FORD REPLACEMENT MAST

For 1941-42-46-47 Ford-Mercury Roof Antenna that operates behind windshield center post.

F-254 List \$2.00 2 Sec. 54"

B-448 BUICK REPLACEMENT MAST

Replacement mast for roof aerials on all Buicks 1940 to present.

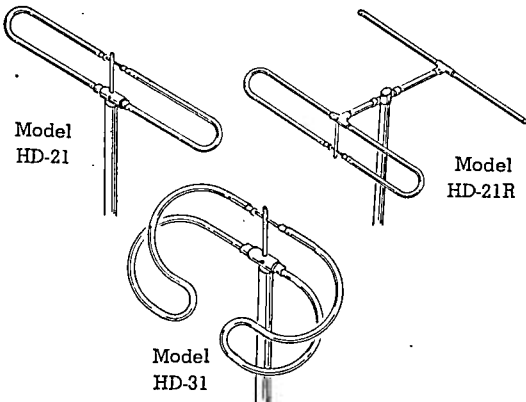
B-448 List \$2.50 4 Sec. 45"

RADAR LEAD CABLES

Radar type coaxial polyethylene cable completely shielded. Type L as supplied with aerials. Extension type LE has male and female pin plug fittings.

Model	L-36	L-48	LE-12	LE-24	LE-36
List	\$1.35	\$1.60	\$.75	\$1.10	\$1.35
Length	36"	48"	12"	24"	36"

★ DOUBLE STAR FM DIPOLES ★



HD-21 FOLDED DIPOLE

Impedance of 300 ohms matches RMA Standard receiver input. Complete with 8 ft. mast, guy ring, stand-off insulator, wall brackets, base and 50 ft. of 300 ohm line.

HD-21 List \$8.25 88-108 MC

HD-21R DIPOLE-REFLECTOR

Same accessories as Model HD-21 plus reflector to increase signal strength. More directional than Model HD-21 with much increase in forward gain.

HD-21R List \$10.75 88-108 MC

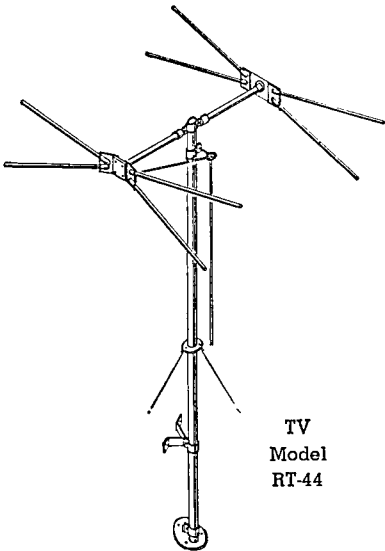
HD-31 DIFOLD DIPOLE

Much less directional than folded dipole. Use where signals come from several directions. Same accessories as HD-21.

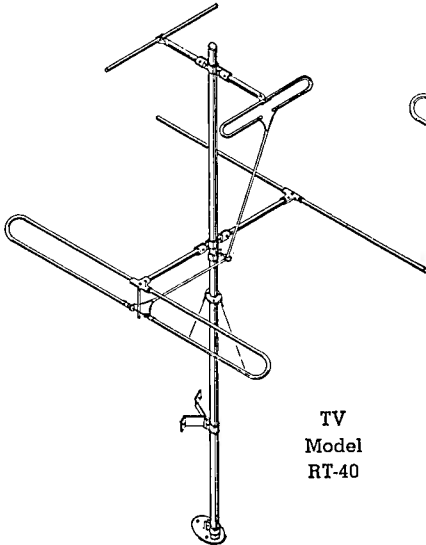
HD-31 List \$8.95 88-108 MC

TV AND FM ACCESSORIES

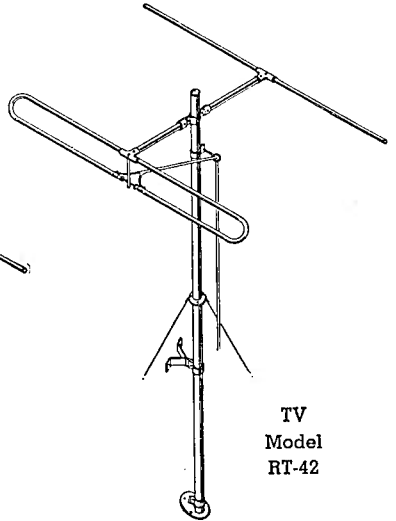
ME-48	4 ft. steel mast extension	List \$1.25
HR-1	Reflector Kit for HD-21	" 2.50
RQ-42	Stacking Jumper Bar	" .75



TV
Model
RT-44



TV
Model
RT-40



TV
Model
RT-42

TODAY'S GREATEST VALUE IN TV ANTENNAS

RT-44 SIMPLEX DIPOLE AND REFLECTOR

New "X" type aerial. Sturdy and simple to assemble. High gain on all channels. Fine for fringe reception. Complete with 8 ft. steel mast, guy washer, stand-off insulator, wall brackets and base. Model RT-44 includes 50 ft. 300 ohm cable.

RT-44.....	List \$13.25.....	54-216 MC
RT-44LL.....	" 11.45.....	54-216 MC

RT-40 HI-LO DIPOLE AND REFLECTOR

Separate high and low frequency bays for efficient reception from stations in different directions. Easy to assemble. Complete with same accessories as RT-44. Model RT-40 includes 50 ft. 300 ohm cable.

RT-40.....	List \$12.75.....	54-216 MC
RT-40LL.....	" 10.95.....	54-216 MC

RT-42 LOW BAND DIPOLE AND REFLECTOR

For reception on channels 2 - 6. Same accessories as RT-44. Model RT-42 includes 50 ft. 300 ohm cable.

RT-42.....	List \$10.75.....	54-88 MC
RT-42LL.....	" 8.95.....	54-88 MC

RT-43 DUAL BAND DIPOLE AND REFLECTOR

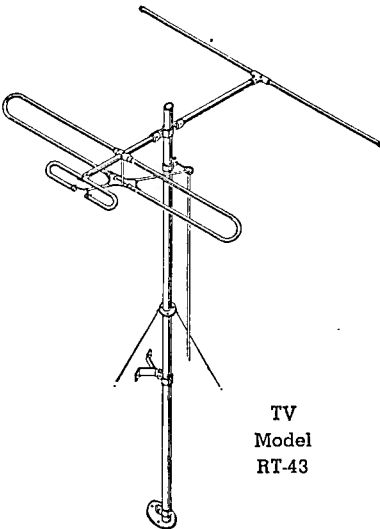
In-line type with special array to provide exceptional gain on all channels. Ideal where all stations are in same direction. Same accessories as RT-44. Model RT-43 includes 50 ft. 300 ohm cable.

RT-43.....	List \$12.25.....	54-216 MC
RT-43LL.....	" 10.45.....	54-216 MC

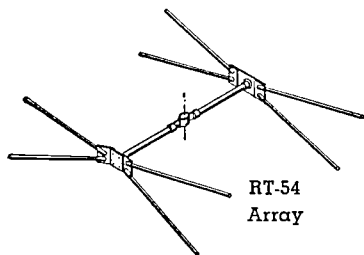
TELEVISION ARRAYS FOR STACKING PURPOSES

To increase gain and reduce interference, the following arrays are designed for use with above aerials.

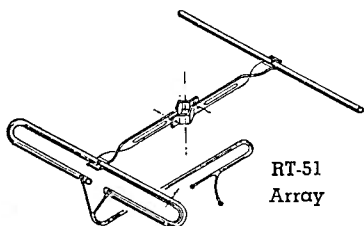
RT-51 High Band Array.....	List \$2.50.....	174-216 MC
RT-52 Low Band Array.....	" 5.95.....	54-88 MC
RT-53 Dual Band Array.....	" 7.45.....	54-216 MC
RT-54 Simplex X type Array.....	" 7.95.....	54-216 MC



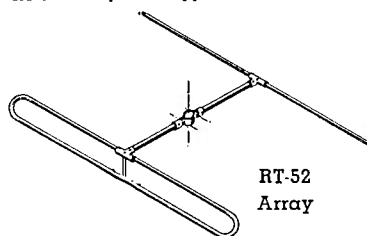
TV
Model
RT-43



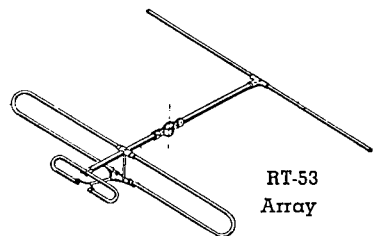
RT-54
Array



RT-51
Array




RT-52
Array



RT-53
Array

Retainer Ring "S" Type Sockets

Extremely compact sockets, furnished complete with retainer rings. Mount in 1-11/64" keyed hole. Use Amphenol No. 25-LD-1 Punch and Die.


	Black Bakelite	List	Contacts	Steatite	List
	78-S4	\$.13	4 Contacts	49-SS4	\$.47
	78-S5	.13	5 Contacts	49-SS5	.47
	78-S6	.13	6 Contacts	49-SS6	.47
	78-S7C*	.17	7 Comb. for 7L, 7S		
	78-S7L*	.13	7 Large	49-SS7L*	.59
Black Bakelite	78-S7S	.13	7 Small	49-SS7S	.47
	78-S8	.17	8 Octal	49-SS8	.47
	78-S8L	.21	8 Loktal		
	78-S9	.21	9 Octal Style		
	78-S11	.29	11 Octal Style		
	78-A7P†	.30	7 for Miniatures		
	78-A9P†	.45	9 for Miniatures		
	78-B	.07	Blank		

* Mounts in 1-21/64" keyed hole. Use 25-LD-2 Punch and Die.
† Mounts in standard socket hole. Has miniature socket in center.

Magnal Socket Has 1-1/16" pin circle for cathode ray and television tubes. Mounts in 1-5/8" hole. Steatite.
No. 49-SS11L 11 Contact, Magnal..... **List \$1.21**

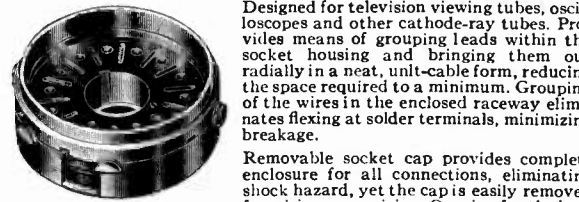
Miniature Retainer Ring Type Sockets

Mount in 5/8" round or "D" shaped hole with No. 2-9 retainer rings.

	Black Bakelite	Number	Description	List
	78-S3S	For 3 prong min. photo cells		\$.17
	78-S4S	4 Contact		.17
	78-S5S	5 Contact		.21
	78-S6S	6 Contact		.21
	78-7P	7 Contact, Miniature		.21

Mica-Filled Bakelite
78-7PT 7 Contact, Miniature..... **List .28**

Duodecal and Diheptal Tube Sockets



Designed for television viewing tubes, oscilloscopes and other cathode-ray tubes. Provides means of grouping leads within the socket housing and bringing them out radially in a neat, unit-cable form, reducing the space required to a minimum. Grouping of the wires in the enclosed raceway eliminates flexing at solder terminals, minimizing breakage.

Removable socket cap provides complete enclosure for all connections, eliminating shock hazard, yet the cap is easily removed for wiring or servicing. Opening for the lead

wire harness can be positioned in any of 61 locations. Contacts are seated in individual wells, the walls of which form efficient creepage barriers. Socket cap and body molded from high quality electrical bakelite. Contact are Amphenol exclusive "clover-leaf" design featuring four full lines of contact on each tube pin.

The socket is designed for easy assembly and disassembly... requires no special tools.

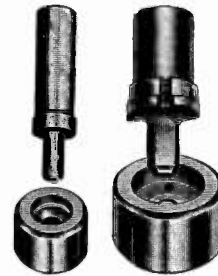
Duodecal Socket for a maximum of 12 equally spaced pins on a circle diameter of 1.063".
No. 59-402..... **List \$1.56**

Diheptal Sockets for a maximum of 14 equally spaced pins on a circle diameter of 1.750".
No. 59-415 Small—for 2.050" D. Tube base..... **List \$1.67**

No. 59-417 Medium—for 2.250" D. Tube base..... **List 1.67**

Laboratory Punch and Dies

For punching mounting holes for Amphenol connectors, plugs and receptacles. Made of tool steel, properly hardened.



For Amphenol Retainer Ring Mounting Tube Sockets, Rodio Plugs, etc.

Drill 1/2" hole for pilot punch.
No. Size of Hole List
25-LD-1 1-11/64" keyed..... **\$12.00**
25-LD-2 1-21/64" keyed..... **12.00**

For Miniature Sockets and Microphone Connectors

Drill 1/8" pilot hole for 25-LD-3, 5 and 6 and 1/4" hole for 25-LD-4.
25-LD-3 13/16" round..... **\$3.60**
25-LD-4 5/8" round..... **3.60**
25-LD-5 5/8" "D" hole..... **6.00**
25-LD-6 1/2" "D" hole..... **6.00**

Retainer Ring Hand Tools



Convenient for assembling miniature sockets, plugs and tip jacks to panels or chassis. Designed for hand operation.

Number	Description	List
51-5	For No. 2-9 Rings	\$1.20
51-6	For No. 2-11 Rings	1.2
51-7	For No. 2-10 Rings	1.2
51-1	For "S" type sockets and "CP" type plugs except 7C and 7L sizes. Required where socket spacing is very close.	6.66
51-2	For "S" type sockets 7-large and 7-combination	6.66
51-3	For "SS" steatite sockets and "60" and "61" receptacles. Of two-piece construction... somewhat easier but slower to use than 51-1 (above) for "S" sockets and "CP" plugs	6.66

Magic Eye Assembly



For easily adapting or replacing a 6 prong magic eye tube in any radio having automatic volume control. Also for FM receivers, test instruments, signal tracers, and as volume level and modulation indicators. Includes 1 megohm target plate resistor wired into socket and 5 wire, color coded cable 22" long. Mounting bracket is slotted for tube adjustment. Complete as illustrated, with escutcheon and hardware for assembly. Tube not included.
No. 58-MEA6 Complete Magic Eye Assembly..... **List \$1.51**

Octal Magic Eye Assembly



Similar to No. 58-MEA6 shown above, but for octal type magic eye tubes. New universal short bracket for the smaller tube sizes permits use of any of the octal magic eye tubes including the dual pattern and the new multi-pattern types. Complete with 8 wire, color coded cable, 22" long, full vision escutcheon and hardware for assembly. Tube not included.
No. 58-MEA8 Complete Octal Magic Eye Assembly..... **List \$1.51**

Magic Eye Escutcheons

Hood type is of sturdy plastic with beautiful antique bronze finish. Full vision type for octal dual-pattern and new octal multi-pattern types is brass with antique bronze finish.

Number	Description	List
10-102	Hood Type, For 6 prong tubes	\$.15
10-2	Full Vision Type, For octal tubes	.36

MIP Molded-In-Plate Sockets



Molded of high dielectric black Bakelite, sturdy, steel mounting plate molded directly into the solid body; cannot come loose or vibrate. Contacts grip tube prongs firmly and retain their resiliency indefinitely. Mount in 1-5/32" round hole. Two 5/32" screw holes on 1-1/2" centers.

Number	Contacts	List	Number	Contacts	List
77-MIP-4	4 Contacts	\$.12	77-MIP-8	8, Octal	\$.14
77-MIP-5	5 Contacts	.12	77-MIP-9	9, Octal style	.18
77-MIP-6	6 Contacts	.12	77-MIP-11	11, Octal style	.24
77-MIP-7L*	7 Large	.14	77-MIP-12	12, Octal style	.30
77-MIP-7S	7 Small	.12			

* 77-MIP-7L mounts in 1-9/32" D. round hole.



Compact MIP Sockets

Same as MIP series above but smaller in diameter. Mount in 1-1/8" round hole. Two 5/32" diameter mounting holes on 1-5/16" centers. Black Bakelite dielectric.

Number	Contacts	List
88-8	8 Contacts	\$.14
88-8X	8, Loktal.	.21

Saddle Type Sockets



Sharp nibs on mounting plate score chassis during riveting, breaking thru any oxidation for a perfect ground. Designed for bottom mounting in 1-1/8" round hole. Two 5/32" diameter mounting holes on 1-1/2" centers.

Number	Contacts	List
74-8	8 Octal, Black Bakelite	\$.14

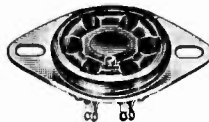
High Voltage Safety Sockets



For rectifier and other tubes with base diameter of 1.156". Socket is set at the bottom of a deep molded Bakelite shell. Heavy steel mounting plate molded into shell has 5/32" diam. mounting holes on 1-7/8" centers. Socket mounts from above or below in 1-1/2" round hole.

Number	Contacts	List
77A-4T	4 Contacts, Mica-filled	\$1.51

Replacement Sockets



Regular "S" sockets, assembled with No. 4 retainer ring to steel mounting plate with slotted holes to fit mounting centers from 1-1/2" to 1-7/8".

Black Bakelite	List	Contacts	Steatite	List
78-RS4	\$.14	4 Contacts	49-RSS4	\$.48
78-RS5	.14	5 Contacts	49-RSS5	.48
78-RS6	.14	6 Contacts	49-RSS6	.48
78-RS7C	.18	7 Comb.		
78-RS7L	.14	7 Large	49-RSS7L	.61
78-RS7S	.14	7 Small	49-RSS7S	.48
78-RS8	.18	8 Octal	49-RSS8	.48
78-RS8L	.22	8 Loktal		
78-RS9	.22	9 Octal style		
78-RS11	.30	11 Octal style		

Floating Octal Sockets



Live rubber grommets fit into mounting holes to cushion this socket for vibration-free operation. Black bakelite dielectric. Mounts in 1-3/16" round hole above or below chassis. Two 1/4" screw holes on 1-1/2" centers.

Number	Description	List
77-MIP-8FK	Octal. Complete with 4 rubber grommets, 2 mounting screws, nuts and washers	\$.39
11-3K	Kit for making floating connections using Amphenol MIP Sockets. 4 grommets, 2 mounting screws, nuts and washers only	.24

Tube Shield and Spring Assemblies



Number	Height	Description	List
5-401	1-3/8"	For 7 Pin Miniature Sockets	\$.14
5-402	1-3/4"	For 7 Pin Miniature Sockets	.14
Tube Shields No. 5-401 and 5-402 are used with Sockets No. 59-367, 147-905, 147-913, 147-925, 147-955 and 147-963.			
5-405	1-1/2"	For Noval Sockets	.20
5-408	1-15/16"	For Noval Sockets	.24
5-409	2-3/8"	For Noval Sockets	.24
Tube Shields No. 5-405, 5-408 and 5-409 are used with Sockets No. 59-369, 59-406 and 59-407.			

MINIATURE 7 AND 9 PIN SOCKETS

ZIP-IN, Ethylon-A



Molded of Ethylon-A with high "Q" factor. Mounting plate has .136" diameter holes on 1-5/16" centers. Round chassis holes are 27/32" for 7 pin and 15/16" for 9 pin.

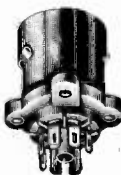
Number	Description	List
59-357	7 Pin. Without tube shield base	\$.21
59-367	7 Pin. With tube shield base	.27
59-359	9 Pin. Without tube shield base	.51
59-369	9 Pin. With tube shield base	.61



Above—Bottom Mounted
Right—Top Mounted with Tube Shield Base



Above—Rubber Mounted
Right—Rubber Mounted with Tube Shield Base



Bakelite and Steatite Sockets

Used for television, FM, auto radios, portables, etc. 147 Series mount in 5/8" chassis hole; mounting centers 7/8"; screw holes 1/8". 59 Series mount in 3/4" chassis hole; mounting centers 1-1/8"; rivet holes .095".

Bottom Mounting—No Tube Shield Base

Number	Contacts	Dielectric	List
147-500	7	Black Bakelite	\$.24
147-501	7	Steatite	.51
59-409	9	Black Bakelite	.39
59-410	9	Mica-Filled Bakelite	.40

Top Mounting—With Tube Shield Base

147-905	7	Black Bakelite	.39
147-913	7	Mica-Filled Bakelite	.40
147-925	7	Steatite	.63
59-406	9	Black Bakelite	.56
59-407	9	Mica-Filled Bakelite	.57

Rubber Mounted—No Tube Shield Base

147-502	7	Black Bakelite	.25
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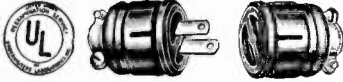
Rubber Mounted—With Tube Shield Base

147-955	7	Black Bakelite	.50
147-963	7	Mica-Filled Bakelite	.51



Shielded Cable Connectors, 110—250 Volt

End Cable Outlet—For cables up to 1/2" diameter



Fully shielded cable terminals with black Bakelite connector units encased in a tight cap that fits securely and is easily removed. Available with cable clamp that

relieves soldered connections of strain, or with rubber grommets for protection against abrasion.

With Cable Clamp

Part No.	List	Description	Part No.	List
60-F11	\$.66	3 Pole Receptacle	60-F4	\$.60
60-M11	.66	3 Pole Polarized Plug	60-M4	.60
61-F11	.54	2 Pole Universal Receptacle	61-F4	.48
61-M11	.54	2 Pole Standard Plug	61-M4	.48
61-MP11	.54	2 Pole Polarized Plug	61-MP4	.48

Flush Motor Plug, 110—250 Volt

Neat, compact plug or receptacle set in type 61-61 steel shell for below surface mounting. Room for insertion of Amphenol End Cable Outlet Plugs.

Number	Description	List
61-F10	2 Pole Universal Receptacle	\$.48
61-M10	2 Pole Standard Plug	.48
61-MP10	2 Pole Polarized Plug	.48

Molded-In-Plate Receptacle



Same as 61-F Receptacle with standard steel mounting plate molded into the Bakelite body. Mounts in 1-3/16" chassis hole; two 5/32" screw holes on 1-1/2" centers.

No. 61-MIP-61F 2 Pole Universal Receptacle.....List.....\$.30

Miniature Cable Connectors



Short Long Flared

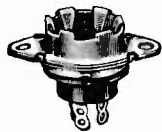
For shielded or unshielded cables having up to 6 conductors. Black Bakelite elements are housed in cadmium plated brass shells and are held in place by side set screws. Polarized contact spacing makes incorrect insertions impossible. Accommodates cable up to 1/4" diameter.

Short Shell—13/16" Long				
Male	List	Description	Female	List
91-MPM3S	\$.36	3 Contact	91-MPF3S	\$.36
91-MPM4S	.40	4 Contact	91-MPF4S	.40

Long Shell—1-3/16" Long				
Male	List	Description	Female	List
91-MPM3L	\$.36	3 Contact	91-MPF3L	\$.36
91-MPM4L	.40	4 Contact	91-MPF4L	.40
91-MPM5L	.45			
91-MPM6L	.45			

Flared Shell—1-3/16" Long				
Male	List	Description	Female	List
91-MPM3F	\$.36	3 Contact	91-MPF3	\$.36
91-MPM4F	.40	4 Contact	91-MPF4	.40

Shielded Chassis Units



Economical chassis receptacles for connecting shielded or unshielded cables having from 2 to 6 conductors (for 2 wire cable use 3 contact unit and leave 1 contact unwired). Black Bakelite element; steel mounting plate. Can be mounted on surface or behind chassis or panel in 7/8" D. hole; 5/32" screw holes on 1-1/4" centers. Use with long shell cable connector above for a fully shielded connection.

Female	Description	List
78-PCG3F	3 Contact	\$.36
78-PCG4F	4 Contact	.36
78-PCG5F	5 Contact	.41
78-PCG6F	6 Contact	.41



Alignment Tool

Made of Amphenol 912-A polystyrene. Has no capacity effect when aligning critical circuits. A necessary tool for anyone who must make adjustments on high frequency circuits.

No. 55 U.H.F. Alignment Tool (minimum order 24).....List \$.25
Illustrated above is the colorful sales card on which are mounted 24 Amphenol Alignment Tools.

No. 55-024 Sales Card with 24 Alignment Tools.....List \$6.00

Shielded Multi-Wire Cable Connectors



Multi-wire cable connectors consist of Amphenol "S" type tube sockets and "CP" plugs. Metal cap shields connections and provides an unbreakable cover for cable termination. Cap may be removed with an ordinary screw-

driver. Accommodates cable up to 7/16" diameter. Female chassis receptacles or sockets 78-S, 78-RS and 77-MIP; male receptacles are listed below.

With Rubber Grommets

With Rubber Grommet Type Plug Cap 3-13.

Female	List	Contacts	Male	List
78-PF4	\$.31	4 Contact	86-PM4	\$.31
78-PF5	.31	5 Contact	86-PM5	.31
78-PF6	.31	6 Contact	86-PM6	.31
78-PF7L	.31	7 Large	86-PM7L	.31
78-PF7S	.31	7 Small	86-PM7S	.31
78-PF8	.35	8 Octal	86-PM8	.35
78-PF9	.39	9 Octal Style	86-PM9	.39
78-PF11	.47	11 Octal Style	86-PM11	.47

With Cable Clamps

With positive grip Cable Clamp Type Plug Cap 3-24.

Female	List	Contacts	Male	List
78-PF4-11	\$.37	4 Contact	86-PM4-11	\$.37
78-PF5-11	.37	5 Contact	86-PM5-11	.37
78-PF6-11	.37	6 Contact	86-PM6-11	.37
78-PF7L-11	.37	7 Large	86-PM7L-11	.37
78-PF7S-11	.37	7 Small	86-PM7S-11	.37
78-PF8-11	.41	8 Octal	86-PM8-11	.41
78-PF9-11	.45	9 Octal Style	86-PM9-11	.45
78-PF11-11	.53	11 Octal Style	86-PM11-11	.53

Male Receptacles

Extremely compact. Held firmly in place by Amphenol patented retaining ring. Can be rotated to line up contacts for shortest possible leads. Nickel-plated steel mounting plate has slotted screw holes centers from 1-1/2 to 1-7/8".

Number	Contacts	List
86-RCP4	4 Contact	\$.14
86-RCP5	5 Contact	.14
86-RCP6	6 Contact	.14
86-RCP-7L	7 Large	.14
86-RCP-7S	7 Small	.14
86-RCP8	8 Octal	.18
86-RCP9	9 Octal Style	.22
86-RCP11	11 Octal Style	.30



Female plugs are shown above, other styles can be made by assembling "S" type sockets with plug caps.

Rubber Plug Handle



End cable outlet receptacles or plugs (PF and PM or 61-F4 types) snap into this rubber handle and are held securely in place by a live rubber inner molded shoulder. Illustration is cut away to show how connector is gripped by plug handle.

3-RPH Plug Handle Only.....List \$.19

16" TV TUBE MOUNTING ACCESSORIES

For metal and glass tubes



Tube mounting bracket for tube protection in shipping and vibration-free reception—live rubber cushions. Base is molded of polystyrene and holding straps are of fibre laminated phenolic. Easily attached to chassis or cabinet.

155-360 16" Tube Mtg. Bracket
List \$7.30 ea.



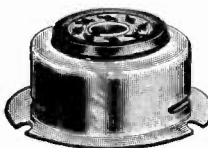
Molded Polyethylene Rim provides a superior mounting using conventional methods. Better protection for tubes and adequate insulation especially where the rim is joined. The unique overlapping provides long creepage paths. Heavy, uniform wall thickness. Outer groove provides for safety or masking glass.

Number	Description	List
187-072	Rim for 16" TV Tube	\$3.65
187-079	Same less safety glass groove	3.35



Cross-section

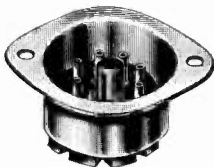
Receptacle Shells



ACS Shell extends "CP" or "S" type sockets or plugs 13/16" above or below surface. 4 knockouts in sides. Mounts in 1-3/4" hole; has 3 notched holes for No. 6 screws.

Number	Description	List
23-1S	For small "S" Sockets	\$.12
23-1L	For large "S" Sockets	.12

61-61 Shell. Nickel plated steel shell, lowers bottom of "CP" and "S" type plugs and sockets and 60 and 61 connectors 1-3/16" below surface. Mounts in 1-7/16" hole; two 5/32" screw holes on 1-3/4" centers.



No. 61-61 Shell only List \$.18

Tip Jacks

Molded of Bakelite in black or red. Mount in 3/8" hole with retainer ring included. Use standard phone tips for 78-1P1, and 78-1 Contacts recessed 1/8". The body may be used as a feed-thru.



Number	Description	List
78-1S	For 3/32" Plug	\$.09
78-1L	For 5/32" Plug	.09
78-1M	For 1/8" Plug	.09
78-1P	For .080 Phone Tip	.09
78-1P1	High Voltage for .080 Phone Tip. Mounts in 1/2" hole	.12



Single Prong Plugs

Bakelite Plugs, black or red, for use with Tip Jacks above.

Number	Description	List
71-1S	For 3/32" Socket	\$.06
71-1M	For 1/8" Socket	.06
71-1L	For 5/32" Socket	.06

Inserts and Shells for Cable Plugs, Connectors and Receptacles. For Assembly into Type Required



Retainer Ring Type Number	List
61-F	\$.30
60-F	.42

Retainer Ring Type Number	List
61-M	\$.30
61-MP	.30
60-M	.42



"S" Socket (Listings on page 4).



"CP" Plug

For 110-250 Volt Plugs and Receptacles



Compact in design, molded from high dielectric black Bakelite. Rated at 15 amp., 110 v. or 10 amp., 250 v. Two-pole type accepts any standard electric plug. Retainer ring type mounts in 1-11/64" keyed hole as punched by Tools 25-LD-1. Mounting plate type requires 1-9/32" D. chassis hole; has slotted screw holes on 1-1/2 to 1-7/8" centers—Mounting plate type is similar to Type "RS" Replacement Sockets.

Receptacles

Description	With Mounting Plate Number	List
2 Pole, Universal	61-F1	\$.34
3 Pole, Polarized	60-F1	.46

Plugs

Description	With Mounting Plate Number	List
2 Pole, Standard	61-M1	\$.34
2 Pole, Polarized	61-MP1	.34
3 Pole, Polarized	60-M1	.46

For Multi-Wire Plugs and Receptacles

For quick, easy assembly to chassis or panels from 19 to 16 gage (.044 to .062") using Amphenol retainer ring. Black Bakelite or steatite. Cadmium plated socket contacts as easy soldering; plug prongs are nickel plated brass; rotation feature for lining up contacts. Complete with retainer ring.

Can be assembled in any of the plug caps or receptacle shells below. For chassis mounting in 1-11/64" keyed hole as punched by Tools 25-LD-1.

"CP" Plugs

Black Bakelite	List	Contacts	Steatite	List
86-CP4	\$.13	4 Prong	49-245-00	\$.49
86-CP5	.13	5 Prong	49-255-00	.49
86-CP6	.13	6 Prong	49-265-00	.49
86-CP7L*	.13	7 Large		
86-CP7S	.13	7 Small		
86-CP8	.17	8 Prong, Octal	49-285-00	.49
86-CP9	.21	9 Prong, Octal Style		
86-CP11	.29	11 Prong, Octal Style		

* Mounts in 1-21/64" keyed hole. Use 25-LD-2.

Plug Caps for Every Purpose



3-10



3-12



3-13



3-17



3-24

Cable terminals can be assembled with these plug caps, using retainer ring type plugs, sockets and 60 and 61 series shown above. Plug caps are designed to fit all but the 7-large and 7-combination sizes. For 7-large and 7-comb. use Plug Cap 3-13L shown below.

Number	Length	End Hole	Side Hole	Grommet	List
3-10	1"	None	None	None	\$.18
3-12	1"	5/16"	None	Metal	.18
3-13	1"	7/16"	None	Rubber	.18
3-17	1"	None	7/16"	Rubber	.18
3-24	Cap with Cable Clamp attached. Accommodates cables to 1/2" diameter.				.24
79-CC4	Cable Clamp only. Same as used on Cap 3-24.				.12
3-13L	Cap for large 7 Socket and Plugs, end rubber grommet 7/16" ID.				.24

Crystal Holder Socket



Molded of mica-filled Bakelite for crystal holders having 2 prongs on 3/4" centers. Easily mounted. May be used as dual tip jacks on test panels.

Number	Description	List
33-2T	For 1/8" Prongs	\$.17
33-3T	For 5/32" Prongs	.17



Heavy Duty Power Plugs

Male unit has four heavy brass blades; female has heavy phosphor bronze contacts. For use with current loads up to 15 amperes at 125 volts or 10 amperes at 250 volts. Molded black Bakelite unit is enclosed in tight, heavy brass shell . . . bright cadmium plated. Polarized with shell keys and keyways. Strain is taken up by concealed cable clamp. Grounding screw in body for safe wiring. Threaded locking ring keeps shells tight. Chassis or panel receptacle mounts in 1 1/4" hole in any material up to 1/2" thick. Complete with lock washer, spacer washer and nut.



Plug



Jack



Receptacle

Mating parts are arranged in same horizontal line below.

Number	Contacts	List	Number	Contacts	List	Number	Contacts	List
92-M	Male	\$3.01	92-F	Female	\$3.01	92-C	Female	\$3.01
92-F1	Female	3.01	92-M1	Male	3.01	92-C1	Male	3.01

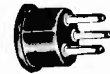


Molded Speaker Plugs

Prongs are securely molded into one-piece black bakelite body. Each prong is deeply set into individually molded pocket, eliminating the possibility of shorts in case of pull-back of wire insulation.

With Finger Grip	Prongs	List	With Straight Sides	Prongs	List
71-4	4	\$.13	70-8	8	\$.17
71-5	5	.13	70-9	9	.21
71-6	6	.13	70-12	12	.30
71-7	7	.13	70-20	20	.61

Miniature Plugs



Cable Type used extensively for speaker connections in compact mid-gets. Ideal for all plug-in connections where space is limited. Brass prongs are deeply recessed in molded pockets preventing shorts due to insulation pulling back. With molded finger grip. Use with miniature sockets.



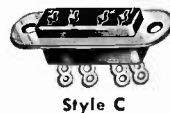
Chassis Type mounts in plain round 5/8" hole. No screws or rivets required. Held firmly by retainer ring included. Use with female miniature connectors (MPF type).

Cable Type	List Price	Description	Chassis Type	List
71-3S	\$.15	3 Prong	86-CP-3S	\$.15
71-4S	.15	4 Prong	86-CP-4S	.15
71-5S	.21	5 Prong		
71-6S	.21	6 Prong		

Rectangular Plugs and Sockets



Style B



Style C

For compact apparatus. Plugs are often used as a supported type self-sustaining coil form.

Number	Style	Prongs or Contacts	List
70-25	B	3	.15
70-26	B	4	.18
Sockets			
77-26	C	4	.30

Flush Receptacles

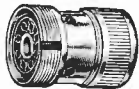


Flush receptacles may be made up of above receptacles and steel yoke for mounting in regular wall switch boxes. Full open end will come thru wall plate 1/8" to grip locking ring.

Number	Description	List
92-12	Cadmium plated steel yoke only. With mtg. screws	.18
79-CCC8	Cap and Chain. Seals receptacles above and below	.61

Heavy Duty Radio Connectors

The plugs shown in bold face type mate with jacks and receptacles listed in bold type in the same horizontal line. For numbers in light faced type follow the same procedure . . . plugs mate with jacks and receptacles in the same horizontal line. Bold type also designates the most popular units.



Contacts	Plug		Jack		Receptacle		List
	Male	Female	Female	Male	Female	Male	
4	79-04M	79-04F1	79-04F	79-04M1	79-P04F	79-P04M	\$1.51
5	79-05M	79-05F1	79-05F	79-05M1	79-P05F	79-P05M	1.51
6	79-06M	79-06F1	79-06F	79-06M1	79-P06F	79-P06M	1.51
8	79-08M	79-08F1	79-08F	79-08M1	79-P08F	79-P08M	1.51
12	79-012M	79-012F1	79-012F	79-012M1	79-P012F	79-P012M	2.41

Bulb Tester and Tube Socket



Standard 7 contact combination socket for large and small 7 prong tubes. For testing miniature bulbs, either screw or bayonet types.

Number	Description	List
78-7CD	With retainer ring	\$.53

Adapters

A simple way to make adapter units which may be used for modernizing tube checkers and analyzers, adapting new tubes to old circuits and for connections to output meter, phonograph pickup, etc.



Socket Tops Only			Bases Only		
Number	Contacts	List	With side stud accommodating a metal tube grid cap clip. Both tops (left) and bases are drilled for self-tapping screws which are supplied with bases.		
44-8	8 Octal	.24	Number	Prongs	List
			50-8SG	8 Octal	.36

For testing new 9 pin miniature tubes.

44-9	9 Noval	.45
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Shell Only

Of metal tubing for snap-in connection on either end of Amphenol "S" type sockets or "CP" plugs. Combinations possible from 4 to 11 prongs or contacts.

No. 3-14D	With side hole, rubber grommet	List \$.24
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Tap Change Switch



An 8-position single pole continuous switch with white markings clearly visible in window cap. Side set screw locks switch arm in position preventing accidental tap changes.

Number	Description	List
36-1	With numerals 1 to 8	\$.90
36-2	With impedance markings 0-2-4-8-16-250-500	.90

Universal Grid Cap



A grid cap of improved design for universal use with tube grid caps from 1/4 to 3/8" diameter including standard glass and metal tubes. Spring brass contacts in phenolic body.

63-1	Unwired Grid Cap	List Price \$.18
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AMERICAN PHENOLIC CORPORATION

1830 SOUTH 54TH AVENUE, CHICAGO 50, ILLINOIS

Series 75 Microphone Connectors—Single Contact

Fit almost every microphone. Standard with leading manufacturers for many years. Compact, rugged, neat. Chassis receptacles are integral parts of microphones using single conductor cable. Widely used in amplifiers, transmitters, photoelectric devices, home recorders and similar equipment. They are also suitable for connecting various units such as PM speakers, headphones, and for theft alarms or wall type coin operated devices, etc.

In the 75 Series, plugs mate with all cable jacks and receptacles. Circuit closing contacts are the same except that they close the circuit when plug is disengaged, eliminating open circuit grid howls.

Locknut Receptacles mount in .385" holes when grounding to chassis and 1/2" holes for ungrounded 2 circuit applications.

Angle Plug		Straight Plug		Cable Jack		Locknut Receptacles	
Contact	List	Contact	List	Contact	List	Contact	List
75-MC1F-A Flush	\$.66	75-MC1F Flush	\$.55	75-MC1M Flush	\$.44	75-PC1M Flush	\$.33
						75-CL-PC1M Cl. Cr.	.44

Cap and Chain



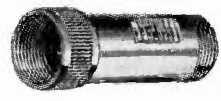
Seals open chassis units against dirt and dust. Also used with 80 Series Connectors. 75-CCC1. List \$.55 Cl. Cr. Closed Circuit.

Phone Plug Adapter



Screws into coupling ring of 75-MC1F and 75-MC1F-A plugs, permitting the cable to be plugged into any standard phone jack. No soldering or wiring.
75-MC1P.....List \$.49

Microphone Switch



Threaded on one end, coupling ring on the other end. For 75 Series Connectors. May be connected directly to any mike equipped with 75-PC1M or similar receptacle. Push-to-talk or slide button for permanent connection.
75-MC1S.....List \$1.10

Series 80 Microphone Connectors—Single and Double Contacts



Plugs			Cable Jacks			Locknut Receptacles		
Contact	Type	List	Contact	Type	List	Contact	Type	List
SINGLE CONTACT								
80-M	M	\$.71	80-F	F	\$.71	80-C	F	\$.44
80-F1	F	.71	80-M1	M	.71	80-C1	M	.44
TWO CONTACTS								
80-MC2M	M	.88	80-MC2F	F	.88	80-PC2F	F	.49
80-MC2F1	F	.88	80-MC2M1	M	.88	80-PC2M	M	.49

Series 80 Cable Connectors are designed for shielded cables; for single and two conductor coaxial cables, microphone cables; for twisted pairs, concentric lines, photo cell leads, patch cords and similar uses. Suitable for connecting model railroad equipment, pin ball games and other small electrical apparatus. Elements are high dielectric black Bakelite. Receptacles mount in 5/8" chassis holes. Maximum chassis thickness for locknut type receptacles is 11/32".

Mating families of connectors are listed in horizontal lines.

The most popular connectors are shown in bold face type.

Cap and Chain required is 75-CCC1.

M Male. F Female.

Series 91 Microphone Connectors—3 and 4 Contacts

Extensively used on all types of portable apparatus, these connectors were designed primarily to use with microphones. Some of the advantages of Amphendol Microphone Connectors...

- Accidental disconnections are eliminated by a positive screw-type connection.
- Incorrect insertions are impossible because connectors are polarized.

- Pulling and twisting strain on soldered contacts is eliminated because a squeeze-type clamp grips cable securely after assembly.

Chassis receptacles mount in 27/32" chassis holes. Maximum chassis thickness for chassis receptacle is 1/8".

Mating families of connectors are listed in horizontal lines.

Plugs			Cable Jacks			Chassis Receptacles		
Contact	Type	List	Contact	Type	List	Contact	Type	List
THREE CONTACTS								
91-MC3M	M	\$1.10	91-MC3F	F	\$1.10	91-PC3F	F	\$.55
91-MC3F1	F	1.10	91-MC3M1	M	1.10	91-PC3M	M	.55
FOUR CONTACTS								
91-MC4M1	M	1.20	91-MC4F	F	1.20	91-PC4F	F	.60
91-MC4F1	F	1.20	91-MC4M1	M	1.20	91-PC4M	M	.60

Side Cable Outlet



Provide an outlet for microphone cable where it is not practical to run the cable thru the stand. For use between microphones and stands having 5/8-27 threads.

91-SCO3.....List \$. 82

Cap and Chain

For 91 Series Connectors. Same construction and material as No. 75-CCC1.

No. 91-CCC3.....List \$.55

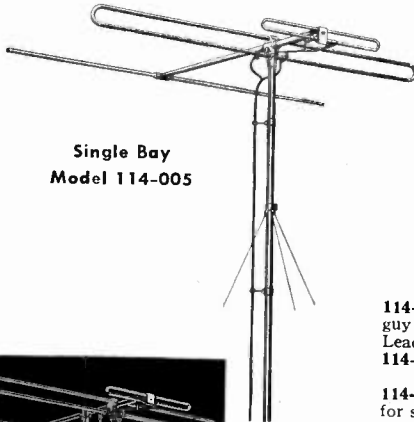
M Male. F Female. The most popular connectors are shown in bold face type.



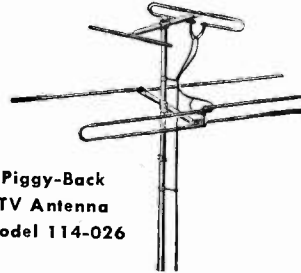
Television Antennas

Engineered and perfected in the Amphenol Antenna Development Laboratories, the antennas illustrated and described on this page will provide unsurpassed reception of FM and TV signals. Top-quality

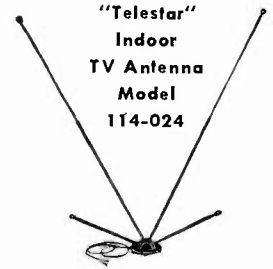
materials, rugged construction and the latest in design are incorporated into each Amphenol antenna to provide perfect performance. Each antenna packaged complete with instructions for easy installation.



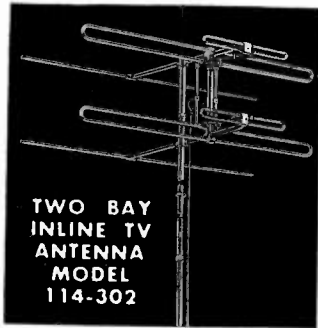
Single Bay
Model 114-005



Piggy-Back
TV Antenna
Model 114-026



"Telestar"
Indoor
TV Antenna
Model
114-024



TWO BAY
INLINE TV
ANTENNA
MODEL
114-302

114-005 TELEVISION ANTENNA ARRAY, complete with mast, swivel mounting plate, guy clamp, necessary hardware, stand-off insulators and 75 ft. Amphenol 300 ohm Twin-Lead..... **List ea. \$19.50**

114-009 Same less transmission line..... **List ea. 17.00**

114-301 SINGLE BAY for building 114-005 into a Stacked Array includes connecting rods for symmetrical feed, two box brackets, two 5-foot lengths of 1-1/4" Mast, guy ring and stand-off insulators..... **List ea. \$20.50**

114-302 TWO BAY TV STACKED ARRAY consists of a top and bottom bay, connecting rods, two box brackets, two 5-foot lengths of 1-1/4" mast, guy ring and stand-off insulators. Twin-Lead transmission line is not included..... **List ea. \$35.00**

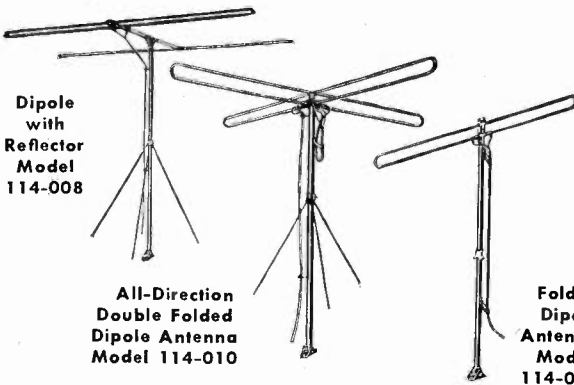
114-026 PIGGY-BACK TV ANTENNA consists of one folded dipole and reflector for each band which may be oriented individually, phasing leads, guy clamp, stand-off insulators and 75 ft. Amphenol Twin-Lead..... **List ea. \$19.50**

114-029 Same less transmission line..... **List ea. 17.00**

114-024 INDOOR TV ANTENNA "TELESTAR" has low-loss polystyrene base with rubber feet to protect furniture. Light weight aluminum rods are pre-tuned for receiving all channels. Five-foot natural color polyethylene 300 ohm Twin-Lead is included.

List ea. \$4.95

FM Antennas



Dipole
with
Reflector
Model
114-008

All-Direction
Double Folded
Dipole Antenna
Model 114-010

Folded
Dipole
Antenna
Model
114-001

114-008 DELUXE FM FOLDED DIPOLE WITH REFLECTOR, complete with mast, mounting plate, insulators, guy clamp, hardware and 75 ft. Amphenol 300 ohm Twin-Lead..... **List ea. \$16.25**

114-023 Same less transmission line..... **List ea. 12.65**

114-010 DELUXE FM ALL-DIRECTION DOUBLE FOLDED DIPOLE ANTENNA, complete with quarter-wave phasing stub, mast, mounting plate, guy clamp, hardware, insulators, and 75 ft. Amphenol 300 ohm Twin-Lead..... **List ea. \$16.25**

114-015 Same less transmission line..... **List ea. 12.65**

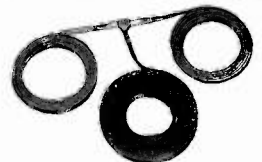
114-001 FM FOLDED DIPOLE ANTENNA, complete with mast, swivel mounting plate, insulators, guy clamp, necessary hardware and 75 ft. Amphenol 300 ohm Twin-Lead..... **List ea. \$12.25**

114-012 Same less transmission line..... **List ea. 8.65**

Twin Lead Folded Dipole Amateur Antennas

The finest ready-made amateur transmitting antenna ever developed. Ready-cut to the four most popular bands. Broadband characteristics. Excellent for your regular transmitting antenna, as an auxiliary antenna or for portable or field day use. Flat top portion is Amphenol 14-022 with copper clad steel conductors, 75 foot lead-in is Amphenol 14-056 joined to top with molded "T" junction. Packaged complete with easy installation instructions.

A real DX antenna, cut-to-band, in use by thousands of amateurs.



Amphenol Number	Frequency	Band	Antenna Length	Price
139-813	28 mc	10 Meters	18 feet	\$ 7.70
139-815	14 mc	20 Meters	35 feet	9.60
139-816	7 mc	40 Meters	70 feet	13.50
139-817	3.5 mc	80 Meters	135 feet	20.75

AMPHENOL

AMERICAN PHENOLIC CORPORATION

Twin-Lead Transmission Lines

Illustrated are 14-056 Flat Twin-Lead and 14-271 Tubular Twin-Lead.



Coil of 300 ohm Twin-Lead 14-056 packaged in handy carton.

Number	List
184-801 75 ft.	\$2.55
184-802 100 ft.	3.40

Convenient, efficient Amphenol Twin-Lead is the first choice of amateurs for construction of antennas and transmission lines. It transmits signals with minimum losses... it's durable... inexpensive... simple to install... repels water... is unaffected by acids, alkalis and oils because the dielectric is Amphenol Polyethylene. Remains flexible at -70°C . and after continuous aging in sunlight.

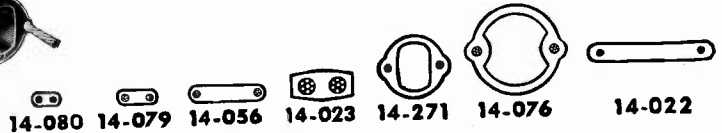
Receiving Twin-Lead*

	List Per 1000 ft.
300 ohm Twin-Lead for FM and TV Antennas	
14-056 (500) & (1000) Standard, brown polyethylene insulation.....	\$32.00
14-318 (500) & (1000) White semi-clear polyethylene for indoor TV.....	32.00
14-271 (500) & (1000) Tubular for deluxe FM and TV.....	83.50
150 ohm Twin-Lead for experimental work	
14-079 (500) & (1000) Reels of 500 and 1000 feet.....	36.00
75 ohm Twin-Lead for lower impedance applications	
14-080 (500) & (1000) Reels of 500 and 1000 feet.....	33.00

Amateur Transmitting and Copper Clad Types of Twin-Lead*

	List per Foot
75 ohm Twin-Lead for transmitting, rated 1 KW RF power	
14-023 (500) & (1000) Reels of 500 and 1000 feet.....	\$.12
300 ohm Tubular Twin-Lead rated 1 KW RF power	
14-076 (500) & (1000) Reels of 500 and 1000 feet.....	.12
300 ohm Extra-Strength Twin-Lead with copper clad conductors	
14-022 (500) & (1000) Reels of 500 and 1000 feet.....	.12

* Twin-Lead is supplied in reels of 500 and 1000 feet as indicated by (500) and (1000) in the part number.



Antenna Accessories

Stand-Off Insulators



66-201

66-202



66-909

Screw eye insulators have low-loss polyethylene inserts. Twin-Lead types accommodate 14-056, 14-079 and 14-080. Coax types accommodate coax and other cable not exceeding 1/2" diameter. Wood screws are No. 14 and machine screws have 10-32 thread.

Twin-Lead Type Coax or Tubular Type

	List	List
Wood Screws 66-202 3" length, ea.	\$.06	66-201 3" length, ea. \$.07
66-209 7 1/2" lgth, ea.	.09	66-208 7 1/2" lgth, ea. .10
Mach. Screws 66-204 3" length, ea.	.08	66-203 3" length, ea. .09
66-210 7 1/2" lgth, ea.	.12	

Polystyrene stand-off insulators space Twin-Lead 1-5/16" from mounting surface. Perfect insulation.

66-909 for 14-056 300 ohm Twin-Lead..... List ea. \$.0835

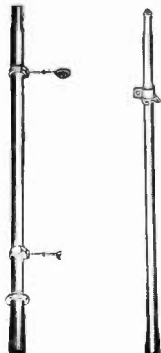
Antenna Mast Extensions

Television Mast Extension for 114-302 two bay television antenna and other 1-1/4" diameter antenna masts. Consists of 5 foot length of 1-1/4" diameter alloy steel tubing, guy ring and two clamp type stand-off insulators.

114-291..... List ea. \$6.00

FM and Television Mast Extension for all Amphenol FM and Television antennas except the two bay antenna which requires the mast extension listed above. Consists of 5 foot length of 1" steel conduit and guy wire clamp.

114-300..... List ea. \$3.00

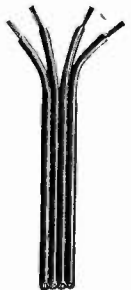


Remote Control Wire

For wiring antenna rotators and other low voltage remote controls such as miniature electric trains. Recommended for circuits up to 28 volts. For easy wiring, each conductor with its insulation may be ripped apart without exposing the conductor. Conductors are 7/28 copper wire with one conductor tinned to facilitate tracing. High dielectric polyethylene insulation is weatherproof.

List per 1000 ft.

14-316 (500) & (1000)	3 conductor Reels of 500 and 1000 ft.....	\$45.00
14-298 (500) & (1000)	4 conductor Reels of 500 and 1000 ft.....	50.00
14-317 (500) & (1000)	5 conductor Reels of 500 and 1000 ft.....	57.70



Polystyrene Line Spreaders



2" spacing

66-205..... List ea. \$.15

For separating feeder lines and construction of folded dipole antenna from wire. Wire holes .085" diameter.

4" spacing

66-206..... List ea. \$.20

6" spacing

66-207..... List ea. \$.25

Lightning Arrestor For Antennas

Attaches to 14-056 300 ohm Twin-Lead without cutting the conductors. Designed to meet the requirements of the Underwriters' Laboratories. Molded of high grade electrical phenolic with conducting plate and gap molded in. Precise gap spacing is maintained. Self contained also is a high resistance shunt permanently sealed against moisture. Overall dimension 1-7/8"x2"x3/4".

155-338..... List ea. \$1.40



COAXIAL CABLES AND CONNECTORS • INDUSTRIAL CONNECTORS, FITTINGS AND CONDUIT • ANTENNAS • RADIO COMPONENTS • PLASTICS FOR ELECTRONICS

AMPHENOL

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Amphenol Coax and Twinax RG Cables

Fully approved and produced in accordance with Army-Navy specifications (JAN-C-17A). These specifications utilize the very fine dielectric properties of polyethylene, proven most efficient as a low-loss, flexible, mechanically stable dielectric. The outer jacket in most of Amphenol's approved types is tough, resistant vinyl... protective, nonhygroscopic, and impervious to exposure to acids, alkalis, oils and gasoline. Polyethylene is also used as outer jacket for some of the types listed.

Polyethylene is processed in strict accordance with Bureau of Ships Specification RE-9172. It should be emphasized that unusually strict standards are applied to every operation in the processing of Amphenol's RG cables. Rigid laboratory tests and process checks, plus Amphenol's "OK" certification and notarized affidavit on every unit shipment is final assurance of extra quality and dependability.



RG-5/U
21-001

50 ohm Coax Cable with medium size, solid copper conductor, double copper shield and black vinyl jacket.



RG-8/U
21-004

50 ohm Coax Cable with medium size, stranded copper conductor, single copper shield and black vinyl jacket.



RG-11/U
21-007

70 ohm Coax Cable with medium size, stranded tinned-copper conductor, single copper shield and black vinyl jacket.



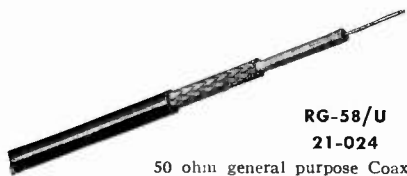
RG-22/U
21-038

95 ohm Twinax Cable with two small size, stranded copper conductors, single tinned-copper shield and black vinyl jacket.



RG-57/U
21-039

95 ohm Twinax Cable with two medium size stranded copper conductors, single tinned-copper shield and black vinyl jacket.



RG-58/U
21-024

50 ohm general purpose Coax Cable with a small size, solid copper conductor, single tinned-copper shield and black vinyl jacket.

Polyethylene Characteristics

Specific Gravity	92
Water Absorption	.005%
Cold-Brittleness	-70° C.
Dielectric Constant, 60 cycles to 100 mc.	2.29
Power Factor, 60 cycles to 100 mc.	.0004
Volume Resistivity, ohm-cm.	10 ¹³
Softening Temperature, transparency point	103-105° C.

RG Cables

Chart shows characteristics and dimensions of RG Cables manufactured by Amphenol. Further specifications and prices on request. Impedance subheads below are approximate... for the purpose of grouping. Nominal impedance is shown in the third column.

Abbreviations used in chart: C—Copper
CW—Copperweld
N—Nichrome
Poly.—Polyethylene
S—Silvered Copper
T—Tinned Copper

Amphenol No.	Army-Navy No.	Nominal Impedance	Nominal mmf ft.	Conductor Wire Size	Dielectric O.D.	Inner Shield	Outer Shield	Vinyl Jacket	Jacket O.D.	List per Foot
50 Ohm Group										
21-018	RG-29/U	53.5	28.5	20	.116	T	..	Poly.	.184	.13
21-024	RG-58/U	53.5	28.5	20	.116	T	..	Black	.195	.11
21-199	RG-58A/U	52	28.5	19-.0073	.116	T	..	Black	.195	.13
21-023	RG-55/U	53.5	28.5	20	.116	T	T	Poly.	.206	.25
21-001	RG-5/U	52.5	28.5	16	.185	C	C	Black	.332	.25
21-017	RG-21/U	53	29	16N	.185	S	S	Grey	.332	.46
21-004	RG-8/U	52	29.5	7-21	.285	C	..	Black	.405	.22
21-006†	RG-10/U	52	29.5	7-21	.285	C	..	Grey	.405	.39
21-005	RG-9/U	51	30	7-21 S.	.280	S	C	Grey	.420	.46
21-231	RG-9A/U	51	30	7-21 S.	.280	S	C	Grey	.420	.46
21-010	RG-14/U	52	29.5	10	.370	C	C	Grey	.545	.46
21-041†	RG-74/U	52	29.5	10	.370	C	C	Grey	.545	.75
21-013	RG-17/U	52	29	.188	.680	C	..	Grey	.870	1.33
21-014†	RG-18/U	52	29	.188	.680	C	..	Grey	.870	1.66
21-015	RG-19/U	52	29.5	.250	.910	C	..	Grey	1.120	2.24
21-016†	RG-20/U	52	29.5	.250	.910	C	..	Grey	1.120	2.62
60 Ohm Group										
21-022	RG-54A/U	58	26.5	7-.0152	.178	T	..	Poly.	.250	.16
70 Ohm Group										
21-025	RG-59/U	73	21	22 CW	.146	C	..	Black	.242	.13
21-002	RG-6/U	76	20	21 CW	.185	S	C	Grey	.332	.37
21-007	RG-11/U	75	20.5	7-26 T	.285	C	..	Black	.405	.22
21-008†	RG-12/U	75	20.5	7-26 T	.285	..	..	Grey	.405	.39
21-009	RG-13/U	74	20.5	7-26 T	.280	C	C	Black	.420	.39
21-011	RG-15/U	76	20	15 CW	.370	C	C	Black	.545	.48
21-019	RG-34/U	71	21.5	7-21	.455	C	..	Black	.625	.48
21-020†	RG-35/U	71	21.5	9	.680	C	..	Grey	.870	1.66
21-125**	.....	72	21.5	9	.680	C	..	Grey	.870	1.33
90 Ohm Group										
21-029*	RG-71/U	93	13.5	22 CW	.146*	T	T	Poly.	.250	.28
21-026*	RG-62/U	93	13.5	22 CW	.146*	C	..	Black	.242	.14
21-003*	RG-7/U	97.5	12.5	19	.250*	C	..	Black	.370	.28
21-038	RG-22/U	95	16	Two 7-.0152	.285	T	..	Black	.405	.24
21-039	RG-57/U	95	17	Two 7-21	.472	T	..	Black	.625	.54

* Semi-solid Dielectric

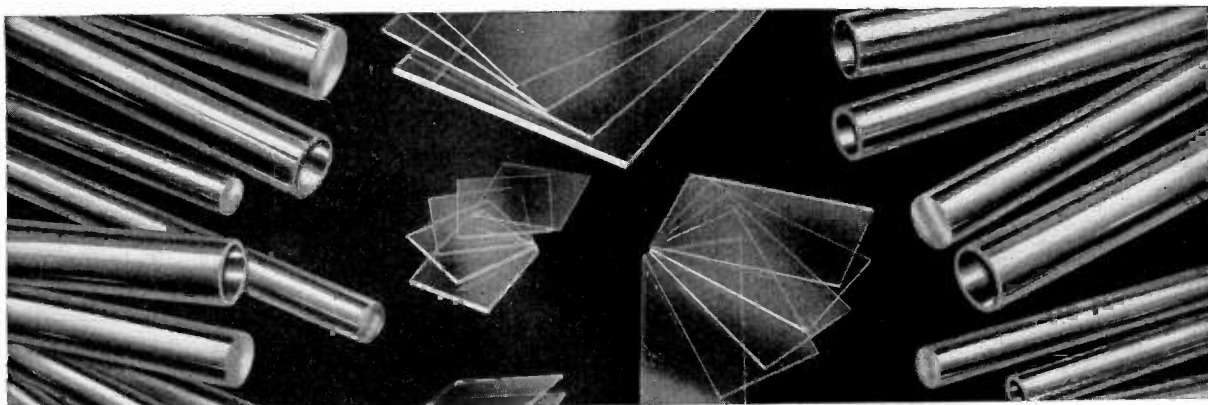
** RG-35/U less armor

† Armored Cable



AMERICAN PHENOLIC CORPORATION

Polystyrene, Polyweld and Coil Forms



BECAUSE of its low-loss factor, Amphenol POLYSTYRENE is used extensively for sockets, insulators and dielectrics in the very-high, ultra high and super high frequency

fields. Further, it is colorless and transparent and does not deteriorate with age. Continuous exposure to sunlight affects its clarity only slightly.

"912-A" Polystyrene Rods

Supplied in 12" and 48" lengths as shown below. Also available in diameters from 1/8" to 4 1/2" in 12" lengths or in lengths up to 48".

List 12" Diam-			List 48"		
Number	Lgth.	eter	Number	Lgth.	
19R125	.04	1/8"	19R125-48	.15	
19R187	.08	3/16"	19R187-48	.31	
19R250	.13	1/4"	19R250-48	.51	
19R312	.20	5/16"	19R312-48	.77	
19R375	.29	3/8"	19R375-48	1.11	
19R500	.52	1/2"	19R500-48	2.00	
19R625	.81	5/8"	19R625-48	3.12	
19R750	1.15	3/4"	19R750-48	4.49	
19R875	1.59	7/8"	19R875-48	6.16	
19R1000	2.15	1"	19R1000-48	8.29	

"912-A" Polystyrene Tubes

Tolerances maintained suitable for radio coil form and electronic applications... supplied in 12" and 48" lengths in various diameters as shown. Wall thickness is 1/16".

List 12" Overall			List 48"		
Number	Lgth.	Diameter	Number	Lgth.	
19T1-062	.10	3/16"	19T1-062-48	.40	
19T2-062	.15	1/4"	19T2-062-48	.55	
19T3-062	.20	5/16"	19T3-062-48	.75	
19T4-062	.25	3/8"	19T4-062-48	.95	
19T5-062	.35	1/2"	19T5-062-48	1.35	
19T6-062	.45	5/8"	19T6-062-48	1.75	
19T7-062	.55	3/4"	19T7-062-48	2.15	
19T8-062	.75	1"	19T8-062-48	2.95	

"912-A" Polystyrene Sheet Stock

Optical clarity suitable for dial window and gage glass applications.

Number	Size	List per Sheet
19-0628	4"x8"x1/16"	\$.28
19-0938	4"x8"x3/32"	.34
19-1258	4"x8"x1/8"	.40
19-1878	4"x8"x3/16"	.50
19-2508	4"x8"x1/4"	.67

Amphenol POLYWELD "912"



Amphenol POLYWELD "912", colorless, transparent and ready-to-use, is pure polystyrene in solution. Matchless for "doping", coating, impregnating or sealing for radio frequency, ultra-high frequency, very-high frequency or general electronics applications. Used as an adherent, POLYWELD joins two sections of polystyrene. It contains solvents which will actually "weld" the surfaces of polystyrene into a single unit of uniform tensile strength.

Description	Polyweld "912"	List
2 oz. Bottle	53-912-2	\$.50
4 oz. Bottle	53-912-4	.65
Pint Container	53-912-P	2.25
Quart Container	53-912-Q	4.00
1 gallon Can	53-912-G	13.35

Description	Thinner	List
2 oz. Bottle	53-916-2T	\$.25
4 oz. Bottle	53-916-4T	.35
Pint Container	53-916-PT	.50
Quart Container	53-916-QT	.80
1 gallon Can	53-916-GT	2.00

Amphenol 912-A Polystyrene Coil Forms



Plug-In Coil Forms—A
Prong spacing fits standard tube sockets. Diameter of coil 1 1/4"; length of body 2 3/4"; Impregnate wound coils with Amphenol "912" Polyweld.

Number	Description	List
24-4P	4 Prong	\$.61
24-5P	5 Prong	.66
24-6P	6 Prong	.73

Miniature Plug-In Coil Forms—B
For transceivers, low power transmitters and UHF receivers.
No. 24-6H 6 Prong... List \$.48

Miniature Coil Forms—C
Raised hole in center of base for self-tapping screw.
No. 24 3/4" OD, 1-9/16" long. List \$.18

COAXIAL CABLES AND CONNECTORS • INDUSTRIAL CONNECTORS, FITTINGS AND CONDUIT • ANTENNAS • RADIO COMPONENTS • PLASTICS FOR ELECTRONICS

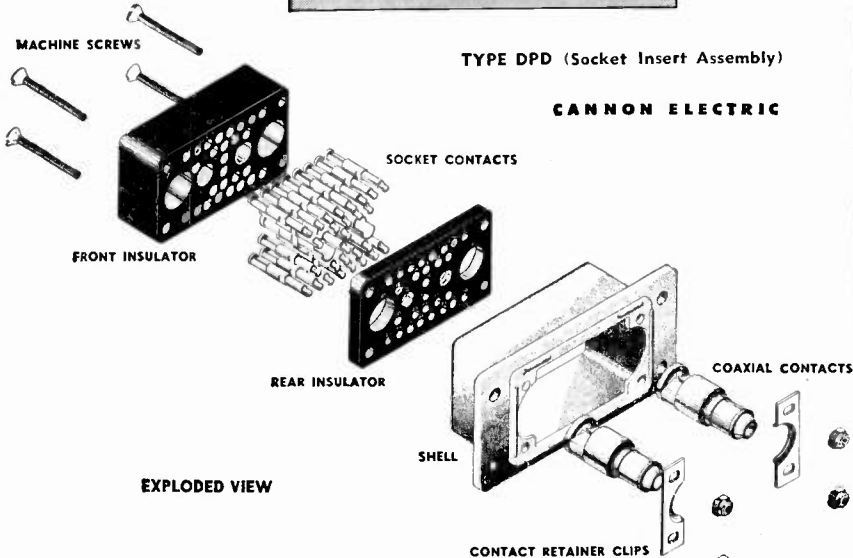


CANNON CONNECTORS

CANNON ELECTRIC DEVELOPMENT COMPANY • 3209 HUMBOLDT STREET, LOS ANGELES 31, CALIFORNIA



TYPE DP FITTINGS



TYPE DPD (Socket Insert Assembly)

CANNON ELECTRIC

In design, this series of connectors differs from the majority of Cannon Connectors. Type DP Fittings are rectangular in shape, and polarization is affected by the arrangement of the contacts within the connectors. A wide variety of contact arrangements is available with contacts ranging from 10-amp. to 40-amp. capacity and with low impedance Coaxial contacts of 10-amp. capacity providing for continuous shielding available in some types. Standard shells are aluminum finished in sand blast and clear lac-

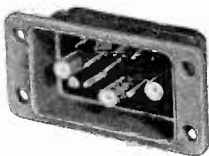
quer; some types are available in zinc, sand blast and clear lacquer finished. Contacts are brass, silver-plated. Insulation is phenolic, with specially treated low moisture absorption ceramic insulation used in coaxial contacts. Leading uses of the Type DP connectors are in rack and panel instrument and radio equipment where weight and space saving are important factors. A BULLETIN ON DP CONNECTORS IS AVAILABLE ON REQUEST.

TYPE "DPD" RECEPTACLES (With Socket Insert)



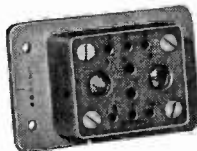
Mounting flange is $3\frac{3}{8}$ " x $1\frac{1}{4}$ " and shell extends $\frac{3}{8}$ " from the mounting surface forward. Coaxial contacts extend $\frac{3}{8}$ " to the rear from the mounting surface. Shells provide for mounting with four No. 6 oval head machine screws. Material is aluminum.

TYPE "DPD" PLUGS (With Pin Insert)



Mounting flange is $3\frac{3}{8}$ " x $1\frac{1}{4}$ " and shell extends $\frac{3}{8}$ " from the mounting surface forward and $1\frac{3}{8}$ " from the mounting surface to the rear. The coaxial contacts extend $\frac{3}{8}$ " from the rear of the shell. Shells provide for mounting with four No. 6 ovalhead machine screws. Material is aluminum.

TYPE "DPB" RECEPTACLES (With Socket Insert)



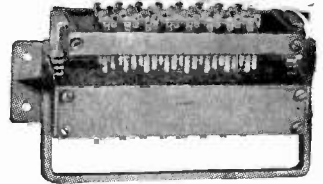
The DPB Receptacles are similar to the Type DP D differing only in the mounting flange which is reduced to $2\frac{1}{2}$ " x $1\frac{1}{4}$ " shell material, zinc or aluminum. Standard coaxials with ceramic insulation. Six insert arrangements available, one having twinax contacts and two having coaxial contacts.

TYPE "DPB" PLUGS (With Pin Insert)



The DPB Plugs are similar to the Type DPD, differing in the same respect as the DPB Receptacle differs from the DPD. They are mounted with four No. 6 Oval Head Machine Screws. Standard finish on all DPB shells is tinplate and clear lacquer. Other finishes by special order.

"DPR" Rack Type—Complete Unit



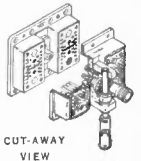
Four Insert Arrangements

Rack type fittings are used where large numbers of contacts must be repeatedly coupled and uncoupled, the coupling and uncoupling being performed by means of a geared movement operated by a bail type handle. The dimensions over all measure $5\frac{1}{2}$ " x 3" x $2\frac{1}{4}$ " (including swing of bail). Has four holes for No. 8 Mounting Screws.

TYPE DPD-2

Special Instrument Panel Disconnect

The DPD2 has a two-gang shell holding 2 standard DPD inserts. Screw jack extraction means is available in straight or angle take-off. The purpose of the fitting is the standardization of such equipment so that it may be interchangeable between assemblies of various aircraft.

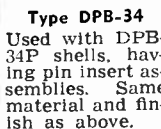


CUT-AWAY VIEW

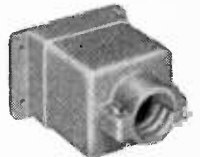
"DPB" and "DPD" JUNCTION SHELLS



Type DPB-33
Used with DPB-33S shells, having socket insert assemblies. Made of diecast aluminum alloy with tin plate and clear lacquer finish.



Type DPB-34
Used with DPB-34P shells, having pin insert assemblies. Same material and finish as above.



Type DPD-33
Used with DPD-33S shells, having socket insert assemblies. Made of diecast aluminum alloy with tin plate and clear lacquer finish.



Type DPD-34
Used with DPD-34P shells, having pin insert assemblies. Same material and finish as above.



DPB with twinax contact on program monitor for radio.



LANGVIN CO. PHOTO

CANNON CONNECTORS

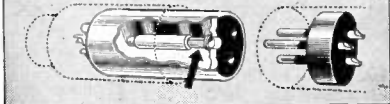


CANNON ELECTRIC DEVELOPMENT COMPANY • 3209 HUMBOLDT STREET, LOS ANGELES 31, CALIFORNIA

TYPE X FITTINGS

CANNON "TYPE X" PLUGS AND RECEPTACLES—The "Type X" Series of small connectors offers inexpensive fittings of reliable quality for sound service, radio, public address systems and geophysical research. In addition to compactness, many exclusive Cannon features are embodied in this series, such as full floating contacts in all socket inserts. Solder pot cable connections are easily accessible. Cable glands are removable. Contacts are so positive that no latching device is needed for ordinary uses.

The arrow shows spring clip on full-floating socket contact which gives a positive pressure fit connection.



TYPE "X-11" CORD PLUG (With Socket Insert)

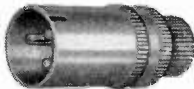
Sturdily built for dependable service. Light in weight. Shell is die-cast zinc, nickel finish. Will take $\frac{1}{8}$ " to $\frac{3}{8}$ " cable. Used in conjunction with the following: X-14 Wall Receptacle, X-12 Straight Cord Plug, and X-42 Microphone Receptacle X-44L Receptacle.



Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.081	X-1-11	\$1.75
3 15-amp.	0.083	X-3-11	1.75
4 {3-10-amp.} {1-15-amp.}	0.085	X-4-11	3.25

TYPE "X-12" CORD PLUG (With Pin Insert)

For use in conjunction with X-11 Straight Cord Plug (Socket Insert) or X-13 Wall Receptacle (Socket Insert). Shell is die-cast zinc, nickel finish. Will take $\frac{1}{8}$ " to $\frac{3}{8}$ " cable.



Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.061	X-1-12	\$1.25
3 15-amp.	0.063	X-3-12	1.25
4 {3-10-amp.} {1-15-amp.}	0.065	X-4-12	2.25

TYPE "X-13" WALL RECEPTACLE (With Socket Insert)

Body fits in $\frac{3}{8}$ " hole and extends $\frac{1}{8}$ " behind flange. Flange is $\frac{1}{2}$ " in diameter and drilled for three #4-40 oval-head screws on $\frac{1}{4}$ " radius 120° apart. Shell is die-cast zinc, nickel finish. To be used in conjunction with the following X-12.



Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.081	X-1-13	\$1.75
3 15-amp.	0.083	X-3-13	1.75
4 {3-10-amp.} {1-15-amp.}	0.085	X-4-13	3.25

TYPE "X-14" WALL RECEPTACLE (With Pin Insert)

Body fits in $\frac{3}{8}$ " hole and extends $\frac{3}{8}$ " behind the flange, which is $\frac{1}{2}$ " in diameter and drilled for three #4-40 oval-head screws on $\frac{1}{4}$ " radius, 120° apart. Shell is zinc, nickel plated finish. Used in conjunction with straight cord plug (Socket Insert) X-11. Solder pots extend $\frac{1}{4}$ " beyond rear of body.



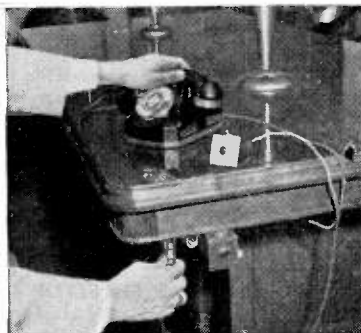
Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.040	X-1-14	\$1.25
3 15-amp.	0.042	X-3-14	1.25
4 {3-10-amp.} {1-15-amp.}	0.044	X-4-14	2.25

TYPE "X-42" MICROPHONE RECEPTACLE (With Pin Insert)

Has all the features of "Type X" Straight Cord Plugs and Wall Receptacles but it is mounted on a flat base. Shell is die-cast zinc, nickel finish. Use with X-11 straight Cord Plug (Socket Insert) Mounting holes are .144" in diameter and 1" apart.



Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
3 15-amp.	0.063	X-3-42	\$1.25



(Type X-3-11 Plug and X-3-42 Receptacle)

TYPE XK FITTINGS

CANNON "TYPE XK" PLUGS AND RECEPTACLES—A quality line of Connectors, similar in design and construction to the "Type X" Series, but equipped with the fast-acting, sturdy Acme Threaded Coupling Ring and, therefore, ideal for use on equipment which is subjected to considerable vibration and tension on cables, such as on sound trucks and other portable units.

TYPE "XK-11" STRAIGHT CORD PLUG (With Socket Insert)



Shell is of die-cast zinc, cad. plated finish. Equipped with quick-acting coupling ring. Solder pot connections are easily accessible. Takes $\frac{1}{8}$ " to $\frac{3}{8}$ " cable. Built for long, dependable service. Used with XK-12, XK-14.

Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.081	XK-1-11	\$3.50
3 15-amp.	0.083	XK-3-11	3.50
4 {3-10-amp.} {1-15-amp.}	0.085	XK-4-11	5.00

TYPE "XK-12" STRAIGHT CORD PLUG (With Pin Insert)

For use in conjunction with Straight Cord Plug (Socket Insert) or Wall Receptacle (Socket Insert) with Coupling Ring. Provided with Shell is made of die-cast zinc, cad. plated finish. Takes $\frac{1}{8}$ " to $\frac{3}{8}$ " cable.

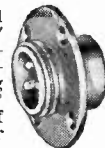


Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.081	XK-1-12	\$2.00
3 15-amp.	0.083	XK-3-12	2.00
4 {3-10-amp.} {1-15-amp.}	0.085	XK-4-12	3.00

TYPE "XK-13" WALL RECEPTACLE (With Socket Insert) (For replacement only)

TYPE "XK-14" WALL RECEPTACLE (With pin insert)

Body fits in a $\frac{3}{8}$ " hole and extends $\frac{1}{8}$ " behind a $\frac{1}{2}$ " flange. Flange is $\frac{1}{2}$ " in diameter, drilled for four #4-40 oval-head mounting screws on a $\frac{1}{4}$ " radius, 90° apart. Shell is made of brass, nickel finish. Solder pots extend $\frac{1}{4}$ " beyond body. Has external acme thread on shell and is used in conjunction with straight cord plug XK-11.



Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.045	XK-1-14	\$2.00
3 15-amp.	0.047	XK-3-14	2.00
4 {3-10-amp.} {1-15-amp.}	0.049	XK-4-14	3.00

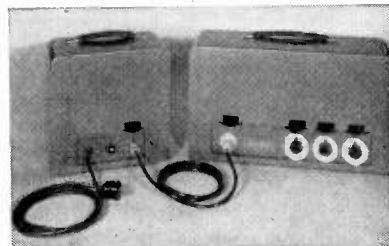
TYPE "XK-13L" WALL RECEPTACLE (With Socket Insert)

Body fits in $1\frac{1}{8}$ " hole and extends $1\frac{1}{8}$ " behind flange. Flange is $1\frac{1}{2}$ " in diameter and drilled for four #4-40 oval-head mounting screws on a $\frac{1}{4}$ " radius, 90° apart. Shell is made of brass, nickel finish. Solder pots on contacts extend $\frac{1}{4}$ " beyond body.



Use in conjunction with a straight cord plug (Pin Insert) XK-12.

Contacts Capacity	Wt. Lbs.	Cat. No.	List Pr.
1 15-amp.	0.144	XK-1-13L	\$3.75
3 15-amp.	0.146	XK-3-13L	3.85
4 {3-10-amp.} {1-15-amp.}	0.148	XK-4-13L	4.85



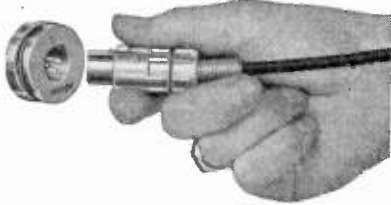
Raytheon's 3-channel Remote Amplifier and power unit use two types of Cannon Plugs: "X" and "P". Three receptacles on amplifier at right are Type P3-13.

CANNON CONNECTORS

CANNON ELECTRIC DEVELOPMENT COMPANY • 3209 HUMBOLDT STREET, LOS ANGELES 31, CALIFORNIA



TYPE XL FITTINGS



"XL-3-14N" Receptacle and "XL-3-11" Plug in engaging position. Compare small size of plug with hand.

The Cannon Electric Type "XL" Connector combines various features found in other Cannon types into a small fitting comparable only in size to the Type "X" for low level sound transmission circuits. Among the leading features are the following: (1) convenient latchlock device to hold connector tight. (2) lightweight. (3) polarizing means (4) compression gland with relief spring or integral clamp, if desired. (5) streamlined design. (6) tapped metal for insert retaining screw. (7) provision for special grounding contact and grounding to shell. Contacts are 15-amp. for No. 14 B&S stranded wire in 3 contact insert; 10-amp. in 4 contact insert. Shell is zinc or steel, with various finishes available, bright nickle being standard. Satin-chrome finish available on steel shells. Min. flashover voltage, 1500 (250 working voltage).

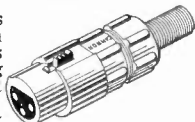


XL-3-11 with compression gland removed, showing rubber reducer bushing.

ZINC SHELL TYPES

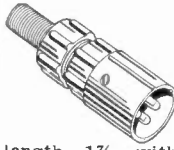
TYPE "XL-11" STRAIGHT CORD PLUG (Socket Insert)

Type XL-3-11 is equipped with latch lock device and has raised polarizing boss. No. 1 contact engages before Nos. 2 and 3, and may be used for grounding purposes, if desired. $\frac{3}{8}$ cable accommodation. Overall dimensions: length, $2\frac{3}{8}$, with relief spring, $2\frac{1}{2}$ approx.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.0992	XL-3-11	1.25
4	10-amp.	.0992	XL-4-11	1.75

TYPE "XL-12" STRAIGHT CORD PLUG (Pin Insert)

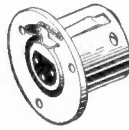


Type XL-12 plug has alignment rib in addition to polarizing groove. Cable accommodation is $\frac{3}{8}$. Insert is removable for soldering or inspection. Overall dimensions: length, $1\frac{7}{8}$, with cable relief spring, $2\frac{5}{8}$; max. diameter $\frac{3}{4}$. Insert dia. $\frac{5}{8}$ ".

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.0792	XL-3-12	1.20
4	10-amp.	.0792	XL-4-12	1.60

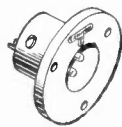
TYPE "XL-13" RECEPTACLE (Socket Insert)

A wall mounting receptacle similar to XL-14 except that it has socket insert assembly and latch locking device. Overall Dimensions: flange diameter, $1\frac{1}{8}$; flange thickness $\frac{1}{8}$; rear of flange to solder pot extension $1\frac{1}{8}$; dia. barrel, $\frac{1}{2}$; three mounting holes drilled .136



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.132	XL-3-13	1.25
4	10-amp.	.132	XL-4-13	1.75

TYPE "XL-14" RECEPTACLE (Pin Insert)



This wall mounting receptacle has three mounting holes having .136 diameter. Overall dimensions: flange diameter, $1\frac{1}{8}$; width flange, $\frac{1}{8}$; length behind flange to solder pot extension, $1\frac{1}{8}$; barrel diameter, $\frac{3}{4}$. Material zinc, bright nickel finish.

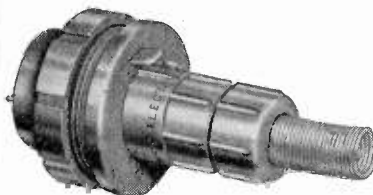
Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.0592	XL-3-14	1.00
4	10-amp.	.0592	XL-4-14	1.40

TYPE "XL-13-N" RECEPTACLE (Socket Insert)

Similar to XL-14N except has socket insert assembly, with latchlock device, and polarizing boss on insert barrel. No. 1 contact engages before Nos. 2 and 3 and may be used for grounding circuit, if desired. Overall dimensions: flange and barrel and nut are identical to XL-14N, length from face of flange including solder pot extension, $1\frac{1}{8}$.

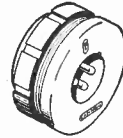


Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.2112	XL-3-13N	1.25
4	10-amp.	.2112	XL-4-13N	1.75



TYPE XL-3-12 PLUG (engaged with Type XL-3-13N Receptacle)

TYPE "XL-14N" RECEPTACLE (Pin Insert)

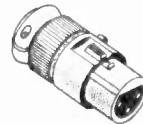


Designed to be mounted in a panel and has lock nut, accommodating up to $\frac{1}{8}$ inch panel. Two fittings may be mounted on a single gang plate. Overall Dimensions: flange diameter, $1\frac{1}{8}$; barrel diameter, 1 ; width flange to barrel, $\frac{3}{8}$, with $\frac{1}{8}$ max. solder pot extension; flange thickness, $\frac{1}{8}$.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.2048	XL-3-14N	1.15
4	10-amp.	.2048	XL-4-14N	1.55

STEEL SHELL PLUGS INTEGRAL CLAMP TYPES

TYPE XL-3-11SC PLUG (Socket Insert)



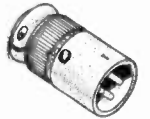
The steel shell type is built for rugged service and has cable entry of $\frac{1}{4}$ " min., $5/16$ " max. $6/32$ " shorter overall shell than zinc type. Otherwise same construction, mating with regular XL receptacle.

Bright nickel finish standard.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.1333	XL-3-11SC	2.80
4	10-amp.	.1333	XL-4-11SC	3.30

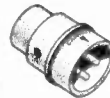
TYPE XL-3-12SC PLUG (Pin Insert)

Corresponds to XL-3-12 except that shell is steel with integral clamp. For $5/16$ " max. entry. Shell is $7/32$ " shorter in overall length than corresponding zinc shell.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
3	15-amp.	.1250	XL-3-12SC	2.75
4	10-amp.	.1250	XL-4-12SC	3.15

TYPE "XL" ADAPTER RECEPTACLES



XL-3-50
1.05 List Pr.



XL-3-50T
1.15 List Pr.



XL-3-50N
1.30

SINGLE GANG WALL RECEPTACLES



Type XL-3-35 (Socket Insert)

Face plate similar to type used in P-35. Takes an XL-3-13N Receptacle. Wt. 0.3479.

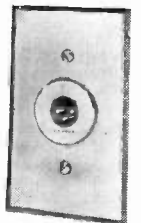
Cat. No.	List Price
XL-3-35	3.60
XL-4-35	4.00

TWO-GANG ALSO AVAILABLE

Type XL-3-36 (Pin Insert)

Takes an XL-3-14N Receptacle. Bright nickel finish.

Cat. No.	List Price
XL-3-36	3.65
XL-4-36	4.05



CANNON CONNECTORS

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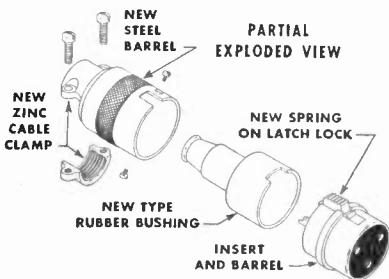


TYPE P FITTINGS

REVISED PRICES

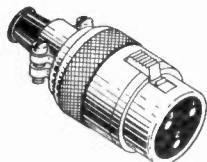
CANNON "TYPE P" FITTINGS. Universally used in sound and allied applications. "Type P" Fittings include a size and type for every requirement, with a high standard of quality. All 90° Plugs have split-shell construction for quick, easy access for wiring or inspection. Splash-proof but not weather-proof. Plug and receptacle dust caps are available. Laboratory tests show an average voltage-drop of not more than 10 millivolts, with current flowing at the rated capacity. Insulating material is black phenolic which has a 0.7% absorption in 24 hours of immersion in water and a dielectric strength of 550 volts per mil at 60 cycles. Two to 6 contact inserts accommodate No. 10 B&S stranded wire; 8 contact insert No. 14 wire.

New shell designs of the P-CG-115 and P-CG-12S, cord plugs, replace both old type shells of zinc and steel, and such improvements as shorter length, new rubber bushing, improved latch and spring, integral clamp. Shell material is steel, integral clamp zinc.



NEW TYPES WILL MATE WITH CORRESPONDING FITTINGS, SAME AS OLD DESIGN

TYPE P-CG-115 CORD PLUG COMBINATION STEEL & ZINC (With Socket Insert)

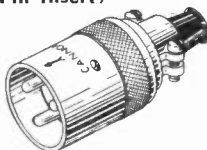


This new type plug with steel shell and integral zinc clamp is $\frac{1}{8}$ " shorter than the old type and has an overall length of $2\frac{1}{8}$ ". The new rubber bushing allows a $\frac{1}{8}$ " D. cable entry, and on P4, P5, P6 and P8 $\frac{1}{2}$ " D. max. cable entry. Satin chrome finish.

Poles	Capacity	Wt. Lbs.	Cat. No.	List Price
2	30-amp.	0.202	P2-CG-115	\$4.60
3	30-amp.	0.202	P3-CG-115	4.75
4	30-amp.	0.202	P4-CG-115	5.00
5	30-amp.	0.206	P5-CG-115	5.25
6	30-amp.	0.208	P6-CG-115	5.40
8	15-amp.	0.208	P8-CG-115	5.75

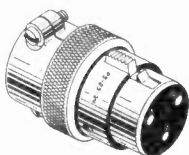
TYPE P-CG-12S CORD PLUG COMBINATION STEEL & ZINC (With Pin Insert)

Similar construction and materials to the -11S, except for pin insert. New rubber bushing on P4 to P8 fittings is contained within the shell and lines the solder pot cavity. Same cable entry sizes as -11S. Satin chrome finish.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.163	P2-CG-12S	\$3.75
3	30-amp.	0.159	P3-CG-12S	3.85
4	30-amp.	0.159	P4-CG-12S	3.95
5	30-amp.	0.163	P5-CG-12S	4.05
6	30-amp.	0.167	P6-CG-12S	4.25
8	15-amp.	0.163	P8-CG-12S	4.50

TYPE "P-23" STRAIGHT CORD PLUG (With Socket Insert), HEAVY DUTY

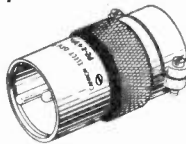


Shell is die-cast zinc for severe service, but employing all features such as the latch type locking device which is standard on "Type P." It has integral clamp for $\frac{3}{4}$ " cable. Also made for $\frac{7}{8}$ " & $\frac{5}{8}$ " cable if specified. Satin chrome finish.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.166	P2-23	\$4.75
3	30-amp.	0.170	P3-23	4.90
4	30-amp.	0.174	P4-23	5.15
5	30-amp.	0.178	P5-23	5.40
6	30-amp.	0.182	P6-23	5.55
8	15-amp.	0.178	P8-23	5.90

TYPE "P-24" STRAIGHT CORD PLUG (With Pin Insert), HEAVY DUTY

Corresponds with "Type P-23" Plug (Socket insert). Built for hard service. The skirt is of steel, body die-cast zinc. Has Integral Clamp, for $\frac{3}{4}$ ", $\frac{5}{8}$ " or $\frac{1}{2}$ " cable, if specified. Satin chrome finish.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.170	P2-24	\$4.80
3	30-amp.	0.173	P3-24	4.90
4	30-amp.	0.176	P4-24	5.00
5	30-amp.	0.179	P5-24	5.10
6	30-amp.	0.182	P6-24	5.30
8	15-amp.	0.179	P8-24	5.55

TYPE "P-CG-15" 90° CORD PLUG (With Socket Insert)

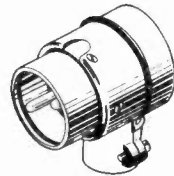


Has Split Shell and all other "Type P" features found in "Type P-15. 90° Plug" except cable connection, which is an Integral Clamp for $\frac{1}{2}$ " or smaller cable. Made of cast aluminum alloy, finished in tin plate. New, heavier clamp.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Price
2	30-amp.	0.220	P2-CG-15	\$5.20
3	30-amp.	0.224	P3-CG-15	5.35
4	30-amp.	0.228	P4-CG-15	5.60
5	30-amp.	0.232	P5-CG-15	5.85
6	30-amp.	0.236	P6-CG-15	6.00
8	15-amp.	0.232	P8-CG-15	6.35

TYPE "P-CG-16" 90° CORD PLUG (With Pin Insert)

Corresponds with Type P-CG-15 90° Plug. (Socket insert), having Integral Clamp for $\frac{1}{2}$ " or smaller cable. Barrel is of steel and shell of cast aluminum alloy, tin plate finish. Removable cap for easy access to contacts for wiring or inspection. New heavier clamp.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.195	P2-CG-16	\$4.80
3	30-amp.	0.198	P3-CG-16	4.90
4	30-amp.	0.201	P4-CG-16	5.00
5	30-amp.	0.204	P5-CG-16	5.10
6	30-amp.	0.207	P6-CG-16	5.30
8	15-amp.	0.204	P8-CG-16	5.55

TYPE "P-17" PANEL RECEPTACLE (With Socket Insert), SURFACE MOUNTING

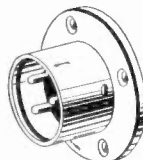


P-17 has Latch Locking Device and all other "Type P" features. Made of die-cast zinc. Satin chrome finish. Flange is 2" in diameter, drilled and countersunk at four points $\frac{1}{8}$ " apart on $\frac{1}{4}$ " radius for four #4-40 oval head M.S. Body extends 1" in front of $\frac{1}{8}$ " mounting flange.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.125	P2-17	\$4.10
3	30-amp.	0.129	P3-17	4.25
4	30-amp.	0.133	P4-17	4.50
5	30-amp.	0.137	P5-17	4.75
6	30-amp.	0.141	P6-17	4.90
8	15-amp.	0.137	P8-17	5.25

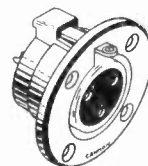
TYPE "P-18" PANEL RECEPTACLE (with Pin Insert) Surface Mounting

Corresponds to "Type P-17", Panel Receptacle. Shell is made of brass, satin chrome finish. Flange is 2" in diameter, drilled and countersunk at four points on $\frac{1}{8}$ " radius for four #4-40 oval head machine screws.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.156	P2-18	\$2.20
3	30-amp.	0.159	P3-18	2.30
4	30-amp.	0.162	P4-18	2.40
5	30-amp.	0.165	P5-18	2.50
6	30-amp.	0.168	P6-18	2.70
8	15-amp.	0.165	P8-18	2.95

TYPE "P-13" PANEL RECEPTACLE (with Socket Insert) Flush Mounting



Has Latch Locking Device which operates from front of panel. Made of die-cast zinc, satin chrome finish. Flange is 2" in diameter and drilled and countersunk at four points on $\frac{1}{8}$ " radius for four #4-40 oval head machine screws.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Price
2	30-amp.	0.202	P2-13	\$3.85
3	30-amp.	0.206	P3-13	4.00
4	30-amp.	0.210	P4-13	4.25
5	30-amp.	0.214	P5-13	4.50
6	30-amp.	0.218	P6-13	4.65
8	15-amp.	0.214	P8-13	5.00

CANNON CONNECTORS



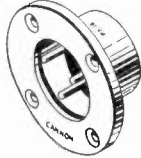
CANNON ELECTRIC DEVELOPMENT COMPANY • 3209 HUMBOLDT STREET, LOS ANGELES 31, CALIFORNIA

TYPE P FITTINGS

CONTINUED

TYPE "P-14" RECEPTACLE (Pin Insert), FLUSH MOUNTING

Flange is 2" in diameter, drilled with four .120" diameter holes to take four #4-40 oval-head mounting screws, arranged 90° apart on a radius of 1 1/8". Shell is die-cast zinc, satin chrome finish.



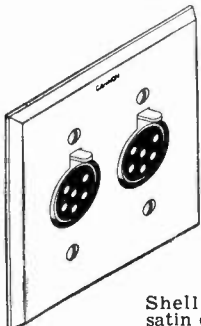
Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.104	P2-14	\$2.00
3	30-amp.	0.107	P3-14	2.10
4	30-amp.	0.110	P4-14	2.20
5	30-amp.	0.113	P5-14	2.30
6	30-amp.	0.116	P6-14	2.50
8	15-amp.	0.113	P8-14	2.75



TYPE "P-35" SINGLE GANG WALL RECEPTACLE (With Socket Insert)

Furnished with brackets for standard switch box. Shell is die-cast zinc, satin chrome finish. Plate is 4 1/2" high and 2 3/4" wide. Latch Locking Device operates from front of panel.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.341	P2-35	\$6.70
3	30-amp.	0.345	P3-35	6.85
4	30-amp.	0.349	P4-35	7.10
5	30-amp.	0.353	P5-35	7.35
6	30-amp.	0.357	P6-35	7.50
8	15-amp.	0.353	P8-35	7.85



TYPE "P-35-2G" TWO-GANG WALL RECEPTACLE (With Socket Inserts)

Furnished with brackets for standard switch box. Plate is 4 1/2" high and 4 3/4" wide. Both receptacles have Latch Locking Device, operated from front of panel. Shell is die-cast zinc, satin chrome finish.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.448	P2-35-2G	\$9.60
3	30-amp.	0.456	P3-35-2G	9.90
4	30-amp.	0.464	P4-35-2G	10.40
5	30-amp.	0.472	P5-35-2G	10.90
6	30-amp.	0.480	P6-35-2G	11.20
8	15-amp.	0.472	P8-35-2G	11.90

MINIMUM FLASHOVER VOLTAGES ON P INSERTS

P-8 (socket, #4 to shell) 1050V
 P-2 (socket, #1 to shell) 1100V
 P-3 (socket, #1 and #3 to shell) 1100V
 (All others more than 1100 volts.)

For complete list, see Type "AP" Bulletin or Third Revised Edition "P & O" Bulletin

TYPE "P-36" SINGLE GANG WALL RECEPTACLE

(With Pin Insert)

Plate is 4 1/2" high and 2 3/4" wide. Furnished with brackets for standard switch box. Made of die-cast zinc, satin chrome finish.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.277	P2-36	\$5.20
3	30-amp.	0.280	P3-36	5.30
4	30-amp.	0.283	P4-36	5.40
5	30-amp.	0.286	P5-36	5.50
6	30-amp.	0.289	P6-36	5.70
8	15-amp.	0.286	P8-36	5.95

TYPE "P-36-2G" TWO-GANG WALL RECEPTACLE (With Pin Insert)

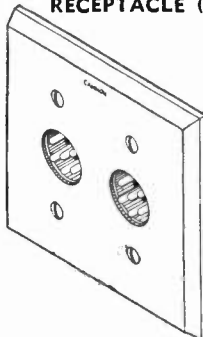


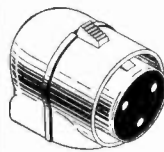
Plate is 4 1/2" high and 4 3/4" wide. Drilled to take four #6-32 oval-head mounting screws. Furnished with brackets for standard switch box. Made of die-cast zinc, satin chrome finish.

Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.554	P2-36-2G	\$7.60
3	30-amp.	0.563	P3-36-2G	7.80
4	30-amp.	0.572	P4-36-2G	8.00
5	30-amp.	0.579	P5-36-2G	8.20
6	30-amp.	0.588	P6-36-2G	8.60
8	15-amp.	0.579	P8-36-2G	9.10

TYPE "P-41" 90° MICROPHONE OR PANEL RECEPTACLE

(With Socket Insert)

Can be mounted in equipment or instrument panel. Equipped with Latch Locking Device. Cap is removable for easy wiring. Shell is die-cast zinc, finished in black wrinkle enamel.

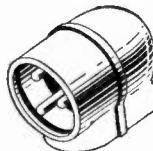


Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.249	P2-41	\$6.15
3	30-amp.	0.253	P3-41	6.30
4	30-amp.	0.257	P4-41	6.55
5	30-amp.	0.261	P5-41	6.80
6	30-amp.	0.265	P6-41	6.95
8	15-amp.	0.261	P8-41	7.30

TYPE "P-42" 90° MICROPHONE OR PANEL RECEPTACLE

(With Pin Insert)

For mounting on equipment or instrument panel. Cap is removable for easy wiring. Shell is made of die-cast zinc with black wrinkle enamel finish.



Contacts	Capacity	Wt. Lbs.	Cat. No.	List Pr.
2	30-amp.	0.176	P2-42	\$4.50
3	30-amp.	0.179	P3-42	4.60
4	30-amp.	0.182	P4-42	4.70
5	30-amp.	0.185	P5-42	4.80
6	30-amp.	0.188	P6-42	5.00
8	15-amp.	0.185	P8-42	5.25

ACCESSORY ITEMS

DUST CAPS

Fits all "Type P" fittings with pin inserts. Made of brass, cadmium plated, with nickel silver bead chain.



Lbs.	Cat. No.	List
0.081	PPC	\$1.50
0.082	PCI*	1.75

*Type PCI is insulated inside for application where contacts are "hot."

TYPE PRC DUST CAP

Fits all "Type P" fittings with socket inserts. Made of brass, cadmium plated with nickel silver bead chain.



Lbs.	Cat. No.	List
0.095	PRC	\$1.25

REPLACEMENT ITEMS

A number of Type P and Type O Connectors formerly catalogued have been omitted from the list. These include various Special Items. It is the policy of the company at the present time to list such items as obsolete or replacement fittings, which are available only upon special request. If, however, they are required for replacement purposes, write for Type P & O Replacement Page for listing and catalog number.

Quantity Discounts Apply



TYPE "PCG" CLAMP GLAND NUT

Made of die-cast zinc, cadmium plated. Complete with gasket.

Wt. Lbs	Cat. No.	List Price
0.037	PCG	\$.75



TYPE "P" GLAND GASKET

As used in Straight Glands and Clamp Glands. Made of soft white rubber.

Cat. No.	List Price
P Gasket	\$.10

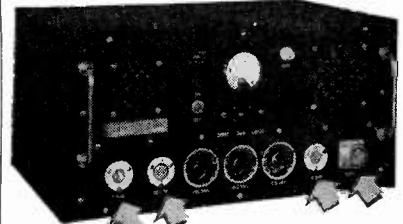
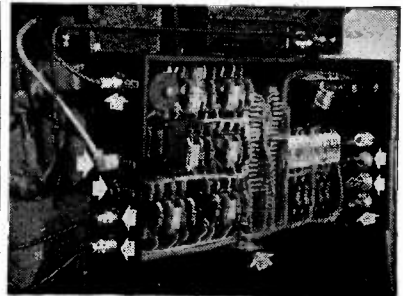


PHOTO SOUTHWESTERN INDUSTRIAL ELECTRONIC CO.
 Geophysical Radio with X3-13 Receptacles and One AN3102 (at extreme right)



Type "P" CONNECTORS on Mitchell Camera Background Projector

CANNON CONNECTORS

CANNON ELECTRIC DEVELOPMENT COMPANY • 3209 HUMBOLDT STREET, LOS ANGELES 31, CALIFORNIA



TYPE O FITTINGS

CANNON "TYPE O" PLUGS AND RECEPTACLES. This series consists of a line of 3-contact oval-shaped plugs and receptacles, equipped with Latch Locking Device. Contacts are silver-plated, full-floating, non-twisting, carry 30-amp. capacity. Solder terminals are tinned for ease of wiring. 30-amp. contacts accommodate No. 10 B&S stranded wire.



TYPE "03-42" MICROPHONE OR PANEL RECEPTACLE (With Pin Insert)

Has flat base, with two lugs for mounting with #4-40 oval-head screws. Made of die-cast zinc, and cadmium plated.



Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.271 03-42 \$4.50

TYPE "03-41" 90° MICROPHONE OR PANEL RECEPTACLE (Socket Insert)

Flat base is flanged and is attached to microphone or panel by means of two #4-40 oval-head mounting screws. Made of die-cast zinc, cad. plated.



Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.274 03-41 \$4.50

TYPE "03-11" STRAIGHT CORD PLUG (With Socket Insert)



Has Integral Clamp for $\frac{3}{8}$ " or smaller cable. Made of die-cast zinc, cadmium plated.

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.113 03-11 \$4.50

TYPE "03-12" STRAIGHT CORD PLUG (With Pin Insert)

Corresponds with No. 03-11 "Type O" Straight Cord Plug (Socket Insert). Has integral cable clamp, for $\frac{3}{8}$ " or smaller cable. Made of die-cast zinc, cadmium plated.



Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.104 03-12 \$4.50

TYPE "03-13" FLUSH WALL RECEPTACLE (With Socket Insert)



Flange is 2" in diameter, drilled with four holes to take #4-40 oval-head mounting screws, 90° apart on a radius of $\frac{1}{8}$ ". Made of die-cast zinc, cadmium plated. Latch Locking Device is operated from panel front.

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.148 03-13 \$4.50

TYPE "03-14" FLUSH WALL RECEPTACLE (With Pin Insert)

The flange is 2" in diameter, drilled with four holes to take #4-40 oval-head mounting screws, 90° apart, on a radius of $\frac{1}{8}$ ". Made of die-cast zinc, cadmium plated.



Contacts Capacity Wt. Lbs. Cat. No. List Pr.
3 30-amp. 0.107 03-14 \$4.50

TYPE "O" REPLACEMENT FITTINGS

(Discounts on replacement fittings apply to these items.)



ONE-FOURTH ACTUAL SIZE

03-35



ONE-FOURTH ACTUAL SIZE

03-36

TYPE "O" CONNECTORS ARE USED ON STANDARD RADIO BROADCAST MICROPHONES



TYPE TQ FITTINGS

CANNON TYPE "TQ" COAXIAL FITTINGS. Type "TQ" Coaxial Fittings provide continuous shielding with constant impedance. Each fitting contains 1 standard Cannon style silver-plated contact, rated at 10-amp. and accommodating #16 stranded or #14 solid, or smaller B&S stranded wire. Solder pots are tinned for ease in wiring. Insulation is ceramic.

CANNON TYPE "TQ" COAXIAL CORD PLUG (With Socket Insert) For Continuous Shielding



A tapered skirt is provided on this Plug, to which the shielding is easily soldered. Accommodates $\frac{3}{8}$ " cable, but can be supplied for $\frac{5}{8}$ " cable if specified with order. Body is brass, silver plated.

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
1 10-amp. 0.106 TQ-1-12 \$2.00

TYPE "TQ13BC" FLUSH RECEPTACLE (With Pin Insert)

For Mounting Behind Panel



ONE-HALF ACTUAL SIZE

Same construction as No. TQ-1-13C, except that the flange is mounted on back of panel. Body is brass, zinc plated.

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
1 10-amp. 0.039 TQ-1-13BC \$2.00

TYPE "TQ-13B" RECEPTACLE For Continuous Shielding

Designed for mounting behind panel. Accommodates $\frac{1}{2}$ " cable. Body is brass, zinc plated.



ONE-HALF ACTUAL SIZE

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
1 10-amp. 0.057 TQ-1-13B \$2.00

TYPE "TQ-13" RECEPTACLE (With Pin Insert) For Continuous Shielding

Provided with a tapered skirt to which the shielding is easily soldered. Also has a removable solder pot shield, which snaps into place. Ceramic insulation is used in all



ONE-HALF ACTUAL SIZE

Type "TQ" Connectors, silver plated. Accommodates $\frac{1}{2}$ " cable, but can be supplied for $\frac{3}{8}$ " cable if specified with order. Two holes—.120 in diameter, $\frac{1}{8}$ apart.

Contacts Capacity Wt. Lbs. Cat. No. List Pr.
1 10-amp. .043 TQ-1-13 \$2.00

TYPE "TQ-13C" RECEPTACLE (With Pin Insert)

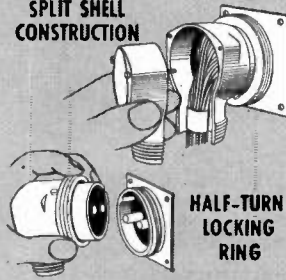
Similar to TQ-1-13, except that it is not provided with solder pot shield and is not designed for continuous shielding. Uses Ceramic insulation. For mounting on front of panel. Body is brass, silver plated. Two holes—.120 in diameter, $\frac{1}{8}$ apart for mounting.



ONE-HALF ACTUAL SIZE

CANNON TYPES K & RK PLUGS FOR AIRCRAFT

SPLIT SHELL
CONSTRUCTION



HALF-TURN
LOCKING
RING



WK



GK



SK



NK



RWK



RGK



RSK



RNK

The Type "K" Series was designed especially for use in the aircraft field and is used almost universally for aircraft radio, instrument and electrical circuits. Although light in weight, units are rugged and durable. The "K" Series is made in 3 basic types: (1) Straight Type. (2) 90° Type. (3) Wall Mounting Unit, for which either straight or right angle junction shells are provided. Inserts of laminated and molded phenolic are removable.

The cable entry is regularly threaded for various sizes of aircraft flexible conduit, but there are fittings also available with cable clamp for special applications. The "K" Series is comprised of 8 diameters, with a great variety of contact arrangements covering a range of from 1 to 82 contacts, depending, of course, upon the diameter. 188 insert arrangements.

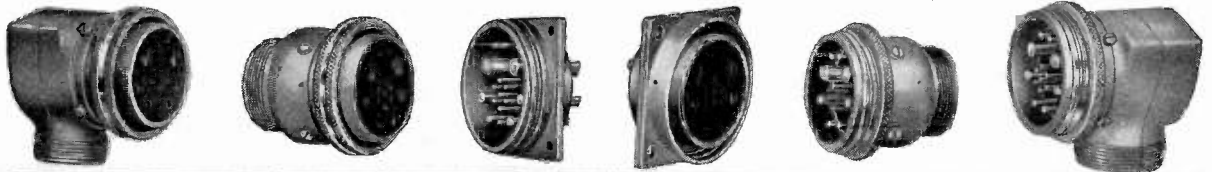
A key and groove arrangement makes it possible to connect fittings easily and quickly without the necessity of fumbling to match pins and sockets. This eliminates any

possibility of forcing together in improper alignment and thus bending or breaking pins. Large contacts may be removed for soldering, thereby eliminating the possibility of damaging the insert with excessive heat.

Quick, easy access to solder pots at back of contact is made possible simply by removing either 3 or 4 Shake-proof Sems, depending upon the size of the fitting. Since these screws are equidistant, the barrel and insert may be rotated to accommodate 3 or 4 different positions. This is also true of the flanges on wall mounting units, making it easy to rotate these fittings to facilitate cable installation and avoid sharp bends in conduit.

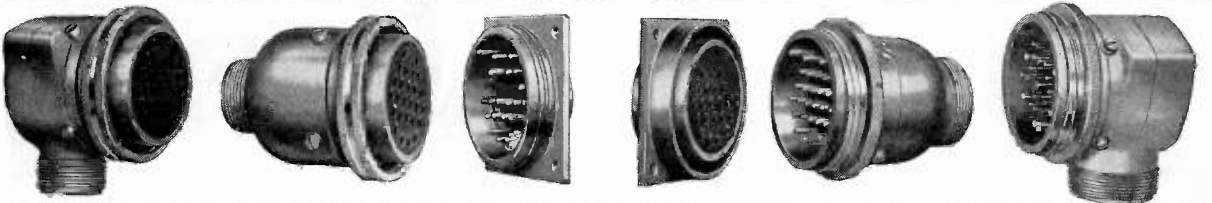
Plugs and receptacles are locked together by means of a quick-acting threaded nut which holds both members firmly together and prevents shaking or accidentally pulling them apart. 10 to 250-amp. contacts.

NOTE: Detailed Catalog Bulletin and Wall Chart for K Connectors available on request.



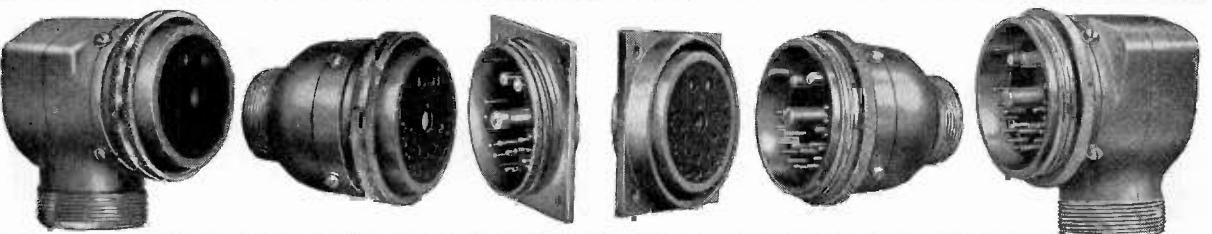
FK

RFK



IK

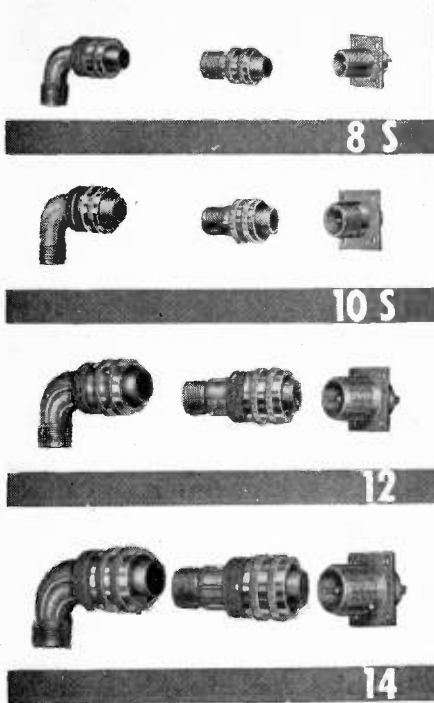
RIK



LK

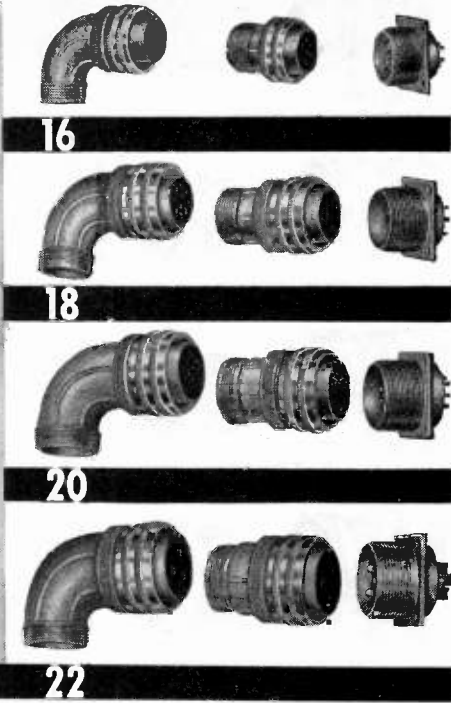
RLK

ALL FITTINGS ON THIS PAGE ARE SLIGHTLY MORE THAN ONE-QUARTER ACTUAL SIZE



CANNON TYPE AN PLUGS FOR AIRCRAFT

SPLIT SHELL CONSTRUCTION
INTERCHANGEABLE INSERTS



MORE THAN 200 INSERT ARRANGEMENTS AVAILABLE

CANNON "Type AN" Series of plugs and receptacles was designed especially to meet Army-Navy Specifications for aircraft electrical connectors. While the AN Series retains all the basic features of the Type K Series—features which have established conclusive proof of their effectiveness as applied to aircraft—numerous changes in design and construction have been made to conform to latest Army-Navy Specifications.

Type AN Plugs are made in three basic shapes or styles. These are: 1. Straight cord connectors. 2. Right angle or 90° cord connectors. 3. Flanged connectors for wall mounting. An almost unlimited combination of circuits and current capacities can be handled with AN connectors and their interchangeable inserts.

Removable and interchangeable inserts make it possible to change any fitting from a pin to a socket, or vice versa, and also to change the number of circuits

CONTACT CAPACITIES
5 to 200-amp.

handled through any fitting provided the inserts are of the same diameter. The split shell, a feature pioneered by Cannon, makes it easy to install wiring or to solder contacts.

An important feature of the Type AN Series is the means provided for coupling the members together. This consists of a coupling nut which serves to draw the parts together and to release them, while it also prevents plugs and receptacles from being jarred apart by excessive vibration. No special tools are required to lock or unlock plugs and receptacles, to separate split shells or to remove inserts. This feature is invaluable, since it eliminates delay in servicing in the field and also because there are so many combinations possible with Type AN Series.



AN3108 Plug



AN3106 Plug

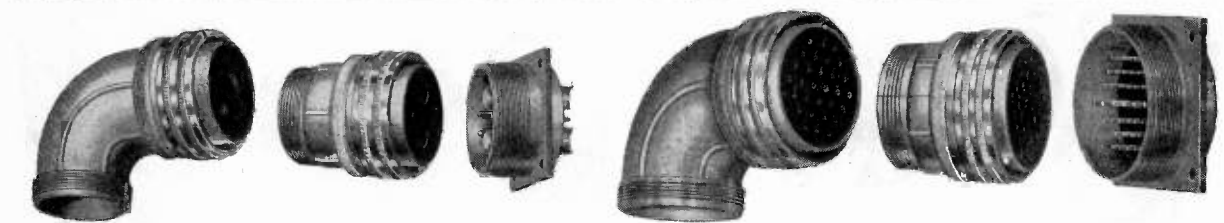
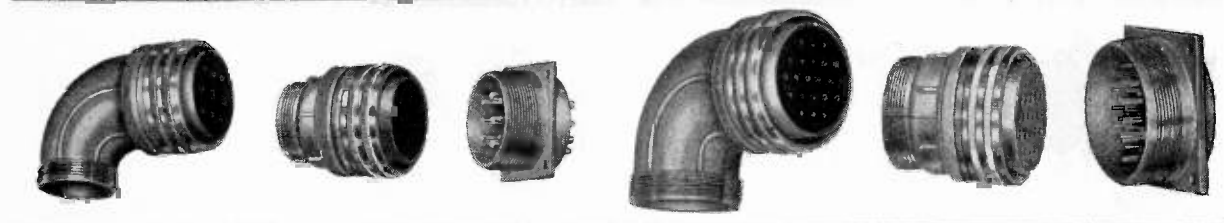


AN3102

*Write for Complete "AN" Bulletin,

Also "AN" Wall Charts.

PEAK VOLTAGES
70 to 14,000V.



ALL FITTINGS ON THIS PAGE ARE SLIGHTLY MORE THAN ONE-QUARTER ACTUAL SIZE

"300" SERIES PLUGS AND SOCKETS

General Specifications

2 Contacts to 33 Contacts. All plugs and sockets are polarized. 2 Contact Plugs and Sockets are round, others rectangular. Plugs of one size cannot fit into sockets of another size. Phosphor bronze "knife-switch" type socket contacts engage both sides of flat plug contacts—double contact area. Molded Bakelite insulation. Formed metal caps. Formed fibre linings in caps. Small size, with good separation between contacts. Plug or socket for panel mounting. Plug or socket with cap. Simple, fool-proof assembly. Finish on caps—Black Crystal. Plug prongs— $\frac{3}{32}$ " wide by $\frac{3}{64}$ " thick. We suggest using the 300 series in circuits not exceeding 45 Volts and 5 Amps., although circuit characteristics may permit higher ratings.

Plug with Angle Brackets

No. Contacts	Ea.
P-302-AB (2)	\$.23
P-303-AB (3)	.28
P-304-AB (4)	.32
P-306-AB (6)	.38
P-308-AB (8)	.45
P-310-AB (10)	.52
P-312-AB (12)	.58

Socket with Angle Brackets

No. Contacts	Ea.
S-302-AB (2)	\$.25
S-303-AB (3)	.30
S-304-AB (4)	.34
S-306-AB (6)	.42
S-308-AB (8)	.52
S-310-AB (10)	.62
S-312-AB (12)	.72

Plug with Flush Plate

No. Contacts	Ea.
P-302-FP (2)	\$.40
P-303-FP (3)	.44
P-304-FP (4)	.48
P-306-FP (6)	.54
P-308-FP (8)	.61
P-310-FP (10)	.67
P-312-FP (12)	.74

Socket with Flush Plate

No. Contacts	Ea.
S-302-FP (2)	\$.41
S-303-FP (3)	.45
S-304-FP (4)	.50
S-306-FP (6)	.57
S-308-FP (8)	.67
S-310-FP (10)	.77
S-312-FP (12)	.87

Plug with Recessed Plate

No. Contacts	Ea.
P-302-RP (2)	\$.46
P-303-RP (3)	.51
P-304-RP (4)	.55
P-306-RP (6)	.63
P-308-RP (8)	.73
P-310-RP (10)	.83
P-312-RP (12)	.92

Socket with Recessed Plate

No. Contacts	Ea.
S-302-RP (2)	\$.48
S-303-RP (3)	.53
S-304-RP (4)	.57
S-306-RP (6)	.68
S-308-RP (8)	.80
S-310-RP (10)	.92
S-312-RP (12)	1.05

Plug, Flared Hole in Cap

No. Contacts	Ea.
P-302-FHT (2)	\$.39
P-303-FHT (3)	.43
P-304-FHT (4)	.47
P-306-FHT (6)	.54
P-308-FHT (8)	.61
P-310-FHT (10)	.68
P-312-FHT (12)	.78

Socket, Flared Hole in Cap

No. Contacts	Ea.
S-302-FHT (2)	\$.40
S-303-FHT (3)	.44
S-304-FHT (4)	.48
S-306-FHT (6)	.57
S-308-FHT (8)	.68
S-310-FHT (10)	.79
S-312-FHT (12)	.90

Plug, Flared Hole in Cap and with Latches

No. Contacts	Ea.
P-302-FHT-L (2)	\$.53
P-303-FHT-L (3)	.57
P-304-FHT-L (4)	.62
P-306-FHT-L (6)	.68
P-308-FHT-L (8)	.75
P-310-FHT-L (10)	.84
P-312-FHT-L (12)	.92

Socket, Flared Hole in Cap and with Keypers

No. Contacts	Ea.
S-302-FHT-K (2)	\$.54
S-303-FHT-K (3)	.58
S-304-FHT-K (4)	.63
S-306-FHT-K (6)	.72
S-308-FHT-K (8)	.83
S-310-FHT-K (10)	.94
S-312-FHT-K (12)	1.05

Plug, Cable Clamp in Cap

No. Contacts	Ea.
P-302-CCT (2)	\$.53
P-303-CCT (3)	.57
P-304-CCT (4)	.62
P-306-CCT (6)	.68
P-308-CCT (8)	.75
P-310-CCT (10)	.84
P-312-CCT (12)	.92

Socket, Cable Clamp in Cap

No. Contacts	Ea.
S-302-CCT (2)	\$.54
S-303-CCT (3)	.58
S-304-CCT (4)	.63
S-306-CCT (6)	.72
S-308-CCT (8)	.83
S-310-CCT (10)	.94
S-312-CCT (12)	1.05

Plug, Cable Clamp in Cap and with Latches

No. Contacts	Ea.
P-302-CCT-L (2)	\$.67
P-303-CCT-L (3)	.71
P-304-CCT-L (4)	.76
P-306-CCT-L (6)	.83
P-308-CCT-L (8)	.89
P-310-CCT-L (10)	.98
P-312-CCT-L (12)	1.07

Socket, Cable Clamp in Cap and with Keypers

No. Contacts	Ea.
S-302-CCT-K (2)	\$.68
S-303-CCT-K (3)	.73
S-304-CCT-K (4)	.77
S-306-CCT-K (6)	.86
S-308-CCT-K (8)	.97
S-310-CCT-K (10)	1.08
S-312-CCT-K (12)	1.19

Plug with Angle Brackets

No. Contacts	Ea.
P-315-AB (15)	\$.75
P-318-AB (18)	.85
P-321-AB (21)	1.20
P-324-AB (24)	1.45
P-327-AB (27)	1.71
P-330-AB (30)	1.96
P-333-AB (33)	2.21

Socket with Angle Brackets

No. Contacts	Ea.
S-315-AB (15)	\$.75
S-318-AB (18)	1.07
S-321-AB (21)	1.33
S-324-AB (24)	1.58
S-327-AB (27)	1.84
S-330-AB (30)	2.09
S-333-AB (33)	2.34

Plug with End Brackets

No. Contacts	Ea.
P-315-EB (15)	\$.76
P-318-EB (18)	.95
P-321-EB (21)	1.26
P-324-EB (24)	1.45
P-327-EB (27)	1.71
P-330-EB (30)	1.96
P-333-EB (33)	2.21

Sockets with End Brackets

No. Contacts	Ea.
S-315-EB (15)	\$.89
S-318-EB (18)	1.07
S-321-EB (21)	1.33
S-324-EB (24)	1.58
S-327-EB (27)	1.84
S-330-EB (30)	2.09
S-333-EB (33)	2.34

Plug with Shallow Brackets

No. Contacts	Ea.
P-315-SB (15)	\$ 1.14
P-318-SB (18)	1.40
P-321-SB (21)	1.65
P-324-SB (24)	1.96
P-327-SB (27)	2.21
P-330-SB (30)	2.53
P-333-SB (33)	2.78

Sockets with Shallow Brackets

No. Contacts	Ea.
S-315-SB (15)	\$ 1.28
S-318-SB (18)	1.53
S-321-SB (21)	1.78
S-324-SB (24)	2.09
S-327-SB (27)	2.34
S-330-SB (30)	2.66
S-333-SB (33)	2.92

Plug with Deep Bracket

No. Contacts	Ea.
P-315-DB (15)	\$ 1.14
P-318-DB (18)	1.40
P-321-DB (21)	1.65
P-324-DB (24)	1.96
P-327-DB (27)	2.21
P-330-DB (30)	2.53
P-333-DB (33)	2.78

Socket with Deep Bracket

No. Contacts	Ea.
S-315-DB (15)	\$ 1.28
S-318-DB (18)	1.53
S-321-DB (21)	1.78
S-324-DB (24)	2.09
S-327-DB (27)	2.34
S-330-DB (30)	2.66
S-333-DB (33)	2.92

Plug with Flared Hole in Top of Cap

No. Contacts	Ea.
P-315-FHT (15)	\$ 1.01
P-318-FHT (18)	1.27
P-321-FHT (21)	1.52
P-324-FHT (24)	1.84
P-327-FHT (27)	2.09
P-330-FHT (30)	2.41
P-333-FHT (33)	2.66

Socket, Flared Hole in Top of Cap

No. Contacts	Ea.
S-315-FHT (15)	\$ 1.14
S-318-FHT (18)	1.40
S-321-FHT (21)	1.65
S-324-FHT (24)	1.97
S-327-FHT (27)	2.22
S-330-FHT (30)	2.54
S-333-FHT (33)	2.79

Plug, Flared Hole in Top of Cap and with Latches

No. Contacts	Ea.
P-315-FHT-L (15)	\$ 1.14
P-318-FHT-L (18)	1.40
P-321-FHT-L (21)	1.65
P-324-FHT-L (24)	1.97
P-327-FHT-L (27)	2.22
P-330-FHT-L (30)	2.54
P-333-FHT-L (33)	2.79

Socket, Flared Hole in Top of Cap and with Keypers

No. Contacts	Ea.
S-315-FHT-K (15)	\$ 1.28
S-318-FHT-K (18)	1.53
S-321-FHT-K (21)	1.78
S-324-FHT-K (24)	2.10
S-327-FHT-K (27)	2.35
S-330-FHT-K (30)	2.67
S-333-FHT-K (33)	2.93

Plug, Cable Clamp in Top of Cap

No. Contacts	Ea.
P-315-CCT (15)	\$ 1.20
P-318-CCT (18)	1.45
P-321-CCT (21)	1.71
P-324-CCT (24)	2.02
P-327-CCT (27)	2.28
P-330-CCT (30)	2.66
P-333-CCT (33)	2.85

Socket, Cable Clamp in Top of Cap

No. Contacts	Ea.
S-315-CCT (15)	\$ 1.33
S-318-CCT (18)	1.58
S-321-CCT (21)	1.84
S-324-CCT (24)	2.16
S-327-CCT (27)	2.41
S-330-CCT (30)	2.79
S-333-CCT (33)	2.98

Plug, Cable Clamp in Top of Cap and with Latches

No. Contacts	Ea.
P-315-CCT-L (15)	\$ 1.33
P-318-CCT-L (18)	1.58
P-321-CCT-L (21)	1.84
P-324-CCT-L (24)	2.16
P-327-CCT-L (27)	2.41
P-330-CCT-L (30)	2.79
P-333-CCT-L (33)	2.98

Socket, Cable Clamp in Top of Cap and with Keypers

No. Contacts	Ea.
S-315-CCT-K (15)	\$ 1.46
S-318-CCT-K (18)	1.72
S-321-CCT-K (21)	1.97
S-324-CCT-K (24)	2.29
S-327-CCT-K (27)	2.54
S-330-CCT-K (30)	2.93
S-333-CCT-K (33)	3.11

"400" SERIES PLUGS AND SOCKETS (Formerly "Heavy Duty")

General Specifications

2, 4, 6, 8, 10 and 12 Contacts.
 All plugs and sockets are polarized.
 Phosphor bronze "knife switch" type socket contacts engage both sides of flat plug contacts—double contact area.
 Molded Bakelite insulation.
 Fibre linings in caps.
 Plug or socket for panel mounting.
 Plug or socket with caps.
 Finish on caps—Black Crystal.
 Plug prong cross section $\frac{1}{4}'' \times \frac{1}{8}''$.
 Locking fittings available for panel types or extension cables as shown.
 We recommend using the 400 series in circuits not exceeding 110 Volts and 10 Amperes, although circuit characteristics may permit higher ratings.

PLUG—Less Angle Brackets not Drilled or Tapped Unless Specified

No. Contacts	Ea.
P-402-LAB (2)	\$.32
P-404-LAB (4)	.44
P-406-LAB (6)	.57
P-408-LAB (8)	.69
P-410-LAB (10)	.83
P-412-LAB (12)	.95

SOCKET—Less Angle Brackets. Not Drilled or Tapped Unless Specified

No. Contacts	Ea.
S-402-LAB (2)	\$.39
S-404-LAB (4)	.57
S-406-LAB (6)	.76
S-408-LAB (8)	.95
S-410-LAB (10)	1.14
S-412-LAB (12)	1.33

PLUG—with Angle Brackets for 1/16" Panel

No. Contacts	Ea.
P-402-AB $\frac{1}{16}''$ (2)	\$.57
P-404-AB $\frac{1}{16}''$ (4)	.69
P-406-AB $\frac{1}{16}''$ (6)	.83
P-408-AB $\frac{1}{16}''$ (8)	.95
P-410-AB $\frac{1}{16}''$ (10)	1.09
P-412-AB $\frac{1}{16}''$ (12)	1.20

SOCKET—with Angle Brackets

No. Contacts	Ea.
S-402-AB (2)	\$.84
S-404-AB (4)	1.01
S-406-AB (6)	1.01
S-408-AB (8)	1.20
S-410-AB (10)	1.40
S-412-AB (12)	1.58

PLUG—with Shallow Brackets

No. Contacts	Ea.
P-402-SB (2)	\$.65
P-404-SB (4)	.89
P-406-SB (6)	1.08
P-408-SB (8)	1.27
P-410-SB (10)	1.46
P-412-SB (12)	1.65

SOCKET—with Shallow Brackets

No. Contacts	Ea.
S-402-SB (2)	\$.76
S-404-SB (4)	1.01
S-406-SB (6)	1.27
S-408-SB (8)	1.52
S-410-SB (10)	1.77
S-412-SB (12)	2.02

PLUG—with Deep Bracket

No. Contacts	Ea.
P-402-DB (2)	\$.69
P-404-DB (4)	.89
P-406-DB (6)	1.08
P-408-DB (8)	1.27
P-410-DB (10)	1.46
P-412-DB (12)	1.65

SOCKET—with Deep Brackets

No. Contacts	Ea.
S-402-DB (2)	\$.76
S-404-DB (4)	1.01
S-406-DB (6)	1.27
S-408-DB (8)	1.52
S-410-DB (10)	1.77
S-412-DB (12)	2.02

PLUGS

PLUG—Flared Hole in Top			PLUG—Flared Hole in End		
No. Contacts	Ea.		No. Contacts	Ea.	
P-402-FHT (2)	\$.64		P-402-FHE (2)	\$.64	
P-404-FHT (4)	.83		P-404-FHE (4)	.83	
P-406-FHT (6)	1.01		P-406-FHE (6)	1.01	
P-408-FHT (8)	1.20		P-408-FHE (8)	1.20	
P-410-FHT (10)	1.39		P-410-FHE (10)	1.39	
P-412-FHT (12)	1.57		P-412-FHE (12)	1.57	



P-404-FHT

SOCKETS

SOCKET—Flared Hole in Top			SOCKET—Flared Hole in End		
No. Contacts	Ea.		No. Contacts	Ea.	
S-402-FHT (2)	\$.70		S-402-FHE (2)	\$.70	
S-404-FHT (4)	.96		S-404-FHE (4)	.96	
S-406-FHT (6)	1.21		S-406-FHE (6)	1.21	
S-408-FHT (8)	1.46		S-408-FHE (8)	1.46	
S-410-FHT (10)	1.72		S-410-FHE (10)	1.72	
S-412-FHT (12)	1.97		S-412-FHE (12)	1.97	

PLUGS

PLUG—Cable Clamp in Top			PLUG—Cable Clamp in End		
No. Contacts	Ea.		No. Contacts	Ea.	
P-402-CCT (2)	\$.70		P-402-CCE (2)	\$.89	
P-404-CCT (4)	1.08		P-404-CCE (4)	1.08	
P-406-CCT (6)	1.27		P-406-CCE (6)	1.27	
P-408-CCT (8)	1.45		P-408-CCE (8)	1.45	
P-410-CCT (10)	1.64		P-410-CCE (10)	1.64	
P-412-CCT (12)	1.83		P-412-CCE (12)	1.83	

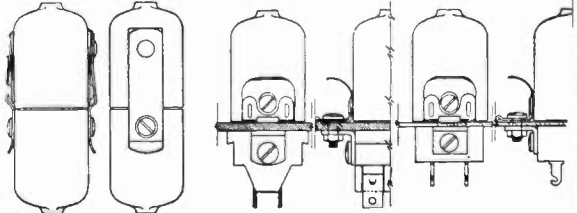


P-404-CCT

SOCKETS

SOCKET—Cable Clamp in Top			SOCKET—Cable Clamp in End		
No. Contacts	Ea.		No. Contacts	Ea.	
S-402-CCT (2)	\$.96		S-402-CCE (2)	\$.98	
S-404-CCT (4)	1.21		S-404-CCE (4)	1.21	
S-406-CCT (6)	1.46		S-406-CCE (6)	1.46	
S-408-CCT (8)	1.72		S-408-CCE (8)	1.72	
S-410-CCT (10)	1.97		S-410-CCE (10)	1.97	
S-412-CCT (12)	2.22		S-412-CCE (12)	2.22	

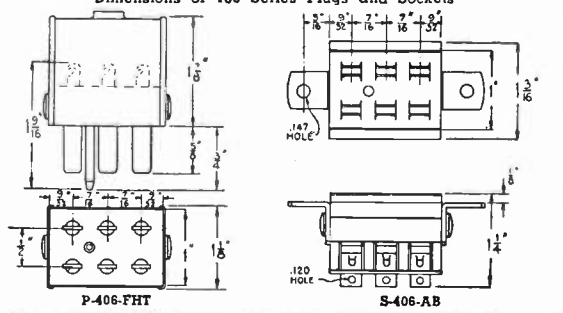
LOCKS FOR 400 SERIES PLUGS AND SOCKETS (Formerly Heavy Duty)



ILLUSTRATING No. 93 LOCK. May be attached to any 400 Series plug for extension cables. If plugs are ordered with this lock, specify "with No. 93 locks."
No. 93 Lock when attached to plug, add to list per pair \$.39
No. 93 Locks ONLY per pair .39

ILLUSTRATING No. 63 LOCK. May be used on all panel mount 400 Series plugs and sockets when surface is flush with top of panel. Cannot be used on type DB plugs.
No. 63 Locks ONLY, per pair \$.39

Dimensions of 400 Series Plugs and Sockets



P-406-FHT

S-406-AB

"500" SERIES PLUGS AND SOCKETS

For Complete Listing of 500 SERIES, Write for No. 500 Catalog

Designed for 5,000 volts and 25 amperes per contact. Circuit characteristics, however, may alter this rating one way or the other.

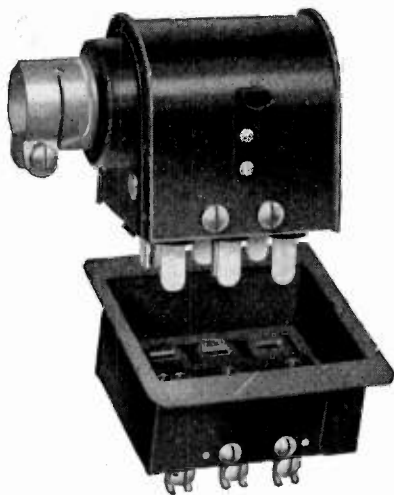
Long leakage path from terminal to terminal, and terminal to ground. Contacts are brass and phosphor bronze, silver plated. Metal parts of caps and brackets are steel, parkerized (rust-proofed). Plug and socket blocks are interchangeable in caps and brackets.

All sizes are polarized in a manner to prevent a smaller plug being inserted in a larger socket. Thus different sizes may be used on one installation without danger of making wrong connections.

Extreme care has been taken to make terminal connections under cap very accessible both for original wiring and subsequent inspection. The cap is insulated with canvas bakelite. Plug prong cross section $\frac{5}{16}'' \times \frac{3}{32}''$.

IMPORTANT: For safety with high voltages DEEP BRACKETS should always be used on one plug or socket, when the other plug or socket has a CAP. SHALLOW BRACKETS are for use only in connecting two units, each unit having plug or socket with SHALLOW BRACKET.

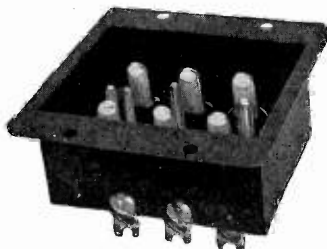
P-506-CE
(Plug with Cap)
(BX Clamp shown
but not furnished)



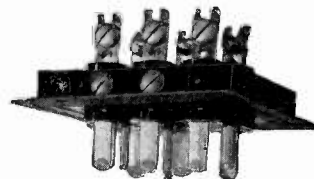
S-506-DB
(Socket with Deep Bracket)



S-506-CE
(Socket with Cap)



P-506-DB
(Plug with Deep Bracket)



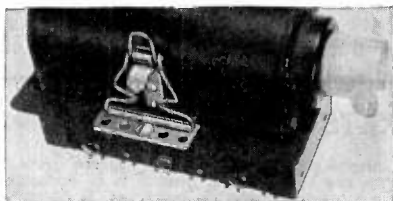
P-506-SB
(Plug with Shallow Bracket)



S-506-SB
(Socket with Shallow Bracket)

Cable entrance: Because of the great variation in type and size of cables, we have considered it best not to supply cable clamps of any kind. The cap end is made to accommodate standard BX clamps which may be obtained at any electrical jobbing house. The cap end will be furnished with round hole from $\frac{1}{2}''$ diameter and $1\frac{1}{4}''$ diameter in steps of $\frac{1}{8}''$, if the size required is given on order. If no size is given, plain cap end with center punch locating center will be shipped.

LOCKS FOR 500 SERIES PLUGS AND SOCKETS



Locks shown above are used in connection with any DEEP BRACKET and cap combination.

The locks securely hold the units together, but they can be released instantly.

The mounting plates are made to fit all DEEP BRACKETS, and are fastened by the same screws or rivets that hold the deep brackets to the panel. Can not be used on shallow brackets. Sold in pairs only.

No. 500-L Locks..... Per pair \$0.99

PLUG

With Cap

Code	Price Ea.
P-502-CE	\$2.75
P-504-CE	3.96
P-506-CE	5.17
P-508-CE	6.38
P-510-CE	7.59
P-512-CE	8.80

PLUG

With Deep Bracket

Code	Price Ea.
P-502-DB	\$2.42
P-504-DB	3.47
P-506-DB	4.51
P-508-DB	5.56
P-510-DB	6.60
P-512-DB	7.65

PLUG

With Shallow Bracket

Code	Price Ea.
P-502-SB	\$2.42
P-504-SB	3.47
P-506-SB	4.51
P-508-SB	5.56
P-510-SB	6.60
P-512-SB	7.65

SOCKET

With Cap

Code	Price Ea.
S-502-CE	\$2.75
S-504-CE	3.96
S-506-CE	5.17
S-508-CE	6.38
S-510-CE	7.59
S-512-CE	8.80

SOCKET

With Deep Bracket

Code	Price Ea.
S-502-DB	\$2.42
S-504-DB	3.47
S-506-DB	4.51
S-508-DB	5.56
S-510-DB	6.60
S-512-DB	7.65

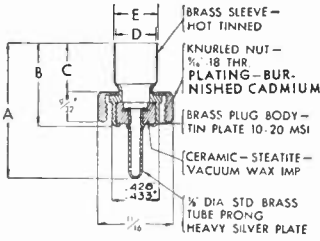
SOCKET

With Shallow Bracket

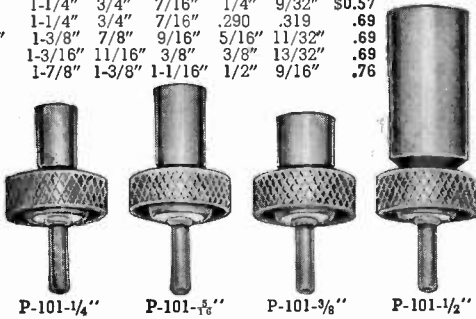
Code	Price Ea.
S-502-SB	\$2.42
S-504-SB	3.47
S-506-SB	4.51
S-508-SB	5.56
S-510-SB	6.60
S-512-SB	7.65

SERIES 101 PLUGS

The entire No. 101 Series of Plugs are identical with the exception of the cable ferrule which is furnished in four sizes as listed below. All metal parts are of brass. These Plugs fit all of the No. 101 Series Sockets. Assembly meets Navy Specifications. A low loss Plug and Socket ideal for high frequency connections.

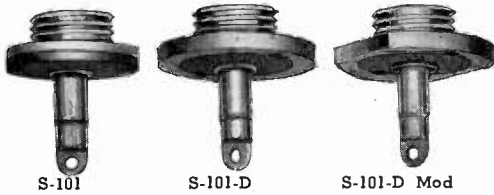


Code No.	A	B	C	D	E	Ea.
P-101-1/4"	1-1/4"	3/4"	7/16"	1/4"	9/32"	\$0.57
P-101-.290	1-1/4"	3/4"	7/16"	.290	.319	.69
P-101-5/16"	1-3/8"	7/8"	9/16"	5/16"	11/32"	.69
P-101-3/8"	1-3/16"	11/16"	3/8"	3/8"	13/32"	.69
P-101-1/2"	1-7/8"	1-3/8"	1-1/16"	1/2"	9/16"	.76



SERIES 101 SOCKETS

The No. 101 Series Sockets are furnished in three types as shown below. Base is of Brass, Nickel Plated with Chrome Flash. Brass contact is Silver Plated. Insulation of low loss natural color XXX Bakelite. Meets Navy Specifications. The S-101-D is similar to the S-101 except that the Bakelite is recessed in the base. S-101-D Mod. is the same as S-101-D except that two sides of the base are milled as shown. Mounting Holes No. 101—No. 41 drill on 1 1/16" centers. Mounting holes No. 101-D and 101-D Mod. No. 30 drill on 1 3/8" centers.



Price Each—\$0.51 Price Each—\$0.76 Price Each—\$0.76

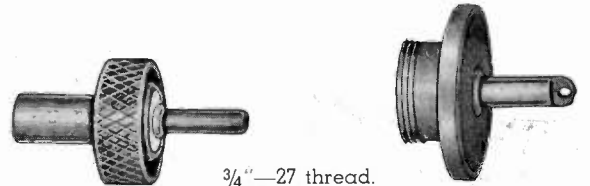
SERIES 201

PLUGS

The No. 201 Series Plugs are of the same design as the No. 101 but are of heavier stock and larger. Made in one size only with 3/8" ferrule. All metal parts are of Brass, same finish as No. 101 Series and Wax Impregnated Ceramic insulation. Overall length 1 9/16". Prong diameter 5/32". Fits only the 201 Socket.

SOCKETS

The 201 Socket is similar to the S-101-D except larger. Brass base is nickel plated with Chrome Flash. Brass contact is Silver Plated. Insulation is of low loss natural color XXX Bakelite. Both Plug and Socket meet Navy Specifications. Mounting holes—No. 30 drill on 1" centers.



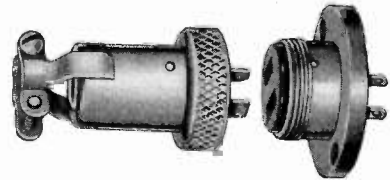
Code 3/4"—27 thread. Ea. Code Ea.
 P-201-3/8" \$0.89 S-201 \$0.95

SERIES 202

PLUGS

The 202 Series Plugs and Sockets are made in two contacts only. Metal parts are of Brass with burnished Cadmium Plate. Insulation is of Molded Bakelite. Phosphor Bronze "Knife Switch" type Socket Contacts engage both sides of flat Plug Contacts—double contact area. Formed Fibre linings in caps. Polarized. Knurled nut has 3/4"—27 thread. Socket Mounting Holes. No. 30 drill on 1" centers.

SOCKETS



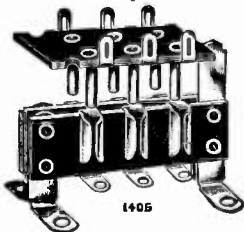
P-202-CCT—\$0.70 P-202-FHT—\$0.57 S-202-B—\$0.83
 (as shown above) (without Cable Clamps)
 S-202-CCT—\$0.72 S-202-FHT—\$0.58 P-202-B—\$0.81

1400 SERIES PLUGS AND SOCKETS

This series of "disconnect" plugs and sockets has the distinct advantage of low cost for a separate unit handling many circuits. Due to exposed metal parts, it is recommended for use when the complete unit is within a housing. Reduces costs of servicing units. Advantageous in shipping when it is desirable to pack units separately. Polarized—assures

correct coupling. Spring temper brass sockets assure perfect contact. Standard units are listed below from 5 to 16 contacts. However we can supply units having as many as 30 or more contacts.

On No. 1420 or larger we recommend the plug be divided into two or more units, as a single long plug is not mechanically strong. The socket will be made in one assembly.



No. 1405	(5 Contacts)	Ea. \$0.35	No. 1411	(11 Contacts)	Ea. \$.68
No. 1406	(6 Contacts)	Ea. .41	No. 1412	(12 Contacts)	Ea. .74
No. 1407	(7 Contacts)	Ea. .46	No. 1413	(13 Contacts)	Ea. .79
No. 1408	(8 Contacts)	Ea. .52	No. 1414	(14 Contacts)	Ea. .85
No. 1409	(9 Contacts)	Ea. .57	No. 1415	(15 Contacts)	Ea. .90
No. 1410	(10 Contacts)	Ea. .63	No. 1416	(16 Contacts)	Ea. .96

For units with more than 16 contacts, add 6c to the No. 1416 price for each additional contact.

BARRIER TYPE TERMINAL STRIPS

Increased insulation is provided by having Barriers placed between each Terminal. These Barriers follow around the edge of the Strips and terminate at the base. They not only make a long leakage path but prevent direct shorts from frayed wires at the terminals. Mounting holes are at the ends as illustrated. The base is molded Bakelite.

The Terminals and Binder Screws are of brass, nickel plated. Marker Strips may be ordered and imprinted to supply terminal designations. These Marker Strips mount beneath Terminal Strips and also afford insulation from metal mounting surface.

5-40 x 1 1/8 Binder Head Screws

No. 140 TERMINAL STRIPS

Metal to Metal Spacing over Bakelite 1/4"



No. 2-140



No. 2-140-W



No. 2-140-3/4 W



No. 2-140-Y

MARKER STRIPS for 140-Y

The standard Marker Strips are of gray fibre 1/8" thick and character designations are imprinted in white. Bakelite Marker Strips can be supplied at an increase in price, and are designated by code MSX instead of MS. Prices on application.

No. 140

Code	Ea.
1-140	\$.15
2-140	.24
3-140	.33
4-140	.42
5-140	.51
6-140	.59
7-140	.68
8-140	.77
9-140	.86
10-140	.95
11-140	1.03
12-140	1.12
13-140	1.21
14-140	1.31
15-140	1.40
16-140	1.49
17-140	1.57
18-140	1.66
19-140	1.75
20-140	1.84
21-140	1.93

No. 140-W

Code	Ea.
1-140-W	\$.19
2-140-W	.32
3-140-W	.44
4-140-W	.57
5-140-W	.69
6-140-W	.83
7-140-W	.95
8-140-W	1.08
9-140-W	1.21
10-140-W	1.33
11-140-W	1.45
12-140-W	1.58
13-140-W	1.71
14-140-W	1.84
15-140-W	1.96
16-140-W	2.09
17-140-W	2.21
18-140-W	2.34
19-140-W	2.46
20-140-W	2.60
21-140-W	2.72

No. 140-3/4 W

Code	Ea.
1-140-3/4 W	\$.19
2-140-3/4 W	.32
3-140-3/4 W	.44
4-140-3/4 W	.57
5-140-3/4 W	.69
6-140-3/4 W	.83
7-140-3/4 W	.95
8-140-3/4 W	1.08
9-140-3/4 W	1.21
10-140-3/4 W	1.33
11-140-3/4 W	1.45
12-140-3/4 W	1.58
13-140-3/4 W	1.71
14-140-3/4 W	1.84
15-140-3/4 W	1.96
16-140-3/4 W	2.09
17-140-3/4 W	2.21
18-140-3/4 W	2.34
19-140-3/4 W	2.46
20-140-3/4 W	2.60
21-140-3/4 W	2.72

MARKER STRIPS for 140, 140-W and 140-3/4 W

The standard Marker Strips are of gray fibre 1/8" thick and character designations are imprinted in white. Bakelite Marker Strips can be supplied at an increase in price, and are designated by code MSX instead of MS. Prices on application.

Code	Per 100
MS-1-140	\$ 2.48
MS-2-140	3.30
MS-3-140	4.13
MS-4-140	4.95
MS-5-140	5.78
MS-6-140	6.60
MS-7-140	7.43
MS-8-140	8.25
MS-9-140	9.08
MS-10-140	9.90
MS-11-140	10.73
MS-12-140	11.55
MS-13-140	12.38
MS-14-140	13.20
MS-15-140	14.03
MS-16-140	14.85
MS-17-140	15.68
MS-18-140	16.50
MS-19-140	17.33
MS-20-140	18.15
MS-21-140	18.98

No. 140-Y

Code	Ea.
1-140-Y	\$.19
2-140-Y	.32
3-140-Y	.44
4-140-Y	.57
5-140-Y	.69
6-140-Y	.83
7-140-Y	.95
8-140-Y	1.08
9-140-Y	1.21
10-140-Y	1.33
11-140-Y	1.45
12-140-Y	1.58
13-140-Y	1.71
14-140-Y	1.84
15-140-Y	1.96
16-140-Y	2.09
17-140-Y	2.21
18-140-Y	2.34
19-140-Y	2.46
20-140-Y	2.60
21-140-Y	2.72

Code	Per 100
MS-1-140-Y	\$ 5.78
MS-2-140-Y	6.60
MS-3-140-Y	7.43
MS-4-140-Y	8.25
MS-5-140-Y	9.08
MS-6-140-Y	9.90
MS-7-140-Y	10.73
MS-8-140-Y	11.55
MS-9-140-Y	12.38
MS-10-140-Y	13.20
MS-11-140-Y	14.03
MS-12-140-Y	14.85
MS-13-140-Y	15.68
MS-14-140-Y	16.50
MS-15-140-Y	17.33
MS-16-140-Y	18.15
MS-17-140-Y	18.98
MS-18-140-Y	19.80
MS-19-140-Y	20.63
MS-20-140-Y	21.45
MS-21-140-Y	22.28

6-32 x 1/4 Binder Head Screws

No. 141 TERMINAL STRIPS

Metal to Metal Spacing over Bakelite 1/4"



No. 2-141



No. 2-141-W



No. 2-141-3/4 W



No. 2-141-Y

MARKER STRIPS for 141-Y

Standard Marker Strips are of gray fibre 1/8" thick. See column above for designation for Bakelite Marker Strips.

No. 141

Code	Ea.
1-141	\$.20
2-141	.31
3-141	.42
4-141	.54
5-141	.65
6-141	.75
7-141	.88
8-141	.99
9-141	1.10
10-141	1.22
11-141	1.33
12-141	1.44
13-141	1.56
14-141	1.67
15-141	1.78
16-141	1.90
17-141	2.01
18-141	2.12
19-141	2.24
20-141	2.35

No. 141-W

Code	Ea.
1-141-W	\$.24
2-141-W	.41
3-141-W	.57
4-141-W	.74
5-141-W	.90
6-141-W	1.07
7-141-W	1.23
8-141-W	1.40
9-141-W	1.56
10-141-W	1.73
11-141-W	1.89
12-141-W	2.06
13-141-W	2.22
14-141-W	2.39
15-141-W	2.55
16-141-W	2.72
17-141-W	2.88
18-141-W	3.05
19-141-W	3.21
20-141-W	3.38

No. 141-3/4 W

Code	Ea.
1-141-3/4 W	\$.24
2-141-3/4 W	.41
3-141-3/4 W	.57
4-141-3/4 W	.74
5-141-3/4 W	.90
6-141-3/4 W	1.07
7-141-3/4 W	1.23
8-141-3/4 W	1.40
9-141-3/4 W	1.56
10-141-3/4 W	1.73
11-141-3/4 W	1.89
12-141-3/4 W	2.06
13-141-3/4 W	2.22
14-141-3/4 W	2.39
15-141-3/4 W	2.55
16-141-3/4 W	2.72
17-141-3/4 W	2.88
18-141-3/4 W	3.05
19-141-3/4 W	3.21
20-141-3/4 W	3.38

MARKER STRIPS for 141, 141-W and 141-3/4 W

Standard Marker Strips are of gray fibre 1/8" thick. See column above for designation for Bakelite Marker Strips.

Code	Per 100
MS-1-141	\$ 2.75
MS-2-141	3.85
MS-3-141	4.95
MS-4-141	6.05
MS-5-141	7.15
MS-6-141	8.25
MS-7-141	9.35
MS-8-141	10.45
MS-9-141	11.55
MS-10-141	12.65
MS-11-141	13.75
MS-12-141	14.85
MS-13-141	15.95
MS-14-141	17.05
MS-15-141	18.15
MS-16-141	19.25
MS-17-141	20.35
MS-18-141	21.45
MS-19-141	22.55
MS-20-141	23.65

No. 141-Y

Code	Ea.
1-141-Y	\$.24
2-141-Y	.41
3-141-Y	.57
4-141-Y	.74
5-141-Y	.90
6-141-Y	1.07
7-141-Y	1.23
8-141-Y	1.40
9-141-Y	1.56
10-141-Y	1.73
11-141-Y	1.89
12-141-Y	2.06
13-141-Y	2.22
14-141-Y	2.39
15-141-Y	2.55
16-141-Y	2.72
17-141-Y	2.88
18-141-Y	3.05
19-141-Y	3.21
20-141-Y	3.38

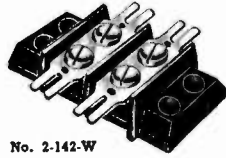
Code	Per 100
MS-1-141-Y	\$ 6.05
MS-2-141-Y	7.15
MS-3-141-Y	8.25
MS-4-141-Y	9.35
MS-5-141-Y	10.45
MS-6-141-Y	11.55
MS-7-141-Y	12.65
MS-8-141-Y	13.75
MS-9-141-Y	14.85
MS-10-141-Y	15.95
MS-11-141-Y	17.05
MS-12-141-Y	18.15
MS-13-141-Y	19.25
MS-14-141-Y	20.35
MS-15-141-Y	21.45
MS-16-141-Y	22.55
MS-17-141-Y	23.65
MS-18-141-Y	24.75
MS-19-141-Y	25.85
MS-20-141-Y	26.95

BARRIER TYPE TERMINAL STRIPS

8-32 x 1/4" Binder Head Screws No. 142 TERMINAL STRIPS Metal to Metal Spacing over Bakelite 1/4"



No. 2-142



No. 2-142-W



No. 2-142-3/4 W

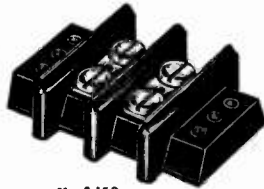


No. 2-142-Y

No. 142		No. 142-W		No. 142-3/4 W		MARKER STRIPS for 142, 142-W, 142-3/4 W		No. 142-Y		MARKER STRIPS for 142-Y	
Code	Ea.	Code	Ea.	Code	Ea.	Code	Per 100	Code	Ea.	Code	Per 100
1-142	\$.23	1-142-W	\$.30	1-142-3/4 W	\$.30	MS-1-142	\$ 3.03	1-142-Y	\$.30	MS-1-142-Y	\$ 6.33
2-142	.36	2-142-W	.50	2-142-3/4 W	.50	MS-2-142	4.40	2-142-Y	.50	MS-2-142-Y	7.70
3-142	.51	3-142-W	.70	3-142-3/4 W	.70	MS-3-142	5.78	3-142-Y	.70	MS-3-142-Y	9.08
4-142	.65	4-142-W	.90	4-142-3/4 W	.90	MS-4-142	7.15	4-142-Y	.90	MS-4-142-Y	10.45
5-142	.78	5-142-W	1.11	5-142-3/4 W	1.11	MS-5-142	8.53	5-142-Y	1.11	MS-5-142-Y	11.83
6-142	.92	6-142-W	1.31	6-142-3/4 W	1.31	MS-6-142	9.90	6-142-Y	1.31	MS-6-142-Y	13.20
7-142	1.07	7-142-W	1.52	7-142-3/4 W	1.52	MS-7-142	11.28	7-142-Y	1.52	MS-7-142-Y	14.58
8-142	1.20	8-142-W	1.72	8-142-3/4 W	1.72	MS-8-142	12.65	8-142-Y	1.72	MS-8-142-Y	15.95
9-142	1.34	9-142-W	1.93	9-142-3/4 W	1.93	MS-9-142	14.03	9-142-Y	1.93	MS-9-142-Y	17.33
10-142	1.49	10-142-W	2.12	10-142-3/4 W	2.12	MS-10-142	15.40	10-142-Y	2.12	MS-10-142-Y	18.70
11-142	1.62	11-142-W	2.33	11-142-3/4 W	2.33	MS-11-142	16.78	11-142-Y	2.33	MS-11-142-Y	20.08
12-142	1.76	12-142-W	2.53	12-142-3/4 W	2.53	MS-12-142	18.15	12-142-Y	2.53	MS-12-142-Y	21.45
13-142	1.90	13-142-W	2.74	13-142-3/4 W	2.74	MS-13-142	19.53	13-142-Y	2.74	MS-13-142-Y	22.83
14-142	2.04	14-142-W	2.94	14-142-3/4 W	2.94	MS-14-142	20.90	14-142-Y	2.94	MS-14-142-Y	24.20
15-142	2.18	15-142-W	3.15	15-142-3/4 W	3.15	MS-15-142	22.28	15-142-Y	3.15	MS-15-142-Y	25.58
16-142	2.32	16-142-W	3.34	16-142-3/4 W	3.34	MS-16-142	23.65	16-142-Y	3.34	MS-16-142-Y	26.95
17-142	2.45	17-142-W	3.54	17-142-3/4 W	3.54	MS-17-142	25.03	17-142-Y	3.54	MS-17-142-Y	28.33

No. 150 TERMINAL STRIPS

1 1/4" wide by 3/4" high. Terminals are mounted on 1/4" centers. Screws: 10-32 x 1/8" brass, burnished nickel plate. Fits standard 50 Amp. solder lug for 6 Ga. stranded wire. Metal to metal spacing over bakelite 5/8".

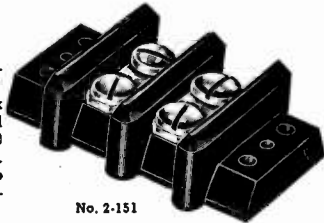


No. 2-150

No. 150		No. 150-W		No. 150-3/4 W		MARKER STRIPS For 150 Series	
Code	Ea.	Code	Ea.	Code	Ea.	Code	Per 100
1-150	\$.55	1-150-W	\$.66	1-150-3/4 W	\$.66	MS-1-150	\$ 6.60
2-150	.94	2-150-W	1.13	2-150-3/4 W	1.13	MS-2-150	8.14
3-150	1.32	3-150-W	1.60	3-150-3/4 W	1.60	MS-3-150	9.68
4-150	1.71	4-150-W	2.07	4-150-3/4 W	2.07	MS-4-150	11.22
5-150	2.09	5-150-W	2.53	5-150-3/4 W	2.53	MS-5-150	12.76
6-150	2.48	6-150-W	3.00	6-150-3/4 W	3.00	MS-6-150	14.30
7-150	2.86	7-150-W	3.46	7-150-3/4 W	3.46	MS-7-150	15.84
8-150	3.25	8-150-W	3.92	8-150-3/4 W	3.92	MS-8-150	17.38
9-150	3.63	9-150-W	4.40	9-150-3/4 W	4.40	MS-9-150	18.92
10-150	4.02	10-150-W	4.87	10-150-3/4 W	4.87	MS-10-150	20.46

No. 151 TERMINAL STRIPS

2" wide by 1 1/4" high. Terminals are mounted on 3/4" centers. Screws: 12-32 x 3/8" brass, burnished nickel plate. Fits standard 70 Amp. solder lug for 4 Ga. stranded wire. Metal to metal spacing over bakelite 3/4".

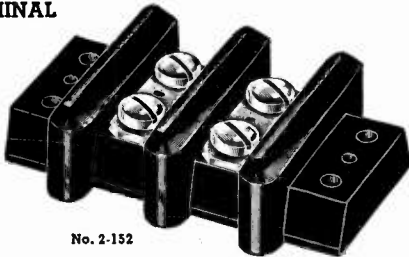


No. 2-151

No. 151		No. 151-W		No. 151-3/4 W		MARKER STRIPS for 151 Series	
Code	Ea.	Code	Ea.	Code	Ea.	Code	Per 100
1-151	\$.94	1-151-W	\$ 1.10	1-151-3/4 W	\$ 1.10	MS-1-151	\$ 6.68
2-151	1.71	2-151-W	2.04	2-151-3/4 W	2.04	MS-2-151	10.18
3-151	2.48	3-151-W	2.97	3-151-3/4 W	2.97	MS-3-151	13.48
4-151	3.25	4-151-W	3.91	4-151-3/4 W	3.91	MS-4-151	16.78
5-151	4.02	5-151-W	4.84	5-151-3/4 W	4.84	MS-5-151	20.08
6-151	4.79	6-151-W	5.78	6-151-3/4 W	5.78	MS-6-151	23.38
7-151	5.56	7-151-W	6.71	7-151-3/4 W	6.71	MS-7-151	26.68
8-151	6.33	8-151-W	7.65	8-151-3/4 W	7.65	MS-8-151	29.98

No. 152 TERMINAL STRIPS

2 1/4" wide by 1 1/2" high. Terminals are mounted on 1 1/4" centers. Screws: 1/4"-28 x 1/2" brass, burnished nickel plate. Fits standard 90 Amp. solder lug for 2 Ga. stranded wire. Metal to metal spacing over bakelite 1".



No. 2-152

No. 152		No. 152-W		No. 152-3/4 W		MARKER STRIPS for 152 Series	
Code	Ea.	Code	Ea.	Code	Ea.	Code	Per 100
1-152	\$ 1.27	1-152-W	\$ 1.49	1-152-3/4 W	\$ 1.49	MS-1-152	\$ 7.15
2-152	2.42	2-152-W	2.86	2-152-3/4 W	2.86	MS-2-152	12.65
3-152	3.58	3-152-W	4.24	3-152-3/4 W	4.24	MS-3-152	18.15
4-152	4.73	4-152-W	5.61	4-152-3/4 W	5.61	MS-4-152	23.65
5-152	5.89	5-152-W	6.99	5-152-3/4 W	6.99	MS-5-152	29.15
6-152	7.04	6-152-W	8.36	6-152-3/4 W	8.36	MS-6-152	34.65

"W" Solder Terminal for Barrier Strips



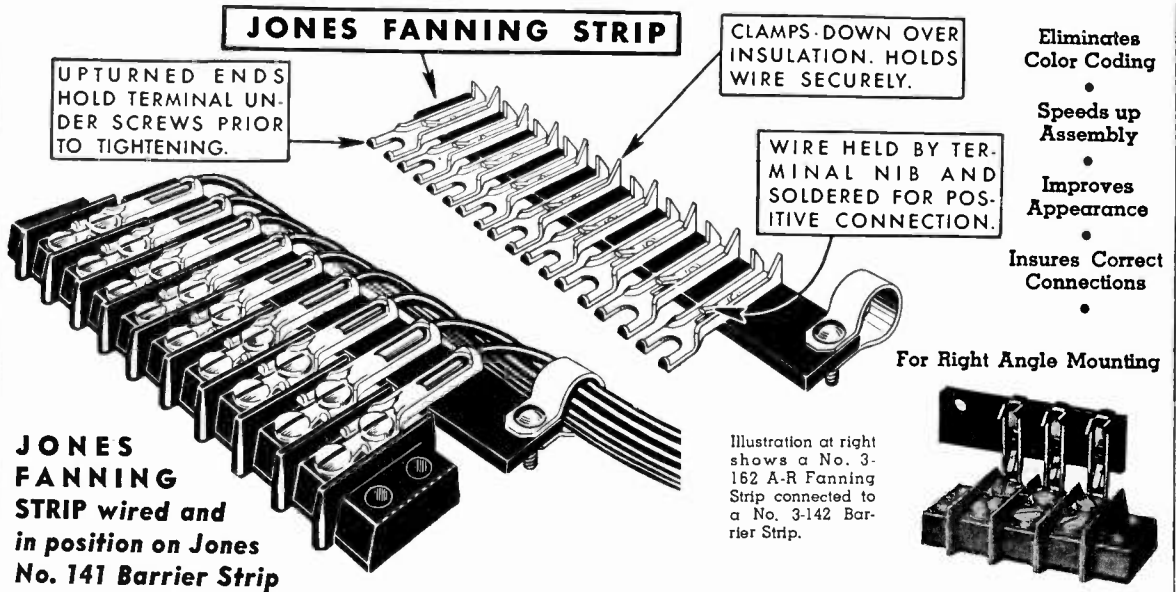
Code	For use with Barrier Strip	Per 100	Code	For use with Barrier Strip	Per 100
No. W-140	No. 140	\$ 3.80	No. W-150	No. 150	\$ 8.86
No. W-141	No. 141	5.06	No. W-151	No. 151	15.18
No. W-142	No. 142	6.33	No. W-152	No. 152	22.77



Solder Terminal

Code	For use with Barrier Strip	Per 100
No. Y-140	No. 140	\$ 3.80
No. Y-141	No. 141	5.06
No. Y-142	No. 142	6.33

FANNING STRIPS FOR CONNECTING TO BARRIER TERMINAL STRIPS



JONES FANNING STRIP wired and in position on Jones No. 141 Barrier Strip

Jones Fanning Strip Terminals are of .032" Brass, Cadmium Plated. The Bakelite strips are furnished with a hole in either the right or left end for fastening the cable with a cable clamp or lacing twine. Simplifies cable or harness wiring, assuring positive connections. Makes replacement of units an easy matter and assures correct connections after servicing.

In many instances where there is not sufficient room for the standard Fanning Strips we can supply those listed formed for right angle mounting permitting use when Barrier mounts flush with the side of the chassis. Specify Series 160A, 161A and 162A instead of 160, 161 and 162. Prices slightly higher.



6-161-L (Cable Clamp on Left)



6-161-R (Cable Clamp on Right)

THE 160 SERIES

The following Fanning Strips fit the 140 Series Barrier Strips. Terminals are mounted on $\frac{3}{8}$ " Bakelite, $\frac{1}{2}$ " wide and on $\frac{3}{8}$ " centers.

Code	Ea.	Code	Ea.
2-160-L	\$.12	2-160-R	\$.12
3-160-L	.18	3-160-R	.18
4-160-L	.23	4-160-R	.23
5-160-L	.29	5-160-R	.29
6-160-L	.35	6-160-R	.35
7-160-L	.41	7-160-R	.41
8-160-L	.46	8-160-R	.46
9-160-L	.52	9-160-R	.52
10-160-L	.58	10-160-R	.58
11-160-L	.64	11-160-R	.64
12-160-L	.69	12-160-R	.69
13-160-L	.75	13-160-R	.75
14-160-L	.81	14-160-R	.81
15-160-L	.87	15-160-R	.87
16-160-L	.92	16-160-R	.92
17-160-L	.98	17-160-R	.98
18-160-L	1.05	18-160-R	1.05
19-160-L	1.10	19-160-R	1.10
20-160-L	1.16	20-160-R	1.16
21-160-L	1.21	21-160-R	1.21

THE 161 SERIES

The following Fanning Strips fit the 141 Series Barrier Strips. Terminals are mounted on $\frac{3}{8}$ " Bakelite, $\frac{1}{2}$ " wide and on $\frac{3}{8}$ " centers.

Code	Ea.	Code	Ea.
2-161-L	\$.13	2-161-R	\$.13
3-161-L	.19	3-161-R	.19
4-161-L	.24	4-161-R	.24
5-161-L	.30	5-161-R	.30
6-161-L	.36	6-161-R	.36
7-161-L	.42	7-161-R	.42
8-161-L	.47	8-161-R	.47
9-161-L	.53	9-161-R	.53
10-161-L	.59	10-161-R	.59
11-161-L	.65	11-161-R	.65
12-161-L	.70	12-161-R	.70
13-161-L	.76	13-161-R	.76
14-161-L	.83	14-161-R	.83
15-161-L	.88	15-161-R	.88
16-161-L	.94	16-161-R	.94
17-161-L	.99	17-161-R	.99
18-161-L	1.06	18-161-R	1.06
19-161-L	1.11	19-161-R	1.11
20-161-L	1.17	20-161-R	1.17

THE 162 SERIES

The following Fanning Strips fit the 142 Series Barrier Strips. Terminals are mounted on $\frac{3}{8}$ " Bakelite, $\frac{1}{2}$ " wide and on $\frac{3}{8}$ " centers.

Code	Ea.	Code	Ea.
2-162-L	\$.15	2-162-R	\$.15
3-162-L	.21	3-162-R	.21
4-162-L	.26	4-162-R	.26
5-162-L	.32	5-162-R	.32
6-162-L	.39	6-162-R	.39
7-162-L	.44	7-162-R	.44
8-162-L	.50	8-162-R	.50
9-162-L	.55	9-162-R	.55
10-162-L	.62	10-162-R	.62
11-162-L	.67	11-162-R	.67
12-162-L	.73	12-162-R	.73
13-162-L	.78	13-162-R	.78
14-162-L	.85	14-162-R	.85
15-162-L	.90	15-162-R	.90
16-162-L	.96	16-162-R	.96
17-162-L	1.01	17-162-R	1.01



CABLE CLAMPS

Cable Clamps are available for the Fanning Strips listed at the left and are furnished in 6 different sizes as listed below. Cable Clamp is of Brass Nickel Plated, with 6-32 round head Nickel Plated Brass Screws. For convenience the Cable Clamps are furnished unassembled.

CABLE CLAMP SIZES AVAILABLE

No.	I. D.
CC-161-4	$\frac{1}{4}$ "
CC-161-6	$\frac{3}{8}$ "
CC-161-8	$\frac{1}{2}$ "
CC-161-10	$\frac{5}{8}$ "
CC-161-12	$\frac{3}{4}$ "
CC-161-14	$\frac{7}{8}$ "

List price 11c each.

Be sure to give code number when ordering.

On small sizes Lacing Twine can be used for anchoring cable to the Fanning Strip instead of Cable Clamp.



NO. 1 TERMINAL STRIPS

Terminal 1/8" Round Copper, Flattened at Ends, Tin Plated
A convenient and compact strip where solder connections are desired.

Insulation: Canvas Base Bakelite, 1/2" wide, 3/8" thick.
Terminals mounted on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-1 (2 Terminals)	\$.12	No. 6-1 (6 Terminals)	\$.17
No. 3-1 (3 Terminals)	.13	No. 7-1 (7 Terminals)	.18
No. 4-1 (4 Terminals)	.14	No. 8-1 (8 Terminals)	.19
No. 5-1 (5 Terminals)	.15	No. 9-1 (9 Terminals)	.20



NO. 12 TERMINAL STRIPS

Terminal 1/16" Brass, Tin Plated

Similar to No. 11, except larger. Solder tab is flat, but will be bent up, if specified.

Screw: 10-32 x 3/8" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 1" wide, 1/4" thick. Terminals mounted on 7/8" centers. Mounting holes 7/8" from center of end terminals. Will take up to No. 9 B & S gauge wire (.114").

Code	Ea.	Code	Ea.
No. 2-12 (2 Terminals)	\$.44	No. 6-12 (6 Terminals)	\$1.14
No. 3-12 (3 Terminals)	.61	No. 7-12 (7 Terminals)	1.32
No. 4-12 (4 Terminals)	.79	No. 8-12 (8 Terminals)	1.50
No. 5-12 (5 Terminals)	.97	No. 9-12 (9 Terminals)	1.67



NO. 3 TERMINAL STRIPS

Terminal 1/8" Round Copper, Flattened at Each End, Tin Plated

Similar to No. 1, except closer spacing and furnished with holes instead of hooks.

Insulation: Canvas base Bakelite, 1/2" wide, 3/8" thick.
Terminals mounted on 3/8" centers. Mounting holes 3/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-3 (2 Terminals)	\$.14	No. 6-3 (6 Terminals)	\$.19
No. 3-3 (3 Terminals)	.15	No. 7-3 (7 Terminals)	.20
No. 4-3 (4 Terminals)	.17	No. 8-3 (8 Terminals)	.21
No. 5-3 (5 Terminals)	.18	No. 9-3 (9 Terminals)	.22



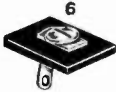
NO. 16 TERMINAL STRIPS

Terminal .028" Brass, Cadmium Plated

A popular priced screw and solder terminal with many desirable features.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 3/4" wide, 1/4" thick. Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-16 (2 Terminals)	\$.13	No. 6-16 (6 Terminals)	\$.31
No. 3-16 (3 Terminals)	.18	No. 7-16 (7 Terminals)	.35
No. 4-16 (4 Terminals)	.22	No. 8-16 (8 Terminals)	.40
No. 5-16 (5 Terminals)	.26	No. 9-16 (9 Terminals)	.44



NO. 6 TERMINAL STRIPS

Terminal .046" Brass, Cadmium Plated

Screw and solder terminal. Substantial and reasonably priced.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 3/4" wide, 1/4" thick. Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-6 (2 Terminals)	\$.15	No. 6-6 (6 Terminals)	\$.33
No. 3-6 (3 Terminals)	.20	No. 7-6 (7 Terminals)	.37
No. 4-6 (4 Terminals)	.24	No. 8-6 (8 Terminals)	.42
No. 5-6 (5 Terminals)	.29	No. 9-6 (9 Terminals)	.46



NO. 20 TERMINAL STRIPS

Terminal 1/16" Brass, Burnished Nickel Plate

Strong two screw terminal with ears to hold wire securely under screw.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/4" thick. Terminals mounted on 5/8" centers. Mounting holes 5/8" from center of end terminals. Will take up to No. 13 B & S gauge wire (.071").

Code	Ea.	Code	Ea.
No. 2-20 (2 Terminals)	\$.31	No. 6-20 (6 Terminals)	\$.92
No. 3-20 (3 Terminals)	.46	No. 7-20 (7 Terminals)	1.08
No. 4-20 (4 Terminals)	.62	No. 8-20 (8 Terminals)	1.23
No. 5-20 (5 Terminals)	.77	No. 9-20 (9 Terminals)	1.39



NO. 7 TERMINAL STRIPS

Terminal .046" Brass, Burnished Nickel Plate

A two screw insulated terminal strip that can be mounted directly on metal surface.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/4" thick (total). Terminals mounted on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-7 (2 Terminals)	\$.22	No. 6-7 (6 Terminals)	\$.62
No. 3-7 (3 Terminals)	.32	No. 7-7 (7 Terminals)	.72
No. 4-7 (4 Terminals)	.42	No. 8-7 (8 Terminals)	.81
No. 5-7 (5 Terminals)	.52	No. 9-7 (9 Terminals)	.91



NO. 21 TERMINAL STRIPS

Terminal 1/16" Brass, Burnished Nickel Plate

Similar to No. 20, except larger.

Screw: 8-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 1 1/8" wide, 1/4" thick. Terminals mounted on 3/4" centers. Mounting holes 3/4" from center of end terminals. Will take up to No. 11 B & S gauge wire (.090").

Code	Ea.	Code	Ea.
No. 2-21 (2 Terminals)	\$.44	No. 6-21 (6 Terminals)	\$1.14
No. 3-21 (3 Terminals)	.62	No. 7-21 (7 Terminals)	1.32
No. 4-21 (4 Terminals)	.79	No. 8-21 (8 Terminals)	1.50
No. 5-21 (5 Terminals)	.97	No. 9-21 (9 Terminals)	1.67



NO. 10 TERMINAL STRIPS

Terminal 1/16" Brass, Tin Plated

Sturdy screw and solder terminal with both screw and solder connections on top of bakelite panel. Solder terminal turned up.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 5/8" wide, 1/4" thick. Terminals spaced on 5/8" centers. Mounting holes 5/8" from center of end terminals. Will take up to No. 15 B & S gauge wire (.057").

Code	Ea.	Code	Ea.
No. 2-10 (2 Terminals)	\$.23	No. 6-10 (6 Terminals)	\$.67
No. 3-10 (3 Terminals)	.34	No. 7-10 (7 Terminals)	.78
No. 4-10 (4 Terminals)	.45	No. 8-10 (8 Terminals)	.89
No. 5-10 (5 Terminals)	.56	No. 9-10 (9 Terminals)	1.00



NO. 22 TERMINAL STRIPS

Terminal 1/16" Brass, Burnished Nickel Plate

Similar to No. 21, except larger.

Screw: 10-32 x 3/8" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 1 1/4" wide, 1/4" thick. Terminals mounted on 7/8" centers. Mounting holes 7/8" from center of end terminals. Will take up to No. 8 B & S gauge wire (.128").

Code	Ea.	Code	Ea.
No. 2-22 (2 Terminals)	\$.58	No. 6-22 (6 Terminals)	\$1.46
No. 3-22 (3 Terminals)	.80	No. 7-22 (7 Terminals)	1.68
No. 4-22 (4 Terminals)	1.02	No. 8-22 (8 Terminals)	1.90
No. 5-22 (5 Terminals)	1.24	No. 9-22 (9 Terminals)	2.02



NO. 11 TERMINAL STRIPS

Terminal 1/16" Brass, Tin Plated

Similar to No. 10, except larger in size and the solder tab is flat, but will be bent up, if specified.

Screw: 8-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/4" thick. Terminals mounted on 3/4" centers. Mounting holes 3/4" from center of end terminals. Will take up to No. 12 B & S gauge wire (.080").

Code	Ea.	Code	Ea.
No. 2-11 (2 Terminals)	\$.31	No. 6-11 (6 Terminals)	\$.79
No. 3-11 (3 Terminals)	.43	No. 7-11 (7 Terminals)	.91
No. 4-11 (4 Terminals)	.55	No. 8-11 (8 Terminals)	1.03
No. 5-11 (5 Terminals)	.67	No. 9-11 (9 Terminals)	1.16



NO. 32 TERMINAL STRIPS

Terminal .050" Brass, Tin Plated

An ideal terminal strip (solder type) for medium heavy wiring. One or more wires may be connected to this terminal.

Insulation: XX Bakelite, 5/8" wide, 1/4" thick. Terminals mounted on 5/8" centers. Mounting holes 5/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-32 (2 Terminals)	\$.22	No. 6-32 (6 Terminals)	\$.62
No. 3-32 (3 Terminals)	.32	No. 7-32 (7 Terminals)	.72
No. 4-32 (4 Terminals)	.42	No. 8-32 (8 Terminals)	.81
No. 5-32 (5 Terminals)	.52	No. 9-32 (9 Terminals)	.91



34

NO. 34 TERMINAL STRIPS

Terminal .062" Brass, Cadmium Plated

Very substantial and neat appearing terminal. Ample length solder terminal below panel, with screw connection above.

Screw: 8-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/8" thick.

Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-34 (2 Terminals)	\$.22	No. 6-34 (6 Terminals)	\$.44
No. 3-34 (3 Terminals)	.28	No. 7-34 (7 Terminals)	.50
No. 4-34 (4 Terminals)	.33	No. 8-34 (8 Terminals)	.55
No. 5-34 (5 Terminals)	.39	No. 9-34 (9 Terminals)	.61



53

NO. 53 TERMINAL STRIPS

Terminal, Spring Temper Brass, Cadmium Plated

A reliable socket type contact for many uses. Takes 1/8" prongs. May be used with No. 98 terminal strips (same terminal spacing).

Insulation: XP Bakelite, 1/2" wide, 3/4" thick. Terminals mounted on 3/8" centers. Mounting holes 3/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-53 (2 Terminals)	\$.19	No. 6-53 (6 Terminals)	\$.32
No. 3-53 (3 Terminals)	.22	No. 7-53 (7 Terminals)	.35
No. 4-53 (4 Terminals)	.25	No. 8-53 (8 Terminals)	.39
No. 5-53 (5 Terminals)	.29	No. 9-53 (9 Terminals)	.42



36A

NO. 36A TERMINAL STRIPS

Terminal .031" Brass, Cadmium Plated

A popular priced screw and solder terminal with both screw and solder tab on same side of bakelite panel.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 3/8" wide, 1/4" thick. Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-36A (2 Terminals)	\$.13	No. 6-36A (6 Terminals)	\$.31
No. 3-36A (3 Terminals)	.18	No. 7-36A (7 Terminals)	.35
No. 4-36A (4 Terminals)	.22	No. 8-36A (8 Terminals)	.40
No. 5-36A (5 Terminals)	.26	No. 9-36A (9 Terminals)	.44



59

NO. 59 TERMINAL STRIPS

Terminal .028" Brass, Tin Plated

An inexpensive solder terminal. One wire may be brought up through hole and soldered, leaving vertical tab for other connection.

Insulation: XP Bakelite, 3/8" wide, 1/4" thick. Terminals mounted on 1/4" centers. Mounting holes 1/4" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-59 (2 Terminals)	\$.08	No. 6-59 (6 Terminals)	\$.21
No. 3-59 (3 Terminals)	.11	No. 7-59 (7 Terminals)	.24
No. 4-59 (4 Terminals)	.14	No. 8-59 (8 Terminals)	.28
No. 5-59 (5 Terminals)	.18	No. 9-59 (9 Terminals)	.31



42

NO. 42 TERMINAL STRIPS

Terminal, Hard Brass, Cadmium Plated

Similar in construction to No. 53. Takes 1/8" prong. May be used with No. 99 terminal strips (same terminal spacing).

Insulation: XP Bakelite, 1/2" wide, 3/4" thick. Terminals mounted on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-42 (2 Terminals)	\$.22	No. 6-42 (6 Terminals)	\$.40
No. 3-42 (3 Terminals)	.26	No. 7-42 (7 Terminals)	.44
No. 4-42 (4 Terminals)	.31	No. 8-42 (8 Terminals)	.48
No. 5-42 (5 Terminals)	.35	No. 9-42 (9 Terminals)	.53



60

NO. 60 TERMINAL STRIPS

Terminal .050" Brass, Cadmium Plated

Screw terminal above panel—solder terminal below. Solder tab is notched.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/8" thick.

Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-60 (2 Terminals)	\$.18	No. 6-60 (6 Terminals)	\$.41
No. 3-60 (3 Terminals)	.24	No. 7-60 (7 Terminals)	.46
No. 4-60 (4 Terminals)	.30	No. 8-60 (8 Terminals)	.52
No. 5-60 (5 Terminals)	.35	No. 9-60 (9 Terminals)	.57



43

NO. 43 TERMINAL STRIPS

Terminal, Hard Brass, Cadmium Plated

Same as No. 42, except that it takes 1/2" prongs. May be used with No. 100 terminal strips.

Insulation: XP Bakelite, 3/4" wide, 1/2" thick. Terminals mounted on 3/8" centers. Mounting holes 3/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-43 (2 Terminals)	\$.28	No. 6-43 (6 Terminals)	\$.50
No. 3-43 (3 Terminals)	.33	No. 7-43 (7 Terminals)	.55
No. 4-43 (4 Terminals)	.39	No. 8-43 (8 Terminals)	.61
No. 5-43 (5 Terminals)	.44	No. 9-43 (9 Terminals)	.66



66-S

NO. 66-S TERMINAL STRIPS

Terminal .032" Hard Brass, Cadmium Plated

A heavy solder terminal with large oval hole for several wires.

Insulation: XP Bakelite, 3/4" wide, 1/2" thick. Terminals mounted on 3/8" centers. Mounting holes 3/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-66-S (2 Terminals)	\$.09	No. 6-66-S (6 Terminals)	\$.22
No. 3-66-S (3 Terminals)	.12	No. 7-66-S (7 Terminals)	.25
No. 4-66-S (4 Terminals)	.15	No. 8-66-S (8 Terminals)	.29
No. 5-66-S (5 Terminals)	.19	No. 9-66-S (9 Terminals)	.32



48

NO. 48 TERMINAL STRIPS

Terminal .028" Brass, Tin Plated

A low priced double solder terminal.

Insulation: XP Bakelite, 1/2" wide, 1/4" thick. Terminals mounted on 1/4" centers. Mounting holes 1/4" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-48 (2 Terminals)	\$.08	No. 6-48 (6 Terminals)	\$.21
No. 3-48 (3 Terminals)	.11	No. 7-48 (7 Terminals)	.24
No. 4-48 (4 Terminals)	.14	No. 8-48 (8 Terminals)	.28
No. 5-48 (5 Terminals)	.18	No. 9-48 (9 Terminals)	.31



66-D

NO. 66-D TERMINAL STRIPS

Terminal .032" Hard Brass, Cadmium Plated

Two No. 66 terminals mounted on opposite sides of panel and riveted together by solid rivet. Ideal strip for heavy work.

Insulation: XP Bakelite, 3/4" wide, 1/2" thick. Terminals mounted on 3/8" centers. Mounting holes 3/8" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-66-D (2 Terminals)	\$.11	No. 6-66-D (6 Terminals)	\$.29
No. 3-66-D (3 Terminals)	.15	No. 7-66-D (7 Terminals)	.33
No. 4-66-D (4 Terminals)	.20	No. 8-66-D (8 Terminals)	.37
No. 5-66-D (5 Terminals)	.24	No. 9-66-D (9 Terminals)	.42



50

NO. 50 TERMINAL STRIPS

Terminal .062" Brass, Cadmium Plated

One of the most popular screw and solder terminals. Made of heavy stock with ears to firmly hold wires under screw.

Screw: 8-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 7/8" wide, 1/8" thick. Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-50 (2 Terminals)	\$.21	No. 6-50 (6 Terminals)	\$.43
No. 3-50 (3 Terminals)	.26	No. 7-50 (7 Terminals)	.48
No. 4-50 (4 Terminals)	.32	No. 8-50 (8 Terminals)	.54
No. 5-50 (5 Terminals)	.37	No. 9-50 (9 Terminals)	.59



76

NO. 76 TERMINAL STRIPS

Terminal .028" Brass, Cadmium Plated

Cup shaped top holds wire securely under screw. A compact and good appearing terminal.

Screw: 6-32 x 1/4" brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 3/4" wide, 1/2" thick. Terminals spaced on 1/2" centers. Mounting holes 1/2" from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-76 (2 Terminals)	\$.15	No. 6-76 (6 Terminals)	\$.33
No. 3-76 (3 Terminals)	.20	No. 7-76 (7 Terminals)	.37
No. 4-76 (4 Terminals)	.24	No. 8-76 (8 Terminals)	.42
No. 5-76 (5 Terminals)	.29	No. 9-76 (9 Terminals)	.46



AG 76

AG-76

Standard Antenna-Ground strip using No. 78 terminals. Insulation: $\frac{1}{8}$ " Bakelite, $\frac{1}{4}$ " wide. Mounting centers $1\frac{1}{2}$ ". Ends rounded. Letters A and G are filled in white.
No. AG-76 Ea. \$.13



NO. 96 TERMINAL STRIPS

Terminal, Spring Temper Brass, Cadmium Plated

Perhaps the most popular socket terminal ever sold. Takes standard tube prongs (No. 99 or No. 100). Furnished for No. 99 prongs ($\frac{1}{8}$ " unless otherwise specified). Insulation: XP Bakelite, $\frac{3}{8}$ " wide, $\frac{1}{8}$ " thick. Terminals mounted on $\frac{1}{4}$ " centers. Mounting holes $\frac{1}{4}$ " from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-96 (2 Terminals)	\$.09	No. 6-96 (6 Terminals)	\$.22
No. 3-96 (3 Terminals)	.12	No. 7-96 (7 Terminals)	.25
No. 4-96 (4 Terminals)	.15	No. 8-96 (8 Terminals)	.29
No. 5-96 (5 Terminals)	.19	No. 9-96 (9 Terminals)	.32



NO. 98 TERMINAL STRIPS

Terminal $3/32$ " Round, Brass, Cadmium Plated

Standard tube base prong of $\frac{1}{8}$ " diameter. To be used with No. 53 terminal strips. Insulation: XP Bakelite, $\frac{1}{2}$ " wide, $\frac{3}{8}$ " thick. Terminals mounted on $\frac{3}{8}$ " centers.

Code	Ea.	Code	Ea.
No. 2-98 (2 Terminals)	\$.08	No. 6-98 (6 Terminals)	\$.21
No. 3-98 (3 Terminals)	.11	No. 7-98 (7 Terminals)	.24
No. 4-98 (4 Terminals)	.14	No. 8-98 (8 Terminals)	.28
No. 5-98 (5 Terminals)	.18	No. 9-98 (9 Terminals)	.31



NO. 99 TERMINAL STRIPS

Terminal $1/8$ " Round, Brass, Cadmium Plated

Similar to No. 98, except that it is $1/8$ " in diameter. To be used with No. 42 terminal strips, and also with No. 96 terminal strips. Insulation: XP Bakelite, $1/2$ " wide, $3/8$ " thick. Terminals mounted on $1/2$ " centers.

Code	Ea.	Code	Ea.
No. 2-99 (2 Terminals)	\$.11	No. 6-99 (6 Terminals)	\$.29
No. 3-99 (3 Terminals)	.15	No. 7-99 (7 Terminals)	.33
No. 4-99 (4 Terminals)	.20	No. 8-99 (8 Terminals)	.37
No. 5-99 (5 Terminals)	.24	No. 9-99 (9 Terminals)	.42



NO. 100 TERMINAL STRIPS

Terminal $5/32$ " Round, Brass, Cadmium Plated

Similar to No. 99, except $5/32$ " in diameter. To be used with No. 43 terminal strip, and No. 96 terminal strip. Insulation: XP Bakelite, $3/8$ " wide, $1/4$ " thick. Terminals mounted on $3/8$ " centers.

Code	Ea.	Code	Ea.
No. 2-100 (2 Terminals)	\$.17	No. 6-100 (6 Terminals)	\$.40
No. 3-100 (3 Terminals)	.23	No. 7-100 (7 Terminals)	.45
No. 4-100 (4 Terminals)	.29	No. 8-100 (8 Terminals)	.51
No. 5-100 (5 Terminals)	.34	No. 9-100 (9 Terminals)	.56



NO. 130 TERMINAL STRIPS

Terminals Brass, Burnished Nickel Plate

An inexpensive terminal strip with two screw terminals. Screws: 5-40 x $1/4$ " brass, binder head, burnished nickel plate. Insulation: XP Bakelite, $7/8$ " wide, $1/4$ " thick. Terminals mounted on $1/2$ " centers. Mounting holes $1/2$ " from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-130 (2 Terminals)	\$.17	No. 6-130 (6 Terminals)	\$.52
No. 3-130 (3 Terminals)	.25	No. 7-130 (7 Terminals)	.61
No. 4-130 (4 Terminals)	.34	No. 8-130 (8 Terminals)	.69
No. 5-130 (5 Terminals)	.43	No. 9-130 (9 Terminals)	.78



131

NO. 131 TERMINAL STRIPS

Terminals Brass, Burnished Nickel Plate

Similar to No. 130, except larger. Screws: 6-32 x $1/4$ " brass, binder head, burnished nickel plate. Insulation: XP Bakelite, 1" wide, $1/2$ " thick. Terminals mounted on $3/4$ " centers. Mounting holes $3/4$ " from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-131 (2 Terminals)	\$.21	No. 6-131 (6 Terminals)	\$.61
No. 3-131 (3 Terminals)	.31	No. 7-131 (7 Terminals)	.70
No. 4-131 (4 Terminals)	.41	No. 8-131 (8 Terminals)	.80
No. 5-131 (5 Terminals)	.51	No. 9-131 (9 Terminals)	.90



132

NO. 132 TERMINAL STRIPS

Terminals Brass, Burnished Nickel Plate

Similar to No. 131, except larger. Screws 8-32 x $1/4$ " brass, binder head, burnished nickel plate. Insulation: XP Bakelite, $1\frac{1}{8}$ " wide, $1/2$ " thick. Terminals mounted on $3/4$ " centers. Mounting holes $3/4$ " from center of end terminals.

Code	Ea.	Code	Ea.
No. 2-132 (2 Terminals)	\$.25	No. 6-132 (6 Terminals)	\$.69
No. 3-132 (3 Terminals)	.36	No. 7-132 (7 Terminals)	.80
No. 4-132 (4 Terminals)	.47	No. 8-132 (8 Terminals)	.91
No. 5-132 (5 Terminals)	.58	No. 9-132 (9 Terminals)	1.02



143

No. 143 TERMINAL STRIPS

Terminal .040" Brass, Tin Plated

A strong two-way solder terminal. Solder tabs lie flat. Crimps securely around edges of panel.

Special Strips

These strips can be made up special, with terminals mounted on any centers, from $3/8$ " up.

Standard Strips

Insulation: XP Bakelite, $3/8$ " wide, $5/8$ " thick. Terminals mounted on $1/2$ " centers. Mounting holes $1/2$ " from center of end terminals. Terminals may be numbered or lettered in white, as illustrated. (See page 18 for imprinting cost.)

Code	Ea.	Code	Ea.
No. 2-143 (2 Terminals)	\$.11	No. 6-143 (6 Terminals)	\$.24
No. 3-143 (3 Terminals)	.14	No. 7-143 (7 Terminals)	.28
No. 4-143 (4 Terminals)	.18	No. 8-143 (8 Terminals)	.31
No. 5-143 (5 Terminals)	.21	No. 9-143 (9 Terminals)	.34



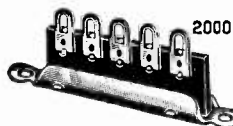
2-170

No. 170 TERMINAL STRIPS

Terminal .032" Brass, Tin Plated

A heavy solder terminal. Insulation: Black molded Bakelite, $1/8$ " wide, $1/4$ " thick. Terminals mounted on $3/8$ " centers. Mounting holes are $3/8$ " from center of end terminals.

Code	Ea.	Code	Ea.
No. 1-170 (1 Terminal)	\$.18	No. 6-170 (6 Terminals)	\$.40
No. 2-170 (2 Terminals)	.22	No. 7-170 (7 Terminals)	.44
No. 3-170 (3 Terminals)	.26	No. 8-170 (8 Terminals)	.48
No. 4-170 (4 Terminals)	.31	No. 9-170 (9 Terminals)	.53
No. 5-170 (5 Terminals)	.35	No. 10-170 (10 Terminals)	.57



2000

NO. 2000 TERMINAL STRIPS

Terminals .019" Brass, Tin Plated

Compact and sturdy junction terminal strip. Useful in assembling radio chassis, wiring, etc.

Insulation: Bakelite. Brackets: Steel, cadmium plated. Terminals spaced on $1/8$ " centers.

Code	Mounting Hole Centers:	Per 100
No. 2002 (2 Terminals)	1"	\$ 7.04
No. 2003 (3 Terminals)	1-5/16"	7.70
No. 2004 (4 Terminals)	1-5/8"	8.36
No. 2005 (5 Terminals)	1-15/16"	9.02
No. 2006 (6 Terminals)	2-1/4"	9.68
No. 2007 (7 Terminals)	2-9/16"	10.34
No. 2008 (8 Terminals)	2-7/8"	11.00
No. 2009 (9 Terminals)	3-3/16"	11.66
No. 2010 (10 Terminals)	3-1/2"	12.32
No. 2011 (11 Terminals)	3-13/16"	12.98
No. 2012 (12 Terminals)	4-1/8"	13.64
No. 2013 (13 Terminals)	4-7/16"	14.30

EBY SALES COMPANY

SOCKETS

MINIATURE SHOCK SHIELD TYPE: 7 prongs, 7/8" mounting centers



Cat. No.		List Price each
102M	Ceramic, beryllium copper contacts, JAN-SO-10C.....	\$1.15
103M	Mica-filled bakelite, beryllium copper contacts, JAN-SO-10M.....	0.70
8322	Black bakelite, phosphor bronze contacts	0.32
8328	Ceramic, phosphor bronze contacts	0.55
8329	Mica-filled bakelite, phosphor bronze contacts	0.35

MINIATURE SADDLE TYPE: 7 prongs, 7/8" mounting centers



Cat. No.		List Price each
8323	Black bakelite, phosphor bronze contacts (with center grounding shield)	\$0.17
8539	Black bakelite, phosphor bronze contacts (no center grounding shield)	0.15
8326	Ceramic, phosphor bronze contacts (with center grounding shield).....	0.45
8327	Mica-filled bakelite, phosphor bronze contacts (with center grounding shield)	0.20

SHIELDS FOR MINIATURE SHOCK SHIELD TYPE SOCKETS:



Steel, cadmium plated with inner spring

Cat. No.		List Price each
7797	Height 1 3/4".....	\$0.19
7798	Height 1 3/8".....	0.19
8694	Height 2-11/64".....	0.30

FOR MINIATURE SADDLE TYPE SOCKET:



Cat. No.		List Price each
8757	Height 1 3/4". Steel, cadmium plated	\$0.10
8758	Shield holder	0.05

LAMINATED MINIATURE SOCKETS:



Cat. No.		List Price each
47-1	7 pin, laminated bakelite, spring brass contacts, no center grounding shield.....	\$0.10
47-2	7 pin, laminated bakelite spring brass contacts, with center shield and ground strap.....	0.11
47-9	9 pin, laminated bakelite, spring brass contacts, with center shield, no ground strap.....	0.13

CRYSTAL SOCKET



Cat. No.		List Price each
CR-7	For crystals having .050 diameter pins and .486 spacing between pins. Steatite, grade L-5 JAN-1-10. Contacts: Phosphor bronze, cadmium plated, or beryllium copper, silver plated with tabs tinned. Phosphor Bronze Contacts...\$0.40 Beryllium Copper Contacts... 0.60	



SO-200	For crystals having 3/4" centers and .135 diameter. Banana type or .156 solid type pins. Insulator: Low Loss Phenolic. Contacts: Beryllium Copper, Silver Plated	0.65
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TYPE 12 SOCKETS Phosphor bronze contacts, 1-11/16" mounting centers

Cat. No.	No. of Contacts	List Price each
12-4	4	\$0.40
12-5	5	0.45
12-6	6	0.45
12-7 N-O	7 lg. & sm. comb.	0.50
12-8	8 Octal.....	0.50



OCTAL SADDLE TYPE:

Cat. No.		List Price
9067	Black bakelite, steel saddle, cadmium plated with 4 ground lugs. Mounting centers, 1-5/16". Brass contacts, cadmium plated.....	\$0.13 ea.



LOCTAL SADDLE TYPE:

Cat. No.		List Price
8451	Black bakelite, steel saddle, cadmium plated with 4 ground lugs. Mounting centers 1-5/16". Phosphor bronze contacts, cadmium plated.	\$0.17 ea.

OCTAL ALL-MOLDED TYPE:

Cat. No.		List Price
8490	Black bakelite, mounting centers 1-5/16". Brass contacts, cadmium plated.....	\$0.14 ea.



LOCTAL ALL-MOLDED TYPE:

Cat. No.		List Price
8191	Black bakelite, mounting centers 1-5/16". Phosphor bronze contacts, cadmium plated	\$0.16 ea.

MAGNAL TYPE TELEVISION SOCKET:

Cat. No.		List Price
S-20-11	Black bakelite, phosphor bronze contacts, cadmium plated. 11 contacts. Supplied with press-on permanent mounting ring.....	\$0.85 ea.



DUO DECAL TYPE TELEVISION SOCKET:

Cat. No.		List Price
9700	Accommodates up to 12 pins. Top diameter is 1-23/32"; overall depth is 63/64". Contacts recessed to avoid shorting	\$1.10 ea.

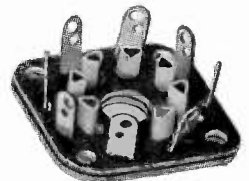


DI HEPTAL TYPE TELEVISION SOCKET:

Cat. No.		List Price
9709-6	Heavy-duty type, accommodates up to 14 pins. Top diameter is 2-7/32"; overall depth is 63/64". Contacts recessed to avoid shorting.	\$1.20 ea.

OCTAL TYPE:

Cat. No. 46-5-E	8 prong:	
Dimensions:		
Mounting Centers	1-5/16"	
Overall Width	1-13/32"	
Overall Length	1-5/8"	
List Price \$0.10 ea.		



Cat. No. 46-1-E	8 prong:	
Dimensions:		
Mounting Centers	1-1/2"	
Overall Width	1-13/32"	
Overall Length	1-27/32"	
List Price \$0.10 ea.		

GLASS TUBE TYPE:

Cat. No.	Mounting Centers	Width	Length	List Price each	
34-1AA	4 prong	1 1/2"	1 3/8"	1 7/8"	\$0.10
34-1B	5 prong	1 1/2"	1 1/2"	1 7/8"	0.11
34-1C	6 prong	1 1/2"	1 1/2"	1 7/8"	0.12
34-1DX	7 prong	1 1/2"	1 1/2"	1 7/8"	0.13

EBY SALES COMPANY

PLUGS



MOLDED BATTERY PLUGS

Cat. No.	Number of Prongs	Volts	Batt.	List Price each
30-2	2	3	A	\$0.09
30-3B	3	45	B	0.09
30-3C	3	4½	C	0.09
30-4L	4		A & B	0.09
30-5	5	22½	C	0.11
30-7½	5	7½	C	0.11



Cat. No.	Number of Prongs	Volts	Batt.	List Price each
30-2M	2	1½	A	\$0.08
30-2M3	2	6	A	0.09
30-3M	3	45	Midget B	0.08



MOLDED SPEAKER PLUGS

Cat. No.	No. of Prongs	List Price ea.
29-4	4	\$0.11
29-5	5	0.11
29-6	6	0.12
29-7	7 .750 layout	0.13



Cat. No.	No. of Prongs	List Price ea.
28-6	6	\$0.20
28-4	4	0.21
28-5	5	0.24
28-7	7 .750 layout	0.26



LAMINATED BATTERY PLUGS

Cat. No.	Number of Prongs	Volts	Batt.	List Price each
66-2	2	3	A	\$0.06
66-2M	2	1½	A	0.05
66-2M3	2	6	A	0.05
66-3B	3	45	B	0.07
66-3C	3	4½	C	0.08
66-3M	3	45	Midget B	0.06
66-4MS	4		A & B	0.07
66-4	4		A & B	0.09
66-4½	2	4½	A	0.05
66-8	9		A & B	0.13

BINDING POSTS



Cat. No. 37. ENSIGN: Knobs and base are molded Bakelite. Metal inserts are plain brass. Knurled base prevents post turning.

Knob: ½" diam. x 7/16" high. Base: ½" diam. x ¼" thick. Solid Stem: 6/32" x 5/8" long. Drilled Neck Diameter: 3/16". Width of contact flanges: 3/8".
List Price \$0.35 ea.

Cat. No. 38. ENSIGN: Same as No. 37 except that it has a molded insulating boss on base. List Price \$0.37 ea.

Cat. No. 39. ENSIGN: Same as No. 37 except that it has molded dowel pin on base. List Price \$0.37 ea.



Cat. No. 40. COMMANDER: Knobs and base are molded Bakelite. Metal inserts are plain brass. Knurled base prevents post turning.

Knob: 9/16" diam. x ½" high. Base: 5/8" diam. x ¼" thick. Solid Stem: 8/32" x 7/8" long. Drilled Neck Diameter: 13/64". Width of contact flanges: 7/16".
List Price \$0.50 ea.

Cat. No. 41. COMMANDER: Same as No. 40 except that it has a molded insulating boss on base. List Price \$0.55 ea.



Cat. No. 42. COMMANDER: Same as No. 40 except that it has a metal dowel pin on base. List Price \$0.55 ea.

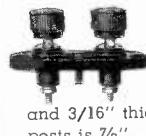
Cat. No. 43. ADMIRAL: Knobs and base are molded Bakelite. Metal inserts are plain brass. Knurled base prevents post turning.

Knob: 5/8" diam. x 17/32" high. Base: 23/32" diam. x ¼" thick. Solid Stem: 8/32" x ¾" long. Plain Neck: 13/64" diameter. Width of contact flanges: 7/16".
List Price \$0.60 ea.

Cat. No. 44. ADMIRAL: Same as No. 43 except that it has molded insulating boss on base. List Price \$0.55 ea.

Cat. No. 45. ADMIRAL: Same as No. 43 except that it has a molded dowel pin on base. List Price \$0.55 ea.

Cat. No. 43-S. ADMIRAL: Same as No. 43 except that it has an elongated slot in neck. List Price \$0.65



Cat. No. 21-R. All-molded Bakelite, non-removable tops. Both posts completely insulated. Center mounting screw 6/32" x ¼" long. Base is 2" long, 11/16" wide and 3/16" thick. Center distance between posts is 7/8".
List Price \$0.70 ea.



Cat. No. 21-S. All-molded Bakelite, non-removable tops. One post is completely insulated. One mounting screw 6/32" x ¼" long. Ground post is second mounting screw. Base is 2" long, 11/16" wide and 3/16" thick. List Price \$0.70 ea.

TIP JACKS

Cat. No. 49. Top diameter ½" x 5/32" thick. Threaded brass body 5/16"-32 x ¾" long. One hexagon nut and two insulating washers furnished. Hole for washers is 19/64". Red or Black Bakelite top.



List Price: Red\$0.19 ea.
Black ... 0.17 ea.

Cat. No. 52. Top diameter ½" x 1/8" thick. Body is 5/16" x ¾" long. Special steel assembly washers, cadmium plated, are furnished. Red or black Bakelite.



List Price: Red\$0.10 ea.
Black ... 0.09 ea.

Cat. No. 76. Top diameter 5/8" x 5/32" thick. Body is .495" x 5/8" long. Special steel assembly washers, cadmium plated, are furnished. Red or black Bakelite. List Price: Red\$0.18
Black... 0.15



Cat. No. 17. This twin jack with molded Bakelite base, is provided with two terminals 13/8" apart and has a 6/32" x ¼" mounting screw at center.

List Price \$0.65 ea.



Cat. No. 18. Twin jack, is provided with two terminals 7/8" apart and has two .140" diameter holes, 1-11/16" centers. Bottom plate is 1/16" thick, top plate 1/32" thick. 5/8" wide x 2-1/16" long.

List Price \$0.13 ea.



Cat. No. 18-T. Triple jack is provided with three terminals 9/16" apart and has two .140" diameter mounting holes, 1-15/16" centers. Bottom plate is 1/16" thick, top plate 3/64" thick. 5/8" wide x 23/8" long.

List Price \$0.19 ea.

American Beauty

ELECTRIC SOLDERING IRONS

These Irons embody features that specialized experience—since 1894—has demonstrated to be desirable for efficient and lasting service. Hundreds of thousands in use throughout the world in manufacturing plants, service, maintenance and repair shops, Army and Navy Services, telephone, telegraph and radio stations.

No. 3138—Designed primarily for production and maintenance in radio, telephone, telegraph, ignition switchboard and telephone installation work and similar industrial applications.

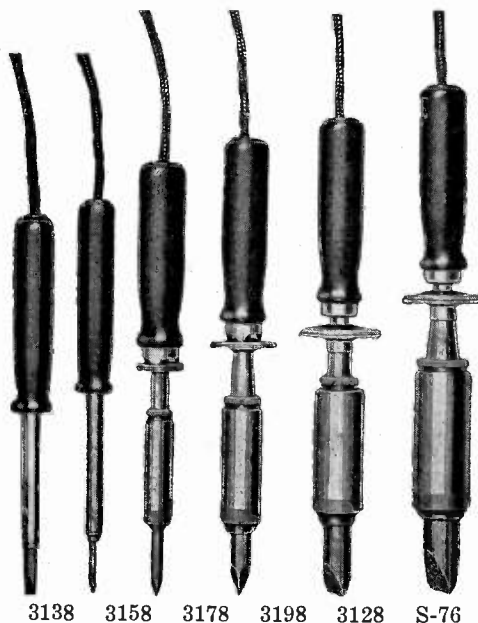
No. 3158—For the same purposes as the No. 3138 but for work requiring an iron of greater capacity.

No. 3178—For use on still heavier work; for light commutators and service and production work. A very useful iron for general purposes.

No. 3198—For heavy work of all kinds. Supplies a large volume of heat at high temperature. Used by manufacturers in many different lines; for shop, service, production work, etc. Each of the above irons is equipped with a baffle plate, at the shank, to prevent free conduction of heat to the handle.

No. 3128—Designed for lighter work than the No. 3138 in similar applications. Has plug-type $\frac{1}{4}$ " diameter tip with a heating element of chrome nickel but without compression winding as used in the higher-wattage No. 3138-3198 series. Element and casing with handle springs and terminal assembly built as a unit.

No. S-76—Designed for work of the same kind as the No. 3128 but has a screw-type $\frac{1}{8}$ " diameter tip which screws on the metal head of the core of the chrome nickel heating element. Element with casing and handle springs and terminal assembly built as a unit.



3138 3158 3178 3198 3128 S-76



Top No. 3128 — Bottom No. S-76

Made in standard voltages and for 32 volts. No. 3138 also made for 6, 12, 24 and 55 volts. Nos. 3138-3198 can be equipped with three-conductor cord, one wire grounded, at slight additional charge. Separate heat-insulating stand supplied with each iron.

SPECIFICATIONS

Cat. No.	Diameter of Tip	Watts	Net Weight	Length Over All	Casing Diameter	Approx. Ship. Wt.	List Price Each	Net Price Each (Less than 6)	Net Price Each (6 or more)
3138	$\frac{3}{8}$ "	100	16 oz.	12 $\frac{7}{8}$ "	$\frac{7}{8}$ "	2 lbs.	\$ 8.00	\$ 5.36	\$ 5.08
3158	$\frac{5}{8}$ "	200	28 oz.	13 $\frac{5}{8}$ "	1 $\frac{1}{4}$ "	3 lbs.	9.60	6.41	6.07
3178	$\frac{7}{8}$ "	300	42 oz.	14 $\frac{3}{8}$ "	1 $\frac{9}{16}$ "	4 lbs.	12.90	8.59	8.11
3198	1 $\frac{1}{8}$ "	550	60 oz.	15"	1 $\frac{3}{4}$ "	5 $\frac{1}{2}$ lbs.	16.80	11.18	10.58
3128	$\frac{1}{4}$ "	60	7 $\frac{1}{2}$ oz.	12 $\frac{1}{4}$ "	$\frac{9}{16}$ "	16 oz.	5.00	3.34	3.18
S-76	$\frac{7}{16}$ "	50	6 oz.	11 $\frac{1}{8}$ "	$\frac{9}{16}$ "	14 oz.	5.00	3.34	3.18

American Beauty COPPER TIPS

These copper tips are made from commercially pure, drawn bar, copper rod. Except for the No. 3734 screw-on type tip for the No. S-76 iron, each tip is designed to fit into, and to the full length of, core of heating unit of the particular iron for which it is intended. Maximum area of contact between the tip and heating unit is thus assured. Tips are of uniform diameter throughout their entire length. Each tip is held in place in core of heating unit by a recessed set-screw. Removal for cleaning or replacement is therefore easy. Standard shaped tips with which the various models are equipped are shown in the illustration; but pyramidal, instead of chisel type, and vice versa, can be supplied when so specified without additional charge. For No. 3138 a special, long, semi-chisel shaped tip No. 3738-S can be supplied for telephone and switchboard work.



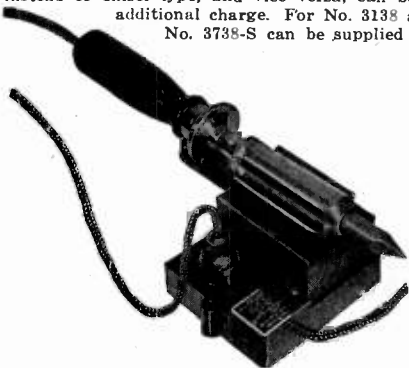
3798 for 3198 Iron
3778 for 3178 Iron
3758 for 3158 Iron
3738S for 3138 Iron
3738 for 3138 Iron
3728 for 3128 Iron
3734 for S-76 Iron

American Beauty TEMPERATURE REGULATING STANDS

For use on (AC) Alternating Current Only

This is a thermostatically controlled device for the regulation of the temperature of an electric soldering iron while at rest. When placed on this stand, soldering iron is maintained at working temperature, ready for instant use or, if desired, at a lower temperature. Through an adjustment on bottom of the stand, thermostat may be set for the maintenance of any desired temperature—from very low, or warm, to full working temperature. Body of stand is of molded plastic. Soldering iron cradle proper is of metal. Stand is equipped with cord and attachment plug-cap for connection to current and with a receptacle for connection of the electric soldering iron. It is designed for use with electric soldering irons up to 660 watts capacity and on circuits up to 240 volts.

Cat. No.	Net Weight	List Price	Net Price
475	27 oz.	\$5.50	\$3.88



ESICO

REG. U. S. PAT. OFF.

ELECTRIC SOLDERING IRONS FOR HOME, PROFESSIONAL MECHANIC AND FACTORY

● GREEN LABEL LINE

For intermittent duty. Meets all requirements of the home craftsman.



No. 415—List \$1.95— $\frac{3}{8}$ " Tip—55 Watts



No. 416—List \$2.95— $\frac{1}{4}$ " Tip—60 Watts



No. 417—List \$3.95— $\frac{3}{8}$ " Tip—100 Watts



No. 418—List \$4.95— $\frac{1}{2}$ " Tip—130 Watts

● ORANGE LABEL LINE

For Professional Mechanics—light or heavy soldering where iron must withstand operation for eight hour periods or more on frequent occasions.



No. 62—List \$4.95— $\frac{1}{4}$ " Tip—60 Watts



No. 63—List \$5.95— $\frac{3}{8}$ " Tip—100 Watts



No. 64—List \$6.95— $\frac{1}{2}$ " Tip—130 Watts



No. 65—List \$7.95— $\frac{5}{8}$ " Tip—200 Watts



No. 67—List \$8.95— $\frac{7}{8}$ " Tip—300 Watts



No. 69—List \$10.95— $1\frac{1}{8}$ " Tip—500 Watts

● RED LABEL LINE

For Production Line Continuous Operation. These Irons are of most rugged construction.



No. 38—List \$6.95— $\frac{3}{8}$ " Tip—100 Watts



No. 58—List \$8.95— $\frac{5}{8}$ " Tip—200 Watts



No. 78—List \$10.95— $\frac{7}{8}$ " Tip—300 Watts



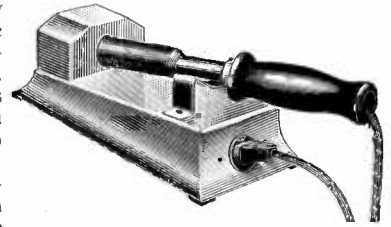
No. 98—List \$12.95— $1\frac{1}{8}$ " Tip—550 Watts

● Thermostatic Temperature Control Stand

The iron can be maintained at any desired temperature while in the stand. This is the only way to control the tip temperature of an iron. Control of element temperature is not satisfactory. There is too much of a lag between element and tip temperature.

Years ago we developed a thermostatically controlled iron, which regulated the element temperature (just as presently marketed thermostatically controlled irons do) but we discarded the iron as it would permit the tip to cool.

When the stand is properly adjusted, it is impossible for the iron to overheat or to burn off its tin.



List Price

Cat. No. 5 Irons up to 1" dia. tip\$ 6.50
Cat. No. 6 Irons up to $1\frac{1}{8}$ " dia. tip 6.50

● Soldering Pots

Ruggedly constructed, cast iron pots for production work. Elements are easily replaced even while pots are hot.

Net Price

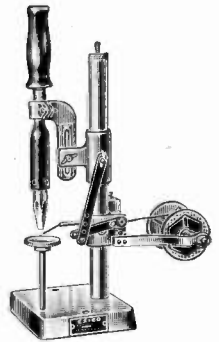
Cat. No. 12— $1\frac{1}{2}$ " dia. Cap.
 $\frac{3}{4}$ lbs.\$ 4.50
Cat. No. 36— $2\frac{1}{2}$ " dia. Cap.
 $2\frac{1}{4}$ lbs. 5.50
Cat. No. 60— $3\frac{1}{2}$ " dia. Cap.
 $3\frac{3}{4}$ lbs. 6.50



● Spot Soldering Machine

Model "F" is a treadle operated machine which feeds solder forward as the iron moves away from the work. Suitable for spot soldering where a mechanical connection has first been made. Net price\$15.00

Model "N" is a treadle operated machine for the advancement of the iron, but without a solder feed attachment. Net price\$7.50



● Glue Pots

The catalogue No. 700 Glue Pot is of two quart capacity. It is the water jacket type and has a gasket sealed element and thermostat completely protected from moisture. Thermostat is normally set at 150 degrees for use with glue, but can be set at various temperatures for use with wax, etc. Net price \$18.50



ELECTRIC SOLDERING IRON CO., INC.

DRAKE



RADIO IRONS

Suggested for Maintenance Work and for the Radio Service Man



60 Watt Iron with $\frac{3}{8}$ " Tip. An excellent iron for light work. Porcelain element. Six ft. cord and small stand.

No. 315 List \$1.90
Element List \$1.00 Tip List \$0.90
Shipping Weight 1 lb.

100 Watt Iron with $\frac{3}{8}$ " Tip. An ideal iron for those who require a hotter iron than our No. 315. Porcelain element. Six ft. cord and small stand.

No. 316 List \$3.20
Element List \$1.50 Tip List \$1.80
Shipping Weight $1\frac{1}{2}$ lbs.



80 Watt Iron with $\frac{3}{8}$ " Tip. Recommended for light radio work. Mica wound element. Six ft. cord and large stand.

No. 225 List \$4.40
Element List \$3.40 Tip List \$1.25
Shipping Weight $1\frac{1}{2}$ lbs.

100 Watt Iron with $\frac{3}{8}$ " Tip. Recommended for general radio work. Mica wound element. Six ft. cord with large stand.

No. 325 List \$5.00
Element List \$4.00 Tip List \$1.25
Shipping Weight 2 lbs.



125 Watt Iron with $\frac{3}{8}$ " Tip. An extra hot iron for the serviceman. Mica wound element. Six ft. cord and large stand.

No. 326 List \$6.00
Element List \$5.00 Tip List \$1.25
Shipping Weight 2 lbs.

200 Watt Iron with $\frac{5}{8}$ " Tip. Recommended for medium heavy work. Mica wound element. Six ft. cord and large stand.

No. 425 List \$10.00
Element List \$9.00 Tip List \$ 2.00
Shipping Weight 2 lbs.

INDUSTRIAL IRONS



60 Watt Iron with $\frac{1}{4}$ " Tip. An extra small iron for midget sets. Only 9" long.

No. 400 List \$5.50
Element List \$4.50 Tip List \$0.60
Shipping Weight 2 lbs.

100 Watt Iron with $\frac{3}{8}$ " Tip. Only 10 inches over all. Ideal for close work on radio sets.

No. 600-10 List \$8.00
Element List \$7.00 Tip List \$1.25
Shipping Weight 2 lbs.

140 Watt Iron with $\frac{3}{8}$ " Tip. An extra hot iron for high speed work on production lines.

No. 600 Special List \$8.50
Element List \$7.50 Tip List \$1.25
Shipping Weight 2 lbs.



80 Watt Iron with $\frac{3}{8}$ " Tip. Recommended for fine instruments, light telephone and other light soldering.

No. 450 List \$6.00
Element List \$5.00 Tip List \$1.25
Shipping Weight 2 lbs.

100 Watt Iron with $\frac{3}{8}$ " Tip. The standard 100 watt iron. Ideal for switchboards and radio sets.

No. 600 List \$7.50
Element List \$6.50 Tip List \$1.25
Shipping Weight 2 lbs.

200 Watt Iron with $\frac{5}{8}$ " Tip. For general factory work such as art glass, medium tin work.

No. 800 List \$10.00
Element List \$9.00 Tip List \$ 2.00
Shipping Weight 3 lbs.



MODEL 350 MIDGET

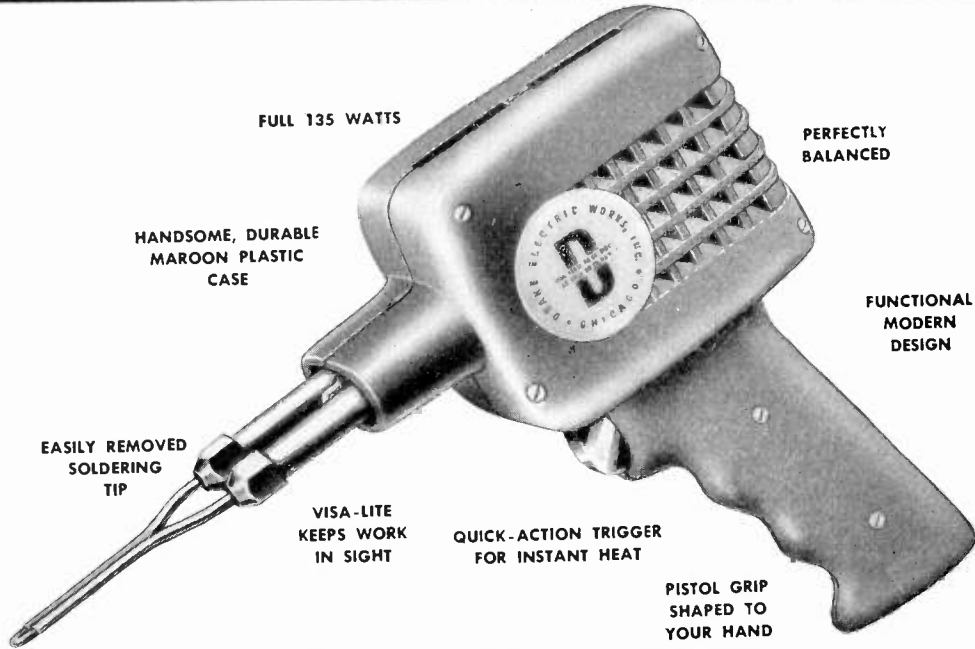
Recommended for voice coil leads on speaker cones, meter connections, test equipment, hearing aids, crystal pickups, headphone leads, etc. This iron is a continuous duty 35 watt iron with a nickle-chromium element wound over mica insulation on a steel core.

No. 350 List \$5.00
Element List \$4.00 Tips, ea. List \$0.25
Shipping Weight 1 lb.

DRAKE



**SOLDER GUN
HEAT CONTROLS
SOLDER POTS**



FULL 135 WATTS

PERFECTLY
BALANCED

HANDSOME, DURABLE
MAROON PLASTIC
CASE

FUNCTIONAL
MODERN
DESIGN

EASILY REMOVED
SOLDERING
TIP

VISA-LITE
KEEPS WORK
IN SIGHT

QUICK-ACTION TRIGGER
FOR INSTANT HEAT

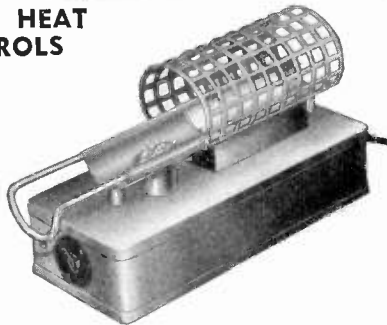
PISTOL GRIP
SHAPE TO
YOUR HAND

DRAKE "INSTANT HEAT" SOLDER GUN

A new addition to the famous "Drake" family of complete soldering aids. Instant-heat solder gun for quick soldering requirements. Saves power since gun only operates when trouble-free trigger is squeezed. Equipped with built-in spotlight, properly focused to light soldering spot. Attractive maroon plastic case properly louvered for cool operation. Balance engineered by one of America's most famous industrial designers. Complete with easily removed tips, one 3 1/2" tip for ordinary soldering; one 6 1/2" tip for deep chassis soldering. Operates on 110-120 volt, 60-cycles A.C., 135 watts. Shpg. wt., 3 lbs.

No. 900 Solder Gun, complete with 2 tips; one 1/2" and one 6 1/2" List Price \$20.00
No. 901 Extra 3 1/2" Tips (4 to pkg.) List Price \$0.50 No. 902 Extra 6 1/2" Tips (2 to pkg.) List Price \$0.50

DRAKE HEAT CONTROLS



New thermostatically controlled, automatic, heat controls. Ideal for production applications where iron must be kept at correct soldering temperatures at all times. Complete with oxide removing "Magic Cup." Choice of with or without hood. Operates on 110 to 240 volts and will handle any iron to 660 watts. Shpg. wt., either model: 3 lbs.

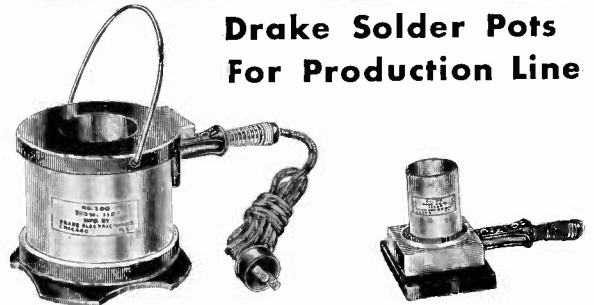
No. 305 Less Hood List Price \$7.50
No. 305H With Hood List Price \$8.50

Standard Models

These standard economy models have stand-by switch instead of thermostats. Keep switch in low position until iron is almost ready for use. A flip of the switch and the iron is ready for use in a few moments. Variable resistor allows individual adjustment to meet the requirements of each soldering operation. Operates on 110 volts. Shpg. wt., either model: 3 lbs.

No. 300 Less Hood List Price \$5.50
No. 300H With Hood List Price \$6.00

Drake Solder Pots For Production Line



Model No. 200—300 Watt Unit

An ideal electric solder pot for production use. Used in factory production of tinned wire ends, terminal tinning and countless other volume tinning applications. Holds 2 lbs. of bar solder in 2 1/2" diameter 2" deep cast iron well. Complete with detachable Underwriters' Approved cord and plug, and bale type carrying handle. Genuine nichrome element. Shipping weight 6 lbs.

No. 200 List Price \$6.50

Model No. 100—150 Watt Unit

Designed for light tinning. Ideal for occasional jobs. Suited especially for tinning ends of stranded wires to prevent fraying. Can also be used for soldering cord tips to cables. One piece cast iron construction holds heat longer. Size of pot 1 1/2" diameter 1" deep. Holds 1 lb. of bar solder. Complete with Underwriters' Approved cord and detachable plug. Shipping weight 3 lbs.

No. 100 List Price \$5.00



CALROD* SOLDERING IRONS

FOR EVERY RADIO REQUIREMENT

MANUFACTURING — SERVICE

*Reg. U. S. Pat. Off.

- **HIGH-SPEED SOLDERING.** You can solder as fast and continuously as the nature of the work will allow.
- **UNIFORM PERFORMANCE.** Operating characteristics remain constant day after day. No appreciable decrease in efficiency even after months of service.
- **LONG LIFE AND LOW MAINTENANCE.** Long

life is assured and over-all costs are kept low because sturdy construction eliminates need of frequent repairs.

- **EASY, LOW-COST REPAIR.** Assembling and disassembling are easy.
- **THEY NEED NOT BE RETURNED TO THE FACTORY FOR REPAIR.** Irons can be repaired on the job without special tools or skill.

Cat. No. 6A161

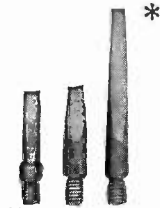
Listed Under Re-examination Service of Underwriters' Laboratories



Watts 75 Volts 115

Calorized tip \$9.55*†
IRONCLAD tip 10.20*†

Tip diam. See note below*



* For light, intermittent soldering such as radio assembly and repair and installation, switchboard, ignition, wiring devices, meters and instruments, or very light high-speed soldering of similar products.

WEIGHTS: Less cord, 15 oz. With cord, 20 oz. Shipping, 26 oz. Equal to old-style copper—1 1/4-lb.

*Cat. No. 6A161 and Cat. No. 6A162 can be supplied with either a 3/8- or 1/2-inch diameter tip at prices given. The long 1/2-inch diameter tip projects 3/8 inches from the shell. Price of iron with long calorized tip—\$10.10; with long IRONCLAD tip—\$10.90.

For light, high-speed soldering, such as assembly of radios, telephones, switchboards, appliances, meters, and instruments, and installation and repair of wiring and wiring devices, ignition. Excellent for service and repair men.

WEIGHTS: Less cord, 15 oz. With cord, 20 oz. Shipping, 26 oz. Equal to old-style copper—1 1/4 lb.

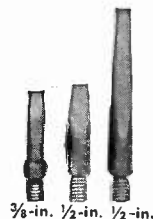
Cat. No. 6A162



Watts 100 Volts 115

Calorized tip \$9.55*†
IRONCLAD tip 10.20*†

Tip diam. See note above*



* For light, high-speed soldering, such as assembly of radios and switchboards, medium intermittent soldering on tinware, wiring, plumbing, and tinsmithing. Excellent general-purpose iron for shop and farm.

WEIGHTS: Less cord, 16 oz. With cord, 21 oz. Shipping, 27 oz. Equal to old-style copper—2-lb.

Cat. No. 6A200



Watts 100 Volts 115

Calorized tip \$10.80*†
IRONCLAD tip 12.20*†

Tip diam. 3/4 inch

For medium, high-speed soldering of automobile and airplane assembly, electric equipment, light tanks and containers of copper and steel. Excellent general-purpose iron for manufacturing plant.

WEIGHTS: less cord, 24 oz. With cord, 29 oz. Shipping, 34 oz. Equal to old-style copper—3-lb.

Cat. No. 6A201



Watts 200 Volts 115

Calorized tip \$13.55*†
IRONCLAD tip 15.10*†

Tip diam. 1 inch

Cat. No. 6A202



Watts 300 Volts 115

Calorized tip \$16.40*†
IRONCLAD tip 17.95*†

Tip diam. 1 1/4 inch

For heavy work such as light commutators, large-diameter pipe, medium-gage copper or steel tank and container material, roofing, heavy tinware.

WEIGHTS: Less cord, 37 oz. With cord, 42 oz. Shipping, 48 oz. Equal to old-style copper—4-lb.

ASK ABOUT IRONCLAD TIPS

IRONCLAD TIPS MEAN

- No Filing
- Lower Upkeep Cost
- Less Maintenance
- Longer Life

Effect of solder (250 C for 363.5 hours) on plain copper (left) and Ironclad copper (right) soldering tips.

Note—230-volt irons available on request. Same prices apply. Above prices include supporting stand.

† Mfg.'s suggested retail price.

ASK YOUR DISTRIBUTOR FOR A COPY OF BULLETIN GEA-4519.



MIDGET SOLDERING IRONS

FOR MANUFACTURING AND SERVICE
OF RADIO AND ELECTRONIC EQUIPMENT

APPLICATION

This 8-inch, 1 $\frac{3}{4}$ -ounce featherweight iron for close-quarter soldering with pin-point precision is used where conventional irons might cause damage . . . be clumsy to handle . . . be more expensive to operate. The Midget literally goes places with greater efficiency and less power . . . with no sacrifice in heat or speed. With its fingertip operation, this iron will help make an expert out of any solderer in a short time.

The Midget has chisel-shaped Ironclad copper tips either $\frac{1}{8}$ - or $\frac{1}{4}$ -inch diameter, as desired.

THIS MIDGET DOES A BIG JOB IN

- Boosting Production Rates
- Increasing Operator Efficiency
- Cutting Down Employee Fatigue
- Saving on Repair and Maintenance
- Reducing Rejects
- Manufacturing and Repairing:

Radios and other electronic equipment

Meters

Instruments

Jewelry

Appliances

. . . and many other products
requiring precision soldering

RATING: 6 VOLTS, 25 WATTS

Description	Cat. No.	Price†
★ $\frac{1}{8}$ -in. Ironclad copper tip (pyramid-shaped)	6A212	\$5.40
★ $\frac{1}{4}$ -in. Ironclad copper tip (chisel-shaped)	6A210	5.40
$\frac{1}{8}$ -in. Renewal tip and heater assembly	6A213	3.00
$\frac{1}{4}$ -in. Renewal tip and heater assembly	6A211	3.00

Net weight iron less cord 1 $\frac{3}{4}$ oz.

Net weight iron including cord 5 oz.

Shipping weight complete iron 8 oz.

Standard package consists of 6 irons of one tip size. Tip and heater assemblies can be purchased in any quantities.

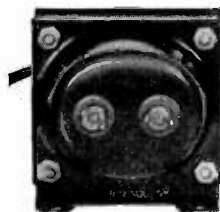


$\frac{1}{8}$ -in. dia tip, Cat. No. 6A212

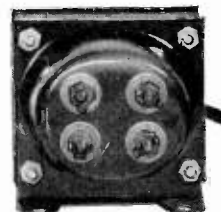


$\frac{1}{4}$ -in. dia tip, Cat. No. 6A210

SPECIAL TRANSFORMERS (OPTIONAL) FOR G-E MIDGET SOLDERING IRONS



Single-tap, Cat. No. 84G392



Four-tap, Cat. No. 84G370

Specially designed 115-volt transformers are available as optional equipment in two types:

1. Single-tap 115/6 volts—for use where only one soldering heat is required
2. Four-tap 115/6.3/6/5.7/5.4 volts — gives wide range of heats (from 20 to 30 watts) for close temperature control of tips

Transformers are small, lightweight, but sturdy. Their 6-foot extension cords can be plugged in any 115-volt a-c circuit.

Description	Cat. No.	Price†
Single-tap	84G392	\$5.20
Four-tap	84G370	7.80

Publication ReferenceGEA-4519

THE MIDGET OFFERS MAJOR ADVANTAGES

Low-cost soldering—Solders more efficiently, using only approximately one-fourth wattage normally used.

Fingertip operation—Only 8 inches long, weighs but 1 $\frac{3}{4}$ ounces. Styled for fingertip grip.

Quick, continuous heat—Famous G-E Calrod* heater built into Ironclad copper tip for rapid heat transfer.

Easy renewal—Ironclad tip and heater can be replaced as a unit merely by unscrewing from handle.

Long life, low maintenance—Low voltage permits use of heavy, long-lasting resistant wire. Reduced servicing with long-lasting Ironclad copper tip.

* Registered U.S. Patent Office.

† Manufacturers' suggested retail price.



ELECTRIC SOLDERING IRONS



GENERAL INFORMATION—Equipped with 6 ft. (10,000 cycle) approved heater cord (covered with twine braid for extra long wear) and rubber plug. Continental or English type plugs 25c extra list. Metal stand furnished with each iron. Heating elements made of best grade nickel-chromium resistance wire, insulated with finest mica obtainable. Elements in the plug tip irons are replaceable by the user and in the screw tip irons replaceable at

the factory. Tips in all irons are replaceable; made of hard drawn pure copper. Case is made from solid Hexacon steel (except No. 50 and P-30), affording it great mechanical strength, preventing denting. Terminal easily accessible and constructed to relieve cord strain. Smooth, cool, comfortable handle—readily replaceable. Voltage range: 32 to 250. Standard voltages 110/120, 121/130, 220/250. All other voltages \$1.00 extra list.

SCREW TIP IRONS



No. 50—For light soldering on radio, telephone and electrical apparatus. 50 Watts. Tip diam., $\frac{1}{8}$ ". Ship. wt., 1 lb. Equal to $\frac{1}{2}$ -lb. old style copper.....each \$4.50

No. 60—Medium light soldering on telephone, radio, apparatus and linemen's kits. 60 Watts. Tip diam., $\frac{1}{8}$ ". Ship. wt., $1\frac{1}{8}$ lb. Equal to 1-lb. old style copper.....each \$6.25



No. 85—A high speed tool for telephone, radio and home use. 90 Watts. Tip diam., $\frac{1}{8}$ ". Ship. wt., $1\frac{1}{4}$ lb. Equal to $1\frac{1}{2}$ -lb. old style copper.....each \$7.00



No. 120—Light tinware, toys, typewriter, light auto, etc. A high speed iron. 120 Watts. Tip diam., $\frac{5}{16}$ ". Ship. wt., $1\frac{3}{8}$ lb. Equal to 2-lb. old style copper.....each \$8.00



No. 130—Same as No. 120 except has larger tip and 10 more watts capacity. 130 Watts. Tip diam., $\frac{7}{16}$ ". Ship. wt., $1\frac{5}{8}$ lb. Equal to 2-lb. old style copper.....each \$8.75

No. 170—Medium tinware, small cans, auto repairs, pipes, gutters, toys, small motors. 175 Watts. Tip diam., 1". Ship. wt., $2\frac{1}{4}$ lb. Equal to $2\frac{1}{2}$ -lb. old style copper.....each \$10.00



No. 225—Medium tinware, cans, auto repairs, metal patterns, light roofing, small branders. 250 Watts. Tip diam., $1\frac{1}{8}$ ". Ship. wt., $2\frac{5}{8}$ lb. Equal to 3-lb. old style copper.....each \$11.00



No. 350—Heavy tinware, large cans, autos, roofing, refrigerators, ship and airplane. 350 Watts. Tip diam., $1\frac{3}{8}$ ". Ship. wt., $3\frac{3}{8}$ lb. Equal to 4-lb. old style copper.....each \$13.00



No. 500—Auto repairs, sinks, roofs, cans, armatures, large branders, tinsmiths, etc. 500 Watts. Tip diam., $1\frac{1}{2}$ ". Ship. wt., 4 lb. Equal to 5-lb. old style copper.....each \$15.00

No. 700—For extra heavy soldering and large branders. 700 Watts. Tip diam., $1\frac{3}{4}$ ". Ship. wt., 5 lbs. Equal to 7-lb. old style copper.....each \$27.50

OPERATE ON A.C. OR D.C., ANY CYCLE

PLUG TIP IRONS



No. P-30—For extremely light soldering on finest wire and delicate instruments. 40 Watts. Tip diam., $\frac{1}{4}$ ". Ship. wt., $\frac{5}{8}$ lb. Equal to $\frac{1}{4}$ -lb. old style copper.....each \$4.50

No. P-70—For light soldering on radio and telephone apparatus and electrical instruments. 80 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., $1\frac{1}{8}$ lb. Equal to 1-lb. old style copper.....each \$6.00



No. P-100—A high speed tool for telephone switchboards, electrical instruments, etc. 100 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., $1\frac{1}{4}$ lb. Equal to $1\frac{1}{2}$ -lb. old style copper.....each \$7.00

No. P-125—For light tinware, toys, typewriter type bars, small cans, auto, etc. 130 Watts. Tip diam., $\frac{5}{16}$ ". Ship. wt., $1\frac{1}{2}$ lb. Equal to 2-lb. old style copper.....each \$8.50



No. P-150—Extra high speed iron for radios, electrical apparatus and where a light iron with small diameter is required. 150 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., $1\frac{3}{8}$ lb. Equal to 2-lb. old style copper.....each \$7.75

No. P-151—Same as No. P-150, except where a larger tip is desired. 175 Watts. Tip diam., $\frac{1}{2}$ ". Ship. wt., $1\frac{3}{4}$ lb. Equal to $2\frac{1}{2}$ -lb. old style copper.....each \$8.25



No. P-200—For medium tinware, cans, auto repairs, light roofing, sheet metal, etc. 200 Watts. Tip diam., $\frac{5}{8}$ ". Ship. wt., $2\frac{1}{2}$ lb. Equal to $2\frac{3}{4}$ -lb. old style copper.....each \$9.50

No. P-250—Same as No. P-200, except where greater speed is required for manufacturing. 250 Watts. Tip diam., $\frac{5}{8}$ ". Ship. wt., $2\frac{1}{4}$ lb. Equal to 3-lb. old style copper.....each \$10.75



No. P-300—For heavy tinware, large cans, auto, roofing, refrigerator work, etc. 300 Watts. Tip diam., $\frac{7}{8}$ ". Ship. wt., $2\frac{3}{8}$ lb. Equal to 4-lb. old style copper.....each \$12.50

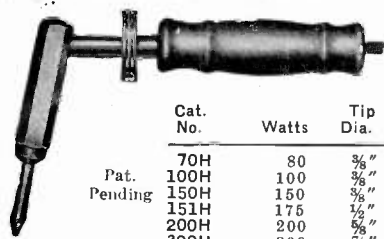


No. P-550—For auto radiators, copper sinks, roofs, heavy armatures, large branders, etc. 550 Watts. Tip diam., $1\frac{1}{8}$ ". Ship. wt., $4\frac{1}{8}$ lb. Equal to 5-lb. old style copper.....each \$15.00

SPECIFY VOLTAGE WHEN ORDERING

HEXACON HATCHET TYPE IRON

For same use as Plug Tip irons of equal wattage, shown above. Replaceable elements and all other features of Plug Tip Irons.

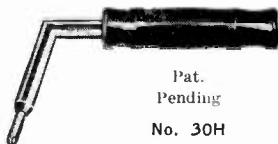


Perfect Balance
Less Fatigue
Better Soldered Joints

	Cat. No.	Watts	Tip Dia.	Ship. Wt.	Price
	70H	80	$\frac{3}{8}$ "	$1\frac{3}{8}$ lbs.	\$ 8.00
Pat.	100H	100	$\frac{3}{8}$ "	$1\frac{1}{2}$ lbs.	9.00
	150H	150	$\frac{3}{8}$ "	2 lbs.	9.75
Pending	151H	175	$\frac{1}{2}$ "	2 lbs.	10.25
	200H	200	$\frac{5}{16}$ "	$2\frac{3}{8}$ lbs.	11.50
	300H	300	$\frac{7}{8}$ "	$2\frac{3}{8}$ lbs.	14.50

HEXACON FEATHERWEIGHT HATCHET IRON

So light its weight is hardly noticeable, but more powerful than most larger irons. Hatchet design makes iron effortless to use. No transformer or other cumbersome and expensive equipment required.



List Price.....\$5.00

Weight: $5\frac{1}{2}$ ozs. (less cord).

*Watts: 40, 50 or 60.

Both $\frac{1}{8}$ " and $\frac{1}{4}$ " dia. tips furnished with each iron.

Shipping weight: 1 lb.

*Specify watts when ordering.



SOLDERMASTER Royal Blue Line ELECTRIC SOLDERING IRONS



GENERAL INFORMATION—Replaceable elements. Best grade of Madagascar mica for insulation. No. 55 has brass-heated cartridge element. Best grade nickel-chrome resistance wire. Replaceable hard drawn copper tips. All one piece swaged cases

CHROME PLATED. Equipped with 6 ft. Underwriters' Approved heater cord, rubber plug. Continental or English type plug 25c extra list. Stand for resting iron furnished.

VOLTAGES 110/120 220/250 A.C. or D.C., ANY CYCLE
SPECIFY VOLTAGE WHEN ORDERING

SCREW TIP IRONS



No. 55B—For light soldering, radio apparatus, etc. 55 Watts. Tip diam., $\frac{1}{8}$ ". Ship. wt., 13 oz.....each \$2.50



No. 76B—For light work, electrical instruments, etc. 75 Watts. Tip diam., $\frac{1}{2}$ ". Ship. wt., 15 oz.....each \$4.00



No. 100B—Same as No. 76B except used where more speed is required and heavier work is done. For home use. 90 Watts. Tip diam., $\frac{1}{2}$ ". Ship. wt., 16 oz.....each \$4.50



No. 150B—Ideal size for garage and repair work. For home use. 170 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., 24 oz.....each \$7.00



No. 300B—For heavy steel metal, auto radiators, etc. 275 Watts. Tip diam., $1\frac{1}{8}$ ". Ship. wt., 38 oz.....each \$10.00

PLUG TIP IRONS



No. 71B—For light work, radio repairs, etc. 75 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., 16 oz.....each \$4.00



No. 101B—For same work as No. 71B, but where more speed is required or heavier work is done. For home use. 100 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., 18 oz.....each \$4.50



No. 121B—High speed iron for radio and electrical repairs. 125 Watts. Tip diam., $\frac{3}{8}$ ". Ship. wt., $1\frac{3}{4}$ lbs.....each \$5.50



No. 201B—For same work as No. 150B, except where plug tip is desired. 200 Watts. Tip diam., $\frac{5}{8}$ ". Ship. wt., 34 oz.....each \$8.00



No. 301B—For same work as No. 300B, except where plug tip is desired. 300 Watts. Tip diam., $\frac{7}{8}$ ". Ship. wt., 46 oz.....each \$10.00

DISPLAYS

Increase your sales with these silent salesmen. Irons securely mounted, but readily removable for sale. Individually packed in cartons ready for shipment. Catalog number and wattage shown on front of display. Complete catalog information and price list on back.

SCROLL TYPE DISPLAY

Striking, Modernistic, All Metal Panel



No. 1 DISPLAY Illustrated

Size 15" x 17 $\frac{1}{2}$ " (Nos. 1B, 2B, and 3B also same size)

This Display Panel Also Furnished With
Five or Seven Irons (See Below)

	Ship. Wt.	List Price
No. 1B—Nine Iron with Nos. 55B, 76B, 100B, 150B, 300B, 71B, 101B, 201B, 301B.....	20 lbs.	\$54.50
No. 2B—Seven Iron with Nos. 55B, 76B, 100B, 150B, 300B, 71B, 101B.....	17 lbs.	36.50
No. 3B—Five Iron with Nos. 55B, 76B, 100B, 150B, 300B.....	15 lbs.	28.00
No. 4B—Five Iron with Nos. 71B, 101B, 121B, 201B, 301B.....	16 lbs.	32.00

ATTRACTIVE THREE COLOR CARDBOARD DISPLAY



This same display card also furnished with No. 5B and No. 5DB, but mounted with irons listed below.

No. 6B DISPLAY Illustrated

Size 12" x 16 $\frac{1}{2}$ "

(Nos. 5B, 5DB also same size)

	Ship. Wt.	List Price
No. 5B—Three Iron with Nos. 55B, 76B, 100B.....	4 lbs.	\$11.00
No. 5DB—Three Iron with Nos. 55B, 100B, 150B on display and 2 No. 55B and 1 No. 100B for stock.....	8 lbs.	23.50
No. 6B—Three Iron with Nos. 71B, 101B, 121B.....	5 lbs.	14.00

KWIKHEAT



SOLDERING IRONS

THERMOSTATICALLY CONTROLLED

HOT IN 90 SECONDS - 225 WATTS ^{110/}/₁₂₀ V. A.C.



- New Bevelled Tips give 30% more heat
- Three times faster heating
- Maintains constant temperature
- Tips stay tinned 10 times longer
- Cannot overheat
- Temperatures are pre-set

\$11⁰⁰

LIST

Self-Contained Thermostat Patented Feature

KWIKHEAT Thermostatically Controlled Soldering Iron is the only iron containing a built-in thermostat. This enables it to heat up ready for use in 90 seconds! Fully guaranteed! KWIKHEAT's patented thermostat maintains perfect temperature for best soldering . . . prevents overheating . . . prolongs life of iron . . . reduces cost of tip maintenance. Cool plastic handle . . . light weight . . . 6 interchangeable tip styles make one KWIKHEAT equivalent to several soldering irons of different voltage.

LIST PRICE **\$11⁰⁰**

SPECIFICATIONS

Type #300:

225 Watts - 100/125 V. A.C.

Weight of iron with # tip: 13 1/2 ozs.

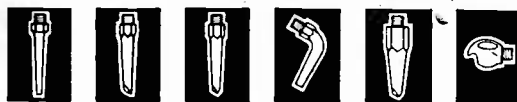
Length of iron with tip: 13 1/4 inches

Length of cord: 6 feet

Core made of tellurium copper alloy

Tips: \$1.25 each Set of 5: \$5.50

SIX INTERCHANGEABLE TIP STYLES Each \$1.25



#0	#1	#2	#3	#4	#5
LIGHT	MEDIUM	MEDIUM	MED. LT.	HEAVY	1-OZ. POT

★ **UNGAR Electric Tool Co., Inc.** ★

LOS ANGELES 54

Manufacturers of

Ungar Electric Soldering Pencils

8 New Features

- 1. Full Length CORD**
65 strand Extra Flexible
- 2. New, Cooler HANDLE**
of Durable Molded Plastic
(Patent applied for)
- 3. UNDERWRITERS' Listed**
Seal on Complete Pencil Set
- 4. Ceramic SEPARATORS**
for DOUBLE Safety
- 5. Spring Action Rivet**
Assures positive contact at all times
- 6. Extra Length Brass Shell**
Firmly engages all threads
Keeps Heating Unit Tight
- 7. 20 watt ELEMENT**
1,000 hours operation 56¢
110-120 volt A.C.—D.C.
- 8. 4 INTERCHANGEABLE TIPS** • ample copper heats to 600° in 90 sec.



No. 538
Tellurium
1/8" Chisel tip

No. 537
Tellurium
1/8" Pencil tip

No. 539
Tellurium
3/8" Chisel tip

No. 536
Tellurium
3/8" Pyramid

New → →

Feather-Light

for hard-to-reach Jobs

Heavy-Rugged

for all Standard Soldering

No. 776 — HANDLE & CORD SET
Packed 25 per case—Price \$1.00 ea.

No. 536 — PYRAMID TIP
Packed 10 per box—Price \$1.00 ea.

No. 537 — PENCIL TIP
Packed 10 per box—Price \$1.00 ea.

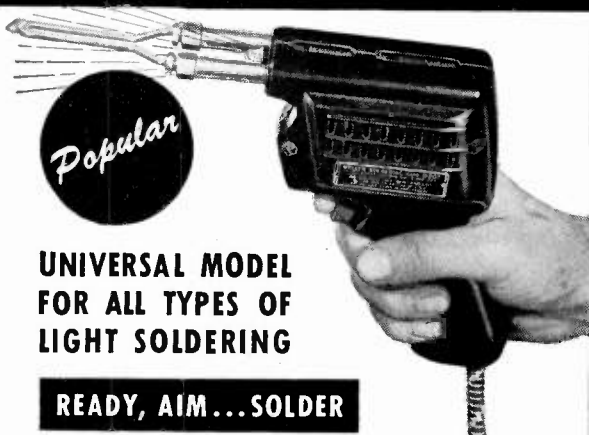
No. 538 — CHISEL TIP
Packed 10 per box—Price \$1.00 ea.

No. 539 — CHISEL TIP
Packed 10 per box—Price \$1.00 ea.

(Discounts: 1 to 9 — 20%
10 or more — 35%)

WELLER SOLDERING GUNS

FOR ALL YOUR SOLDERING



**UNIVERSAL MODEL
FOR ALL TYPES OF
LIGHT SOLDERING**

READY, AIM... SOLDER

Fast 5 second heat comes on the instant trigger is pulled. No wasted time or current. No need to unplug gun between jobs.

TRIGGER ACTION

Just pull the trigger switch . . . model S-107 has single heat 100 watts; model D-207 offers dual heat with two switch positions 100 and 135 watts.

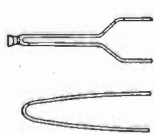
FLEXIBLE TIPS

Flexible tips can be easily formed to slip through chassis wiring; handles difficult, deep corner jobs with ease.

PREFOCUSED SPOTLIGHT

Built-in Solderlite eliminates blind soldering—locates the work quickly and shows you exactly what you are doing.

TWO TYPE WELLER TIPS



Duratip is standard for models S-107 and D-207—chisel shape provides more soldering area, maximum soldering efficiency. Pkg. of 2 for 25c.

Long Life Tip—loop tip, highly efficient at less cost. Package of 4 for 25c.



**HEAVY-DUTY MODEL
HANDLES ALL
SOLDERING UP TO
250 WATTS**

DUAL HEAT

Model WD-250 has 200 watts normal heat on first switch position, and 250 watts instant heat on second trigger position. Model WS-200 provides 200 watts single heat.

5 SECOND HEAT

Pull the trigger switch, and solder. Fast 5 second heating eliminates waiting. Heat goes off automatically when trigger is released . . . no wasted time or current, no need to unplug gun between jobs.

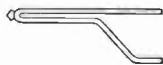
NEW DESIGN

Streamlined design gives perfect balance and soldering ease. Improved transformer engineering provides light weight, compact unit with increased capacity and efficiency. 'Over and under' terminal positions assure maximum visibility with built-in spotlight.

LONGER REACH

Greater 5¼" length reaches into remote spots with ease.

RIGID-TIP



New, improved tip is standard with models WS-200 and WD-250. Chisel-shape tip has more copper and greater surface for faster heat transfer, and design provides bracing action for heavier soldering. Package of 2 for 35c.



UNDERWRITERS' LABORATORIES APPROVED

Weller Guns S-107 and D-207 are U.L. approved. Also approved in Canada under CSA App. No. 7508.



SOLDERING TIPS

new Weller handy guide to faster, easier soldering—20 pages fully illustrated. Price 10c.

WELLER
MANUFACTURING COMPANY

MODEL	WATTS	CYCLES	VOLTS	LENGTH*	NET PRICE
S-107	single heat 100	60	115	4"	\$11.95
WS-200	single heat 200	60	115	5¼"	12.95
D-207	dual heat 100/135	60	115	4"	13.95
WD-250	dual heat 200/250	60	115	5¼"	14.95

*Length—dimension from front of housing to tip.

U.S. Pat. No. 2405866, Other Pat. Pending.

Printed in U.S.A.

KESTER FLUX-CORE SOLDER

Standard for the Radio and TV Field



- Kester Plastic Rosin-Core Solder
- Kester "Resin-Five" Core Solder
- Kester Radio Solder
- Kester Acid-Core Solder
- Kester "A" Flux-Core Solder
- Kester Nosput Flux-Core Solder
- Kester Knorust Flux-Core Solder
- Specialized Flux-Core Solders
- Solid Wire and Bar Solders
- Kester Preforms, Rings, Pellets, Washers, Ribbon
- External Rosin Soldering Fluxes
- Other Fluxes
- Kester Soldering Iron Brackets

FOR PEAK SOLDERING EFFICIENCY, IT'S KESTER! Kester offers every conceivable type of Solder product. Strand sizes as small as .008" diameter in Flux-Core Solder, unusual alloys and varying Flux contents or Core sizes.

A COMPLETE TECHNICAL SERVICE. If you're not getting peak efficiency or have a specific problem in your soldering operations, take advantage of the facilities of Kester's Technical Department. . . . It costs you nothing.

STANDARD FOR INDUSTRY
SINCE 1899

**KESTER
SOLDER**

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4201 Wrightwood Ave., Chicago 39, Illinois
Factories Also At
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KRAEUTER

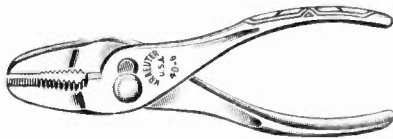
The choice of skilled mechanics



"GRIPRITE" COMBINATION PLIERS

The finest quality combination pliers. Designed for heavy duty. Slightly tapered nose. sharp deep milled teeth and grooved jaws for gripping cotter pins and wire. Knurled handles. The 8" and 10" sizes have three slip joint adjustments which give a wide range of parallel grips.

No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
356	5½ in.	Full Nickel	3½ lbs.	\$1.50	
356	6 in.	Full Nickel	5¼ lbs.	1.60	
356	8 in.	Full Nickel	8¾ lbs.	2.00	
356	10 in.	Full Nickel	14 lbs.	2.50	



THIN NOSE COMBINATION PLIERS

The tapered jaws and thin nose of these pliers enable the mechanic to grip objects difficult to reach in tight, narrow working spaces. Knurled handles, milled gripping teeth and wire cutters.

No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
40	5 in.	Nickel Plated	2¼ lbs.	\$	
40	6 in.	Nickel Plated	4¼ lbs.	\$1.25	



MECHANICS' SIDE CUTTING PLIERS

Gripping pliers with side cutters. Tapered nose, milled teeth and grooved jaws for gripping cotter pins and wire. Knurled handles. The cutters are very handy for light wire work.

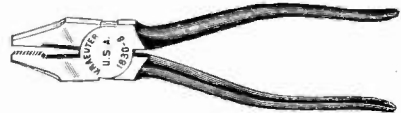
No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
1973	5½ in.	Full Nickel	3½ lbs.	\$2.20	
1973	7 in.	Full nickel	7¼ lbs.	2.50	



LINEMEN'S SIDE CUTTING PLIERS

Designed for heavy work to meet the requirements of linemen. Drop forged from selected plier steel, skilfully hardened and tempered. Powerful wire cutters, a well balanced head and deep milled gripping jaw surface for holding and bending wire.

No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
1801	6 in.	Blue Temper	5¼ lbs.	\$2.45	
1801	7 in.	Blue Temper	7½ lbs.	2.75	
1801	8½ in.	Blue Temper	11¼ lbs.	3.75	



ELECTRICIANS' SIDE CUTTING PLIERS

Used extensively in electric wiring of fixtures, appliances and other general repair work.

Very popular with mechanics on production work where electric wiring is required in the finished product.

No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
1830	4 in.	Blue Temper	1½ lbs.	\$1.75	
1830	5 in.	Blue Temper	2¼ lbs.	1.90	
1830	6½ in.	Blue Temper	4¾ lbs.	2.10	
1830	7 in.	Blue Temper	6¾ lbs.	2.35	
1830	8 in.	Blue Temper	8¼ lbs.	2.75	



IGNITION PLIERS

Very narrow head, serrated gripping teeth and well shaped handle grips. Three slip joint positions. Generally used on distributor, generator, magneto and carburetor work.

No.	Length	Finish	Wt. per doz.	Price	
				per doz.	Each
643	5 in.	Blue Temper	1 lb.	\$1.60	

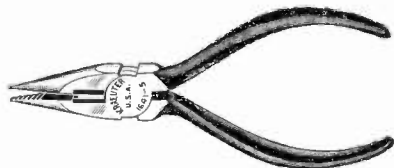
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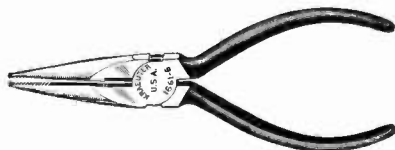
The choice of skilled mechanics



SHORT CHAIN NEEDLE NOSE PLIERS

Short tapered jaws for bending and looping wire. The short nose gives these pliers extra leverage and gripping strength. Used for wiring switches and other open electric work.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1641	5 in.	Blue Temper	2¾ lbs.	\$2.00	
1643	Same without Cutter		2¾ lbs.	1.75	



LONG CHAIN NEEDLE NOSE PLIERS

Long tapered jaws and needle nose. Used extensively in all industries . . . from switchboard, electric fixture and appliance wiring . . . to motor ignition, aviation and general manufacturing work.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1661	6 in.	Blue Temper	3½ lbs.	\$2.30	
1671	Same without Cutter		3½ lbs.	1.80	

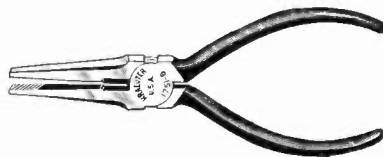


EXTRA LONG CHAIN NOSE PLIERS

Extra long tapered jaws with narrow pointed nose. Used extensively in automotive . . . electric . . . aviation and general production and repair work.

Length of jaw 2¾ in.

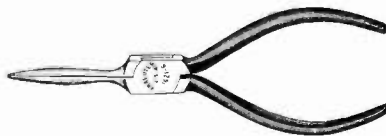
No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1781	7 in.	Blue Temper	3¾ lbs.	\$2.65	
1771	Same without Cutter		3¾ lbs.	2.15	



LONG FLAT NOSE PLIERS

Adaptable to many uses where a tool with long flat sturdy jaws is required. Jaws are scored to give a good gripping and holding surface.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1751	6 in.	Blue Temper	3 lbs.	\$2.40	
1741	Same without Cutter		3 lbs.	1.90	

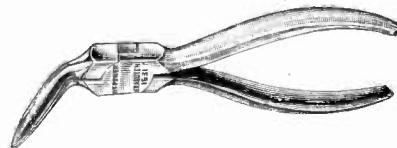


LONG NEEDLE OR SNIPE NOSE PLIERS

Especially designed for difficult and awkward jobs where no other tool will serve. The long slender jaws make it adaptable to many uses. A very popular plier for fine work.

2³/₃₂ in. Jaw

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1621	6 in.	Blue Temper	2¼ lbs.	\$2.10	



CURVED NEEDLE OR SNIPE NOSE PLIERS

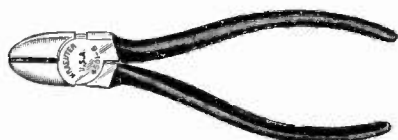
To reach that place down in under or around an obstruction. Very useful where greater visibility is required in holding small objects at an angle.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1631	5½ in.	Blue Temper	2¼ lbs.	\$2.35	



KRAEUTER

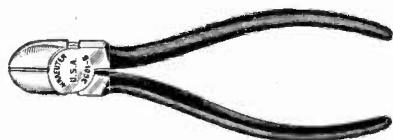
The choice of skilled mechanics



DIAGONAL "OBLIQUE" CUTTING PLIERS

Made especially for close cutting. Used extensively in electrical work, radio manufacturing, telephone and automotive ignition work.

No.	Size	Finish	Wt. per doz.	Price	
				Each	Each
4501	4½ in.	Blue Temper	1½ lbs.	\$1.80	
	5 in.	" "	2¾ lbs.	2.05	
	6 in.	" "	3¾ lbs.	2.35	



SHORT NOSE DIAGONAL CUTTING PLIERS

An excellent cotter pin tool. Specially designed with short nose. Very popular with aviation and automotive mechanics.

No.	Size	Finish	Wt. per doz.	Price	
				Each	Each
3601	6	Blue Temper	4½ lbs.	\$2.50	



"HIGH POWER" DIAGONAL CUTTING PLIERS

This type diagonal plier has the joint very close to the end of the cutter to give added leverage which makes cutting easy. A well balanced tool adaptable to the work in many trades.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
4610	7 in.	Blue Temper	5¾ lbs.	\$2.30	



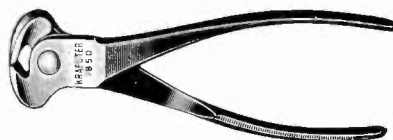
No. 4206



WIRE STRIPPING DIAGONAL CUTTING PLIERS

Narrow head and notched cutters for stripping fine wire .062 diameter. The spring in the handle makes this a very fast cutting tool. Used by manufacturers of electric fixtures, appliances, radio and radio tubes.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
2612	6½ in.	Blue Temper	3 lbs.	\$2.85	



No. 1850

END CUTTING NIPPERS

Powerful end nippers carefully edged to insure sharp enduring cutters. Compact jaws and close riveted joint.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
1850	5 in.	Blue Temper	4½ lbs.	\$2.00	
1850	6 in.	Blue Temper	6 lbs.	2.25	
1850	7 in.	Blue Temper	8 lbs.	2.50	
1850	8 in.	Blue Temper	10½ lbs.	2.90	

NOTE: These pages contain only a partial listing of KRAEUTER Tools. Ask for complete catalog describing the entire extensive KRAEUTER line.

All prices subject to change without notice.

HARD WIRE DIAGONAL CUTTING PLIERS

Designed and edged for the purpose of cutting hard wire . . . in small sizes not larger than 1/8" diameter . . . not intended for cutting soft wire.

No.	Length	Finish	Wt. per doz.	Price	
				Each	Each
4206	6 in.	Blue Temper	4½ lbs.	\$2.50	

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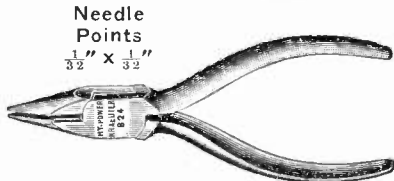
The choice of skilled mechanics

Professional Line

SPECIAL NEEDLE POINT PLIERS

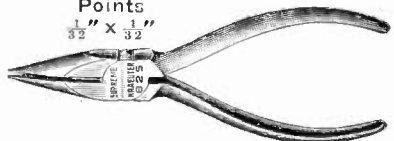
Designed for light fine professional work. The special needle points of these pliers make them invaluable where delicate adjustments have to be made.

(NOSE OF THESE PLIERS NOT GUARANTEED)



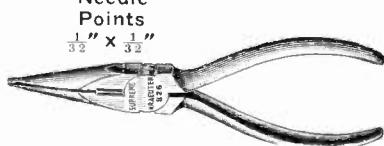
SHORT NOSE NEEDLE POINT PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
824	4½ in.	Full Polished	1½ lbs.	\$2.50
834	Same without cutter			2.20



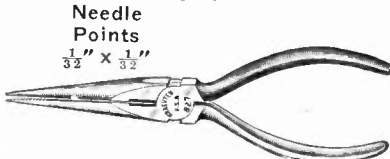
MEDIUM NOSE NEEDLE POINT PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
825	5 in.	Full Polished	2¼ lbs.	\$2.50
835	Same without cutter			2.25



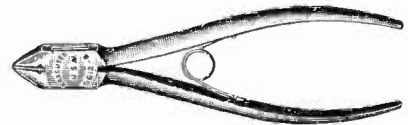
LONG NOSE NEEDLE POINT PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
826	6 in.	Full Polished	3 lbs.	\$2.70
836	Same without cutter			2.35



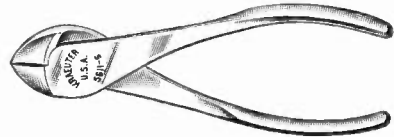
EXTRA LONG NOSE NEEDLE POINT PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
827	7 in.	Full Polished	3¾ lbs.	\$3.00
837	Same without cutter		3¾ lbs.	2.75



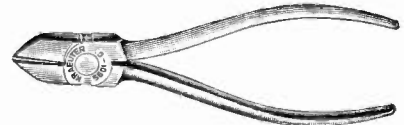
NEEDLE POINT DIAGONAL CUTTING PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
5612	6½ in.	Full Polished	3 lbs.	\$3.30
		(With Stripping Notch)		



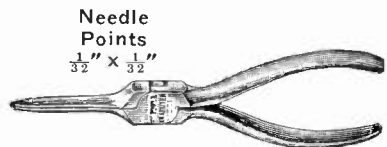
OVAL HEAD DIAGONAL CUTTING PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
5611	5 in.	Full Polished	2¼ lbs.	\$2.75



NEEDLE POINT DIAGONAL CUTTING PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
5601	4½ in.	Full Polished	2 lbs.	\$2.50
5601	5 in.	Full Polished	2¼ lbs.	2.70
5601	6 in.	Full Polished	3 lbs.	3.10

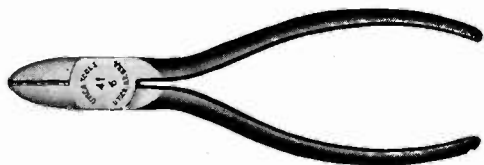


NEEDLE POINT SNIPE NOSE PLIERS

No.	Length	Finish	Price	
			Wt. per.doz.	Each
842	6 in.	Full Polished	2¼ lbs.	\$2.50

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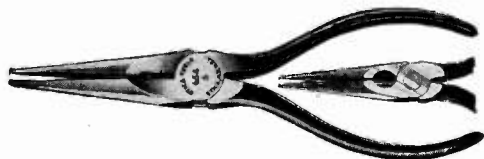
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No. 41 • Electricians' Diagonal Pliers—

Hardened and tempered in oil. Special narrow nose for radio and electrical work.

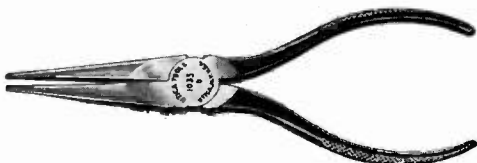
No. 41.....4 inches, 5 inches and 6 inches
Can be furnished with insulation stripper.



No. 654 • Utica Long Needle Nose Side Cutting Plier

This is a long, fine, spring-tempered nose side cutting plier, drop forged and with hand-honed cutting knives.

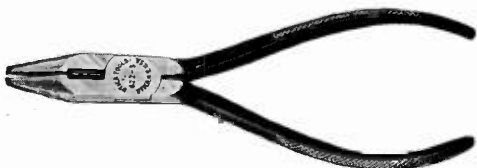
Utica Finish Size.....6 inches and 7 inches



No. 1033 • Utica Long Chain Needle Nose Plier

This is a long needle nose type of plier without a side cutter. It has a spring-tempered needle nose with a fine balance for delicate work.

Utica Finish Size.....6 inches and 7 inches

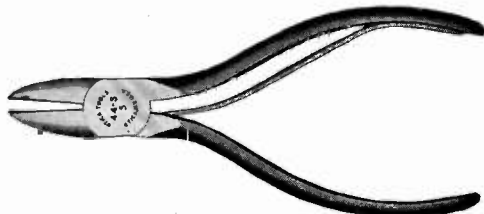


No. 622 • Utica Short Chain Nose Mechanic's Plier

This plier is a Short Chain Nose Side Cutting Plier, hand-honed cutting knives. It makes an all around Electrical Mechanic's plier.

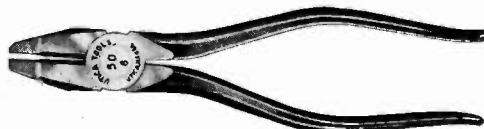
Utica Finish Size 5 inches

No. 44S—Special Diagonal Pliers with Spring



A slim nose cutting plier designed especially for radio and electrical work. Extra fine hand honed edges permit nearly flush cuts.

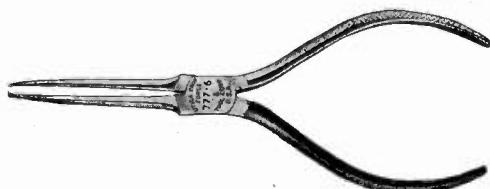
Utica Finish Size..... 5 inches and 6 inches



No. 50 • Utica Standard Side Cutting Plier

An ideal tool for electrical work. Drop forged and skillfully tempered. Its cutting qualities are unsurpassed by any side cutting plier.

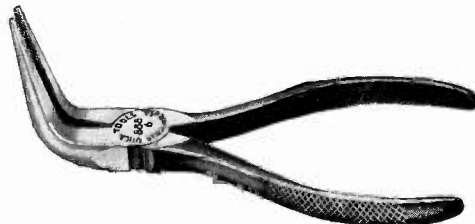
Utica Finish Size 5, 6, 7, 8 inches



No. 777 • Utica Long Needle Nose Plier

This plier has a long, half-round, spring-tempered nose for very fine work in assembling small electrical apparatus.

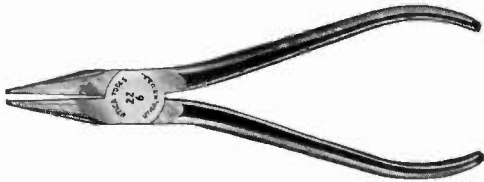
Utica Finish Size6 inches



No. 888 • Curved Needle Nose Pliers—

This is a long curved spring-tempered Needle Nose Plier for use in deep and narrow places. It may be used without turning or twisting the hand in the assembling of small fixtures, electrical apparatus, etc.

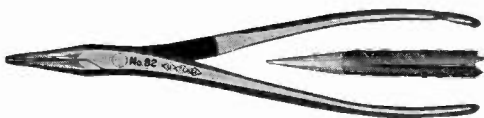
Utica Finish Size6 inches



No. 22 • Utica Chain Nose Plier

This is a Short Chain Nose Plier forged from a fine quality of steel with fine points particularly adapted for the use of Jewelers, Opticians, Telephone Installers, Electricians and Radio Assemblers.

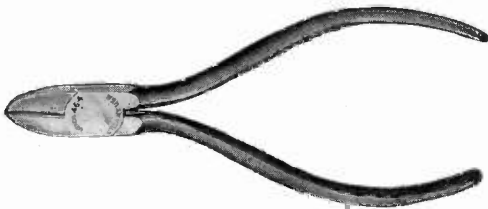
Utica Finish Size4, 4½, 5, 6 inches



No. 82 • Utica Chain Nose Wiring Plier

This is a special Radio Repair man's plier, new in design, having a chain nose for those who prefer this type of construction.

Utica Finish Size 8 inches



No. 46 • Midget Diagonal Plier

A small Diagonal for radio and electrical work. Hand honed edges with a slim nose for use in cramped quarters.

Utica Finish Size.....4 inches

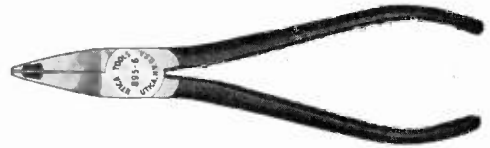


No. 91 • Thin Adjustable 22½° Angle Wrenches, Alloy Steel

Both the handle and jaw are drop forged from a high grade Alloy Steel, hardened and tempered in oil. Will not break or wear in the gear teeth and allow play in the wrench, permitting the jaw to slip off the nut.

It will give better service and last longer than any other wrench.

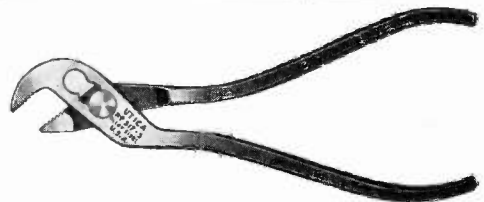
Size 4, 6, 8, 10, 12 inch



No. 895 Utica Radio Plier

This is a General Radio Repair Man's Plier. It has a center cutter and flat scored nose for looping and bending.

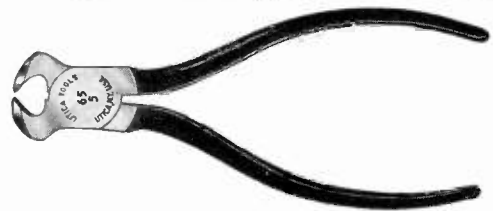
Utica Finish Size6 inches



No. 517 Utica Ignition Plier

This ignition Plier with its unique design will fit all ignition units, spring tempered. A great little tool for the hard to get at adjustments.

No. 517 5 inches



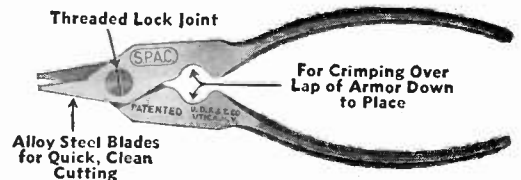
No. 65 • Utica Jeweler's End Cutting Nipper

This Nipper is forged from a fine grade of steel, carefully tempered. A light, strong End Cutting Nipper, used by Electricians and Machinists. The keen cutting edges and "Perfect Fit" handles make this a very popular tool.

Utica Finish Size.....4½ and 5 inches

No. 100BX • Utica-Smith Pocket Armor Cutters

No. 100BX—Utica-Smith Pocket Armor Cutters 7" Alloy Steel



The easiest, quickest tool made for cutting armored cable. Fully illustrated instructions packed with each tool.

Utica Finish Size 7 inches

Quality

XCELITE

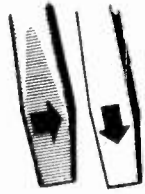
Tools

REG. TRADE MARK

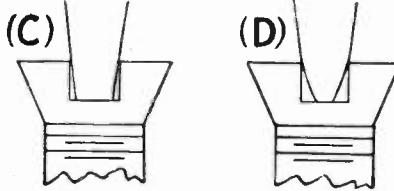
Creators of

**SHOCK-PROOF BREAK-PROOF AMBER PLASTIC HANDLE
SCREWDRIVERS**

TIP is properly ground and gauged to fit screw slot accurately. Ground on a flat belt grinder with grain running lengthwise with the blade "B" eliminates the indentations of crosswise grinding, always sources of tip weakness and breakage "A". XceLite grinding insures uniformity right down to the edge of the tip; insuring perfect fit in the screw slot.

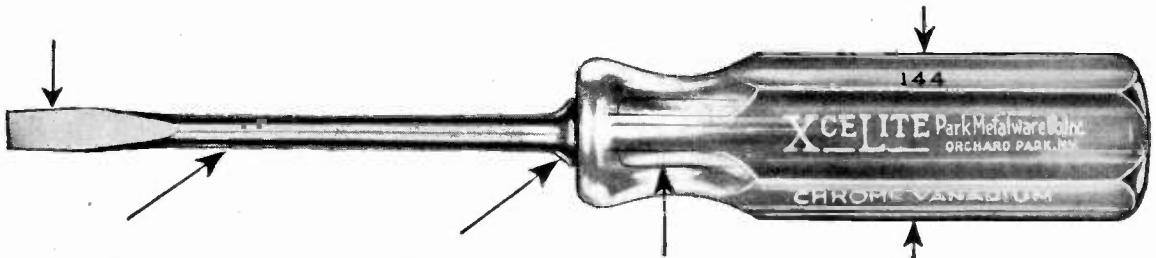


(A) (B)



Note illustration "C" showing perfect rectangle of XceLite Tip, insuring grip in screw slot. Illustration "D" shows "dubbed-off" result of ordinary grinding with the tendency to lift out of the screw under turning pressure.

SIZE is clearly marked on the handle. Easier to select the correct size — easier to reorder. Number on handle is catalog number, also it gives size of screwdriver. For example: No. 144 means 1/4" diameter blade; 4" long. Letters "R" or "S" signify round or square blade.



BLADE is skillfully forged of SAE 6150 Chrome Vanadium Electric Furnace Steel. Polished Blades.

FLANGE on the blade of handle resists shock of pounding.

EMBEDDED END of blade, winged design, prevents turning of the blade in the handle.

HANDLE is of genuine XceLite plastic, full size and correctly shaped for grip and balance.

**XCELITE SHOCKLESS SCREWDRIVERS
Complete XceLite Screwdriver Price List**

Square Blades

Number	Size Blade	List	Weight Box of 10
S-183	1/8" x 3"	\$.45	1/2 lb.
S-184	1/8" x 4"	.45	1/2 lb.
S-185	1/8" x 5"	.45	1/2 lb.
†SH-183	1/8" x 3"	.60	1/2 lb.
†SH-184	1/8" x 4"	.60	1/2 lb.
†SH-185	1/8" x 5"	.60	1/2 lb.
S-3163	1/8" x 3"	.75	1 3/4 lb.
S-3164	1/8" x 4"	.80	1 3/4 lb.
S-3166	1/8" x 6"	.90	2 lb.
S-3168	1/8" x 8"	.95	2 lb.
S-31610	1/8" x 10"	1.05	2 1/4 lb.
S-142	1/4" x 2"	.90	1 3/4 lb.
S-144	1/4" x 4"	.95	2 lb.
S-146	1/4" x 6"	1.00	2 1/2 lb.
S-148	1/4" x 8"	1.10	3 lb.
S-5162	1/8" x 2"	.95	2 lb.
S-5166	1/8" x 6"	1.20	3 3/4 lb.
S-5168	1/8" x 8"	1.30	4 1/4 lb.
S-51610	1/8" x 10"	1.40	4 3/4 lb.
S-388	3/8" x 8"	1.60	6 lb.
††S-3812	3/8" x 12"	2.25	1 1/4 lb.
††S-7166	1/2" x 6"	1.80	1 1/4 lb.
††S-71612	1/2" x 12"	2.35	1 1/2 lb.
††S-71618	1/2" x 18"	2.60	1 1/2 lb.
††S-3818	3/8" x 18"	2.50	1 1/2 lb.
S-1424	1/4" x 24"	2.25	1 1/4 lb.

Stubbies

S-3161	1/8" x 1"	.55	3/4 lb.
S-141	1/4" x 1"	.65	1 1/4 lb.
S-5161	1/8" x 1"	.65	3/4 lb.

††Large double-grip handles.

†Screwholding type used on SH-10 Display.

Round Blades

Number	Size Blade	List	Weight Box of 10
*R-3322	3/16" x 2"	\$.30	1/2 lb.
*R-3323	3/16" x 3"	.30	1/2 lb.
*R-3324	3/16" x 4"	.30	1/2 lb.
**R-181	1/8" x 2"	.30	1/2 lb.
*R-183	1/8" x 3"	.30	1/2 lb.
*R-184 1/2	1/8" x 4"	.30	1/2 lb.
††R-184	1/8" x 4"	.50	1/2 lb.
††R-186	1/8" x 6"	.55	3/4 lb.
††R-188	1/8" x 8"	.60	1 lb.
††R-1810	1/8" x 10"	.65	1 lb.
R-5323	3/16" x 3"	.60	1 lb.
R-5324	3/16" x 4"	.60	1 lb.
R-5325	3/16" x 5"	.60	1 lb.
R-5328	3/16" x 8"	.70	1 1/4 lb.
R-3163	1/8" x 3"	.70	1 1/2 lb.
R-3164	1/8" x 4"	.75	1 1/2 lb.
R-3166	1/8" x 6"	.85	1 1/2 lb.
R-3168	1/8" x 8"	.90	1 3/4 lb.
R-31610	1/8" x 10"	1.00	2 lb.
R-31618	1/8" x 18"	1.75	(pk. 1)
R-144	1/4" x 4"	.90	2 lb.
R-146	1/4" x 6"	.95	2 1/4 lb.
R-148	1/4" x 8"	1.05	2 1/2 lb.
R-5166	5/16" x 6"	1.15	3 1/2 lb.
R-5168	5/16" x 8"	1.25	4 lb.

**24 of this number used on #24 display.

*These numbers have 1/8" dia. handles.

††These numbers have 5/16" dia. handles. For insulated blades any size in round list add 25 cents to list price.

There's an XceLite Screwdriver "sized" to fit every job.

Note: We have standardized our packages on the decimal system instead of in dozens, in accordance with Government practice. All screwdrivers and nut drivers will be packed ten in a box, except where otherwise noted (exceptions are large sizes or slow moving items). Weights given above are correct to the nearest quarter-pound limit.

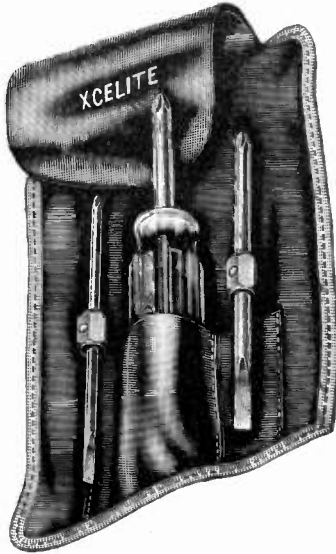
Quality

XCELITE

Tools

REG. TRADE MARK

DUAL-PURPOSE SCREWDRIVERS



IN ROLL KIT



No. CK-3...\$3.95 List
Contains RB-1, RB-2,
RB3 and Combina-
tion Handle.

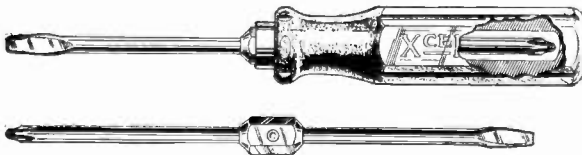
No. CK-2...\$3.10 List
Contains RB-1, RB-2
and Combination
Handle.

See Below for Indi-
vidual Listing of
Blade Sizes.

IN PLASTIC BOX

No. BC22 Containing RB1, RB2 and Reg. Handle.....\$3.10
No. BC23 Containing RB1, RB2, RB3 and Reg. Handle..... 3.95

OR INDIVIDUALLY



BLADE COMBINATIONS (Please Order by Number)

- No. 1—No. 1 Phillips and $\frac{1}{8}$ " Xcelite
- No. 2—No. 2 Phillips and $\frac{1}{4}$ " Xcelite
- No. 3—No. 3 Phillips and $\frac{1}{8}$ " Xcelite

COMPLETE (Regular Type)

	List Price
No. CR1.....	\$1.60
No. CR2.....	1.60
No. CR3.....	1.60

BLADES ONLY (Regular Type)

	List Price
No. RB1.....	\$0.90
No. RB2.....	.90
No. RB3.....	.90

HANDLES ONLY

	List Price
No. 25 Regular.....	\$0.75

STUBBY TYPE



COMPLETE (Stubby Type)

No. CS1.....	\$1.30
No. CS2.....	1.30

BLADES ONLY (Stubby Type)

No. SB1.....	\$0.65
No. SB2.....	.65

HANDLES ONLY

No. 26 Stubby.....	\$0.65
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DETACHABLE REAMERS

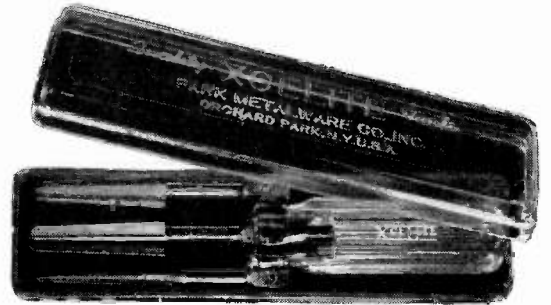
 No. 61...\$1.35 List
 $\frac{1}{8}$ " — $\frac{1}{8}$ "

 No. 62...\$1.65 List
 $\frac{1}{4}$ " — $\frac{1}{2}$ "

 No. 63...\$1.95 List
 $\frac{1}{8}$ " — $\frac{1}{8}$ "

Detachable to fit your Xcelite No. 14 Nut Driver or "Combination-Detachable" Screwdriver! Short enough to get in where ordinary reamers can't! Enlarge holes in plastic, sheet metal, wood!

REAMER SETS IN BOX



No. BR32 Contains Reg. Handle, No. 61 and 62 Reamers.....\$4.25
No. BR33 Contains Reg. Handle, No. 61, 62 and 63 Reamers..... 5.95

REAMERS IN PLASTIC ROLL KIT

No. RK-42 Contains Reg. Handle, No. 61 and 62 Reamers.....\$4.25
No. RK-43 Contains Reg. Handle, No. 61, 62 and 63 Reamers..... 5.95

Xcelite-



Phillips

No.	Point Size	Length Blade	Diameter Blade	Weight	List Price
X-108	1	6"	$\frac{3}{16}$ "	2 lbs.	\$1.05
X-101	1	3"	$\frac{3}{16}$ "	1 $\frac{1}{4}$ lbs.	.95
X-102	2	4"	$\frac{1}{4}$ "	2 lbs.	1.25
X-103	3	6"	$\frac{5}{16}$ "	3 lbs.	1.65
X-104	4	8"	$\frac{3}{8}$ "	3 lbs.	2.05

SHORT STUBBY TYPE

SX-101	1	$\frac{3}{16}$ "	$\frac{7}{8}$ lb.	.90
SX-102	2	$\frac{1}{4}$ "	2 lbs.	1.00



XCELITE

Clutch Head Screwdrivers

Type G No.	Type A No.	Size	Diameter Blade	Length Blade	List Price Each
G-183	A-183	$\frac{1}{8}$ "	$\frac{3}{8}$ "	3"	\$1.10
G-5324	A-5324	$\frac{5}{32}$ "	$\frac{1}{4}$ "	4"	1.20
G-3164	A-3164	$\frac{3}{8}$ "	$\frac{1}{4}$ "	4"	1.20
G-146	A-146	$\frac{1}{4}$ "	$\frac{1}{8}$ "	6"	1.60
G-5166	A-5166	$\frac{1}{16}$ "	$\frac{3}{8}$ "	6"	1.95

Note: Both above types are the same size and the same price. Order by Number.

Quality

XCELITE

Tools

REG. TRADE MARK

XCELITE PLIERS

XceLite Pliers are fully guaranteed against defects of material and workmanship. Any plier showing such defects will be willingly replaced if returned to us.

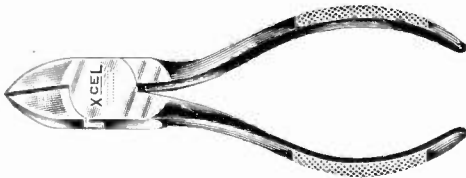


No. 51 — XceLite Long Needle Nose and Side Cutter PLIERS, 7" **\$2.80**

No. 52 — XceLite Long Needle Nose PLIERS (Without Side Cutters)

This plier is identical with the above except it does not have the side cutters **\$2.40**

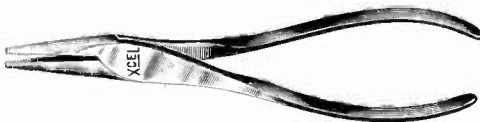
No. 54 — XceLite Diagonal PLIER, 4" **\$2.60**



No. 55 — XceLite Diagonal PLIER, 5" **\$2.60**



No. 57 — XceLite Extra Long Duck Bill PLIER, 7" **\$2.70**



No. 59 — XceLite Chain Nose Electrician's PLIER, 7 3/4" **\$3.10**



No. 60 — XceLite Side Cutting PLIER, 6" **\$2.60**

XCELITE NUT DRIVERS

6" Overall Length

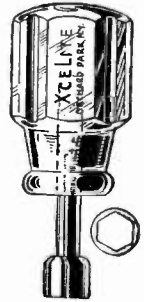
Number	Size	Polished	Chrome Plated
6	3/8"	\$0.75	\$0.85
7	7/32"	.75	.85
8	1/4"	.75	.85
9	9/32"	.75	.85
10	5/16"	.75	.85
11	11/32"	.75	.85
12	3/8"	.75	.85
14	7/16"	1.15	
16	1/2"	1.15	



9" Overall Length

Number	Size	List
A-6	3/16"	\$0.95
A-7	7/32"	.95
A-8	1/4"	.95
A-9	9/32"	.95
A-10	5/16"	.95
A-11	11/32"	.95
A-12	3/8"	.95
A-14	7/16"	1.15
A-16	1/2"	1.15

Stubbies



3 1/4" Overall Length

Number	Nut Size	List
S-8	1/4"	\$0.70
S-10	5/16"	.70
S-12	3/8"	.70

HOLLOW SHAFT NUT DRIVERS



No. and Length Overall	Nut Size	Depth of Hole	Weight per Box	List	Insulated List
HS-10 6"	3/4"	5"	1 lbs.	\$1.05	\$1.30
HS-11 6"	11/16"	5"	1 lbs.	1.05	1.30
HS-12 6"	5/8"	5"	1 lbs.	1.05	1.30
HS-14 7"	7/8"	5"	1 1/2 lbs.	1.20	1.45
HS-16 7"	1/2"	5"	1 1/2 lbs.	1.25	1.50
HS-18 7"	9/16"	5"	1 3/8 lbs.	1.30	1.55
HS-20 7"	5/8"	5"	1 7/8 lbs.	1.50	1.75

XCELITE NO. 3 De Lux

RADIO AND ELECTRICAL KIT



Set includes:

R-142, R-3163, R-5166, R-184, R-144, X-101 and R-3166.

No. 3 \$6.95
No. 3C Chrome Plated \$7.65

NO. 4 ALL PURPOSE KIT

Kit same as shown above. Set includes:

S-142, S-144, X-102, S-184, S-3166, S-5166 and S-388.
No. 4 Polished \$8.60 No. 4C Chrome \$9.35

Quality

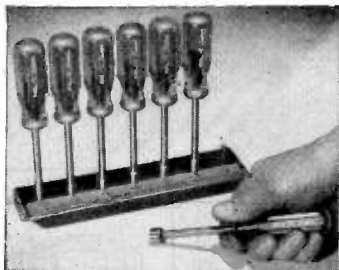
XCELITE

Tools

REG. TRADE MARK

NO. 17 NUT DRIVER SET

Amber Handles — Highly Polished Blades



Consisting of:

Number	Size
6	$\frac{3}{8}$ "
7	$\frac{7}{32}$ "
8	$\frac{1}{4}$ "
9	$\frac{5}{32}$ "
10	$\frac{3}{16}$ "
11	$\frac{1}{8}$ "
12	$\frac{3}{8}$ "

Complete with Rack \$5.75

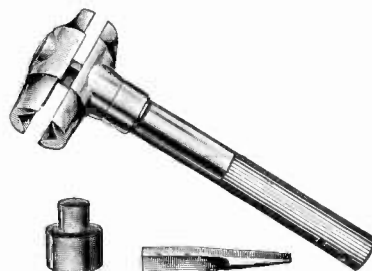
6" XCEL Adjustable SOCKET WRENCH (with Attachments)

A whole set of tools in one! Fits any size nut, hexagon or square, round or odd shaped, from $\frac{1}{8}$ " to 1".

List Price, \$3.50

Individually boxed, packed 6 to a self-selling display carton.

Weight, 6 lbs.

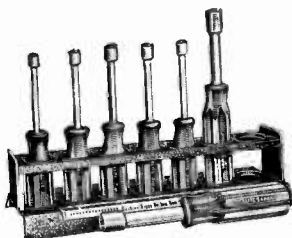


NO. 137 NUT DRIVER SET

With Colored Handles

Consisting of:

Number	Size
6	$\frac{3}{16}$ "
8	$\frac{1}{4}$ "
10	$\frac{5}{16}$ "
11	$\frac{3}{16}$ "
12	$\frac{3}{8}$ "
HS-16	$\frac{1}{2}$ "
HS-18	$\frac{9}{16}$ "



No. 137 Polished Finished \$7.40
 No. 137C Chrome Plated 8.15

No. 117 SET With Colored Handles

Set consists of Nos. 6, 7, 8, 9, 10, 11, and 12. Furnished in either full polished or chrome finish. Complete with same type stand as No. 137.

No. 117 Set Polished Finish \$6.45
 No. 117C Chrome Plated 7.25

SCREW-HOLDING SCREWDRIVER



1



2



3



4

The Xcelite Screw-Holding Screw Driver is a tool for which electricians, radio men and mechanics everywhere have long searched. It is a genuine Xcelite product with a unique attachment that instantly and rigidly holds and starts any screw, even one without a head. Spring holder remains in place either above, below or exactly at the driver point. Grasps the screw at the head or $\frac{3}{8}$ " below giving three point suspension for greater rigidity. Can also be used for removing screws. Comes in $\frac{1}{8}$ " square blade, 3", 4" and 5". Packed 12 assorted lengths on metal display.

List \$6.35
 Display, complete
 Refills, each60

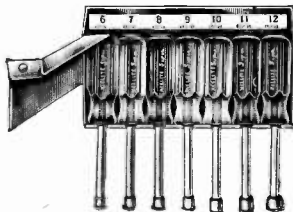
Delux No. 127 NUT DRIVER SET

NEW LARGER HANDLES — BRIGHTER COLORS

Makes Size Selection Easy.

Set consists of Nos. 6, 7, 8, 9, 10, 11, & 12. Furnished in either full polished or chrome finish.

No. 127 Polished Finish \$6.50
 No. 127C Chrome Plated 7.30



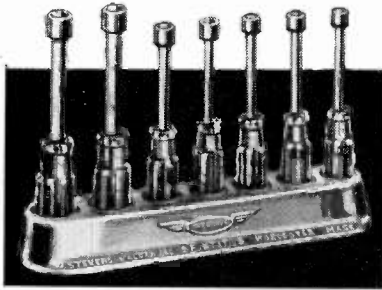
READY FOR QUICK WORK

The metal container can be fastened to the wall or work bench by screws which are inaccessible when locked. Red Wrinkle finish.

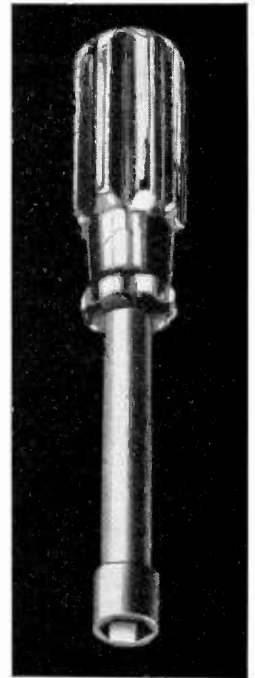
**THE ORIGINAL
SPINTITE
(TRADE MARK REGISTERED)
WRENCHES**



SUPER DELUXE SPINTITES

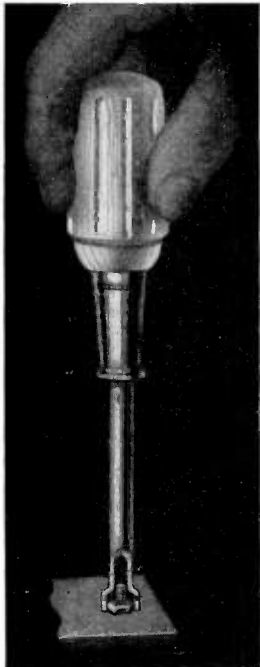


The wrench that works like a screwdriver! The super deluxe Spintite for panel or switchboard work — deep drilled with extra deep sockets. Beautifully plated and finished. A *must* for radio and electrical work.



Number	Size	Length	Drill Depth	List Price
3006	$\frac{3}{16}$	6"	1 $\frac{3}{4}$	\$1.10
3007	$\frac{7}{32}$	6"	2 $\frac{1}{4}$	1.10
3008	$\frac{1}{4}$	6"	2 $\frac{1}{4}$	1.10
3009	$\frac{9}{32}$	6"	2 $\frac{1}{4}$	1.10
3010	$\frac{5}{16}$	6"	2 $\frac{1}{4}$	1.10
3011	$\frac{11}{32}$	6"	2 $\frac{1}{4}$	1.10
3012	$\frac{3}{8}$	6 $\frac{5}{8}$ "	5 $\frac{1}{8}$	1.10
3014	$\frac{7}{16}$	6 $\frac{5}{8}$ "	5 $\frac{1}{8}$	1.35
3016	$\frac{1}{2}$	6 $\frac{5}{8}$ "	5 $\frac{1}{8}$	1.35
3018	$\frac{9}{16}$	6 $\frac{5}{8}$ "	5 $\frac{1}{8}$	2.45

**REGULAR SPINTITES
THE ORIGINAL SPINTITE WRENCH**



Works like a screwdriver—features cold forged sockets, drilled shanks, special tool steel, hardened and tempered, ferrules and shanks are bright plated and the hardwood handles have natural rubbed finish.

Number	Size	Length	Nut Size	List Price
3406	$\frac{3}{16}$	6"	2 & 3	\$0.70
3407	$\frac{7}{32}$	6"		.70
3408	$\frac{1}{4}$	6"	4	.70
3409	$\frac{9}{32}$	6"		.70
3410	$\frac{5}{16}$	6"	5 & 6	.70
3411	$\frac{11}{32}$	6"	8	.70
3412	$\frac{3}{8}$	6"	10	.70
3414	$\frac{7}{16}$	7 $\frac{1}{8}$ "	12 & $\frac{1}{4}$	1.00
3416	$\frac{1}{2}$	7 $\frac{1}{8}$ "		1.00
3418	$\frac{9}{16}$	7 $\frac{1}{8}$ "		1.75
3420	$\frac{5}{8}$	7 $\frac{1}{8}$ "	$\frac{5}{16}$ $\frac{3}{8}$	1.75

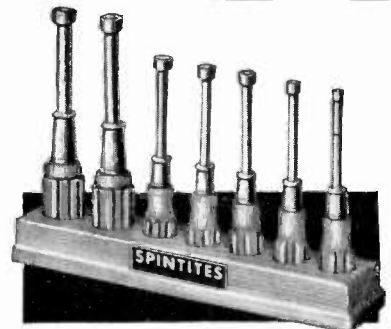
T-73 SET

Set of popular sizes in wood stand.

CONTENTS

- 3406
- 3408
- 3410
- 3411
- 3412
- 3414
- 3416
- Wood Stand

List Price \$6.50





THE ORIGINAL SPINTITE

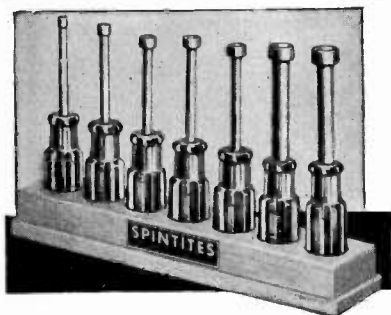
(TRADE MARK REGISTERED)

WRENCHES

DELUXE SPINTITES

For the mechanic who appreciates fine tools we offer these shining Spintites with transparent shockproof handles.

Number	Size	Length	Nut Size	List Price
3906	$\frac{3}{16}$	6"	2 & 3	\$1.00
3907	$\frac{1}{8}$	6"		1.00
3908	$\frac{1}{4}$	6"	4	1.00
3909	$\frac{9}{32}$	6"		1.00
3910	$\frac{5}{16}$	6"	5 & 6	1.00
3911	$\frac{11}{32}$	6"	8	1.00
3912	$\frac{3}{8}$	6"	10	1.00
3914	$\frac{7}{8}$	7 $\frac{1}{8}$ "	12 & $\frac{1}{4}$	1.25
3916	$\frac{1}{2}$	7 $\frac{1}{8}$ "		1.25
3918	$\frac{9}{16}$	7 $\frac{1}{8}$ "	$\frac{5}{16}$	2.10
3920	$\frac{5}{8}$	7 $\frac{1}{8}$ "	$\frac{3}{8}$	2.10



T-8 SET

Just right for a place on the mechanic's bench. Seven popular sizes.

CONTENTS

3906	3912
3908	3914
3910	3916
3911	Wood Stand

List Price.....\$7.75



ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

JUMBO SPINTITES



A rugged special Spintite for use on all types of hardened or self tapping cap screws. Shanks and sockets are made of alloy tool steel with a very high degree of hardness. Plastic grip is oversize for greater leverage. Depth of broach is less than thickness of screw heads to prevent marring panels.

Number	Size	Length	Handle Size	List Price
3058	$\frac{1}{4}$	8 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	\$3.15
3059	$\frac{9}{32}$	8 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3.15
3062	$\frac{3}{8}$	8 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	3.15
3066	$\frac{1}{2}$	8 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	4.70
3068	$\frac{9}{16}$	8 $\frac{1}{2}$ "	1 $\frac{1}{8}$ "	4.70

EXTRA LONG SPINTITE



A special Spintite for those hard-to-get-at places. Medium sized, easily controlled plastic grip and extra long shaft made of chrome alloy steel. It belongs in the tool kit of every assembler and repairman.

Number	Size	Length	Drill Depth	List Price
3206	$\frac{3}{16}$	10"	1 $\frac{1}{2}$ "	\$1.75
3207	$\frac{1}{8}$	10"	1 $\frac{1}{2}$ "	1.75
3208	$\frac{1}{4}$	10"	1 $\frac{1}{2}$ "	1.75
3209	$\frac{9}{32}$	10"	1 $\frac{1}{2}$ "	1.75
3210	$\frac{5}{16}$	10"	1 $\frac{1}{2}$ "	1.75
3211	$\frac{11}{32}$	10"	1 $\frac{1}{2}$ "	1.75
3212	$\frac{3}{8}$	10"	1 $\frac{1}{2}$ "	1.75
3214	$\frac{7}{8}$	10"	1 $\frac{1}{2}$ "	2.75
3216	$\frac{1}{2}$	10"	1 $\frac{1}{2}$ "	2.75
3218	$\frac{9}{16}$	10"	1 $\frac{1}{2}$ "	4.40
3220	$\frac{5}{8}$	10"	1 $\frac{1}{2}$ "	4.95

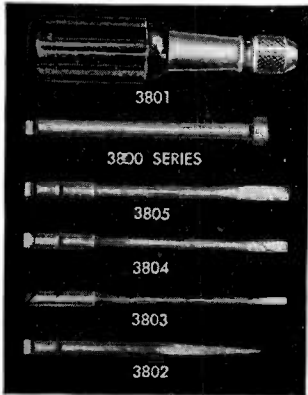
THE ORIGINAL SPINTITE

(TRADE MARK REGISTERED)

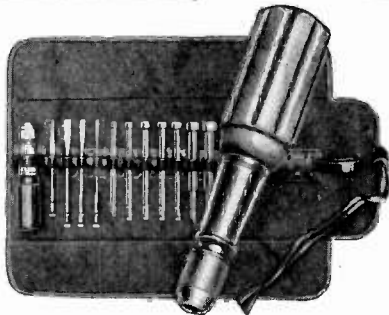
WRENCHES



CHUCK TYPE SPINTITES



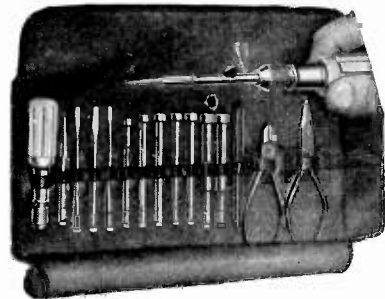
Number	Description	Size	Length	Nut Size	List Price
3801	Universal Handle				\$1.55
3802	Ream Awl	$\frac{1}{16}$ to $\frac{3}{16}$	4 $\frac{5}{8}$		.70
3803	Screwdriver	$\frac{1}{8}$ X 4	4 $\frac{5}{8}$		.70
3804	Screwdriver	$\frac{3}{16}$ X 4	4 $\frac{5}{8}$		.70
3805	Screwdriver	$\frac{1}{4}$ X 4	4 $\frac{5}{8}$		.70
3806	Spintite Shank	$\frac{3}{16}$	4 $\frac{7}{8}$	2 & 3	.50
3808	Spintite Shank	$\frac{1}{4}$	4 $\frac{3}{8}$	4	.50
3810	Spintite Shank	$\frac{5}{16}$	4 $\frac{5}{8}$	5 & 6	.50
3811	Spintite Shank	$\frac{11}{32}$	4 $\frac{5}{8}$	8	.50
3812	Spintite Shank	$\frac{3}{8}$	4 $\frac{5}{8}$	10	.50
3814	Spintite Shank	$\frac{7}{8}$	4 $\frac{3}{4}$	12 & $\frac{1}{4}$	.70
3816	Spintite Shank	$\frac{1}{2}$	4 $\frac{3}{4}$		.70
3850	Screwdriver, Cross Point	No. 2	4 $\frac{5}{8}$		1.00
3852	Four way Neutralizing Tool	5	5		1.35



SET T-51
CONTENTS

3801	3805	3811
3802	3806	3812
3803	3808	3814
3804	3810	3816

in Leatherette Roll
List Price.....\$9.25



SET T-52
CONTENTS

3801	3805	3811
3802	3806	3812
3803	3808	3814
3804	3810	3816

6" Long Nose Pliers
6" Cutting Pliers
Neutralizing Tool
List Price.....\$15.50



SQUARE SPINTITES

No.	Size	List	No.	Size	List
3505	$\frac{5}{32}$	\$1.00	3511	$\frac{11}{32}$	\$1.25
3506	$\frac{3}{16}$	1.00	3512	$\frac{3}{8}$	1.25
3507	$\frac{7}{32}$	1.00	3513	$\frac{13}{32}$	1.50
3508	$\frac{1}{4}$	1.00	3514	$\frac{7}{16}$	1.50
3509	$\frac{9}{32}$	1.00	3516	$\frac{1}{2}$	1.85
3510	$\frac{5}{16}$	1.00	3520	$\frac{5}{8}$	1.85



STUBBY SPINTITES

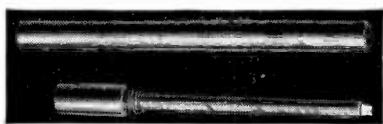
No.	Size	List	No.	Size	List
4406	$\frac{3}{16}$	\$0.70	4411	$\frac{11}{32}$	\$0.70
4407	$\frac{7}{32}$	.70	4412	$\frac{3}{8}$	.70
4408	$\frac{1}{4}$	.70	4414	$\frac{7}{16}$	1.00
4409	$\frac{9}{32}$	.70	4416	$\frac{1}{2}$	1.00
4410	$\frac{5}{16}$	.70			



KNURLED SPINTITES

Tapered knurls to take care of variations in size.

Number	Diameter	List Price
3710	$\frac{5}{16}$	\$1.50
3711	$\frac{11}{32}$	1.60
3712	$\frac{3}{8}$	1.80



FOUR-IN-ONE NEUTRALIZING AND ALIGNING TOOL

Made entirely of shock-proof plastic this tool has wrenches on each end, key slot, and screwdriver tip.

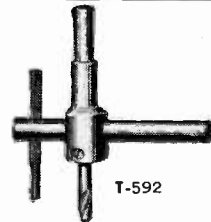
3852.....List Price \$1.35



SPECIAL SPINTITE FOR BAT TYPE SWITCHES

Deep cavity accommodates bat handle, fine knurl is tapered to adjust for variations in knurled rings.

6337.....List Price \$2.75



PANEL CUTTERS

	List Price
T-564—For Bit Brace	\$4.80
T-592—For Drill Chuck	4.80

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE



THE ORIGINAL SPINTITE

(TRADE MARK REGISTERED)

WRENCHES



SET NUMBER S-211

SET NUMBER S-211

1/4 Inch Square Drive — 11 Pieces

- 6 HEX SOCKETS
- 3 SQUARE SOCKETS
- 1 HINGE HANDLE
- 1 CROSS BAR
- ALL IN HEAVY ENAMELED METAL BOX
- Special Low Price

SET NUMBER S-217

1/4 Inch Square Drive — 17 Pieces

- 8 Hex Sockets
- 3 Square Sockets
- 1 Reversible Ratchet
- 1 Hinge Handle
- 1 Cross Bar
- 1 Sliding Tee Handle
- 1 Short Extension
- 1 Long Extension

AN EXCELLENT COMBINATION OF SOCKET WRENCHES AND ATTACHMENTS FOR FINE WORK ON IGNITION, ELECTRICAL, RADIO OR HOBBY WORK.

—Alloy Steel

—Bright Plated



SET NUMBER S-217

WALDEN WORCESTER SCREWDRIVERS

SQUARE SHANK SCREWDRIVER

Plastic Handle



Number	Size	List Price
SS4	4 x 1/4	\$1.20
SS6	6 x 5/16	1.65
SS8	8 x 3/8	2.05
SS12	12 x 3/8	2.45

CROSSPOINT SCREWDRIVER

Wood Handle



Number	Size	List Price
SC3	3 x 5/8	\$0.75
SC4	4 x 1/4	.75
SC6	6 x 5/16	.95
SC8	8 x 3/8	1.30

ROUND SHANK SCREWDRIVER

Plastic Handle



Number	Size	List Price
SM2	2 1/4 x 1/8	\$0.40
SR3	3 x 3/16	.90
SR4	4 x 1/4	1.20
SR6	6 x 5/16	1.55
SR6A	6 x 3/16	1.15
SR8	8 x 3/8	2.00
SR12	12 x 3/8	2.30

STUBBY SCREWDRIVER

Plastic Handle



Number	Size	List Price
SS2	1 1/2 x 1/4	\$0.80

ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE

VACO PRODUCTS COMPANY • CHICAGO 11, ILLINOIS • U. S. A.



Hand Forged Chrome Vanadium Screw and Nut Drivers With Amberyl* S/B* (Slo-Burn)
Fire Safe Break and Shock Proof Handles

*Trade Marks Registered U. S. Pat. Off.

ROUND BLADE SCREW DRIVERS



Pocket Styles*—3/32" & 1/8" Blades.
*High carbon tool steel blades only.

Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
A 010	1 3/32" x 1 3/4"	3/32" x 1 5/8"	1/4 lb.
A 130-2	1/2" x 1 7/8"	3/8" x 2"	1/2 lb.
A 130-3	1/2" x 1 7/8"	3/8" x 3"	2/3 lb.
A 116-2	1/2" x 2 1/2"	3/32" x 2"	2/3 lb.
A 116-3	1/2" x 2 1/2"	3/32" x 3"	1/3 lb.

Electrician and Cabinet Styles—1/8" Blades.

Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
A 216-2*	5/8" x 2 3/4"	1/8" x 2"	3/4 lb.
A 216-4	3/4" x 3"	1/8" x 4"	1 lb.
A 216-6	3/4" x 3"	1/8" x 6"	1 1/4 lbs.
A 216-8	3/4" x 3"	1/8" x 8"	1 1/2 lbs.
A 216-10	3/4" x 3"	1/8" x 10"	1 3/4 lbs.

Electrician and Regular Cabinet Styles — 3/16" Blades.

Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
A 316-3	7/8" x 3 1/2"	3/16" x 3"	1 1/4 lbs.
A 316-4	7/8" x 3 1/2"	3/16" x 4"	1 1/2 lbs.
A 316-6	7/8" x 3 1/2"	3/16" x 6"	1 3/4 lbs.
A 316-8	7/8" x 3 1/2"	3/16" x 8"	2 lbs.
A 316-10	7/8" x 3 1/2"	3/16" x 10"	2 1/2 lbs.

General Service Round Blade Styles — 1/4" Blades.

Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
A 416-4	1" x 3 5/8"	1/4" x 4"	2 1/4 lbs.
A 416-5	1" x 3 5/8"	1/4" x 5"	2 1/2 lbs.
A 416-6	1" x 3 5/8"	1/4" x 6"	2 3/4 lbs.
A 416-8	1" x 3 5/8"	1/4" x 8"	3 1/4 lbs.
A 416-10	1" x 3 5/8"	1/4" x 10"	3 1/2 lbs.

Heavy Duty General Service Round Blade Styles — 5/16" Blades.

Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
A 516-6	1-1/16" x 4"	5/16" x 6"	4 lbs.
A 516-8	1-1/16" x 4"	5/16" x 8"	4 1/2 lbs.
A 516-10	1 1/8" x 4 3/4"	5/16" x 10"	5 1/2 lbs.
A 516-12	1 1/8" x 4 3/4"	5/16" x 12"	6 1/2 lbs.

RADIO ALIGNING TOOLS NON-METALLIC ALIGNER

No metal — completely non-capacitance. Bone fibre blade may be repointed as required.



Stock Number	Handle Diameter and Length	Blade Diameter and Length	Weight per Doz.
AT 55	1/2" x 2 1/2"	3/16" x 4"	3/4 lb.

VACO Super Hard NUT DRIVERS

Color Coded Hollow Handles For Quick Size Identification. For Use on Hardened Steel Self-Threading Sheet Metal Screws, Etc.



Stock Number	Hexagon Size (Across Flats)	Handle Diameter and Length	Color Code	Fits Muehlane Screw Nos.
S 61	3/16"	1" x 3 5/8"	Brown	2 and 3
S 82	1/8"	1" x 3 5/8"	Red	4
S 103	5/16"	1" x 3 5/8"	Green	5 and 6
S 114	11/32"	1" x 3 5/8"	Ivory	8
S 125	3/8"	1" x 3 5/8"	Blue	10
S 146	7/16"	1" x 3 5/8"	Orange	12 and 1 1/4"
S 167	1/2"	1" x 3 5/8"	Yellow	5/16"

ALL HOLLOW SHAFT NUT DRIVERS



Stock Number	Hexagon Size (Across Flats)	Handle Diameter and Length	Weight per Doz.
S 160	1/2"	1" x 3 5/8"	3 lbs. 4 oz.
S 180	9/16"	1" x 3 5/8"	3 lbs. 8 oz.

VACO EXTRA HARD NUT DRIVERS

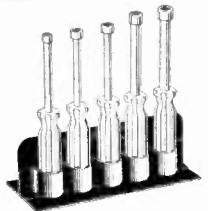
Size Stamped on Each Shaft for Easy Identification
Solid Amberyl S/B Fire Safe Handles



Stock Number	Hexagon Size	Handle Diameter and Length	Weight per Doz.
S 5	5/32"	7/8" x 3 1/2"	1 lb. 8 oz.
S 6	3/16"	7/8" x 3 1/2"	1 lb. 10 oz.
S 7	7/32"	7/8" x 3 1/2"	1 lb. 11 oz.
S 8	1/4"	7/8" x 3 1/2"	1 lb. 12 oz.
S 9	9/32"	7/8" x 3 1/2"	1 lb. 14 oz.
S 10	5/16"	7/8" x 3 1/2"	2 lbs.
S 11	11/32"	7/8" x 3 1/2"	2 lbs. 8 oz.
S 12	7/16"	7/8" x 3 1/2"	2 lbs. 12 oz.
S 14	7/16"	7/8" x 3 1/2"	2 lbs. 14 oz.
S 15	15/32"	7/8" x 3 1/2"	2 lbs. 15 oz.
S 16	1/2"	7/8" x 3 1/2"	3 lbs.

Extra Large Size

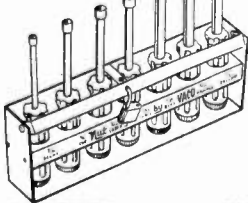
Stock Number	Hexagon Size	Handle Diameter and Length	Weight per Doz.
S 17	17/32"	1-1/16" x 4"	4 1/2 lbs.
S 18	9/16"	1-1/16" x 4"	4 1/2 lbs.
S 19	19/32"	1-1/16" x 4"	4 1/2 lbs.
S 20	1"	1-1/16" x 4"	4 1/2 lbs.



No. 5 500
METAL
BENCH HOLDER

Furnished with 1 each of five most popular sizes: S 8, S 10, S 11, S 12, S 14. Weight each . . . 1 1/2 lbs.

S 700

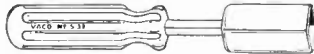


VACO WALL OR BENCH PADLOCK TYPE NUT DRIVER STAND

Holds One Complete Driver Outfit . . . from 3/16" to 1/2".

Stock Number	Weight (Packed)
S 700	2 1/4 lbs.
S 700 (Stand only)	1 lb. 2 oz.

VACO AMBERYL ELECTROLYTIC CONDENSER NUT DRIVERS



Packed 1 each of following sizes in display box, or assorted as desired:
No. S 32 for 31/32" Nuts
No. S 34 for 1" Nuts
No. S 36 for 1-5/32" Nuts

Weight per box . . . 3 lbs.

AMBERYL HANDLE PHILLIPS SCREW DRIVERS



Stock Number	Point Number	Handle Diameter and Length	Blade Diameter and Length	Takes Screws Number	Weight per Doz.
P 01	1	3/8" x 3"	1/8" x 2 1/2"	4 and smaller	3/4 lb.
P 2	1	7/8" x 3 1/2"	3/16" x 3"	4 and smaller	1 1/4 lbs.
P 3	2	1" x 3 5/8"	1/4" x 4 3/4"	5 to 9	2 1/2 lbs.
P 4	3	1-1/16" x 4"	5/16" x 6"	10 to 16	3 1/2 lbs.
P 4	4	1-1/16" x 4 1/2"	3/8" x 8"	18 and larger	6 lbs.
P 5	2	1 1/4" x 2 1/2"	1/2" x 1 3/4"	5 to 9	1 1/4 lbs.
P 6	1	1 1/8" x 1 3/4"	3/16" x 1 1/4"	4 and smaller	1 lb. 2 oz.
P 12†	1	1 1/2" x 2 1/2"	1/4" x 2 1/2"	4 and smaller	11 oz.
P 101‡	1	3/4" x 3"	3/16" x 3"	4 and smaller	1 1/4 lbs.

WOOD HANDLE PHILLIPS SCREW DRIVERS

High Carbon Tool Steel Blades . . . Chrome Vanadium Blades Also Available.



Stock Number	Handle Diameter and Length	Blade Diameter and Length	Takes Screws Number	Weight per Doz.
WP 10	1" x 4"	3/16" x 3"	4 and smaller	1 1/4 lbs.
WP 20	1 1/8" x 5"	1/4" x 4 3/4"	5 to 9	2 1/2 lbs.
WP 30	1 1/4" x 6"	5/16" x 6"	10 to 16	3 1/2 lbs.
WP 40	1-5/16" x 7"	3/8" x 8"	18 and larger	5 lbs.
WP 50 (Stub)	1-5/16" x 2 1/2"	1/4" x 2 1/2"	5 to 9	1 lb.
WP 60 (Stub)	1-5/16" x 2 1/2"	3/16" x 1 3/4"	4 and smaller	1 lb.

VACOMBO Nut Setter Kit No. ZS 60

Kit Consists of:

- 1 — ZH 1 Amberyl Handle with Clutch
- 1 — ZS 8 Hex. Wrench 1/4" x 3"
- 1 — ZS 10 Hex. Wrench 5/16" x 3"
- 1 — ZS 11 Hex. Wrench 11/32" x 3"
- 1 — ZS 12 Hex. Wrench 3/8" x 3"
- 1 — ZS 14 Hex. Wrench 7/16" x 3"
- 1 — ZR 77 Seven Section Leatherette Tool Roll

Also Available — 6" Extension No. ZX 56
3/16" Hex. Wrench No. ZS 6
1/2" Hex. Wrench No. ZS 16
Weight packed . . . 9 oz.

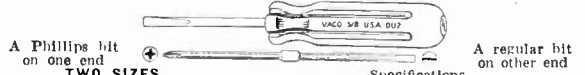
VACOMBO Screw Driver Kit No. ZB 50

Kit Consists of:

- 1 — ZH 1 Amberyl Handle with Clutch, 1" x 3 5/8"
- 1 — ZB 24 Blade 3/8" x 4" Out of Handle
- 1 — ZB 34 Blade 3/16" x 4" Out of Handle
- 1 — ZB 45 Blade 1/4" x 5" Out of Handle
- 1 — ZP 14 Blade No. 1 Phillips x 4"
- 1 — ZP 24 Blade No. 2 Phillips x 4"
- 1 — ZR 77 Seven Section Leatherette Tool Roll

Also Available — 6" Extension No. ZX 56
Specifications: Amberyl S/B (Slo-Burn) Fire Safe Handle — Oil Tempered Chrome Vanadium Blades — Bright Calcium Rust-Proof Plated Finish.
Weight packed . . . 8 oz.

VACO DUPLEX REVERSIBLE SCREW DRIVERS with Amberyl S/B (Slo-Burn) Plastic Handle



A Phillips bit on one end and a regular bit on other end

TWO SIZES
DU2 Light Duty — Specifications: Handle Diameter 1" x 3 5/8", Blade Diameter No. 1 Phillips 3/16" x 2 3/4", Regular 3/16" x 2 3/4"
DUH 4 Heavy Duty — Specifications: Handle Diameter 1" x 3 5/8", Blade Diameter No. 2 Phillips 1/4" x 2 3/4"

A Flip of the Wrist Does It . . . From Phillips to Regular.

Precision engineered blade may easily be inserted or removed and reversed to provide either a regular or Phillips bit. Ideal for automobiles, radios, refrigerators, household utilities, toys, etc., where straight slot screws and cross slot screws are frequently used in combination.

ALPHA tri-core solders

An American Solder for American Production Methods

INSURE PERFORMANCE—SPECIFY ALPHA TRI-CORE



TRI-CORE ROSIN-FILLED SOLDER

Craftsmen prefer this faster, easier sequence solder. It provides more uniform fluxing and stronger joints for Radio, Electrical, and Automotive work. Saves time, money and labor for manufacturing or repair service.

WHY TRI-CORE ROSIN-FILLED IS THE IMPROVED SOLDER:

- three independently filled cores assure flux continuity, eliminate risk of empty flux sections.
- thinner solder walls speed melting, cut soldering time by 25% or more.
- no activating chloride agent to produce acid conditions and toxic vapors.
- forms a clean, smooth, strong joint without carbonizing.
- three cores instead of one at no premium in price.
- all gauges from 1/4" and heavier down to 0.020" and finer.



TRI-CORE "LEAKPRUF" ACID-FILLED SOLDER

Why put up with old-fashioned, leaky acid-cored solders? Mechanics acclaim Tri-Core's cleaner job, long shelf life, and guaranteed leakproof feature. Now you can protect yourself as well as your reputation for better craftsmanship with this development in the field of acid-cored solders!

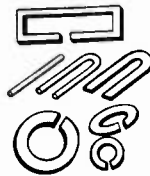
WIDELY PREFERRED FOR BETTER SOLDERING:

- The only three cored acid-filled solder.
- No solder waste due to fluxless areas.
- Highly soluble flux washes off with water.
- Non-toxic, and emits no offensive odors.
- Virtually non-sputtering, reduces hazards.
- Readily solders stainless steel, monel, nickel, etc.
- Leakproof; drip-proof; chalk-like flux will not leak to damage tools.
- The only acid core solder that can be formed into rings and other shapes, or cut to lengths without flux loss.



ALPHA SOLID SOLDER WIRE

Alpha's specialized know-how in lead and tin metallurgy and completely modern production facilities assures you of the finest solder wire available. Alpha's unique extrusion process assures a completely homogenized and uniform solder wire throughout. Supplied in any diameter and composition for your needs.



ALPHA PREFORMS

Alpha's preformed solders, in any shape or diameter required, cut many hours from your production time. Whether you use induction heating, flame jigs or heating ovens, we can swiftly supply your requirements in washers, rings, cut shapes, drops, pellets, solder foil, or other special shapes.



HANDY CAN PACKAGING

Alpha tri-core, rosin-filled, handy-cans: retail list 25c, packed in eye-appealing, sales-compelling, self-selling, safety flange tins. 12 cans per metal-edged display carton. 12 cartons per shipping container. Weight: 1 gross—25 pounds.

Alpha tri-core, "Leak-Pruf" acid-filled handy-cans: retail list 25c, packed in multiple color lithographed safety flange tins. 12 cans per metal-edged display carton. 12 cartons per shipping container. Weight: 1 gross—25 pounds.

STANDARD PACKING

1 LB. SPOOLS packed in individual cartons; 50 cartons per shipping container. 20 LB. SPOOLS packed 2 or 3 spools per shipping container.

SPECIAL ALLOYS

STANDARD ALPHA TRI-CORE SOLDERS ARE 40/60. Also available in 25/75—35/65—45/55—50/50—60/40.

ALPHA SOLID SOLDER wire in all alloy ratios.

Available in all diameters from 1/4" and heavier, down to 0.020" and finer.

ALPHA METALS, INC.



RADIO CHASSIS PUNCHES KNOCKOUT PUNCHES AND CUTTERS

Greenlee Tool Co., Rockford, Illinois



No. 730

Nos. 730 and 731 RADIO CHASSIS PUNCHES

No. 730 Round Punch *shown at left*, quickly cuts accurate, round holes in radio chassis for sockets, plugs, and other receptacles. No reaming or filing—hole is smooth, perfect. Operates simply with an ordinary wrench for drive power. Just insert in a $\frac{3}{8}$ " or $\frac{1}{2}$ " drilled hole and turn drive nut. 13 sizes from $\frac{1}{2}$ " to $2\frac{1}{4}$ " as shown in table at right. Individually packed. Odd-size holes for meters can be made with other punches and cutters shown below.



No. 731

No. 731 Square Punch (*left*) easily makes full or partial cuts so that any square or oblong shaped hole can be rapidly made. Available in three sizes for making $\frac{3}{8}$ ", $\frac{3}{4}$ ", and 1" square holes. Simple to operate, turn with an ordinary wrench. Drive screw fits into $\frac{1}{2}$ " hole in the metal. Individually packed.



No. 735 KNOCKOUT PUNCH SET

For fast, easy cutting of holes in metal up to $\frac{1}{8}$ -inch or 10-gauge thickness. Insert in small opening and drive with an ordinary wrench. Speeds radio set work, cuts cleanly, no reaming and filing. Set includes four punches for making $\frac{7}{8}$ ", $1\frac{3}{32}$ ", $1\frac{1}{2}$ ", $1\frac{1}{16}$ " inch holes. Packed in leather case.

No. 737 KNOCKOUT PUNCH SET

Similar to the No. 735 set, but consists of two punches . . . for cutting holes $1\frac{1}{16}$ " and $2\frac{3}{8}$ " inch diameter. Packed in leather case.



Nos. 738 and 739 KNOCKOUT PUNCHES

For cutting holes $2\frac{7}{8}$ " diameter (No. 738) and $3\frac{1}{2}$ " diameter (No. 739) in metal up to $\frac{1}{8}$ " or 10 gauge thickness. Similar in design and operation to that of smaller GREENLEE Knockout Punches. Packed and sold individually.



No. 740 KNOCKOUT CUTTER

Excellent tool for making meter openings and other large holes needed in radio work. Quickly cuts holes $1\frac{1}{8}$ ", $2\frac{3}{8}$ ", $2\frac{7}{8}$ ", $3\frac{1}{2}$ "-diameter. Operation is simple . . . driven with ordinary wrench. Special discs can be furnished for cutting odd-size

holes from $1\frac{1}{8}$ " to $3\frac{1}{2}$ "-inch diameter. Packed in leather case.

	Price	Wt. (lbs.)
No. 740 Knockout Cutter	\$15.00	4 $\frac{1}{2}$

No. 730 List Price and Weight in Pounds Each

	Price	Weight
$\frac{1}{2}$ " Complete	\$2.15	$\frac{1}{4}$
AV1760 Punch	1.25	$\frac{1}{8}$
AV1759 Die	.65	$\frac{1}{8}$
$\frac{3}{8}$ " Complete	2.15	$\frac{1}{4}$
AV1742 Punch	1.25	$\frac{1}{8}$
AV1743 Die	.65	$\frac{1}{8}$
AV1675 for $\frac{1}{2}$ " & $\frac{3}{8}$ " Punches	.25	$\frac{1}{8}$
$\frac{3}{4}$ " Complete	2.15	$\frac{1}{4}$
AV113 Punch	1.25	$\frac{1}{8}$
AV114 Die	.65	$\frac{1}{8}$
$\frac{7}{8}$ " Complete	2.15	$\frac{3}{8}$
AV121 Punch	1.25	$\frac{1}{8}$
AV122 Die	.65	$\frac{1}{8}$
AV322 Screw for $\frac{3}{4}$ " & $\frac{7}{8}$ " Punches	.25	$\frac{1}{8}$
1" Complete	2.35	$\frac{3}{8}$
AV87 Punch	1.35	$\frac{1}{8}$
AV88 Die	.75	$\frac{1}{4}$
$1\frac{1}{8}$ " Complete	2.50	$\frac{3}{8}$
AV1763 Punch	1.45	$\frac{1}{4}$
AV1764 Die	.80	$\frac{1}{4}$
$1\frac{1}{8}$ " Complete	2.50	$\frac{3}{8}$
AV91 Punch	1.45	$\frac{1}{4}$
AV92 Die	.80	$\frac{1}{4}$
$1\frac{3}{32}$ " Complete	2.50	$\frac{3}{8}$
AV83 Punch	1.45	$\frac{1}{4}$
AV84 Die	.80	$\frac{1}{4}$
$1\frac{3}{8}$ " Complete	2.50	$\frac{3}{8}$
AV115 Punch	1.45	$\frac{1}{4}$
AV116 Die	.80	$\frac{1}{4}$
$1\frac{1}{4}$ " Complete	2.50	$\frac{3}{4}$
AV117 Punch	1.45	$\frac{1}{4}$
AV118 Die	.80	$\frac{3}{8}$
$1\frac{3}{8}$ " Complete	2.85	$\frac{3}{8}$
AV119 Punch	1.65	$\frac{3}{8}$
AV120 Die	.95	$\frac{3}{8}$
$1\frac{1}{2}$ " Complete	3.20	1
AV89 Punch	1.90	$\frac{3}{8}$
AV90 Die	1.05	$\frac{1}{2}$
AV112 Screw for 1" to $1\frac{1}{2}$ " inclusive	.25	$\frac{1}{8}$
$2\frac{1}{4}$ " Complete	6.20	$2\frac{1}{4}$
AV437 Punch	3.20	$\frac{7}{8}$
AV438 Die	2.50	1
AV304 Screw for $2\frac{1}{4}$ " Punch	.50	$\frac{1}{2}$

No. 731 List Price and Weight in Pounds Each

$\frac{3}{8}$ " No. 731 Square Radio Chassis Punch	\$3.35 complete	
AV-2891 $\frac{3}{8}$ " Square Punch	1.40	\$1.40
AV-2881 $\frac{3}{8}$ " Square Die	1.15	
AV-2886 Drive Screw	.60	
AV-2929 Drive Nut	.20	
$\frac{3}{4}$ " No. 731 Square Radio Chassis Punch	\$3.90 complete	
AV-2882 $\frac{3}{4}$ " Square Punch	1.65	\$1.65
AV-2883 $\frac{3}{4}$ " Square Die	1.35	
AV-2914 Drive Screw	.70	
AV-2929 Drive Nut	.20	
1" No. 731 Square Radio Chassis Punch	\$4.50 complete	
AV-2884 1" Square Punch	1.80	\$1.80
AV-2885 1" Square Die	1.50	
AV-2887 Drive Screw	1.00	
AV-2929 Drive Nut	.20	

Nos. 735, 737, 738, 739 List Price and Weight in Pounds Each

	Price	Weight
No. 735 Knockout Punch Set	\$10.00	2 $\frac{3}{4}$
No. 737 Knockout Punch Set	10.00	4 $\frac{1}{4}$
No. 738 Knockout Punch	14.00	5 $\frac{3}{4}$
No. 739 Knockout Punch	19.00	7 $\frac{1}{4}$

Extra Parts

No. 735 Knockout Punch Set	
No. AV121— $\frac{7}{8}$ " Punch	1.25
No. AV122— $\frac{7}{8}$ " Die	.65
No. AV123—1" Punch	1.45
No. AV124—1" Die	.80
No. AV125—1 $\frac{1}{8}$ " Punch	1.65
No. AV126—1 $\frac{1}{8}$ " Die	.95
No. AV127—1 $\frac{1}{4}$ " Punch	1.90
No. AV128—1 $\frac{1}{4}$ " Die	1.05
No. AV322— $\frac{3}{8}$ " x $1\frac{1}{2}$ " Cap Screw	.25
No. AV249— $\frac{3}{4}$ " x $2\frac{3}{8}$ " Cap Screw	.35
No. 737 Knockout Punch Set	
No. AV439—1 $\frac{1}{8}$ " Punch	2.30
No. AV440—1 $\frac{1}{8}$ " Die	2.00
No. AV441— $2\frac{3}{8}$ " Punch	3.20
No. AV442— $2\frac{3}{8}$ " Die	2.50
No. AV304— $\frac{3}{4}$ " x $2\frac{3}{4}$ " Cap Screw	.50
No. 738 Knockout Punch	
No. AV1429— $2\frac{7}{8}$ " Punch	5.40
No. AV1430— $2\frac{7}{8}$ " Die	5.00
No. AV1433—Drive Nut	1.35
No. AV1434—Drive Screw	2.75
No. 739 Knockout Punch	
No. AV1431— $3\frac{1}{2}$ " Punch	8.00
No. AV1432— $3\frac{1}{2}$ " Die	7.50
No. AV1433—Drive Nut	1.35
No. AV1434—Drive Screw	2.75




Harry Davies Molding Co.

Molders of Plastics

1428 NORTH WELLS STREET • CHICAGO 10, ILL.

STANDARD COLORS FOR DAVIES KNOBS: Black, Walnut, Red or Ivory. Others to order. Quality radio knobs for standard 1/4" shaft. Set screw, spring, or knurled hole mounting, or 1/4" brass bushing.

ELECTRONIC INSTRUMENT KNOBS

	Type No.	Width	Height		Type No.	Width	Height		Type No.	Width	Skirt diameter
	4100	1 1/8"	5/8"		4100-P	1 1/8"	7/8"		4104	1 1/8"	1 1/2"
	4101	1 3/8"	1 1/16"		4101-P	1 3/8"	1 1/16"		4106	1 3/8"	1 1/2"
	4102	1 5/8"	3/4"		4102-P	1 5/8"	1 1/16"		4108	1 5/8"	3"
	4103	2 3/8"	7/8"		4103-P	2 3/8"	1 9/16"		4109	2 3/8"	2 1/16"



No. 1400. (With pointer).
Height 1 3/32". Diameter 1 1/16".
No. 1450. (No pointer).
Height 1 3/32". Diameter 1 1/16".
Set screw, spring, or knurled hole mounting.



No. 1700.
Height 1 9/32". Diameter 3/4".
Set screw, spring, or knurled hole mounting.



No. 2500.
Height 3/4". Diameter 3/4".

No. 2600.

Height 7/8". Diameter 7/8".
Set screw, spring, or knurled hole mounting.



No. 2965.
Short Shank. Dia. 7/8"; Hgt. from 1/2" to 1 1/2".
Medium Shank. Dia. 7/8"; Hgt. from 9/16" to 1 1/2".
Long Shank. Dia. 7/8"; Hgt. from 9/16" to 1 1/2".

This type knob can be supplied with arrow; Off-On; Tuning; Volume; Tone; Batt-Elec.; Band Switch; Radio-Phono, or Dot markings.
Set screw, spring, or knurled hole mounting.



No. 3008.
Dia. 1 1/4"; Hgt. 3/4".

No. 3009.

Dia. 1 1/2"; Hgt. 3/4".

No. 3000

Long Shank Dia. 1 3/4";
Hgt. 3/4", 1", 1 1/4" and 1 1/2".

Short Shank. Dia. 1 3/4". Hgt. 3/4", 1", 1 1/4" and 1 1/2".

1/4" molded hole or brass insert. Plain or threaded hole. Set screw or knurled hole mounting.



	Length overall	Hgt.	Dia.
No. 2110	1 5/8"	1 9/32"	3/4"
No. 2100	2 1/2"	5/8"	3/4"

Molded hole or brass insert, set screw mounting.

No. 2110-P 1 5/16" 1 9/32" 3/4"
No. 2100-P 2 13/16" 5/8" 3/4"
Metal insert and pointer, set screw mounting.

No. 2300—Zephyr bar knob.
Length 1 1/4".

No. 2350—Zephyr bar knob.
Length 2".

Molded hole, set screw mounting.

No. 2300-A—Zephyr bar knob.
Length 1 1/4".

No. 2350-A—Zephyr bar knob.
Length 2".

1/4" brass insert and set screw.

No. 1800 Series

These can be furnished in either plain or recessed tops. Dia. 7/16"; Heights range from 1" to 1 3/8". Also supplied with studs of various lengths.



No. 5149 — Rectangular touch tuning knob. Push on, self-locating.

No. 5149-A—Oval touch tuning knob. Push on, self-locating.
Hgt. 13/16" - 1 1/32".



No. 1750—Touch Tuning. Push on, self-locating.



No. 1760—Touch Tuning, Recessed top, push on, self-locating. Dia. 31/64". Hgt. 9/16", 1 1/16", 13/16", 15/16".

No. 1770—Binding Post and Switch knob. No. 6-32 and No. 8-32 brass inserts. Dia. 31/64". Hgt. 1/2", 5/8", 3/4", 7/8".



No. 2710
Height 1/2". Dia. 3/4".
Metal-faced insert or plain insert.
Female thread available 8-32, 10-32 and 10-24.



No. 2150
Streamlined bar knob.
Length 1 1/4".



No. 1780
Push button knob.
Dia. 1/2", Hgt. 1", 1 1/8", 1 7/32", 1 3/8".

No. 1790

Recessed top. Dimensions same as No. 1780.

FACTORY & GENERAL OFFICES — 1428 NO. WELLS ST., CHICAGO 10, ILL.

Branch Offices: Baltimore, Cincinnati, Grand Rapids, New York, Los Angeles and Milwaukee
Foreign Office: Toronto, Canada

ERSIN MULTICORE SOLDER



SEVEN POUND REELS



ONE POUND CARTONS



Our claim is a simple one: We believe that ERSIN MULTICORE is the finest cored solder in the World!

Ersin Multicore is solder in the form of wire containing three cores of non-corrosive Ersin Resin Flux. No extra flux is required. The use of Ersin Multicore guarantees that the correct proportion of flux to solder is used and maximum fluxing action occurs at the correct melting point of the solder. Only by using solder

wire with three cores of flux is it possible to be sure the flux is always present—that there will not be lengths of wire without flux which result in “dry” or high-resistance joints.

In addition to this advantage, Ersin Multicore is the *only* cored solder in the world containing ERSIN, an extra-active non-corrosive flux. It is high grade rosin homogeneously activated by a process which confers on the rosin the vigorous fluxing action characteristic of the more active fluxes.

You enjoy speedy and a consistently high precision standard of soldering and attain just that extra rapidity which guarantees economy of operation. Ersin Flux not only removes surface oxides prior to soldering, but prevents formation during the soldering period. You can satisfactorily solder components which are highly oxi-

dized—ones on which it would be necessary to undertake additional mechanical or chemical cleansing processes when using any other type of flux.

In Ersin Flux, the protective qualities of the original rosin are preserved. Joints made with Ersin Multicore Solder will not corrode even after prolonged exposure to any degree of humidity. The flux residue is impervious to moisture. It is hard and not sticky. It avoids accumulation of dirt and impurities on the joint.

Every reel or carton of Ersin Multicore is clearly marked both as to Gauge and Alloy, showing the actual content of Tin and Lead. You know exactly what you are getting when you buy Ersin Multicore Solder! Multicore costs a fraction more initially, but is unquestionably most economical in the long run.

Ersin Multicore Solder is available in all Tin/Lead alloys and in standard wire gauge from 10 to 22. (14, 16 and 18 s.w.g. are most popular.)

Ersin Multicore is the only solder which offers you these two fundamental advantages: (1) Multicore construction, providing three cores which assure perfect joints; (2) Ersin Flux, our *exclusive* fast non-corrosive flux.

Ersin Multicore is the answer for those who seek the finest Cored Solder in the World!



The Original Three Cored Solder

ROGAN **KNOBS** FROM STOCK MOLDS

For All Types of Instruments and Apparatus . . . Low Cost . . . Immediate Delivery

ROGAN BROTHERS • Compression Molders and Branders of Plastics • 2506 W. Irving Pk. Rd., Chicago 18



TYPE RB-901



TYPE RB-501



TYPE RB-111



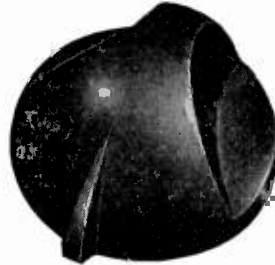
TYPE RB-121



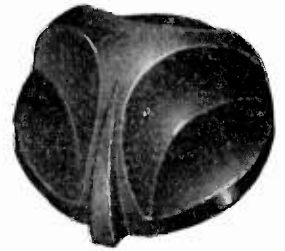
TYPE RB-31



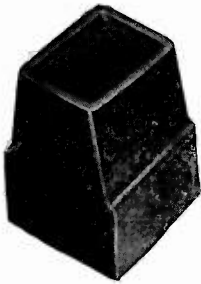
TYPE RB-301



TYPE RB-11



TYPE RB-21



TYPE RB-821



TYPE RB-51



TYPE RB-41



RB-11 with RB-1000

WIDE SELECTION OF SHAPES AND SIZES

Shown above, are but a few of the many Rogan plastic knobs available to you from our regular stock molds. These are supplied without tool charge, resulting in considerable savings in cost, faster delivery. Choice of a wide selection of sizes, shapes and colors. Molded of phenolic or urea thermosetting materials, which will not soften, warp, or scratch easily. Heat resisting materials can be used so knobs can withstand 350-400° F. continuous heat. Most knobs supplied with 1/4" shaft hole and set screws. Special shaft hole sizes and means of fastening can be supplied to specifications at nominal cost.

KNOBS CAN BE BRANDED, AS REQUIRED

Rogan's famous "deep relief" branding process, applied after molding, provides sharp perfect marking at low cost. Any type marking, graduations or numerals can be branded on blank knobs to fit your requirements. Rogan knobs are available in black, brown or walnut, when molded of phenolic materials; and in all light pastel colors when molded of urea materials. Whatever your knob requirements may be, Rogan is equipped to supply you faster, better, more economically. The complete line of Rogan knobs with specifications is shown in the new Rogan catalog. Write for your copy now.



WALSCO STAPLE DRIVER

"NEW IMPROVED GUARANTEED MODEL"

Patent No. 2,285,384

Pays for itself on the first job!

- A sensational tool for installing wires and cables, that saves time and money.
- Used by Radio, Public Address and Intercom Technicians.
- Staples into corners and other inaccessible places.
- Staples on hard surfaces such as plaster, hardwood, etc.
- Can be loaded in 10 seconds.

This tool automatically positions the staple — then one or two strokes with the palm of the hand and the staple is driven home neatly, quickly, and accurately. A small trigger regulates the feeding mechanism to enable the operator to strike the handle on hard surfaces as often as necessary before a second staple leaves the magazine. Staples come in strips, are large enough for cables and wires up to 1/4" diameter. An adjustable regulator controls the depth to which the staple is driven into surface, thus preventing damage to the insulation of the wire.

Cat. No.	List Price	Dealer's Net
500—Staple Driver Complete, including box of staples	\$8.25	\$4.95
507—Rubber Cap for Head of Staple Driver	0.37	0.22
530—Box of 250 Carbon Steel Staples	0.60	0.36
552—Box of 1000 Carbon Steel Staples	2.25	1.35

Staples put up in handy strips; available in plain, brown or ivory finish.

WALSCO TUBE PULLERS



The first practical tube pullers ever devised for the electronic trade. Lift out tubes by wedging action between base and socket, without applying strain to the glass. Tubes are securely held while extracting or inserting. Made of tempered steel throughout. Attractively and durably finished.

Cat. No.	List Price
565—Standard Puller, for all metal, GT, Locktal and most regular glass tubes. Also for extracting vibrators and for pulling knobs	\$1.95
566—Right-Angle Puller, for metal, GT, Locktal and most regular glass tubes. Designed for extracting and inserting tubes without removing chassis from cabinet	2.40
567—Standard Puller, for all Miniature Tubes. Pulls out straight and thereby prevents tube breakage or bending of pins	1.95
568—Right-Angle Puller, for Miniature Tubes	2.40

GRILLE CLOTH

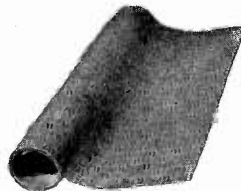


Highest quality, acoustically perfect cloth available to match wainut, mahogany or light wood finishes.

Cat. No.	Size	List Price
360	12" x 12"	\$0.60
361	18" x 24"	1.50
362	1 yard x 52" (packaged)	6.25
362-1	1 yard x 40" (packaged)	4.95
362 BU	52" wide material in bulk, minimum order: 5 yards, per yd.	5.75

GRILLE SCREENING

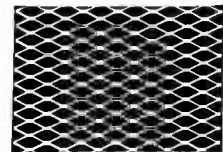
(Flocked)



Galvanized, rayon-flock covered screening. Attractive, weatherproof and modern. For auto radios, P.A. and Intercom. speakers, etc.

Cat. No.	Size	List Price
374-1	8" x 11"	\$0.85
376-1	18" x 24"	2.90
378-1	36" x 36"	9.00

ORNAMENTAL METAL GRILLE



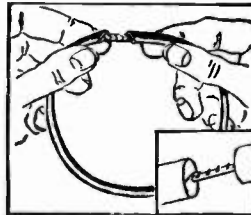
Heavy perforated grille, beautifully "brushed brass" plated and lacquered with gold finish effect. For use over cloth or screening in custom-built radios, high quality P.A. speakers, juke boxes, etc.

Cat. No.	Size	List Price
382	12" x 18"	\$2.75
384	18" x 24"	5.00
386	24" x 36"	9.50

PRICES FOR BULK QUANTITIES AND SPECIAL SIZES QUOTED ON REQUEST

WALSCO UNIBELT

A NEW UNIVERSAL DIAL-DRIVE BELT ADJUSTABLE TO FIT ANY DIAL DRIVE



Covered by Patent No. 2,300,706

- Eliminates need for stocking 96 different sizes of belts.
- Unibelt gives the Radio Man the correct size belt for every make and model set.
- Easily installed in a few minutes. No need for taking dial mechanism apart.
- Put up on spools in continuous lengths which will make five or more average belt replacements.
- New patented construction incorporates special stainless steel core and pure latex covering.
- Belts cannot stretch, and when properly installed will not slip, fray or break.
- Unconditionally guaranteed.

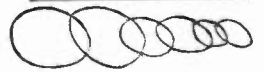
The ingenious construction of the New WALSCO Unibelt makes it possible to assemble any size belt by merely cutting the desired length and joining the ends with a simple "zipper-like" connector. The connected belt cannot stretch and has a breaking strength of over 60 lbs. ONLY ONE SIZE NEEDED for any belt replacement job.

Cat. No.	List Price	Dealer's Net
303—5-ft. spool Unibelt (with 10 connectors and instructions)	\$2.75	\$1.65

WALSCO DIAL DRIVE BELTS

- Precision Made.
- No Stretch — No Slip.
- Smooth and Uniform.
- Exceptionally Strong.

Available for any type of radio set. Specially constructed to give long lasting, trouble-free service. Treated for maximum friction and to provide accurate tuning. WALSCO Dial Belts are uniformly thick throughout the entire length and are precision made and guaranteed to fit perfectly.



List Price Each, \$0.25

All Sizes.....

Also put up in Kits of 25, 50, 100 and 150 Belts

WALSCO DIAL CABLES AND CORDS

WALSCO Dial Cables and Cords are manufactured to meet the most rigid standards of the Government, Radio Industry and Engineering Laboratories. The finest raw materials are used and production is controlled to supply a uniform product with an absolute minimum stretch factor. All standard Cords are made with NYLON braid, known to have the highest abrasion resistance. These selected materials, plus special chemical treatment after fabrication, make WALSCO Cords the finest on the market. WALSCO Dial Cords are used by leading manufacturers as a standard component.



25-ft. and 100-ft. spools are packaged in clear plastic, re-usable storage boxes with sliding lids.

HEAVY CORD—Diameter .062"—Same as used on many Philco and Majestic sets. Very durable, and treated to prevent slipping.

No. 33 25 ft. List Price \$1.75
No. 33-1C 100 ft. List Price 4.60

BRONZE CABLE—16-Strand Braided—Diameter .039"—Breaking Strength 50 lbs.—A braided cable with good flexibility and abrasion resistance. "Fiber-glass" is used as core material and the braid is constructed of special hard Cadmium bronze. Does not unravel.

No. 31 25 ft. List Price \$1.20
No. 31-1C 100 ft. List Price 3.45
No. 31-5C 500 ft. List Price 14.00

PHOSPHOR BRONZE CABLE—42-Strand—Diameter .032"—Breaking Strength 60 lbs.—A very flexible metal cable constructed of 42 strands of hard Phosphor bronze over a "Fiber-glass" core. Extremely durable. Used for replacement of dial cables and many special applications where a strong, stranded cable is required.

No. 30 25 ft. List Price \$1.50
No. 30-1C 100 ft. List Price 5.00
No. 30-5C 500 ft. List Price 20.00

SPECIAL THIN BRONZE CABLE—Diameter .022"—An extra-thin cable for dial drives, flexible connections, pigtailed, and many other applications—wherever a thin, but strong cable is required.

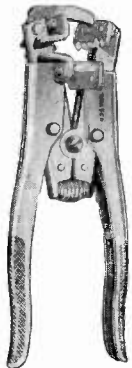
No. 32 25 ft. List Price \$1.20
No. 32-1C 100 ft. List Price 3.45
No. 32-5C 500 ft. List Price 14.00

STANDARD PACKAGE—12

The following cords cover over 80% of the replacement demand. With one spool of each kind on hand, the serviceman has the proper size for practically any set manufactured since 1934. Constructed with "Fiber-glass" or linen core and "pre-stretched," these are the most efficient cords available. The braided sleeves are made of Nylon.

Cat. No.	Diam.	Breaking Strength	LIST PRICES	
			25	100 500
"SPECIAL THIN"				
35	.025"	25 lbs.	\$1.25	
35-1C	.025"	25 lbs.		\$4.50
35-5C	.025"	25 lbs.		\$13.00
STANDARD				
39	.032"	30 lbs.	\$1.25	
39-1C	.032"	30 lbs.		\$4.50
39-5C	.032"	30 lbs.		\$13.00
MEDIUM				
34	.042"	35 lbs.	\$1.25	
34-1C	.042"	35 lbs.		\$4.50
34-5C	.042"	35 lbs.		\$16.00

WALSCO ALL-PURPOSE WIRE STRIPPER



All these features in ONE model:
• Strips all wires from 16 to 22-gauge • Strips 300-ohm twin lead • Has built-in wire cutter • Has automatic locking device which prevents crushing of stranded wire • Made entirely of steel and will last a lifetime.

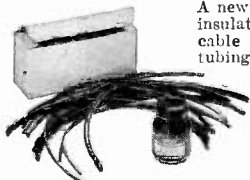
Strips insulation quickly and cleanly. Precision-ground blades will not nick or cut wire strands. Especially made for wire types and sizes used in electronic work, but equally applicable for automotive, aviation, and telephone trade.

Blades are hardened and precision-ground, and will last for thousands of stripping and cutting operations. Can readily be replaced when dulled.

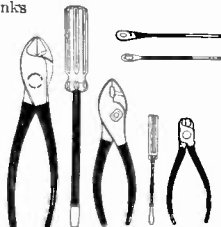
Operation is extremely easy, requires no particular skill or experience. From 700 to 1000 wires can be stripped per hour. Equally adaptable for the production line or for use "on the job."

Cat. No.	Description	Price	Net
590	—WALSCO All-Purpose Wire Stripper	\$10.95	\$6.57
590-1	—Replacement Blade Set for No. 590	2.00	1.20
591	—Special "Wide-Range" Model for Electrical Trade. Strips all wire gauges from No. 10 to No. 22	10.95	6.57
591-1	—Replacement Blade Set for No. 591	2.00	1.20

WALSCO PROTECTO-TUBE



A new synthetic tubing especially designed for insulating handles of pliers, screwdriver blades, cable connector ends, test prods, etc. This tubing is highly abrasion-resistant for long wear, and will not crack or shatter. Special Expanding Solution is furnished as part of the kit and "swells" tubing to permit easy application. Upon drying, tubing shrinks on tight.



Protecto-Tube Kit, containing approx. 12 ft. assorted sizes and colors of WALSCO Protecto-Tube, jar of Expanding Solution, and instructions.

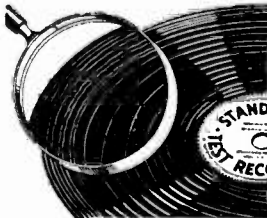
Cat. No. K-18.....List Price \$1.65

POPULAR DIAL CORD IN SMALL PACKAGES

Cat. No.	List Price
3070—Approximately 10 ft. Special Thin Cord (Type 35)	\$0.40
3080—Approximately 8 ft. Medium Cord (Type 34)	0.40
3090—Approximately 8 ft. Standard Cord (Type 39)	0.40

(Standard Package . . . 20; available on display card or box)

WALSCO STANDARD TEST RECORDS FOR TESTING AND ADJUSTING RECORD PLAYERS, CHANGERS, PICK-UPS, AND AMPLIFIERS



These records are designed to provide the electronic engineer and serviceman with a quick, inexpensive, and accurate means of checking the mechanical performance of record changers. They will also indicate any defects in pick-up, amplifier, or speaker, and may be used for accurate measurements of performance of these components. All records are made of long-wearing, plastic material, and are unbreakable in normal use.

Cat. No. 720-6—Set of six 10" records consisting of one each of the following: Record No. 720, 721, 725, 726, 727, 728.

With this set, all mechanical and electrical performance characteristics of a phonograph system can be quickly and accurately checked. No laboratory or well-equipped service shop should be without this set. List Price \$9.90

Cat. No. 720—10" record with accelerated pitch. Playing time approximately 45 sec. Lead-in grooves modulated with 3 tones to indicate set-down position of pick-up. Proper tripping action indicated by tone signals at end of record. Both sides of record identical. List Price \$1.65

Cat. No. 721—10" record. One side with accelerated pitch and without starting spiral for checking "feed-in" of pick-up. Other side same as No. 720. List Price \$1.65

Cat. No. 725—10" record. One side: Sweep Frequency Record at N.A.B. standard level. Range 10,000 to 50 c.p.s. Cross-over to constant amplitude at 500 c.p.s. Other side same as No. 720. List Price \$1.90

Cat. No. 726—10" record. One side: Test Frequency Record at N.A.B. standard level. Range 10,000 to 50 c.p.s. in 16 steps. Other side same as No. 720. List Price \$1.90

Cat. No. 727—10" record. One side contains 1000 and 400-cycle tone for 1 min. each. Especially designed for testing irregular turntable speed ("WOW"). Other side same as No. 720. List Price \$1.90

Cat. No. 728—10" record. One side contains silent (unmodulated) groove for checking turn-table rumble. Other side same as No. 720. List Price \$1.65

Cat. No. 730-4—Set of four 12" records of same design as No. 720. Designed for use in connection with set No. 720-6 in checking performance of intermix changers. List Price \$9.90



WALSCO ELECTRONIC HARDWARE

The 99 Line

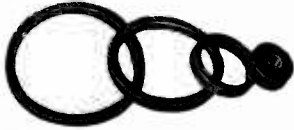
The 40 Line

IN PERMANENT TRANSPARENT PLASTIC PACKED IN HANDY STORAGE BOXES WITH SLIDING TOPS ECONOMICAL PLASTIC BAGS



WALSCO PHONO-MOTOR DRIVES

Precision made to assure constant uniform speed and made of abrasion-resistant synthetic rubber to assure long wear. For attaching, use WALSCO Rubber Cement.



Cat. No.	I.D.	O.D.	Thick	No. of Drives per pkg.	Used on	List Price per pkg.
†2560-16	2"	2 3/8"	3/8"	2	Gen. Indust. Mod. LX & RX	\$0.40
†2560-17	1 1/2"	1 3/4"	1/8"	2	Alliance, Seeburg, G.E. V. M. 400	0.40
†2560-18	7/8"	1 1/8"	1/8"	3	Seeburg, R.C.A., G.E.	0.40
†2560-19	1 1/8"	1 3/8"	3/8"	4	Philco, R.C.A., etc.	0.40
†2560-20	5 3/8"	6"	3/8"	1	Detroit	0.40
*2560-22	1 7/8"	1 3/4"	3/8"	3	G.I. Recorder/Changer	0.40
*2560-23A	1 1/8"	1 3/8"	1/4"	2	R.C.A., RP-176, 177 and most pre-war R.C.A. Changers. Also on G.E. 809-J, etc.	0.40
*2560-23B	4 1/2"	5 1/2"	3/8"	1	Same as # 2560-23A	1.00
*2560-24	2 7/8"	3 3/8"	3/8"	1	R.C.A. 960015, 960260, 960276. Also most Admiral and Crescent postwar changers	0.50
†2560-25	Spring-Drive			1	Detroit - Utah	0.40

WALSCO KEY WRENCHES



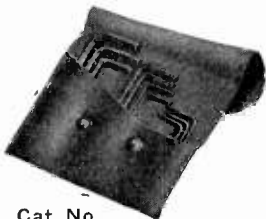
FOR HEX AND SPLINE SOCKET SCREWS

WALSCO features three sets of socket wrenches made of special alloy steel to fit all standard socket screws used in radio and electronic equipment.

Cat. No.	Description	List Price
†3580	Assortment of 4 small HEX wrenches. Fits set screws No. 4 to 1/4" and cap screws No. 2 to 8.	\$0.40
†3581	Assortment of 3 medium HEX wrenches. Fits set screws 1/4" to 1/2" and cap screws No. 3 to 16.	0.40
†3584	Assortment of 4 small SPLINE wrenches. Fits all set screws up to 1/4" and cap screws up to No. 8.	0.40



WALSCO HEX & SPLINE WRENCH KIT



A handy kit containing a complete range of wrench sizes as used in the electronic trade. The case is made of durable leatherette with double snap button closure and contains both hex (Allen) and spline (Bristol) wrench keys for No. 2 to 3/8" screws.

Cat. No.	List Price	Dealer's Net
560—Wrench Kit	\$1.65	\$0.99
	Standard Package — 25	

WALSCO SPEAKER ADJUSTMENT SHIMS



- MADE OF NON-MAGNETIC METAL
- STRONG AND FLEXIBLE, SPRING TEMPER
- CORROSION-RESISTANT

4 Shims of each of 4 sizes supplied in handy plastic case with screw top and pencil clip. As easy to carry as a fountain pen. Marked for easy identification. Sizes supplied—.004", .006", .008" and .010". Indispensable to the serviceman in adjusting voice coils.

Cat. No.	List Price
†2550—16 Assorted Shims—4 of each size	\$0.60

WALSCO PHONOGRAPH PICKUP SET SCREWS

Precision knurled head steel screws, antique bronze finished for all popular pickups and recording heads. The assortment contains several each of the popular numbers and one each of the other sizes.



Cat. No.	Approx. No. Units per pkg.	Used On	Size	List Price per pkg.
†2570	10	Assorted	7 diff. sizes	\$0.40
*2571	10	Shure and others	2-5/8 x 5/8"	0.40
*2572	10	Most Astatic & Webster	2-6/4 x 3/4"	0.40
*2576	6	Most RCA, etc.	1-7/2 x 1"	0.40

WALSCO TURNTABLE RETAINING CLIPS

For holding phono turntable securely to spindle. Indispensable for portable phonographs or to prevent damage when shipping record changer units.



Cat. No.	List Price per pkg.
*3424—4 Clips	\$0.40

WALSCO PHONO PANEL MOUNTING SPRINGS

An assortment of various sizes of conical springs as used in mounting record changer units.



Cat. No.	List Price per pkg.
*3385—8 Assorted Springs	\$0.40

WALSCO PICKUP CARTRIDGE MOUNTING SCREWS

An assortment containing small machine and self-tapping screws of various lengths, sizes and styles as required in fastening cartridge to pickup arm. Especially useful when threads are stripped or replacement of different cartridge requires longer screws.



Cat. No.	List Price
*3365—Apprx. 30 Screws & Spacers	\$0.40

WALSCO DIAL CORD CLIPS

For fastening the end of dial drive cord. The assortment contains the proper sizes for all standard thicknesses of cord.



Cat. No.	List Price per pkg.
*2770—Approximately 35 Clips	\$0.40

WALSCO HARDWARE ASSORTMENT

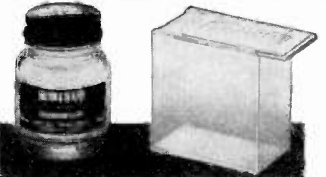
A wonderful assortment of screws, nuts, washers, springs, clamps, eyelets, grommets, terminals, w.c. Only regular hardware included. Just the thing for the experimenter, ham and technician. In plastic jar.



Cat. No.	List Price	Dealer's Net
K3003—"1000 Piece" Hardware Assortment	\$1.65	\$0.99

WALSCO GLASS JARS AND PLASTIC BOXES

Handy for storing small hardware items to keep them clean and rust-free.



Cat. No.	List Price	List Price
998 Plastic Box with Sliding Lid	\$0.25	
(Standard Package . . . 24)		
999 Glass Jar, 2 oz. size (Standard Package: 36)		12

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

*Std. Pack: Display Box of 20 Individual Packages. Add suffix "B" to part number to indicate one standard package. Example: 1-3310-B consists of standard box containing 20 packages = 3330. †Available Either in Standard Display Box of 20 Packages or on Standard Display Card of 20 Packages. When ordering add suffix "B" for box or suffix "D" for display card. See example above.



WALSCO ELECTRONIC HARDWARE

The 99 Line

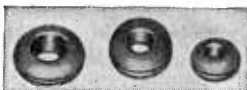
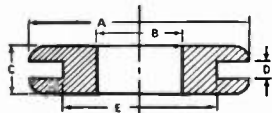
The 40 Line

IN PERMANENT *Transparent* PLASTIC STORAGE BOXES with SLIDING TOPS • PACKED IN HANDY ECONOMICAL PLASTIC BAGS



WALSCO RUBBER GROMMETS

For protecting cables from abrasion when passing through chassis holes. Also used for vibrationless mounting of parts.



Dimensions					THE 40 LINE		THE 99 LINE	
A	B	C	D	E	Cat. No.	Approx. Quan. per pkg.	Cat. No.	Approx. Quan. per pkg.
1/4"	1/8"	1/8"	1/8"	1/4"	*3341	15	3341-99	100
3/8"	1/4"	3/16"	1/8"	3/8"	*3342	12	3342-99	75
1/2"	3/8"	1/4"	1/8"	1/2"	*3343	10	3343-99	65
5/8"	3/4"	1/4"	1/8"	5/8"	*3344	10	3344-99	50
3/4"	1/2"	3/8"	1/8"	3/4"	*3345	8	3345-99	40
Assorted					*3340	12		

WALSCO CHASSIS MOUNTS



Made of resilient synthetic rubber to give chassis or other components a floating effect and to reduce "microphonics." Essential wherever vibration will affect operation.

Dimensions				THE 40 LINE		THE 99 LINE	
A	B	C	D	Cat. No.	Approx. Quan. per pkg.	Cat. No.	Approx. Quan. per pkg.
3/4"	1/2"	1/4"	3/8"	*2742	6	2742-99	30
1"	1/2"	1/4"	1/2"	*2744	4	2744-99	20
Assorted				*2740	10		

WALSCO RUBBER WASHER AND BUMPER ASSORTMENT

An assortment of the various kinds of rubber washers, bumpers, and spacers used in the electronic and radio industry for shockless, vibrationless mounting, for eliminating rattles and microphonics, etc.

Cat. No. *3440—20 Assorted Washers and Bumpers List Price per pkg. \$0.40

WALSCO CORD STRAINRELIEFS

FOR POSJ WIRE



Provides a grommet and strain relief in one piece. For use on appliance cord sets. Use WALSCO Rubber Cement (Cat. No. 112) for attaching to cord. Prevents insulation of wire from being damaged by sharp-edged holes in metal chassis or cabinets.

Cat. No. *3348—4 Strainreliefs List Price per pkg. \$0.40

WALSCO CABINET FEET



Made of oil resistant synthetic rubber. Wood screws are supplied with screw-type feet but machine or selftapping screws may be used. The rubber tack feet have steel tacks securely molded in.

PKGS. OF SCREW-TYPE FEET, INDIVIDUAL SIZES

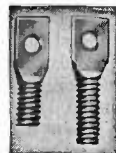
Diam.	Height	THE 40 LINE		THE 99 LINE	
		Cat. No.	Quan.	Cat. No.	Quan.
3/8"	3/8"	*3351	12	3351-99	50
1/2"	3/8"	*3352	8	3352-99	50
3/4"	3/8"	*3353	8	3353-99	30
Assorted		*3350	12		

PKGS. OF RUBBER TACK FEET

1/2"	3355-99	50
3/8"	3356-99	50
Assorted	*3355	12

WALSCO SPADE BOLTS

Indispensable for attaching condensers, coils, cans, and similar items. For Experimenters, Servicemen and Manufacturers of electronic equipment. Stud size 6-32. Hole size for No. 6 screw.



Approx. Length	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan. per pkg.	Cat. No.	Approx. Quan. per pkg.
5/8"			3271-99	125
3/4"			3272-99	100
Assorted	*3270	25		

WALSCO RIVET ASSORTMENT

Various sizes of hollow, solid and split rivets in brass, copper and aluminum as used in everyday repair and experimental work. Sizes range approximately from 1/16" to 3/16" in diam. and up to 3/4" in length.



Cat. No. *2620—Approx. 60 asstd. Rivets List Price per pkg. \$0.40

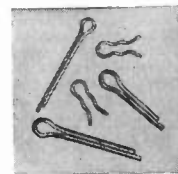
WALSCO EYELET ASSORTMENT

Brass eyelets of various diameters and lengths. A handy item for every repair shop.

Cat. No. *2630—Approx. 55 Eyelets List Price per pkg. \$0.40

WALSCO SMALL COTTER & HAIR PINS

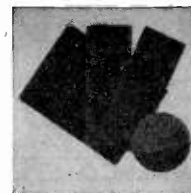
Package contains an assortment of most popular sizes of cotter and hair pins. A valuable aid in the repair of radios and phonograph mechanisms.



Cat. No. *2650—Approx. 50 Assorted Cotter and Hair Pins List Price per pkg. \$0.40

WALSCO SPEAKER CONE PATCHES

A quick and inexpensive means for patching tears and holes in speaker cones. Made of specially flexible material and backed with an adhesive which forms a permanent bond with the cone.



Cat. No. *2553—10 Assorted Patches List Price per pkg. \$0.40

WALSCO SPEAKER DUST FELTS

Special, thin felt disks to keep metal particles and dust out of voice coils. Use Walsco Radio Cement to attach to cone.

Cat. No. *2775—Approx. 25 assorted sizes List Price per pkg. \$0.40

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

*Std. Pack: Display Box of 20 Individual Packages. Add suffix "B" to part number to indicate one standard package. Example: 1-3330-B consists of standard box containing 20 packages #3330.
 †Available Either in Standard Display Box of 20 Packages or on Standard Display Card of 20 Packages.
 When ordering add suffix "B" for box or suffix "D" for display card. See example above.



WALSCO ELECTRONIC HARDWARE

The 99 Line

The 40 Line

IN PERMANENT *Transparent* PLASTIC PACKED IN HANDY STORAGE BOXES with SLIDING TOPS ECONOMICAL PLASTIC BAGS



WALSCO SNAP-HOLE PLUGS

A round, flat head, metal button with spring flanges that snap right into the hole. Used to seal adjustments, cover unused holes, etc.



Description	THE 40 LINE		THE 99 LINE	
	Cat. No.	Quan. per pkg.	Cat. No.	Quan. per pkg.
For 1/4" hole.....	*3501	8	3501-99	50
For 3/8" hole.....	*3502	8	3502-99	50
For 1/2" hole.....	*3503	6	3503-99	40
For 5/8" hole.....	*3504	6	3504-99	30
For 3/4" hole.....	*3505	5	3505-99	25
For 1" hole.....	*3506	4	3506-99	20
Assorted.....	†3500	8		

WALSCO TERMINAL LUGS

Available in the six popular sizes which meet most of the requirements of the radio and electronic field. Accurate forming facilitates easy handling. Made of tinned brass.



Figure No.	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
1.....	*3281	30	3281-99	150
2.....	*3282	25	3282-99	150
3.....	*3283	25	3283-99	150
4.....	*3284	25	3284-99	150
5.....	*3285	25	3285-99	125
6.....	*3286	40	3286-99	150
Assorted.....	†3280	40		
Asst. Solderless Terminals.....	*3288	8		

WALSCO VENTILATING HOLE PLUGS

For amplifiers, transmitters, portable radios, amateur equipment, etc., wherever ventilation is required.



Cat. No.	List Price per pkg.
†3320—Assorted Plugs.....	\$0.40

WALSCO CABLE CLAMPS

Heavy gauge steel, Cadmium plated, 3/8" wide. Perfectly punched and formed with No. 6 or No. 8 mounting holes. Available in 3 sizes for cables from 1/8" to 1/4" in diameter.



For Cables	THE 40 LINE		THE 99 LINE	
	Cat. No.	Quan. Per pkg.	Cat. No.	Quan. per pkg.
1/8" to 1/8" Diam.	*3331	20	3331-99	125
3/16" to 1/4" Diam.	*3332	18	3332-99	100
1/4" to 1/2" Diam.	*3333	15	3333-99	75
Assorted.....	†3330	20		

WALSCO GRID CAP ASSORTMENT

An assortment of Grid Caps for all standard metal and glass tubes. Made of high quality spring brass, or steel and plated.



Cat. No.	List Price per pkg.
†2600—Approximately 15 Assorted Caps.....	\$0.40

WALSCO SPRING CONNECTOR CLIPS (FAHNESTOCK TYPE)

For fast connection and good electrical contact. No tools required for connecting or disconnecting. Made of spring brass or phosphor bronze.



For Wires	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
#16 gauge and smaller.....	*2731	20	2731-99	100
#12 to #18 gauge.....	*2732	12	2732-99	75
Assorted.....	*2730	12		

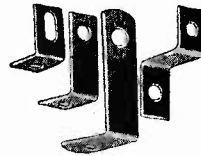
WALSCO FUSE CLIPS

Made of spring brass, nickel plated for single hole mounting.



Cat. No.	List Price per pkg.
*2720—10 Assorted Clips.....	\$0.40

WALSCO ANGLE BRACKET ASSORTMENT



Handy brackets of various lengths and shapes as needed by every repairman, experimenter, "ham", etc. Precision made, of steel, or brass and plated.

Cat. No.	List Price per pkg.
*2610—Approximately 15 Assorted Brackets.....	\$0.40

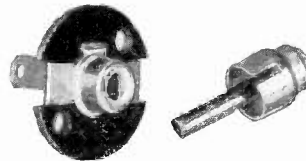
WALSCO TERMINAL STRIPS



For mounting parts which are to be insulated from chassis, and for wire distribution. Made with high-grade phenolic insulation. Solder-coated terminals.

Cat. No.	List Price per pkg.
*2660—Assortment of various size Strips.....	\$0.40

WALSCO PHONO PLUGS AND JACKS



Standard plugs and jacks as used for connecting record players or pick-ups; also used on auto radio antennas. Used for all single conductor, shielded cable connections.

Cat. No.	List Price per pkg.
†2580—Package of 4 Plugs.....	\$0.40
†2585—Package of 2 Jacks.....	0.40

WALSCO PHONE TIPS



Fit all standard tip jacks. Easy to solder. Made of brass, nickel-plated. These are the conventional tips so often needed by both experimenters and service men.

Phone Tips	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
.....	†2725	12	2725-99	60

MINIATURE PLUG AND JACK

TWO-CONDUCTOR PRECISION TYPE

Ideal for hearing aids, speaker extensions, carbon microphones, and numerous other installations. Needs no screws; molded plastic case cements together. Illustration shown approximately one-half size.



Cat. No.	Description	List Price
†790—1 Plug (type PL-291).....		\$0.55
†791—1 Jack (type JK-48).....		0.75

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.



WALSCO ELECTRONIC HARDWARE

The 99 Line

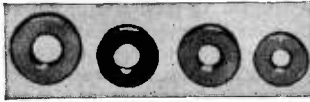
The 40 Line

IN PERMANENT TRANSPARENT PLASTIC STORAGE BOXES with SLIDING TOPS • PACKED IN HANDY ECONOMICAL PLASTIC BAGS



WALSCO METAL WASHERS

Precision steel washers, Cadmium plated, in standard small sizes for innumerable uses.



For Screw Size	Dimensions			THE 40 LINE		THE 99 LINE	
	I.D.	O.D.	Thick.	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
# 4	.125"	1/8"	3/32"	*3511	100		
# 6	.149"	3/16"	3/32"	*3512	100	3512-99	500
# 8	.175"	1/4"	3/32"	*3513	100	3513-99	500
# 10	.203"	7/16"	3/32"	*3514	75	3514-99	300
1/4"	.265"	1/2"	3/32"	*3515	60	3515-99	300
Assorted				†3510	80		

WALSCO LOCK WASHERS

Made of special steel and rust-proofed. Sizes listed below are the most popular ones in the radio and electrical appliance field.



For Screw Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
# 6	*3592	50	3592-99	300
# 8	*3593	45	3593-99	250
# 10	*3594	40	3594-99	250
1/4"			3595-99	200
3/8"			3596-99	120
Assorted	†3590	50		

WALSCO KNOB FELT WASHERS

Keep cabinets from being scratched and make knobs turn smoothly. Made of tough brown felt with 1/4" hole to fit standard control and condenser shafts. O.D. is approx. 3/4" and thickness 3/32".



Felt Washers in cellophane bag	THE 40 LINE		THE 99 LINE	
	Cat. No.	Quan. per pkg.	Cat. No.	Quan. per pkg.
	†3490	45	3490-99	250

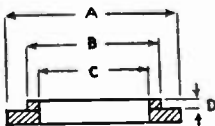
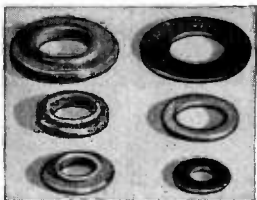
WALSCO MICA WASHERS AND SHIMS

An assortment of flat and round shims and washers. Required by experimenters and for repairing of trimmers, soldering irons, heater elements, etc.

Cat. No.	List Price per pkg.
*3428—Assorted sizes	\$0.40

WALSCO INSULATING WASHERS

Precision made of high-grade vulcanized fibre or phenolic material. Used on electronic and electrical equipment to insulate parts from chassis, etc.



Overall thickness of extruded washers is approximately 3/32" and of the flat washers 1/32".

In the "99 LINE," WALSCO Insulating Washers come in packages of either flat or extruded washers. In the "40 LINE" the packages contain both flat and extruded washers.

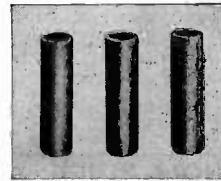
Dimensions	Fits Screw Size	THE 40 LINE		THE 99 LINE	
		Cat. No.	Quan. per pkg.	Cat. No.	Quan. per pkg.
A B C D	# 6	*3431	15 and 15	3431-F-99	250
3/8 1/4 1/8 3/32	# 8	*3432	15 and 15	3432-F-99	250
3/8 .308 .195 3/32	# 10	*3433	15 and 15	3433-F-99	250
3/8 3/8 1/4 3/32	1/4"	*3434	12 and 12	3434-F-99	200
3/8 1/2 3/8 3/32	3/8"	*3435	10 and 10	3535-F-99	200
Assorted		†3430	15 and 15		

WALSCO SPRING (FRICTION) WASHERS



Used in record changers, automatic tuning assemblies, etc. Assortment contains many popular sizes of phosphor bronze and spring steel washers.

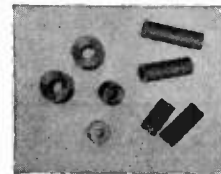
Cat. No.	List Price per pkg.
†3425—Approx. 15 Assorted Spring Washers	\$0.40



WALSCO FUSE INSULATORS

Standard fibre insulators for use on automobile radios. Two lengths included fit all standard 1/4" diameter fuses.

Cat. No.	List Price per pkg.
†2690—Approx. 16 Assorted Insulators	\$0.40

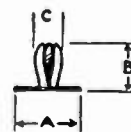


WALSCO METAL AND INSULATING SPACERS

A popular assortment of spacers of various lengths, with hole size to accommodate #6 and #8 screws. Often used for mounting sockets, switches, and for raising panels, chassis, and condensers.

Cat. No.	List Price per pkg.
*2670—Approx. 12 Assorted Insulating Spacers	\$0.40
*2680—Approx. 12 Assorted Metal Spacers	0.40

WALSCO SNAP-IN TRIMOUNTS



Faster than screws. Use them on modern radio sets, back covers, dial scales, chassis, built-in antennae, etc., to speed assembly and repairs.

Dimensions	For Hole	THE 40 LINE		THE 99 LINE	
		Cat. No.	Quan. per pkg.	Cat. No.	Quan. per pkg.
1/8" 1/8" 1/8" 1/8"	1/8"	*3462	20	3462-99	125
3/16" 3/16" 3/16" 3/16"	3/16"	*3464	18	3464-99	100
1/4" 1/4" 1/4" 1/4"	1/4"	*3465	15	3465-99	100
Assorted		†3460	approx. 20		

WALSCO RETAINING RINGS AND "C" WASHERS

A necessity in the servicing of volume controls, record changers, etc. The rings are tempered spring steel. The washers are annealed.



Cat. No.	Description	Approx. No. of units per pkg.	List Price per pkg.
†3420	Assorted Rings & Washers	35	\$0.40
*3422	"C" Washers for 1/4" Shaft	25	0.40
*3423	"C" Washers for 3/8" Shaft	25	0.40

THE 40 LINE	THE 99 LINE	Ea. Pkg. — \$1.65 List		
		Cat. No.	Quan.	
*3431	3431-F-99	250	3431-E-99	100
*3432	3432-F-99	250	3432-E-99	100
*3433	3433-F-99	250	3433-E-99	100
*3434	3434-F-99	200	3434-E-99	75
*3435	3535-F-99	200	3535-E-99	75
†3430				

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

*Std. Pack: Display Box of 20 Individual Packages. Add suffix "B" to part number to indicate one standard package. Example: 1 #3330-B consists of standard box containing 20 packages #3330. †Available Either in Standard Display Box of 20 Packages or on Standard Display Card of 20 Packages. When ordering add suffix "B" for box or suffix "D" for display card. See example above.



WALSCO ELECTRONIC HARDWARE

The 99 Line

The 40 Line

IN PERMANENT TRANSPARENT PLASTIC PACKED IN HANDY STORAGE BOXES with SLIDING TOPS • ECONOMICAL PLASTIC BAGS



WALSCO STEEL MACHINE SCREWS

Round head, cadmium-plated, steel machine screws. Available in assortments or individual sizes, conveniently packaged for experimenters, servicemen and amateurs.



WALSCO Standard Machine Screw Ass'tm't
All the standard sizes used in electronic and similar work are combined in this handy, inexpensive assortment. It contains Nos. 6, 8, 10 screws— $\frac{1}{4}$ to 1" long.

	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
Assorted Screws	†3560	40	3560-99	200

WALSCO Small Machine Screw & Nut Ass'tm't

A special assortment of extra small screws (Nos. 2 and 4), and nuts so often needed in electronic and experimental work for fastening small parts, to replace rivets, etc.

Cat. No.	List Price
†3360—Approximately 30 Assorted Screws and 30 Assorted Nuts, per pkg.	\$0.40

PACKAGES OF SCREWS — INDIVIDUAL SIZES

Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
# 6-32 x $\frac{1}{4}$ "	†3100	40	3100-99	225
# 6-32 x $\frac{3}{8}$ "	†3110	35	3110-99	225
# 6-32 x $\frac{1}{2}$ "	†3120	35	3120-99	200
# 6-32 x $\frac{3}{4}$ "	*3130	30	3130-99	175
# 6-32 x 1"			3132-99	150
# 8-32 x $\frac{1}{4}$ "	*3135	30	3135-99	200
# 8-32 x $\frac{3}{8}$ "	†3140	30	3140-99	175
# 8-32 x $\frac{1}{2}$ "	†3150	30	3150-99	160
# 8-32 x $\frac{3}{4}$ "	†3160	25	3160-99	140
# 8-32 x 1"			3162-99	125
# 10-32 x $\frac{1}{4}$ "	*3165	20	3165-99	150
# 10-32 x $\frac{3}{8}$ "	*3167	20	3167-99	125
# 10-32 x 1"	*3169	15	3169-99	100

WALSCO SMALL ESCUTCHEON AND WOOD SCREW ASSORTMENT



This assortment contains the extra small sizes of hard-to-get wood screws as needed by radio men, model builders, etc., for fastening name plates, escutcheons and numerous other devices.

Cat. No.	List Price
†3550—Approx. 30 Assorted Screws, per pkg.	\$0.40

WALSCO Standard Wood Screw Assortment

Handy assortment for workshop or home. Contains round and flathead screws of popular sizes in brass and steel.



Cat. No.	List Price
†3553—Approx. 30 Screws, per pkg.	\$0.40

WALSCO THREADED STEEL RODS



These rods have many uses in service and repair work and are made from the finest cold rolled steel to give maximum strength. Each package contains one each

Cat. No.	List Price
†2640—1 each 6-32 and 8-32 Threaded Rod	\$0.40

WALSCO SHEET METAL AND SELF-TAPPING SCREWS

These screws cut their own threads in either metal or plastic. Just drill a hole and drive in the screw—no nut or tapping required. Ideal for mounting parts to chassis, replacing rivets and eyelets, etc.



Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
Assorted	†3470	30	3470-99	125
# 6 x $\frac{1}{4}$ "	†2910	30	2910-99	150
# 6 x $\frac{3}{8}$ "	*2911	25	2911-99	150
# 6 x $\frac{1}{2}$ "	*2912	25	2912-99	150
# 6 x $\frac{3}{4}$ "	*2914	20	2914-99	125
# 6 x 1"	*2916	20	2916-99	100
# 8 x $\frac{1}{4}$ "	*2919	25	2919-99	125
# 8 x $\frac{3}{8}$ "	*2920	25	2920-99	125
# 8 x $\frac{1}{2}$ "	*2922	20	2922-99	125
# 8 x $\frac{3}{4}$ "	*2924	15	2924-99	100
# 8 x 1"	*2926	15	2926-99	100
# 10 x $\frac{3}{8}$ "	*2930	20	2930-99	100
# 10 x $\frac{1}{2}$ "	*2932	16	2932-99	100
# 10 x $\frac{3}{4}$ "	*2934	15	2934-99	100

WALSCO RACK SCREWS & CUP WASHERS



For mounting panels in racks and cabinets, fastening record-players and recording chassis, etc. Enhances appearance of any assembly. The oval head screws are nickel plated—so are the cup washers.

Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
# 6-32 x $\frac{5}{8}$ " Screws	*3543	30	3543-99	175
# 8-32 x $\frac{5}{8}$ " Screws	*3541	25	3541-99	125
# 10-32 x $\frac{5}{8}$ " Screws	*3542	20	3542-99	100
# 6 Washers ($\frac{1}{8}$ " O.D.)	*3544	50	3544-99	300
# 8 Washers ($\frac{1}{4}$ " O.D.)	*3545	40	3545-99	250
# 10 Washers ($\frac{3}{8}$ " O.D.)	*3546	25	3546-99	200
Asstd. Screws & Washers	†3540	12		

WALSCO ORNAMENTAL HEAD SCREWS

Antique bronze finished; rosette head. For mounting of speakers, etc.



Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan. per pkg.	Cat. No.	Approx. Quan. per pkg.
# 6-32 x $\frac{3}{4}$ "	*2951	20	2951-99	125
# 6-32 x 1"	*2952	20	2952-99	125
# 8-32 x 1 $\frac{1}{4}$ "	*2953	12	2953-99	80
Assorted	†2950	15		

WALSCO STEEL SET SCREWS

Precision, hardened steel set screws in all popular sizes for radio knobs, record changers, home and automobile radios, or wherever set screws are needed.



Size	THE 40 LINE		THE 99 LINE	
	Cat. No.	Approx. Quan.	Cat. No.	Approx. Quan.
# 6-32 x $\frac{3}{8}$ "	†3210	12		
# 8-32 x $\frac{3}{8}$ "	†3220	12	3220-99	75
# 8-32 x $\frac{1}{2}$ "	†3230	12		
# 10-32 x $\frac{1}{2}$ "	†3237	12		
Assorted	†3480	15	3480-99	75

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

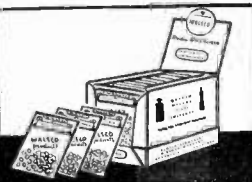


WALSCO ELECTRONIC HARDWARE

The **99** Line

The **40** Line

IN PERMANENT **Transparent PLASTIC** PACKED IN **HANDY** STORAGE BOXES with **SLIDING TOPS** ECONOMICAL **PLASTIC BAGS**



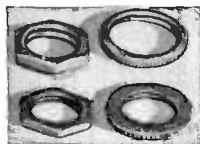
WALSCO MACHINE SCREW NUTS



Walsco nuts are "Small Pattern" as preferred in the electronic and electric trade. Precision made and plated.

Size	THE 40 LINE		THE 99 LINE		Cat. No.	Quan.
	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.		
# 4-40					3175-99	200
# 6-32	*3180	35	3180-B-99	150	3180-99	200
# 8-32	*3190	30	3190-B-99	125	3190-99	200
# 10-32	*3195	25	3195-B-99	100	3195-99	175
Assorted	†3520	35			3520-99	175

WALSCO SPECIAL MOUNTING NUTS



Various kinds of nuts used on volume controls, switches, jacks, potentiometers, etc. A "must" for every radioman and electrician. All nuts are cadmium or nickel plated.

Description	THE 40 LINE		THE 99 LINE	
	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.
3/8" x 32 Vol. Control Hex Nut....	*3531	12	3531-99	100
3/8" x 32 Toggle Switch Hex Nut....	*3532	10	3532-99	50
3/8" x 32 Toggle Switch Ring Nut....	*3533	8	3533-99	50
Assorted	†3530	15		

WALSCO ACORN NUTS
Greatly improves the appearance on panel assemblies, test instruments, cabinets, etc. These PAL type steel nuts are self-locking and bright cadmium plated.
Cat. No. List per pkg.
*2960—12 Assorted Nuts \$0.40



WALSCO KNURLED THUMB NUTS

Precision-made, Brass Nuts. List Price per pkg.
Cat. No. List Price per pkg.
*2971—Approx. 12 Nuts, 6-32 \$0.40
*2972—Approx. 12 Nuts, 8-32 0.40
*2973—Approx. 6 Nuts, 10-32 0.40



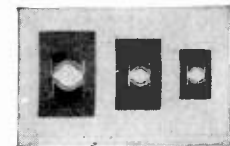
WALSCO WING NUTS

Handy for experimental work and hobby craft. Made of Steel and plated. List Price per pkg.
Cat. No. List Price per pkg.
*2975—10 Nuts, 6-32 \$0.40
*2976—10 Nuts, 8-32 0.40
*2977—8 Nuts, 10-32 0.40



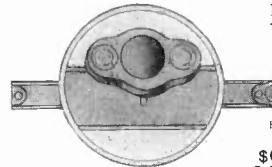
WALSCO SPEED NUTS

Self-locking and easy to install. Often required for replacement on many record changers, tuning units, etc. List Price per pkg.
Cat. No. List Price per pkg.
*2980—Approx. 30 Assorted Speed Nuts..... \$0.40



WALSCO TWIN-LEAD WIRING NAILS

Designed for attaching 300-ohm leads to walls, moldings, etc. Ornamental head greatly improves the appearance of the installation. WALSCO nails have no appreciable effect on the impedance of the line as the heads consist almost entirely of insulating material.
THE 40 LINE THE 99 LINE
\$0.40 List Ea. Pkg. \$1.65 List Ea. Pkg.
Cat. No. Apprx. Quan. Cat. No. Apprx. Quan.
WALSCO Wiring Nails..... 2552 35 2552-99 200



WALSCO DIAL DRIVE SPRINGS

Made of fine music wire for greater flexibility. Available in all standard sizes. Carefully looped at each end, rust-proofed and cadmium plated.

Illustration Approximately two-thirds actual size

Springs	THE 40 LINE		THE 99 LINE	
	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.	\$0.40 List Ea. Pkg.	\$1.65 List Ea. Pkg.
Assorted (Large and Small)	3400	10	3400-99	50
Assorted Small Springs	3410	10		

Cat. No.	Dimensions			No. of springs per pkg.	List Price
	Overall Length	Diam.	Wire Thickness		
*3411	1/2"	3/8"	.016"	1	\$0.40
*3412	5/8"	3/8"	.018"	2	0.40
*3413	1 1/8"	3/8"	.020"	3	0.40
*3414	3/4"	7/8"	.016"	4	0.40
*3415	3/4"	7/8"	.020"	5	0.40

WALSCO RADIO KNOB SPRINGS

The modern method of fastening knobs to shafts. Available in all regular sizes and shapes. The assortment is complete and most useful to radio shops. Finest grade of selected steel is used.

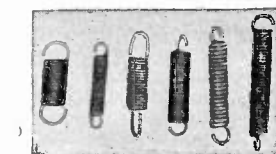


Cat. No.	Picture No. Assorted	Approx. No. of Springs per pkg.	List per pkg.
*3451	10	0.40	
*3452	2	0.40	
*3455	5	0.40	
*3456	6	0.40	
*3457	7	0.40	
*3458	8	0.40	
*3459	9	0.40	

(Bulk Prices Upon Request)

WALSCO EXPANSION SPRINGS

Very handy for radio and electrical shops, laboratories, etc. The assortments contain various sizes of springs for many applications: record changers—to name one of a thousand.



Cat. No.	List per pkg.
†3290—10 Assorted Large Springs.....	\$0.40
†3390—10 Assorted Small Springs.....	0.40

WALSCO COMPRESSION SPRINGS

A hard-to-get item. The Walsco assortments contain all of the springs often needed for repair work on radio and electronic equipment, motors, appliances, etc. Available in two assortments.



Cat. No.	List per pkg.
†3370—20 Assorted Small Springs.....	\$0.40
†3380—15 Assorted Large Springs.....	0.40

WALSCO ESCUTCHEON PIN ASSORTMENT

Brass finished pins in various sizes and lengths from 1/4" to 1".
Cat. No. List per pkg.
†3555—Approx. 100 Asstd. Pins \$0.40



For Bulk Quantity Prices on these items, see **WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.**

*Std. Pack: Display Box of 20 Individual Packages. Add suffix "B" to part number to indicate one standard package. Example: 1 #330-B consists of standard box containing 20 packages #330.
†Available Either in Standard Display Box of 20 Packages or on Standard Display Card of 20 Packages. When ordering add suffix "B" for box or suffix "D" for display card. See example above.

WALSCO RADIO CEMENT

Vibration-Proof **Heat Resisting**
Unsurpassed Adhesive Power

An elastic cement especially made for the manufacture and repairing of speakers and for general radio work. Unaffected by vibration, dries fast and will never become brittle with age. • The latest developments in synthetic resins and gums are incorporated in Walsco Radio Cement.

• In addition to its use for speaker repair, Walsco Radio Cement can be used for repairing cabinets, loose tube bases, grid caps, etc. It will provide a strong bond between almost any materials and is not affected by high temperature, moisture or oil. All bottles come with built-in brush and have an evaporation-proof cap liner.



Cat. No.	List Price
51—1 3/4 oz. tube.....	\$0.55
52—2 oz. bottle.....	0.60
54—4 oz. bottle.....	1.10
58—8 oz. bottle.....	1.75
59—1 pt. bottle.....	3.30
50-GL—1 gal. can.....	12.50

Also available in 5, 15, 50 gal. containers.

WALSCO PLASTIC CEMENT

Especially made to repair broken plastic cabinets, knobs, etc. Waterproof, heat-resisting, and heavier in substance than Walsco Radio Cement. Unexcelled as "Household Cement," "Model Airplane Cement," etc. Cements Plastics, Metal, Wood, Glass, etc. Dries fast and forms an exceedingly strong bond.

Cat. No.	List Price
41—1 3/4 oz. tube.....	\$0.55
42—2 oz. bottle.....	0.60
44—4 oz. bottle.....	1.10
48—8 oz. bottle.....	1.75



WALSCO VINYLITE CEMENT

This adhesive uses the new Vinylite plastic resin as a base and has remarkable properties such as high tackiness, extreme flexibility when dry and excellent adhesion to metals, plastics, leather, cardboard and paper. Fast drying. Also an excellent thermoplastic cement for joining nonporous materials (e.g. metals). In this case the cement is applied to both surfaces and dried after which the parts are pressed together and bond established by heating with flatiron, soldering iron, etc.

Cat. No.	List Price
25—2 oz. bottle.....	\$0.70

WALSCO ALL-PURPOSE RUBBER CEMENT

For cementing rubber parts to metal or wood, rubber mounts to chassis, rubber cushions to lids, etc.—gives an especially strong bond. A Radio Serviceman should always have a bottle on his work bench.

Cat. No.	List Price
112—2 oz. bottle.....	\$0.60
114—4 oz. bottle.....	1.10



WALSCO FABRIC CEMENT

Does Not Penetrate the Fabric

Especially made for attaching grille cloth, turntable felt, covering of portable radios, etc. Dries very fast; is unaffected by moisture, sunlight, and high temperature and does not become brittle. Indispensable to Radio Dealers and Servicemen—eliminates the danger of spoiling the outside of a grille cloth, turntable felt, or other fabrics, since it does not penetrate the material.

Cat. No.	List Price
21—1 3/4 oz. tube.....	\$0.55



WALSCO WOOD GLUE

An "extra strength" adhesive incorporating the latest chemical developments and resins. A "must" item for every repair shop. Bottle caps have non-sticking rubber gaskets.

Cat. No.	List Price
222—2 oz. bottle.....	\$0.60
224—4 oz. bottle.....	1.00



WALSCO CEMENT SOLVENT AND THINNER

This Cement-Solvent is used for loosening cement on speaker cones, voice coils, and other parts where cement has been applied previously. Recommended also for thinning Walsco Radio Cement, Plastic Cement, and Fabric Cement.

Cat. No.	List Price
62—2 oz. bottle.....	\$0.50
64—4 oz. bottle.....	0.65
68—8 oz. bottle.....	0.90
69—1 pt. bottle.....	1.40



WALSCO POLYSTYRENE CEMENT AND COIL DOPE

For Bonding Polystyrene Parts and Coil Coating in Radio and High Frequency Work
A Polystyrene solution with a high solid content. Can be brushed on or parts can be dipped. Renders coils or other parts moisture-proof. Holds windings firmly in place due to a certain amount of shrinkage upon drying. Electrical losses due to coating with this cement are negligible—even if used for high or ultra-high frequency work.

Cat. No.	List Price
154—4 oz. bottle.....	\$1.00

Larger Sizes on Request

WALSCO Polystyrene Solvent and Thinner

This thinner is especially designed for use with Walsco Polystyrene Cement where regular thinner cannot be used.

Cat. No.	List Price
164—4 oz. bottle.....	\$0.60

WALSCO IMPRECONE

An impregnating fluid which will render speaker cones moisture-repellent and impervious to fungus and mildew. Also prevents the drying out of cones under heat or adverse climatic conditions. Restores brittle cones to original texture. Developed for use in drive-in theatre installations, on outdoor speakers, car radios, etc.

Cat. No.	List Price
98 —8 oz. bottle.....	\$ 1.60
98-GL—1 gal. can.....	17.50



For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

WALSCO products

Help The Radio Man

WALTER L. SCHOTT COMPANY, BEVERLY HILLS, CALIFORNIA

CLEANERS — LUBRICANTS "CONTACTENE"—"NO SLIP"



WALSCOLUB - B

A recently-developed chemical compound in thin paste form. WALSCOLUB - B counteracts oxidation, prevents corrosion of metals and eliminates noise on band switches, push buttons, tuners, volume and other controls, as well as air-exposed electrical contacts, attenuators, etc. WALSCOLUB-B will not change electrical properties. It is superior to any graphite compound for this purpose. Ideal on metal surfaces to prevent rust. Servicemen: Its use will save you both time and money. Once you have tried it, you will never be without it! Large, handy applicator tube.

Available also in 1-lb., 5-lb. and 25-lb. containers for industrial users. Prices on request.

Cat. No.	List Price
22—1 3/4 oz. tube.....	\$0.55



WALSCO CONTACTENE

New Improved "Contact Cleaning Fluid"

- Cleans contacts and controls.
- Keeps controls and contacts noise-free.
- Lubricates and reduces friction.

A fast-evaporating combination of special solvents affording greatest cleaning power without affecting insulating materials. Contains "No-Ox," which after evaporation of the solvents, forms a thin film that protects the contacts. Contactene is recommended for treating volume controls, band switches, tuning condensers, springs, etc., to eliminate noisy operation. Bottles come with built-in brushes.

Cat. No.	List Price
82—2 oz. bottle.....	\$0.50
84—4 oz. bottle.....	0.75
88—8 oz. bottle.....	1.00
89—1 pt. bottle.....	1.80



WALSCO Motor and Gear Lubricant

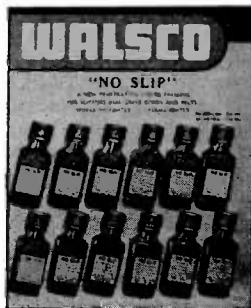
The latest development in chemicals for lubricating purposes. Much superior to greases because of its higher lubricating and lasting qualities. Its viscosity does not change with temperature. Used on phonograph motors, record changers, and all appliances that require a grease-type lubricant. In large handy "applicator" tube.

Cat. No.	List Price
23—1 3/4 oz. tube.....	\$0.55

WALSCO "NO-SLIP"

A newly developed chemical composition that greatly increases the friction of pulleys, cords or belts. Contracts, "sets" and shrinks the fibres at the same time. Stops instantly any slippage of Dial Belts, Dial Cords, etc. Easily applied with brush. Indispensable to any radio man.

Cat. No.	List Price
401—1/2 oz. bottle.....	\$0.45
402— 2 oz. bottle.....	0.75



WALSCO "NO-OX"*

"The Miracle Electronic Contact Fluid"



Fast-acting liquid chemical formulated with a neutral, non-gumming special lubricating base. The answer to the radio-man's need for an outstanding contact and control cleaner. Contains no solvents; its corrosion-dissolving action is entirely chemical. Cleans, lubricates and preserves. Proved in tens of thousands of applications by radio laboratories, service shops, broadcasting companies, motion picture, sound and recording studios, etc. "NO-OX" is highly recommended for treatment of volume and tone controls, attenuators, mixers, relay contacts and similar equipment.

Cat. No.	List Price
101—1 oz. bottle.....	\$0.85
102—2 oz. bottle.....	1.60
100-16—1 pt. bottle.....	12.50

* Mfd. under exclusive licensing agreement with NO-OX Laboratories. Trade mark registered.

WALSCOFLUX

A non-corrosive flux. Quick acting, easy to apply. May be safely used for all electrical, radio and telephone work. Helps to keep the iron tip clean.

Cat. No.	List Price
220—2 oz. bottle with applicator.....	\$0.60

WALSCO SOLDERING PASTE

A high-quality paste, fast acting and safe for most electrical and electronic uses.

Cat. No.	List Price
221 —2 oz. can.....	\$0.30

221-D—Display of 24 No. 221.....	7.20
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WALSCO CARBON TETRACHLORIDE

For general cleaning and spot removing. Dissolves dirt and grease instantly. May be used on most delicate parts. Chemically pure, rapid drying, non-explosive and non-inflammable. A safe cleaning fluid.

Cat. No.	List Price
214 — 4 oz. bottle.....	\$0.60
219 —16 oz. bottle.....	1.65
214GL—1 gal. can.....	6.25



WALSCO RADIO DIAL OIL

A light-bodied lubricating oil for all electronic and electrical appliances — absolutely free of acids or gummy substances. Also recommended as a rust preventive for radio chassis, tools, machinery, etc.

Cat. No.	List Price
72—2 oz. bottle.....	\$0.45
74—4 oz. bottle.....	0.60



WALSCO CONTACTENE INJECTOR

For applying WALSCO Contactene, NO-OX, Dial Oil, etc., to spots which are not accessible with ordinary applicators. "Injector Needle" will permit application of contact chemicals to most volume controls without unsoldering connections or taking control apart.

This tool is made with a highest quality surgical-grade needle, and an oil-resistant rubber bulb.

Cat. No.	List Price
989 —Contactene Injector.....	\$0.75
989 D—Display of 12 No. 989.....	9.00



For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

WALSCO SCRATCH REMOVING POLISH

"Makes Scratches Disappear"

A blend of polishing and staining ingredients. Removes scratches from cabinets, radios, furniture, etc., and polishes at the same time. Very easy to apply. Will not change shade of finish. Comes in two shades: "Dark" for walnut, mahogany, etc., "Light" for light maple, light oak, etc.



Cat. No.	Dark	Light	4 oz. bottle	8 oz. bottle	List Price
414	434				\$0.50
416	438				0.75
Standard Package: 4 oz. bottles					1 doz.
8 oz. bottles					2 doz.

WALSCO SUPER POLISH

"A Concentrated White Cream Wax Polish"

Does two things: First, it removes any old polish, grease or dirt that may be on the cabinet or furniture. Second, it forms a hard, dry and durable film that will protect the object for a long time, giving it a "brand new" appearance. Requires very little rubbing.

Cat. No.	4 oz. bottle	8 oz. bottle	List Price
412			\$0.50
418			0.75
Standard Package: 4 oz. bottles			1 doz.
8 oz. bottles			2 doz.

WALSCOCLEAR (Formula 91)

A scientific preparation for cleaning plastics such as television filters, lenses, optical systems, vinyl and LP records, etc.

WALSCOCLEAR contains a new chemical discovery that counteracts the dust-attracting electrostatic effect which usually interferes with proper polishing of plastic articles.

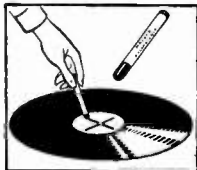
WALSCOCLEAR is very easy to apply, gives a wonderful polish, and is absolutely harmless to all plastics.

Cat. No.	List Price
91—4 oz. bottle	\$0.50
91D—Display of 12 bottles of No. 91	6.00



WALSCO RECORDGRIP

Positively stops slipping of phonograph records on changers. Indispensable for new plastic light-weight and vinyl records, to assure uniform speed and undistorted reproduction. "Recordgrip" is transparent and easily applied to the records by marking an "X" on the record label on each side. Application is permanent and one stick is sufficient for several dozen records.



Cat. No.	List Price
405—Recordgrip Stick	\$ 0.50
405-D—Display of 20 No. 405 Sticks	10.00

WALSCO INSECTENE

A new WALSCO development to control insects such as spiders, beetles and roaches, often found in juke boxes, radio cabinets, and amplifiers. Will kill insects on contact, and provides a coating with long-lasting repellent action. WALSCO Insectene is best applied to cabinets and chassis with a brush or regular insecticide spray gun. Harmless to wiring and parts.

Cat. No.	List Price
448—8 oz. bottle	\$ 1.10
448GL—1 gal. can	12.50



WALSCO AIR-DRY WRINKLE VARNISH

Easy to apply in one coat. WALSCO Air-Dry Wrinkle Varnish provides a film that is hard, tough, and very resistant to wear. Repairs and replaces original wrinkle finish of manufactured equipment. No baking required. WALSCO Wrinkle Varnish will air-dry at room temperature.

Standard colors: grey and black. Other colors upon request.



Cat. No.	List Price
145—2 oz. jar (specify color)	\$0.60
147—16 oz. can (specify color)	3.00

WALSCO CRYSTALLIZING LACQUER

Easily applied to metal, wood, cardboard, etc.—does not require experience. No spraying equipment or baking oven necessary. Brushed on, will dry in about thirty minutes, leaving an absolutely professional finish. Identical to finish found on commercial chassis, panels, speakers and transformers. WalSCO Lacquer Sealer, Cat. No. 142, should be used as undercoat if this lacquer is to be applied on porous materials or over other finishes. Available colors: Black, Green, Grey, Brown, Clear. Specify color when ordering.



Cat. No.	List Price
122—2 oz. jar	\$0.
129—16 oz. can	3.00
142—Sealer, 2 oz. jar	0.50

WALSCO SATIN FINISH LACQUER (TELEPHONE)

Made for commercial and amateur use on cabinets, chassis, panels, meters, racks, etc. This "satin finish" lacquer dries very fast and produces the "original finish" of most standard telephone and communication equipment. It air dries. May be brushed or sprayed.

Cat. No.	List Price
172—Grey	\$0.60
179—189 2 oz. jar	2.50
179—189 1 pt. can	



WALSCO INSULATING VARNISH

WalSCO "air-dry" varnish is fast-drying and produces excellent results when used on radio coils, transformers, solenoids, motors, and all electrical appliances. Withstands heat and is extremely resistant to acid, oil, and grease. It is non-corrosive and moisture-proof. An all-around clear insulating varnish.

Cat. No.	List Price
192—2 oz. bottle	\$0.60
193—1 pt. can	2.00
194—1 gal. can	9.00



WALSCO LIGHT BULB COLORING

A transparent, heat and moisture-resisting dipping lacquer especially made for coloring bulbs such as used in radio dials, signal systems, auto dash lights, and fancy illumination. Big jars permit dipping of even larger bulbs.

Cat. No.	List Price
116 Red—2 oz. jar	\$0.60
117 Blue—2 oz. jar	0.60
118 Green—2 oz. jar	0.60
119 Assorted—Kit of 3	1.60



WALSCO products

Help The Radio Man

WALTER L. SCHOTT COMPANY, BEVERLY HILLS, CALIFORNIA

REFINISHING and REPAIR KITS

WALSCO RADIO CABINET PATCHING OUTFIT

"The Most Popular Kit on the Market"



A complete kit especially designed for radio men who have little experience in cabinet work. Over 95% of all cabinet-finish damages can be repaired with this kit. The kit contains two shades of Spirit Walnut Stain, Dark Brown Lacquer, Plastic Wood, two shades of Ivory Spirit Enamel, Patching Lacquer, Super Polish, Alcohol, Brushes, Garnet Finishing Paper, French Polishing Pad, and Steel Wool, together with complete Instruction Booklet.

Cat. No.	List	Dealer's Net
K-10—In sturdy box with hinged lid.....	\$6.50	\$3.90
K-10-W—In California redwood case.....	7.50	4.50

WALSCO RADIO CABINET REPAIR KIT

A very handy compact and inexpensive kit that fills the requirements of many shops and stores. Especially useful for the Dealer or Serviceman who has only occasional cabinet repairs. The kit contains one bottle each of the following: Ivory Spirit Enamel—light and dark; Lacquer Enamel—Dark Brown; Spirit Stain; Super Polish; French Varnish; Finishing Paper; Steel Wool; Polishing Cloth; Instruction Booklet.



Cat. No.	List	Dealer's Net
K-9.....	\$3.00	\$1.80

WALSCO STICK SHELLAC KIT



An inexpensive kit for servicemen who have some experience in cabinet refinishing. Combined with Radio Cabinet Patching Outfit (K-10) it makes a most economical and completely professional kit for repairing radio cabinets. The shellac sticks match in color almost any cabinet on the market. The WalSCO shellac rubbing fluid makes it possible to smooth the patch without any

effort or skill. Kit includes: six colors Stick Shellac, Alcohol Lamp, Burn-in Spatula, bottle of Shellac Rubbing Fluid, Felt, Steel Wool, Alcohol and Instructions.

Cat. No.	List	Dealer's Net
K-11.....	\$3.50	\$2.10

REFILLS OF POPULAR REFINISHING MATERIALS AS CONTAINED IN ABOVE KITS

Cat. No.	Stains	List Price
287	Spirit Stain, 2 oz. (Walnut, Mahogany, Maple, Black)	\$0.30
288	Spirit Stain, 8 oz.	1.40
289	Blending Stain (Lt. Brown, Med. Brown)	0.75
Patching Lacquer (Improved French Varnishing Materials)		
290	4 oz. bottle	1.20
291	16 oz. bottle	3.50
Stick Shellac Rubbing Fluid		
295	4 oz. bottle	.75
296	16 oz. bottle	1.75
Stick Shellac		
299	Set of 8 assorted colors	1.50

WALSCO "SUPER-CHIEF" REFINISHING KIT

A "Must" Item



This is the most complete kit of its kind on the market. Designed by WalSCO for radio dealers. It contains everything which is needed to make an old radio look like new—all handy in one box-type carrying case. Contents of kit can be used by either skilled or unskilled refinishers, to completely refinish old radios and trade-ins, or to quickly patch up scratches, mars, etc. This kit will pay for itself on the first or second job. Every first-class radio dealer should have one. Kit contains the following:

Spirit Stain Dark Walnut	Scratch Removing Polish (Dark)
Spirit Stain Black	Scratch Removing Polish (Light)
Spirit Stain Mahogany	Patching Lacquer
Spirit Stain Maple	Alcohol Lamp
Super Polish	Alcohol
Spirit Stain Light Walnut	Spatula
Blending Stain Light Brown	Felt
Blending Stain Medium Brown	Polishing Cloth
Lacquer Enamel Light Ivory	Polishing Pad
Lacquer Enamel Dark Brown	Garnet Paper (8 sheets)
Lacquer Enamel Dark Ivory	Instruction Book
Shellac Rubbing Fluid	Brushes (8 different sizes)
Stick Shellac (8 asstd. shades)	

Cat. No.	List	Dealer's Net
K-26.....	\$18.50	\$11.10

WALSCO FURNITURE REFINISHING KIT

Ideal for touch-up work on radios, furniture, pianos, etc. Scratches, mars, dents, broken edges can be repaired quickly. Contains: Super Polish, Patching Lacquer, Alcohol, Spirit Stains in Walnut, Mahogany, Maple and Black; Shellac Rubbing Fluid, Plastic Wood, six colors Stick Shellac, Alcohol Lamp, Spatula, Brushes, Garnet Finishing Paper, Complete Instruction Book. Kit furnished in California Redwood case with hinged lid.



Cat. No.	List	Dealer's Net
K-15.....	\$8.00	\$4.80

WALSCO PHONO TURNTABLE FELTS

Made of high-quality brown felt, accurately die-cut with concentric center hole. Use WALSCO Radio Cement or WALSCO Fabric Cement for attaching.

Cat. No.	List Price
350-8 — 7 7/8" diameter	\$0.45
350-9 — 8 7/8" diameter	0.60
350-10 — 9 7/8" diameter	0.65
350-12 — 11 7/8" diameter	0.75



For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

INSULATING TUBING FLOCK FINISH — DIAL CRYSTALS

WALSCO FLOCK FINISH SPRAY KIT

For flock finishing of radio cabinets, speaker grilles, interior of record and other cabinets, turntables, jewelry and gift boxes, toys, novelties and many automotive and hobby uses. This original WALSCO Flock Kit is very easy to use and requires no skill — anyone can obtain expert results. Contains everything to produce a colorful, velvet-like and durable flock finish. The kit includes patented felt flock spray gun, ivory and brown felt flock, undercoats to match, thinner, brushes and complete instructions.

Cat. No. K-50—Complete Flocking Kit..... List Price, \$11.90

WALSCO FELT FLOCK MATERIALS

Felt Flock

Made of precision cut, lustrous rayon. Packed in 3 1/4 oz. containers (covers 7 to 10 square feet). List Price.....\$1.65

Cat. No.	Color	Cat. No.	Color
470	Brown	475	Green
471	Ivory	476	Silver
472	Blue	477	White
473	Taupe	478	Black
474	Red	479	Canary
474-1	Maroon		

List Price
Flock per pound (specify color).....\$5.50

Flock Undercoat

Provides proper adhesive and color base for felt flock. Packaged in half-pint cans (covers 10-15 square feet of non-porous surface). List Price.....\$1.65

Cat. No.	Color	Cat. No.	Color
480	Brown	484-1	Maroon
481	Ivory	485	Green
482	Blue	486	Silver-White
483	Taupe	488	Black
484	Red	489	Canary

List Price
Undercoat per gal (specify color)....\$14.40



Undercoat Thinner

For thinning of Undercoat, if necessary, and washing out brushes.

Cat. No. 468—Half-pint can..... List Price \$0.55

Felt Flock Spray Gun

Same as contained in WALSCO Flock Finish Spray Kit

Cat. No. 455..... List Price \$4.35

WALSCO INSULATING TUBING (SPAGHETTI)

WALSCO RAYOFLEX

A new type "spaghetti tubing" made of heavily lacquered rayon braid. More flexible and superior in many other respects to the conventional varnished tubing. Good dielectric strength (4,000 to 5,000 volts). RAYOFLEX has a smooth and tough surface inside and out. Meets ASTM and VTA Specifications # B2. Sizes up to # 6 are packed in handy boxes.

Cat. No.	Size B & S Gauge No.	Approx. inch	Quantity per pkg.*	List Price per pkg.
630	18	.042	10 ft.	\$0.95
631	15	.059	10 ft.	0.95
632	12	.085	8 ft.	0.95
633	9	.118	5 ft.	0.95
634	6	.166	5 ft.	0.95
635	2	1/4"	30 in.	0.56
636	0	1/8"	30 in.	0.65
637	00	3/16"	30 in.	0.69
638	0000	1/2"	30 in.	1.15

*For larger quantities, write for quotation. Available in: Black, Blue, Red, Yellow. Please specify color when ordering.

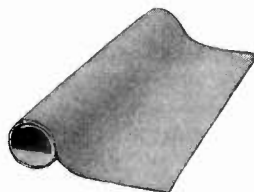
WALSCO FLEXITUBE

A high-grade synthetic extruded vinylite tubing for electronic and electrical insulation. Extremely flexible and resistant to abrasion. High dielectric strength (average 12,000-volt). Resistant to cold or heat from minus 65°F to plus 185°F. (Minus 54°C to 85°C). This tubing is impervious to water, oil, alcohol and most acids and alkalis.

Cat. No.	Size B & S Gauge No.	Approx. I.D. inch	Quantity per pkg.*	List Price, per pkg.
600	18	.042	1	20 ft. \$0.95
601	16	.053	1.4	20 ft.
602	14	.066	1.6	18 ft.
603	12	.085	2	16 ft.
604	10	.106	2.7	14 ft.
605	8	.133	3.5	12 ft.
606	6	.166	4	10 ft.
607	4	.208	5	6 ft.
608	2	.263	6.5	6 ft.

*For larger quantities, write for quotation. Available in: Black, Green, Red, Clear. Please specify color when ordering.

WALSCO INSULATING CAMBRIC

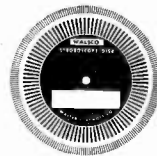


High-voltage (5000-v.) insulating material for repairing transformers, field coils, solenoids, relays, etc. Yellow color; very flexible and durable.

Cat. No. 645 — Roll of approx. 210 sq. in. \$0.75
645-D—Display of 10 No. 645 rolls.... 7.50

WALSCO STROBOSCOPE DISK

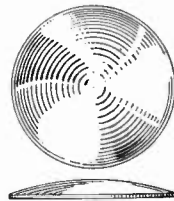
For checking proper speed of turntables. Lines on disk appear to be stationary on correct speed when observed under 60-cycle AC lighting (preferably fluorescent). For checking 78, 45, and 33 1/2 rpm. speeds.



Cat. No. 949—Stroboscope Disk..... List Price \$0.15
Standard Packing: 25

WALSCO PLASTIC DIAL CRYSTALS

Can be cut with scissors. Easily press-fitted or cemented in place. Solves the replacement problem on radio dials, instruments, etc.



Cat. No. 990—6" Maximum Diameter..... List Price \$1.10
992—9" Maximum Diameter..... 1.80
994—8" x 10" Flat Sheet..... 1.65

HANDY ASSORTMENTS



RAYOFLEX

Cat. No.	List Price
640—12 ft. of Assorted sizes and colors, from size 18 to 9	\$ 0.90
640-D—36 Assortments of # 640 in Display Box	32.40
641—6 ft. of Assorted sizes and colors, from size 9 to 1/2"	0.90
641-D—24 Assortments of # 641 in Display Box	21.60

FLEXITUBE

Cat. No.	List Price
620—20 ft. of Assorted sizes and colors, from size 18 to 10	\$ 0.90
620-D—36 Assortments of # 620 in one Display Box	32.40
621—12 ft. of Assorted sizes and colors, from size 10 to 2	0.90
621-D—24 Assortments of # 621 in one Display Box	21.60

WALSCO ULTRA-FLEXIBLE MINIATURE WIRES

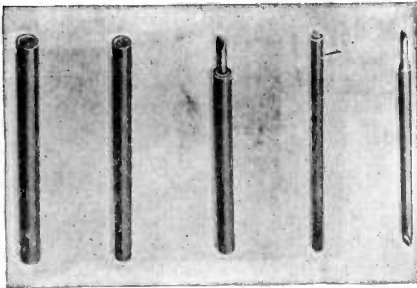


For all connections in electronic devices requiring special thin and flexible leads such as phono pick-ups, miniature earphones, relays, etc. All wires, except tinsel, are 30-gauge, stranded.

Cat. No.	List Price
304 —Single-conductor, shielded, for pick-up leads, etc., 25-ft. spool	\$1.75
3040—Same as No. 304, but package of 54" length	0.40
305 —Single-conductor, shielded, with black cotton overbraid, 25-ft. spool	2.40
3050—Same as No. 305, but package of 48" length	0.40
307 —Two conductors, parallel, color-coded, shielded, 25-ft. spool	2.70
308 —Two conductors, tinsel, twisted, with flesh-colored plastic insulation. Designed for headphones, hearing aids, etc., 25-ft. spool	3.60

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

WALSCO ALIGNMENT TOOLS



1 2 3 4 5

WALSCO 1/4" HEX I. D. NEUTRALIZING WRENCH.

Very durable. Can be cut if corners become rounded from wear. Over-all length—7 1/2", O.D.—3/8" round.

Cat. No.	Picture No.	List Price
§2500—Bone Fibre Wrench	2	\$0.40
§2503—Polystyrene Wrench	2	0.40

WALSCO 5/16" HEX. I. D. NEUTRALIZING WRENCH.

Same construction as 1/4" wrench listed above. Over-all length—7 1/2", O. D.—3/8".

Cat. No.	Picture No.	List Price
§2505—Bone Fibre Wrench	1	\$0.40
§2508—Polystyrene Wrench	1	0.40

WALSCO FIBRE HEX-WRENCH-AND-SCREW-DRIVER.

Standard 1/4" hex wrench combined with a fibre screw driver.

Cat. No.	Picture No.	List Price
§2510—Combination Tool	3	\$0.60

WALSCO DUPLEX ALIGNMENT SCREWDRIVER.

Precision made. Ground or molded to fit large or small screws. Width of blade on large end—1/4"; on small end—1/8". Thickness to conform to standard slot dimensions. Over-all length—6".

Cat. No.	Picture No.	List Price
§2520—Fibre Screwdriver	5	\$0.50
§2521—Polystyrene Screwdriver	5	0.40

WALSCO METAL TIP ALIGNMENT SCREWDRIVER.

Polystyrene handle. This tool combines the low capacity effect of an alignment tool with the mechanical strength of a metal screwdriver. Diameter—1/4"; over-all length—6".

Cat. No.	Picture No.	List Price
§2525—Alignment Screwdriver	4	\$0.45

WALSCO TUNING WAND.

Made from Polystyrene rod with inductance-increasing powdered iron core on one end and inductance-reducing brass piece on opposite end. Over-all length—6".

Cat. No.	List Price
§2540—Tuning Wand	\$0.50

(Picture not shown, but similar to Picture #1.)

WALSCO TV-FM ALIGNMENT TOOL KIT.

Complete set of all tools required for receiver alignment.

Cat. No.	List Price
580—12 tools in leatherette case	\$11.50
581—12 tools on wall rack	11.50

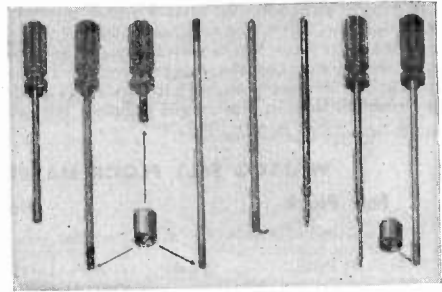
WALSCO TIRE STATIC NEUTRALIZING KIT

- Reduces or Eliminates Automobile Radio Tire Static.
- Dissipates Body Contact Shock /Door-handle Sparks.



This kit contains a special injector gun and 5 packages of WALSCO Static Neutralizing Powder (one for each tire, including spare). The powder is blown into each tire in a very simple operation, which takes just a few minutes and lasts for the life of the tire.

Cat. No.	List Price
980—Tire Static Neutralizing Kit, complete with injector, powder and instructions	\$2.50
982—Injector gun only	1.50
985—Powder only (enough for 5 passenger-car tires)	1.00



6 7 8 9 10 11 12 13

WALSCO TV OSCILLATOR ALIGNMENT TOOLS.

Cat. No.	Picture No.	List Price
§2518—For Philco Receivers	6	\$1.60
§2522—For Receivers, "Standard Coil" Front Ends	12	1.00

WALSCO TV I.F. ALIGNMENT SCREWDRIVERS.

Standard Tools for all TV and FM sets. Made of new flexible low-loss plastic with thin precision screwdriver tips.

Cat. No.	Picture No.	List Price
§2516—8 1/2" long, for No. 6 Studs	7	\$1.00
§2517—3" long, for No. 6 Studs	8	.95
§2519—7" long—1 end for No. 6 Studs; other end for No. 4 Studs	9	.95
§2524—8 1/2" long, Slotted Type, for No. 6 Studs	13	1.00

WALSCO WIRE DRESSING AND ALIGNMENT TOOL.

Made with thin (3/32") polystyrene handle, 7" long. Special tool on one end for dressing wires and finding loose connections or shorts. Other end has low capacity screwdriver tip.

Cat. No.	Picture No.	List Price
§2512—Wire Dressing and Alignment Tool	10	\$0.55

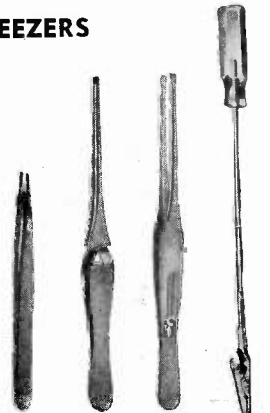
WALSCO "K-TRAN" ALIGNMENT TOOL.

For adjustment of all miniature (K-Tran) I.F. transformers. Made of tough bone fibre. One end is machined to fit "K-Tran" slots; other end is equipped with low-capacity metal screwdriver tip.

Cat. No.	Picture No.	List Price
§2515—"K-Tran" Alignment Tool	11	\$0.75

WALSCO SERVICE TWEEZERS

These handy holding tools are made of fine spring steel and are polished nickel-plated. They have numerous uses in the shop and laboratory, such as starting screws and nuts in difficult places, holding wires and small parts together when soldering, clamping cemented items, installing dial cord and record-changer springs, looping and untying knots on drive cord, etc.



Cat. No.	List Price
570—Self-Closing Tweezer with cross-over action, 6 1/2" long, serrated, blunt points	\$0.95

(Standard Package: Display card with 10 tweezers . . . Cat. No. 570D)

571—Heavy-Duty Tweezer with slide-lock feature. Length 6 1/2", serrated, blunt points . . . \$1.20
(Standard Package: Display card with 10 tweezers . . . Cat. No. 571D)

572—Precision Tweezer with narrow, pointed ends especially suitable for delicate work. Over-all length 4 1/2" . . . \$0.55
(Standard Package: Display card with 20 tweezers . . . Cat. No. 572-D)

575—Tweezer Kit, made of durable leatherette, containing one each of the above listed tweezers . . . \$3.25
(Standard Package: Display of 12 kits . . . Cat. No. 575D)

§579—WALSCO EE-ZEE Starting Tool—A handy tool for starting screws and nuts, inserting springs, etc. Front part of tool is flexible. Will reach into places which are inaccessible with fingers or pliers . . . \$0.75

For Bulk Quantity Prices on these items, see WALSCO INDUSTRIAL AND BULK PRICE LIST, pages U-47 to U-50.

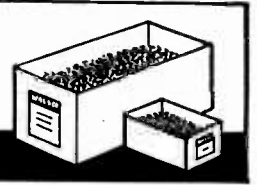


WALSCO ELECTRONIC HARDWARE

The **99** Line

BULK PACK

IN PERMANENT *Transparent* PLASTIC STORAGE BOXES with SLIDING TOPS • PROMPT DELIVERY FOR INDUSTRIAL AND OTHER QUANTITY USERS



HOLE PLUGS



THE "99 LINE"

BULK PACK

Description

99c Net, Ea. Pkg.

Part No. Quantity per Package

Bulk Part No.

Net Prices, per Thousand

SNAP-HOLE PLUGS, Steel, Bright Nickel-Plated

Description	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
Fits 1/8" hole			3501-1	250 to 4999 \$14.30 5M and up \$11.00
Fits 1/4" hole			3501-1A	15.75 12.10
Fits 3/8" hole	3501-99	50	3501-2	14.30 11.00
Fits 1/2" hole	3502-99	50	3501-3	14.30 11.00
Fits 5/8" hole	3503-99	40	3501-4	15.75 12.10
Fits 3/4" hole	3504-99	30	3501-5	20.00 15.40
Fits 7/8" hole	3505-99	25	3501-6	20.00 15.40
Fits 1" hole			3501-7	24.30 18.70
Fits 1 1/8" hole	3506-99	20	3501-8	31.45 24.20
Fits 1 1/4" hole			3501-9	33.00 25.00
			3501-10	34.30 26.40

VENTILATING HOLE PLUGS

Snap-fit for 1" hole	3320-1	Prices quoted on request.
Eyelet-type for 1 1/8" hole	3320-2	18.00 14.50
Eyelet-type for 3/4" hole	3320-8	22.00 17.50



SNAP-IN TRIMOUNTS



Dimensions	For Hole	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
A 9/16" B 1 1/8" C 1 1/8"	1/8"	3462-99	125	3460-2	1000 to 9999 \$4.60 10M and up \$3.50
A 1 1/8" B 1 1/4" C 1 1/4"	3/8"	3464-99	100	3460-4	5.45 4.20
A 1 1/4" B 1 3/8" C 1 3/8"	1/2"	3465-99	85	3460-5	7.15 5.50



GROMMETS, CABINET FEET AND CHASSIS MOUNTS



RUBBER GROMMETS

Dimensions, inches	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
A 1 1/8" B 1 1/8" C 1 1/8" D 1 1/8" E 1/4"	3341-99	100	3340-1	500 to 9999 \$5.90 10M and up \$4.55
A 1 1/8" B 1 1/8" C 1 1/8" D 1 1/8" E 3/8"	3342-99	75	3340-2	7.20 5.55
A 1 1/8" B 1 1/8" C 1 1/8" D 1 1/8" E 1/2"	3343-99	65	3340-3	9.20 7.05
A 1 1/8" B 1 1/8" C 1 1/8" D 1 1/8" E 3/4"	3344-99	50	3340-4	10.50 8.05
A 1 1/8" B 1 1/8" C 1 1/8" D 1 1/8" E 1"	3345-99	40	3340-5	14.40 11.10

CORD STRAIN RELIEFS

For POSI Wire	3340-9	26.20	20.15
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RUBBER FEET

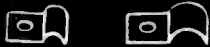
SCREW-TYPE:	Diameter	Height	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
	3/8"	3/8"	3351-99	50*	3350-1†	6.55 5.05
	1/2"	3/8"	3352-99	50*	3350-2†	7.05 5.45
	3/4"	3/8"	3353-99	30*	3350-3†	14.10 10.85

(*Wood screws included.) (†No screws included.)

TACK FEET:	3/8" diameter	3355-99	50	3350-5	11.15 8.60
	1/2" diameter	3356-99	50	3350-15	11.50 8.85

CHASSIS MOUNTS

Dimensions, inches	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
A 3/4" B 1/2" C 1/4" D 3/8"	2742-99	30	2740-2	20.95 16.10
A 1" B 1/2" C 1/4" D 3/8"	2744-99	20	2740-4	26.20 20.15



CABLE CLAMPS

Steel, cadmium plated



For Cables	Mounting Hole Size	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
1/8" to 3/8" diameter	#6	3331-99	125	3330-1	1000 to 9999 \$4.25 10M and up \$3.30
3/8" to 1/2" diameter	#8	3332-99	100	3330-2	4.95 3.80
1/2" to 5/8" diameter	#8	3333-99	75	3330-3	5.60 4.30

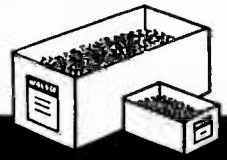


WALSCO ELECTRONIC HARDWARE

The '99 Line

BULK PACK

IN PERMANENT *Transparent* PLASTIC STORAGE BOXES with SLIDING TOPS • PROMPT DELIVERY FOR INDUSTRIAL AND OTHER QUANTITY USERS



THE "99 LINE"

BULK PACK

Description

99c Net, Ea. Pkg.

Bulk Part No.

Net Prices, per Thousand

DIAL DRIVE SPRINGS, Steel, Cadmium-Plated

O/L	Diameter	Wire Size	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
1/2"	1/8"	.016"	3410-1	250	3410-1	\$11.75
5/8"	3/8"	.018"	3410-2	5M	3410-2	\$8.95
9/8"	1/2"	.020"	3410-3	10M	3410-3	\$8.95
1 1/8"	5/8"	.016"	3410-4	15M	3410-4	\$9.20
1 1/4"	3/4"	.020"	3410-5	20M	3410-5	\$9.35
1 3/4"	1"	.022"	3400-1	25M	3400-1	\$10.00
2"	1 1/4"	.022"	3400-2	30M	3400-2	\$10.50
Assorted			3400-99	50		

PHONO PANEL MOUNTING SPRINGS, Spring Steel, Cadmium-Plated

A	B	C	Wire Thickness	Part No.	Net Prices, per Thousand
1"	3/8"	7/8"	.075"	3385-1	11.15
1 1/8"	1/2"	1"	.062"	3385-2	11.75
3/4"	3/4"	3/4"	.047"	3385-3	11.00

KNOB SPRINGS

Style 1	3450-1	10.65	8.20
Style 2	3450-2	10.00	7.70
Style 5	3450-5	8.85	6.80
Style 6	3450-6	5.30	4.10
Style 7	3450-7	4.30	3.30
Style 8	3450-8	3.70	2.85
Style 9	3450-9	3.90	3.00



TERMINAL LUGS

SOLDER TYPE

Style	Available for Screw Numbers (Specify)	Part No.	Quantity	Net Price
1	#6, #8, #10	3281-99	150	\$4.15
2	#6, #8	3282-99	150	\$3.30
3	#6, #8	3283-99	150	\$3.85
4	#6, #8, #10, 1/4"	3284-99	150	\$4.75
5	#6, #8	3285-99	125	\$5.25
6	#6, #8, #10	3286-99	150	\$2.25

SCREW TYPE

7 with #8-32 x 3/8" Screw	3288-3-1	100 to 999	1M and up	\$38.90	\$29.00
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SOLDERLESS TYPE

Style	Fits Screw #	Fits Wire Gauge #	Part No.	Quantity	Net Price
8	8	16 to 20	3288-1-6	250 to 4999	\$19.30
8	8	16 to 20	3288-1-8	5M	\$14.85
8	10	16 to 20	3288-1-10	10M	\$14.85
Assorted			3288-99	35	

EYELET TYPE

9	3288-2-1	1000 to 9999	10M and up	\$2.85	\$2.20
10	3288-2-2			4.00	3.10
11	3288-2-3			3.15	2.40
12	3288-2-4			4.00	3.10
13	3288-2-5			7.45	5.70



PLUGS AND JACKS

MINIATURE PLUGS AND JACKS, Not Assembled

2-Conductor Plug (type PL-291)	2590 BU	100 to 999	1M and up	\$235.00	\$185.00
2-Conductor Jack (type JK-48)	2591 BU			\$75.00	\$85.00

PHONO PLUGS AND JACKS

Shielded, Single-Conductor Plug	2580-1	39.50	29.75
Shielded, Single-Conductor Jack	2580-6	62.00	47.50

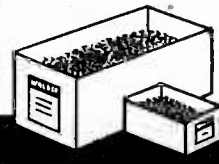


WALSCO ELECTRONIC HARDWARE

The '99 Line

BULK PACK

IN PERMANENT *Transparent* PLASTIC STORAGE BOXES with SLIDING TOPS • PROMPT DELIVERY FOR INDUSTRIAL AND OTHER QUANTITY USERS



MACHINE SCREWS

THE '99 LINE'

Description

99c Net, Ea. Pkg.

BULK PACK

Part No. Quantity per Package
ROUND HEAD, Steel, Cadmium-Plated

Bulk Part No. Net Prices, per Thousand

Sizes	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand	10M and up
Assorted	3560-99	200			1000 to 9999
# 2-56 x 3/16"			3561-2-1A	\$2.05	\$1.60
# 2-56 x 3/8"			3561-2-3	2.15	1.65
# 2-56 x 1/2"			3561-2-4	2.25	1.75
# 4-40 x 1/4"			3561-4-2	2.20	1.70
# 4-40 x 3/8"			3561-4-3	2.25	1.75
# 4-40 x 1/2"			3561-4-4	2.40	1.85
# 4-40 x 1"			3561-4-8	3.00	2.30
# 6-32 x 1/4"	3100-99	225	3561-6-2	2.45	1.90
# 6-32 x 3/8"	3110-99	225	3561-6-3	2.65	2.00
# 6-32 x 1/2"	3120-99	200	3561-6-4	2.85	2.20
# 6-32 x 3/4"	3130-99	175	3561-6-6	3.25	2.50
# 6-32 x 1"	3132-99	150	3561-6-8	3.80	2.90
# 8-32 x 1/4"	3135-99	200	3561-8-2	3.05	2.35
# 8-32 x 3/8"	3140-99	175	3561-8-3	3.40	2.60
# 8-32 x 1/2"	3150-99	160	3561-8-4	3.65	2.80
# 8-32 x 3/4"	3160-99	140	3561-8-6	4.20	3.25
# 8-32 x 1"	3162-99	125	3561-8-8	4.90	3.75
# 10-32 x 1/2"	3165-99	150	3561-10-4	4.35	3.35
# 10-32 x 3/4"	3167-99	125	3561-10-6	5.15	3.95
# 10-32 x 1"	3169-99	100	3561-10-8	5.85	4.50

BINDING HEAD, Brass

# 6-32 x 1/4"			3565-6-2	4.25	3.25
# 6-32 x 3/8"			3565-6-3	4.85	3.75
# 6-32 x 1/2"			3565-6-4	5.50	4.25
# 8-32 x 1/4"			3565-8-2	6.10	4.70
# 8-32 x 3/8"			3565-8-3	6.90	5.35

SHEET METAL AND SELF TAPPING SCREWS

HEX HEAD, Slotted, Type "B" — Blunt Point

Sizes	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand	10M and up
Assorted	3470-99	125			1000 to 9999
# 6 x 1/8"	2910-99	150	3471-6-2	\$3.45	\$2.65
# 6 x 3/8"	2911-99	150	3471-6-3	3.65	2.80
# 6 x 1/2"	2912-99	150	3471-6-4	3.80	2.95
# 6 x 3/4"	2914-99	125	3471-6-6	4.30	3.30
# 6 x 1"	2916-99	100	3471-6-8	4.70	3.60
# 8 x 1/4"	2919-99	125	3471-8-2	4.30	3.30
# 8 x 3/8"	2920-99	125	3471-8-3	4.25	3.30
# 8 x 1/2"	2922-99	125	3471-8-4	4.55	3.50
# 8 x 3/4"	2924-99	100	3471-8-6	5.25	4.05
# 8 x 1"	2926-99	100	3471-8-8	6.00	4.60
# 10 x 3/8"	2930-99	100	3471-10-3	5.25	4.05
# 10 x 1/2"	2932-99	100	3471-10-4	5.50	4.25
# 10 x 3/4"	2934-99	100	3471-10-6	6.20	4.75

BINDING HEAD, Type "A" — Pointed

# 6 x 1/4"			3475-6-2	3.75	2.90
# 6 x 3/8"			3475-6-3	4.05	3.10
# 6 x 1/2"			3475-6-4	4.25	3.25
# 8 x 3/8"			3475-8-3	4.70	3.65
# 8 x 1/2"			3475-8-4	5.00	3.85
# 8 x 3/4"			3475-8-6	5.80	4.45

ROUND HEAD, THREAD-CUTTING, Steel, Cadmium-Plated

# 6-32 x 1/4"			3477-6-2	6.50	4.75
# 6-32 x 3/8"			3477-6-3	7.00	5.25
# 6-32 x 1/2"			3477-6-4	7.90	5.85
# 8-32 x 3/8"			3477-8-3	8.00	5.95
# 8-32 x 1/2"			3477-8-4	8.50	6.30
# 8-32 x 3/4"			3477-8-6	9.30	7.00

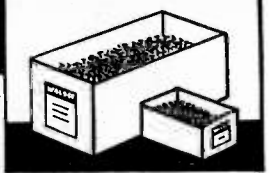


WALSCO ELECTRONIC HARDWARE

The '99 Line

BULK PACK

IN PERMANENT *Transparent* PLASTIC STORAGE BOXES with SLIDING TOPS • PROMPT DELIVERY FOR INDUSTRIAL AND OTHER QUANTITY USERS



SET SCREWS

Steel, hardened

Description	THE "99 LINE"		BULK PACK	
	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
HEADLESS TYPE, Slotted, Cadmium-Plated				
Assorted	3480-99	75		500 to 999 10M and up
# 6-32 x 1/8"			3481-6-1	\$9.85 \$7.55
# 6-32 x 1/8"			3481-6-1A	8.55 6.55
# 6-32 x 1/4"			3481-6-2	8.70 6.70
# 8-32 x 1/8"			3481-8-1	9.85 7.55
# 8-32 x 1/8"			3481-8-1A	8.55 6.55
# 8-32 x 1/4"	3220-99	75	3481-8-2	8.70 6.70
# 10-32 x 1/8"			3481-10-1A	8.55 6.55
# 10-32 x 1/4"			3481-10-2	8.70 6.70

HEX — ALLEN-HEAD

# 4-40 x 1/4"			3482-4-1	100 to 999 1M and up
# 5-40 x 1/4"			3480-5-1	\$53.95 \$41.50
# 6-32 x 1/8"			3480-6-1	54.60 42.00
# 6-32 x 1/8"			3480-6-1A	55.25 42.50
# 6-32 x 1/4"			3480-6-2	55.90 43.00
# 6-32 x 1/4"			3480-6-2A	55.90 43.00
# 8-32 x 1/8"			3480-8-1	55.90 43.00
# 8-32 x 1/8"			3480-8-1A	56.55 43.50
# 8-32 x 1/4"			3480-8-2	57.20 44.00
# 10-32 x 1/8"			3480-10-1A	57.20 44.00
# 10-32 x 1/4"			3480-10-2	57.85 44.50
1/4-20 x 1/4"			3480-1/4-2	59.15 45.50

MISC. SCREWS

WOOD SCREWS

Size	Head	Finish		1000 to 999 10M and up
# 2 x 1/4"	Oval Hd.	Statuary Bronze	3550-2-2	\$3.70 \$2.85
# 2 x 3/8"	Oval Hd.	Statuary Bronze	3550-2-3	3.90 3.00
# 2 x 1/2"	Round Hd.	Statuary Bronze	3550-2-4	4.05 3.10
# 3 x 3/8"	Round Hd.	Blued	3550-3-3	3.30 2.55
# 6 x 1/2"	Round Hd.	Blued	3550-6-4	3.75 2.90
# 6 x 7/8"	Flat Hd.	Cadmium-Plated	3550-6-7	4.75 3.70
# 8 x 5/8"	Round Hd.	Blued	3550-8-5	4.40 3.40

ORNAMENTAL HEAD SCREWS, Steel, Statuary Bronze Finish

# 6-32 x 3/4"	2951-99	125	2951-6-6	3.80 2.90
# 6-32 x 1"	2952-99	125	2951-6-8	4.45 3.45
# 8-32 x 1 1/4"	2953-99	80	2951-8-10	6.65 5.10

RACK SCREWS, Oval Head, Steel, Nickel-Plated

# 6-32 x 5/8"	3543-99	175	3541-6-5	3.05 2.35
# 8-32 x 5/8"	3541-99	125	3541-8-5	4.00 3.05
# 10-32 x 3/4"	3542-99	100	3541-10-6	5.15 3.95
# 12-24 x 5/8"			3541-12-5	6.30 4.85

MISC. FASTENERS

SPADE BOLTS, Steel, Cadmium-Plated

# 6-32 x 5/8" O/L	3271-99	125	3270-1	1000 to 999 10M and up
# 6-32 x 3/4" O/L	3272-99	150	3270-2	\$5.25 \$4.50
				4.00 3.15

HAIR-PIN COTTERS

Dimensions				
A	B	C		
3/8"	1 1/8"	.026"	2650-1	1.90 1.50
3/8"	3/8"	.026"	2650-2	1.90 1.50
1/2"	3/4"	.032"	2650-3	2.80 2.25

THREADED ROD, Steel

# 6-32; 8" long			2640-1	100 to 999 1M and up
# 8-32; 8" long			2640-2	\$45.25 \$34.80
				47.60 36.60

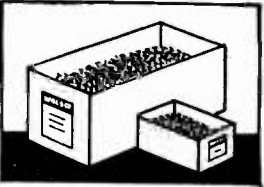


WALSCO ELECTRONIC HARDWARE

The '99 Line

BULK PACK

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HEX NUTS



THE '99 LINE'

BULK PACK

Description			99c Net, Ea. Pkg.		BULK PACK	
Thread Size	Width Across Flats	Thickness	Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand
						1000 to 9999 10M and up
SMALL PATTERN, Steel, Cadmium-Plated						
Assorted			3520-99	175		
2-56	3/16"	1/16"			3521-2	\$3.75 \$2.75
4-40	1/8"	1/16"	3175-99	200	3521-4	4.25 3.25
6-32	3/16"	3/32"	3180-99	200	3521-6	3.25 2.50
8-32	1/4"	7/32"	3190-99	200	3521-8	3.50 2.70
10-32	5/16"	1/8"	3195-99	175	3521-10	3.60 2.75
STANDARD PATTERN, Steel, Cadmium-Plated						
6-32	3/16"	7/32"			3522-6	3.20 2.45
8-32	1/4"	1/8"			3522-8	3.65 2.80
10-32	5/16"	1/8"			3522-10	3.95 3.05
BRASS NUTS, Nickel-Plated						
4-36	1/4"	3/32"			3523-4X†	4.75 3.50
4-40	1/4"	3/32"			3523-4†	4.75 3.50
6-32	3/16"	7/32"	3180-B-99*	150	3523-6†	3.50 2.75
8-32	1/4"	1/8"	3190-B-99*	100	3523-8†	6.50 5.00
10-32	5/16"	1/8"	3195-B-99*	100	3523-10†	6.90 5.35

(*Nickel-Plated)

(†Brass, Add 10% for Nickel Plating)



MOUNTING NUTS



Thread Size	Width Across Flats	Thickness			1000 to 9999	10M and up
VOLUME CONTROL HEX NUTS, Steel, Cadmium-Plated						
3/8-32	1 1/4"	3/8"	3531-99	85	3530-1	\$ 6.65 \$ 5.10
VOLUME CONTROL HEX NUTS, Brass						
3/8-32	1 1/8"	3/2"			3530-1B	16.00 12.50
TOGGLE SWITCH HEX NUTS, Steel, Cadmium-Plated						
1 1/2-32	1 1/8"	3/2"	3532-99	50	3530-2	11.00 8.45
TOGGLE SWITCH RING NUTS, Brass, Nickel-Plated						
1 1/2-32	1 1/2"	5/8"	3533-99	50	3530-3	12.10 9.30
ELECTRIC SWITCH AND FIXTURE NUTS						
1/8 P	1 1/2"	1/8"			3530-4	11.30 8.60



SPECIAL NUTS



KNURLED THUMB NUTS, Brass

#	Thread Size	Width Across Flats	Thickness			1000 to 9999	10M and up
# 6-32						2971-6	\$ 8.00 \$ 6.15
# 8-32						2971-8	8.00 6.15
# 10-32						2971-10	22.85 17.60
WING NUTS, Zamack Metal, Nickel-Plated							
# 6-32						2976-6	6.50 4.95
# 8-32						2976-8	10.75 8.30
# 10-32						2976-10	12.90 10.00
ACORN NUTS, PAL TYPE, Steel, Nickel-Plated							
# 6-32						2961-6	10.65 8.20
# 8-32						2961-8	12.25 9.40
# 10-32						2961-10	15.25 11.70
SPEED NUTS, Tempered Steel, Parkerized							
# 6-32						2981-6	5.15 3.95
# 8-32						2981-8	5.15 3.95
# 10-24						2981-10	5.65 4.35
1/4-20						2981-1/4	8.20 6.30

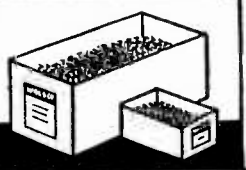


WALSCO ELECTRONIC HARDWARE

The 99 Line

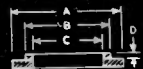
BULK PACK

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INSULATING WASHERS

Phenolic Fibre



THE "99 LINE"

BULK PACK

Fits Screw No.	Description				Part No.	99c Net, Ea. Pkg. Quantity per Package	Bulk Part No.	Net Prices, per Thousand	
	A	B	C	D				1000 to 9999	10M and up
EXTRUDED TYPE									
6	5/8"	1 1/8"	.136"	3/32"	3431-E-99	100	3432-6	\$5.25	\$4.05
8	3/8"	1 1/4"	.165"	3/32"	3432-E-99	100	3432-8	5.25	4.05
10	3/8"	.308"	.195"	3/32"	3433-E-99	100	3432-10	5.25	4.05
1/4"	1/2"	1 1/2"	.255"	3/32"	3434-E-99	75	3432-1/4	5.75	4.40
3/8"	5/8"	1 1/2"	.380"	3/32"	3435-E-99	75	3432-3/8	7.05	5.40
FLAT TYPE									
6	O.D. 5/8"	I.D. .136"	Thickness 3/32"		3431-F-99	250	3431-6	1.50	1.15
8	3/8"	.165"	3/32"		3432-F-99	250	3431-8	1.90	1.45
10	3/8"	.195"	3/32"		3433-F-99	250	3431-10	1.90	1.45
1/4"	1/2"	.255"	3/32"		3434-F-99	200	3431-1/4	2.30	1.75
3/8"	5/8"	.380"	3/32"		3435-F-99	200	3431-3/8	2.60	2.00

MISC. WASHERS

FLAT METAL WASHERS, Steel, Cadmium-Plated

Fits Screw No.	O.D.	Thickness	Part No.	Quantity	1000 to 9999	10M and up
4	3/8"	3/32"	3511-4	500	\$.90	\$.70
6	3/8"	3/32"	3512-99	500	.95	.75
8	3/8"	3/32"	3513-99	500	.95	.75
10	3/8"	3/32"	3514-99	300	1.40	1.05
1/4"	1/2"	3/32"	3515-99	300	1.65	1.25

LOCK WASHERS, Int. Teeth, Steel, Cadmium-Plated

Fits Screw No.	Part No.	Quantity	1000 to 9999	10M and up
4	3591-4	250	2.35	1.80
6	3592-99	250	2.15	1.65
8	3593-99	250	2.20	1.70
10	3594-99	250	2.20	1.70
1/4"	3595-99	200	2.90	2.20
3/8"	3596-99	100	5.05	3.90

SPRING (FRICTION) WASHERS

I.D.	O.D.	Thickness	Part No.	Quantity	1000 to 9999	10M and up
1/8"	1/8"	.010"	3425-1	500	7.00	5.50
3/16"	3/16"	.008"	3425-2	500	7.75	6.00
1/4"	1/2"	.012"	3425-3	500	8.75	6.75

CUP WASHERS, Steel, Nickel-Plated

Fits Screw No.	Part No.	Quantity	1000 to 9999	10M and up
6	3544-99	300	1.50	1.15
8	3545-99	250	1.80	1.40
10	3546-99	200	2.40	1.85
12			2.90	2.25

"C" WASHERS, Soft Steel, Cadmium-Plated

Fits Shaft	A	B	C	Thickness	Part No.	Quantity	1000 to 9999	10M and up
1/4"	.260	1/8"	1/16"	3/32"	3420-2	500	4.15	3.20
3/8"	3/8"	1/8"	1/8"	3/32"	3420-3	500	3.60	2.75

KNOB FELT WASHERS, Brown

O.D.	I.D.	Thickness	Part No.	Quantity	1000 to 9999	10M and up
3/4"	1/4"	3/32"	3490-99	250	1.75	1.10

PHONE TIPS

1/8" O/L	2725-99	60	2725-1	250 to 4999	5M and up
				\$9.05	\$6.95

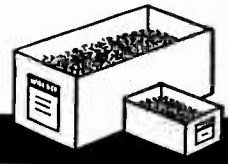


WALSCO ELECTRONIC HARDWARE

The 99 Line

BULK PACK

IN PERMANENT TRANSPARENT PLASTIC STORAGE BOXES with SLIDING TOPS • PROMPT DELIVERY FOR INDUSTRIAL AND OTHER QUANTITY USERS



MISC. CLIPS

THE "99 LINE"

Length	Width	Mtg. Hole Size	Description	99c Net, Ea. Pkg.		BULK PACK		
				Part No.	Quantity per Package	Bulk Part No.	Net Prices, per Thousand	
SPRING CLIPS, Spring Brass, Nickel-Plated								
1 1/8"	3/8"	4 and 5	.....	2731-99	100	2730-1	\$5.65
1 1/8"	1/2"	6	.....	2732-99	75	2730-2	7.65
GRID CAPS								
For Glass Tubes.....						250 to 4999 5M and up		
For Metal and "GT" Tubes.....						2600-1	\$17.50	\$13.50
						2600-4	6.00	3.90
FUSE CLIPS								
For 1/4" Fuses.....						2720-1	8.00	5.75
For 3/8" Fuses.....						2720-2	14.00	10.80

FUSE INSULATORS

1 1/8" long, 1/4" I.D.	1000 to 9999 10M and up
5/8" long, 1/4" I.D.	2690-1 \$3.35 \$2.55
	2690-2 2.95 2.30

ANGLE BRACKETS

Material	Dimensions				
	A	B	C		
Brass, cadmium-plated	7/8"	1/4"	1/4"	2610-1	500 to 9999 10M and up \$5.70 \$4.65
Steel, cadmium-plated	1/2"	3/8"	1/8"	2610-2	6.50 5.40
Brass (one hole tapped 6-32)	3/2"	5/8"	1/8"	2610-5	9.75 7.50

INSULATING TUBING

FLEXITUBE

Extruded vinyl tubing; dielectric strength: 15,000 v. Available in Black, Green, Red, and Clear. Please specify color.

Part No.	Size, B & S Gauge No.	Approx. I.D.			
		Inches	MM.		
R 600	18	.042	1	100 to 1999* ft.	2M* ft. and up
R 601	16	.053	1.4	\$15.00/M ft.	\$8.82/M ft.
R 602	14	.066	1.6	15.00/M ft.	8.82/M ft.
R 603	12	.085	2	15.60/M ft.	10.37/M ft.
R 604	10	.106	2.7	16.00/M ft.	11.91/M ft.
R 605	8	.133	3.5	18.00/M ft.	12.20/M ft.
R 606	6	.166	4	22.20/M ft.	13.30/M ft.
R 607	4	.208	5	26.00/M ft.	16.00/M ft.
R 608	2	.263	6.5	32.00/M ft.	23.00/M ft.
				45.00/M ft.	30.00/M ft.

RAYOFLEX

Lacquered-rayon tubing, radio grade. Meets A.S.T.M. Specifications B-2. Available in Black, Blue, Red, and Yellow. Please specify color.

Part No.	Size, B & S Gauge No.	Approx. I.D.			
		Inches	MM.		
(Following sizes supplied in continuous lengths.)					
R 630	18	.042	1	100 to 1999* ft.	2M* ft. and up
R 631	15	.059	1.5	\$ 39.50/M ft.	\$ 30.40/M ft.
R 632	12	.085	2	43.70/M ft.	33.60/M ft.
R 633	9	.118	3	51.90/M ft.	39.90/M ft.
R 634	6	.166	4	60.00/M ft.	46.20/M ft.
				67.80/M ft.	52.20/M ft.
(Following sizes supplied in 30-inch lengths.)					
R 635	2	1/4"	6.5	106.80/M ft.	82.20/M ft.
R 636	0	1/2"	8.5	143.20/M ft.	110.20/M ft.
R 637	00	3/4"	9.5	171.80/M ft.	132.20/M ft.
R 638	0000	1"	13	236.80/M ft.	182.20/M ft.

*Various sizes and colors, but not less than 100 ft. of any one size or color, may be combined in one order to take advantage of quantity discounts. Sizes other than listed above can be supplied. Prices quoted on request.



DIAL CABLE AND CORDS



Part No.	Description	3000 to 14,999 ft.	15M ft. and up
METAL CABLES			
R 30	Phosphor bronze cable, twisted, 42-strand, .032" diameter.....	\$20.00/M ft.	\$15.40/M ft.
R 31	Bronze cable, braided, 16-strand, .038" diameter.....	10.00/M ft.	8.00/M ft.
R 32	Bronze cable, braided, 8-strand, .026" diameter.....	11.00/M ft.	8.50/M ft.
NYLON CORDS			
Constructed with impregnated fibreglass core, and black nylon braid. Construction combines minimum stretch, high coefficient of friction, and maximum resistance to abrasion.			
R 35	"Special-Thin" Cord, approximately .026" diameter.....	9.00/M ft.	6.05/M ft.
R 39	Standard Cord, approximately .032" diameter.....	12.75/M ft.	9.20/M ft.
R 34	Medium Cord, approximately .040" diameter.....	13.50/M ft.	9.90/M ft.
R 33	Heavy-Duty Cord, approximately .060" diameter.....	17.50/M ft.	13.50/M ft.



GRILLE CLOTH, SCREENING AND METAL GRILLE



Part No.	Description	5 to 49 yd.	50 yd. and up
GRILLE CLOTH			
R 362 BU	Available in a variety of colors and patterns. Average width of material is 52".....	\$3.45/yd.	\$2.30/yd.
FLOCKED GRILLE SCREENING			
	Color	Width, inches	
R 374-1 BU	Brown	11	10 to 99 ft. \$.45/lin. ft.
R 374-3 BU	Light Ivory	11	100 ft. and up \$.35/lin. ft.
R 376-1 BU	Brown	18	.45/lin. ft. .35/lin. ft.
R 376-3 BU	Light Ivory	18	.65/lin. ft. .50/lin. ft.
R 378-1 BU	Brown	36	.65/lin. ft. .50/lin. ft.
R 378-3 BU	Light Ivory	36	1.30/lin. ft. 1.00/lin. ft.
			1.30/lin. ft. 1.00/lin. ft.
Note: Grille Cloth and Flocked Grille Screening also available in "cut-to-order" sizes..... Prices Quoted on Request			

ORNAMENTAL METAL GRILLE

R 380	Available in a variety of finishes and in any size up to 48" width.....	Prices Quoted on Request
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CHEMICALS AND FINISHES



Part No.	Description	1-gal. Cans	5-gal. Cans
INDUSTRIAL ADHESIVES			
R 21	WALSCO Fabric Cement.....	\$7.50/gal.	\$5.80/gal.
R 40	WALSCO Plastic Cement.....	6.50/gal.	5.00/gal.
R 50	WALSCO Radio Cement.....	6.50/gal.	5.00/gal.
R 110	WALSCO Rubber Cement.....	7.50/gal.	5.80/gal.
R 150	WALSCO Polystyrene Cement.....	7.50/gal.	5.80/gal.
SOLVENTS & THINNERS			
R 1	For Lacquer No. 120.....	4.00/gal.	3.10/gal.
R 2	For Cement No. R 110 and Wrinkle Varnish No. R 145.....	1.25/gal.	.95/gal.
R 60	For Cements Nos. R 20, R 40, and R 50.....	2.80/gal.	2.15/gal.
R 160	For Cement No. R 150.....	2.50/gal.	1.95/gal.
R 214	Carbon-Tetrachloride.....	3.50/gal.	2.70/gal.
SPECIAL CHEMICALS			
R 22	WALSCOLUB-B.....	1-lb. Cans \$1.50/lb.	5-lb. Cans \$1.20/lb.
R 190	Insulating Varnish.....	1-gal. Cans \$7.90/gal.	5-gal. Cans \$6.25/gal.
POLISHES			
R 410	WALSCO Super Polish.....	2.85/gal.	2.25/gal.
R 414	Scratch-Removing Polish, Dark.....	2.50/gal.	1.95/gal.
R 430	Scratch-Removing Polish, Light.....	2.50/gal.	1.95/gal.
LACQUERS AND FINISHES			
R 120	Crystallizing Lacquer: Black, Green, Grey, Clear, Brown.....	10.00/gal.	8.15/gal.
R 145	Wrinkle Varnish — Air-Dry: Grey or Black.....	9.00/gal.	7.90/gal.


ICA INSULINE ICA

RADIO PRODUCTS


ICA Bakelite Double Phone Plug

- 
- No. List
24B—Black \$.50
24R—Red50
34B—Black barrel only20
34R—Red barrel only20
34P—Plug only40


ICA Midget Phone Plug

- Overall length— $2\frac{1}{4}$ " Diameter of barrel $\frac{1}{8}$ ".
- 
- No. List
29B—Black \$.50
29R—Red50
29P—Plug only40
39B—Black barrel only20
39R—Red barrel only20

ICA Stubby Shielded Phone Plug

- Barrel Measures $\frac{1}{8}$ " diameter x 1" long.
- 
- No. 27 List \$.80
No. 37—Barrel only List \$.45


ICA Midget Shielded Phone Plug

- Diameter of Barrel $\frac{1}{8}$ ". Overall size of Plug $2\frac{1}{4}$ ".
- 
- No. 30 List \$.70
No. 40—Barrel only List \$.40


ICA 3-Wire Microphone Plug

- 
- Has solder connections for cable or microphone use. Barrel molded of bakelite; brass parts, nickel plated.
- No. 1901 List \$1.00


ICA Shielded Double Phone Plug

- Nickel Barrel
Brass Shell
Nickel Plated
- 
- Supplied with fibre insulating tube.
- No. 25 List \$.90
No. 35—Barrel only List \$.50


Wire Connector with Banana Plug Receptacle

- Ideal for quick splicing for testing point.
- 
- No. 1933 List \$.30


ICA Shielded 3-Way Portable

- Microphone Jack
- 
- For all types of microphones. Sturdily constructed of brass parts with phosphor bronze springs. Nickel plated and thoroughly insulated.
- No. 1904 List \$1.50


ICA Bakelite Portable Jacks

- Single Open Circuit
- 
- No. 1911—Overall Size $1\frac{1}{2}$ " Diameter $\frac{3}{8}$ " List \$.70
No. 1903—Portable Jack, black Bakelite barrel List \$1.10


ICA Shielded Portable Jack

- Single Open Circuit
- 
- No. 1913— $2\frac{1}{8}$ " Long, $\frac{1}{8}$ " Diameter List \$1.25


Phone Plug Adapter

- Soldering or wiring not necessary.
- 
- No. 33 List \$.45


ICA De Luxe Phone Jacks

- New Design
Greater Efficiency
- 
- New design. Tension fatigue minimized. — Spring members made of phosphor bronze. Hooked type soldering lugs—Cannot turn or short. For standard $\frac{1}{4}$ " plug.
- No. List
1920—Single Open Circuit..... \$.75
1921—Single Closed Circuit..... .85
1922—Three-Way Microphone Jack 1.10


ICA Phone Jacks

- Smaller type precision made jacks for limited space. Complete with nut and metal washer.
- 
- No. List
1870—Single open circuit..... \$.50
1871—Single closed circuit..... .55
1872—3-way mike jack..... .60

ICA Panel Mounting Jacks

- Small and Compact
- 
- No. List
325—Single Open Circuit..... \$.50
1905—3-Way Microphone Jack75


ICA Insulated Tip Jacks

- With receptacle for standard phone tips.
- 
- No. List
889B—Black \$.15
889R—Red15

Insulated Banana Jacks

- With receptacle for banana plugs.
- No. 888B—Black List \$.15
No. 888R—Red List .15


ICA Bakelite Insulated Tip Jacks

- Moulded of Low-Loss Bakelite
- 
- No. List
1889—Black \$.20
1890—Red20


Bakelite Banana Type Jacks

- No. 1891—Black List \$.20
No. 1892—Red List .20


ICA Combination Banana Plug or Phone Tip Jack

- Made to take banana plug or standard phone tips interchangeably. Insulated cap in black and red — With washers and nuts.
- 
- No. 528R—Red List \$.20
No. 528B—Black List .20


Microphone Connectors

- 
- No. 1929—For use on chassis unit or in microphone. Single contact List \$.30
No. 1930—Closed circuit connector, With spring actuated contact List .40

Microphone Connectors

- 
- Shielded cable type. Single contact.
- No. List
1931—Female connection \$.50
1932—Male connection40

ICA Insulated Binding Posts with Jack for Banana Type Plug

- Length $1\frac{3}{8}$ " overall when top is up. Extends $\frac{5}{8}$ " above panel when top is screwed down. Fitted with 8/32 screw $\frac{1}{8}$ " long, and two hex nuts.
- 
- No. List
622—Red \$.25
623—Black25


ICA All Metal Binding Post

- Designed for high amperage use and where low resistance connections are necessary on test equipment, etc. Nickel plated brass. Dimensions same as No. 617 below.
- 
- No. 620 List \$.20

ICA Bakelite Binding Posts


- $\frac{1}{8}$ " Diameter Head with Brass Threaded insert, Nickel Plated Screw and Knurled nut.
- 
- No. List
617—Red \$.18
618—Black18

ICA Vise-Grip Binding Post

- Engineered on principle of a vise. Can cause no damage to even finest wire strands. Wire hole and designating symbol always in alignment. Two styles.
- 
- No. 630 Series—Has 6/32 Male Threaded Shank List \$.50
No. 690 Series—Has 6/32 Female Thread List \$.50

- | No. | Marking | No. | Marking |
|-----|--------------------|-----|--------------------|
| 630 | ANT | 690 | ANT |
| 631 | GND | 691 | GND |
| 632 | A | 692 | A |
| 633 | G | 693 | G |
| 634 | + | 694 | + |
| 635 | — | 695 | — |
| 636 | Rec. | 696 | Rec. |
| 637 | PLAIN (No Marking) | 697 | PLAIN (No Marking) |


Bakelite Binding Post Heads

- Bakelite Heads only with Brass Threaded Insert for 8/32 Screw.
- 
- No. 628—Red List \$.10
No. 629—Black List .10


Insulated Midget Phone Tip Plug

- Fits all standard jacks. Tip is threaded. Overall length $1\frac{1}{4}$ ".
- 
- No. List
876R—Red \$.15
876B—Black15
- ICA Midget Sharp Point Threaded Phone Tip—Non-Insulated
- No. 365 List \$.15

U. S. Army and Navy Specification Plugs

- Manufactured to meet the very exacting specifications of the U. S. Army Signal Corps and U. S. Navy. Will fit all standard jacks.
- 
- No. P.L. 55—2 Conductor Plug (long) List \$.85
No. P.L. 68—3 Conductor Microphone Plug List \$1.75


ICA Insulated Solderless Plug

- 2" long — fits all standard phone tip jacks.
- 
- No. 885B—Black List \$.18
No. 885R—Red List .18


ICA Sr. Solderless Plugs

- $1\frac{1}{8}$ " overall length.
- 
- No. 358
List \$.10


ICA Jr. Solderless Plugs

- $1\frac{1}{8}$ " overall length. Tip $\frac{1}{4}$ ".
- 
- No. 359
List \$.10


ICA Brass Tip Jacks

- Nickel Plated
- 
- No. 357
List \$.10

ICA Insulated Needle Point Tip Plug

- 886B — Black
List \$.18
886R — Red
List \$.18
- 
- Above with Insulating Sleeve
- No. 341B—Black List \$.10
No. 341R—Red List .10

ICA Split Banana Plugs

- For positive and durable spring action. Allows spring to fit into jack, cannot bend out of shape — Complete with two nuts.
- 
- No. 403 List \$.12

ICA INSULINE ICA

RADIO PRODUCTS

ICA Insulated Solderless Split Banana Plugs



Set screw provided at side of barrel to fasten screw without soldering.

1 1/2" Long
 No. 883B—Black List \$.20
 No. 883R—Red List .20

2 1/2" Long
 With sleeve covering set screws.
 No. 882B—Black List \$.40
 No. 882R—Red List .40

4" Long
 With sleeve covering set screws.
 No. 881B—Black List \$.50
 No. 881R—Red List .50

With Solderless Wire Nut
 No. 434B—Black List \$.20
 No. 434R—Red List .20

ICA Transmitting Banana Jacks

No. 402
 Nickel Plated Brass
 List \$.09



Insulated Spade Lug

Insulated Spade Lug with banana plug receptacle on lead end.



No. 887B—Black List \$.16
 No. 887R—Red List .16
 10 in Standard Carton

Beryllium Banana Plugs



Approved by the Signal Corps and other government agencies. These plugs are used in all government equipment. Made of Beryllium copper and guaranteed for its spring and durability. Threaded plug accommodates 6/32 nuts.



No. 419—Overall size 1 1/4" long. Shank length 1/4" long. Diameter of shank 1/8".

No. 420—Overall size 1 1/4" long; Threaded shank length 3/8" long threaded for 6/32 nuts.

No. 419—Rivet type \$.15
 No. 420—Threaded shank—3/8" \$.25

ICA Spade Lug



Can be used on any size screw or terminal up to size 10. Receptacle fits all I.C.A. and other make Banana Plugs.

No. 879 List \$5.50 C
 100 in Standard Package

Plugs and Jacks



A new line of heavy duty transmitting plugs and jacks. Plug-in type with positive grip contacts. Equipped with heavy insulated threaded heads and handles for safe handling on high R.F. currents. Supplied with large hex nuts for panel mounting.

Handle 1,000 Volts at 10 Amps

No.	List
450—Medium Plug-RED	\$.55
451—Medium Plug-BLACK	.55
452—Medium Jack-RED	.95
453—Medium Jack-BLACK	.95
454—Giant Plug-RED	.75
455—Giant Plug-BLACK	.75
456—Giant Jack-RED	1.15
457—Giant Jack-BLACK	1.15

ICA Alligator Clips

Good firm grip. Ideal for work in tight places. Overall length 2".



No. 364 List \$.10

ICA Alligator Clip with Screw Connection



Good firm bite. Convenient screw connection eliminates the necessity for soldering. Overall length 2".
 No. 376 List \$.12

ICA Insulated Alligator Clips



No. 884B—Black List \$.20
 No. 884R—Red List .20

ICA Insulated Alligator Clip with Phone Tip Jack



Has standard phone tip jack in insulated sleeve. Will accommodate phone tip or solderless plug tips.
 No. 525R—Red List \$.45
 No. 525B—Black List .45

ICA Insulated Combination



Jack Alligator Clip



An insulated alligator clip with a dual purpose Jack in catalin sleeve—Equipped with the new combination Jack which takes either solderless phone tip or Banana plug. Overall length—3 1/4".

No. 520R—Red List \$.50
 No. 520B—Black List .50

ICA SHIELDED 3-WIRE MICROPHONE PLUG

Shielded Nickel Barrel



No. 1900 List \$1.45

ICA SHEARING PUNCHES

Now! No Hammering Necessary to Punch Chassis Holes

Shearing is accomplished with a wrench which forces shear punch into die. Made of High Grade Steel.



No.	Size of Hole	List
723	3/8"	\$4.25
725	3/4"	4.25
724	1"	4.75
726	1 1/8"	5.00
727	1 1/4"	5.00
728	1 3/8"	5.00
729	1 1/2"	5.00
730	1 3/4"	5.50

ICA IMPROVED ALL-PURPOSE CIRCLE CUTTER

Will Cut Holes from 1/2 to 8 Inches

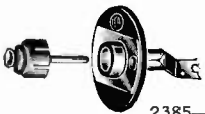
Cutting bar holder is 7/8" in diameter and also accommodates a centering drill or any size pilot pin. Cutting bar is 3/8" square and is arranged to hold a 1/8" high speed cutting bit.



No. 775 List \$6.60

ICA PLUG AND JACK

Used on RCA recording units, receivers and auto sets.



No.	List
2383—Pin Plug	\$.10
2385—Socket & Shield	.15

ICA SQUARE HOLE SHEARING PUNCH

This new punch permits the cutting of any size odd-shape hole (square rectangular, hexagon, oblong, etc.) on any size panel or chassis. Good for Enlarging or punching TRANSFORMER Holes.



No. 790 List \$16.50

REPLACEMENT DRILLS AND CUTTERS

Used as replacement on ICA No. 775 and No. 780 circle cutters as well as on other make cutters.

No. 776—Replacement drill for No. 775 Circle Cutter
 List \$.60

No. 777—Replacement cutter for No. 775 Circle Cutter
 List .85

No. 781—Replacement drill for No. 780 Circle Cutter
 List .60

No. 782—Replacement cutter for No. 780 Circle Cutter
 List .90



ICA UNIVERSAL MULTI-PURPOSE CUTTING TOOL

This handy tool can be used for counter-sinking, beading, drilling or cutting holes. Equipped with 3/8" drill for holes from 1/8" diameter up to 3" diameter. Can be used either in drill press or hand brace. Also acts as a boring tool when used in a lathe.

No. 780 List \$4.00

ICA RIVET AND EYELET PUNCH SET



A Universal Tool that can be used for either riveting or eyeletting. Holder is made of cast iron with hexagonal sides, thus permitting the tool to be placed in a vise without slipping.

No. 785—Complete with ample assortment of eyelets and rivets.

List \$4.00

RIVET AND EYELET ASSORTMENT

Additional eyelets and rivets can be purchased separately.

No. 5265—(Assortment of 100)..... List \$.80

RIVET & EYELET SETTING TOOL



No. 786 List \$.90

ICA INSULINE RADIO PRODUCTS ICA

ICA SOLDERING IRONS



ICA Highest Quality Soldering Irons are "Best By Test". Each model is submitted to the most severe tests and results prove conclusively that ICA irons are equal, if not superior, to any soldering iron on the market today.

60 WATT IRON

No. 1960-A—105-120 Volts List \$5.00
No. 1963—220 Volts List 5.00

85 WATT IRON

No. 1962-A—105-120 Volts List \$6.50
No. 1964—220 Volts List 6.50

115 WATT IRON

No. 1961-A—105-120 Volts List \$7.50
No. 1965—220 Volts List 7.50

REPLACEMENT ELEMENTS FOR ICA SOLDERING IRONS

Due to the construction of the ICA Soldering Irons, burnt out elements can be easily removed and replaced by anyone.



105-120 Volts			220 Volts		
No.	Watts	List	No.	Watts	List
1985	60	\$3.00	1990	60	\$3.00
1986	85	3.50	1991	85	3.50
1987	115	3.50	1992	115	3.50

REPLACEMENT TIPS

For ICA Soldering Irons



Available in All Sizes

Made of a special copper alloy. Electrolytically pure. For replacement in ICA Soldering Irons. Can also be used in American Beauty and irons of similar construction.

No.	Watts	Tips	Diam.	Length	List
1970	60	Flat	3/8"	3"	\$6.00
1972	85	Point	3/8"	3 1/2"	.80
1971	115	Point	7/8"	3 1/2"	1.00

ICA UNBREAKABLE "TURN-TITE" SOCKET WRENCHES



7" long. Handle is of ribbed shockproof unbreakable material.

No.	Socket	List	No.	Socket	List
940	3/8"	\$.95	944	3/8"	\$.95
941	1/2"	.95	945	7/8"	.95
942	5/8"	.95	946	1 1/2"	.95
943	1 1/8"	.95	949	Set of 7 wrenches as above	6.65

ICA UNBREAKABLE VOLUME CONTROL WRENCH



Socket is 3/8" diameter.

No. 937 List \$1.75

ICA "TURN-TITE" SOCKET WRENCHES

HOLLOW SHAFTS



Made of hardened steel, cadmium plated, with sturdy Black japanned wood handles.

6 Inches Long		9 Inches Long	
No.	List	No.	List
898—3/8"	\$.45	900—3/8"	\$.55
890—1/4"	.45	894—1/4"	.55
891—5/16"	.45	895—5/16"	.55
892—3/8"	.45	896—3/8"	.55
893—1/2"	.45	897—1/2"	.55
899—1/2"	.45	901—1/2"	.55
910—Set of 6		911—Set of 6	

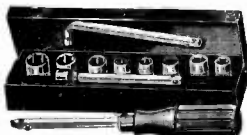
ICA FLEXIBLE SOCKET WRENCH



Especially designed for hard-to-reach spots. Can actually be used around corners or under obstructing objects.

No. 913—1/4" Hex List \$1.50
No. 914—1/8" Hex List 1.50

ICA LOCK SOCKET WRENCH AND SCREW DRIVER SET



The all-purpose socket wrench, packed in neat, enameled steel case. Includes sturdy 6 1/2" Wood Grip Screw Driver—4" L Handle—3 3/4" Extension Adaptor, 1/4", 5/16", 3/8", 7/16" and 1/2" Hex—3/8" Round Knurled Socket—1/4" and 5/16" Square Sockets.

No. 999 List \$2.75

ICA AMBER COLORED UNBREAKABLE MIDGET SCREW DRIVER



Particularly shaped to fit into set screws of knobs. No. 1013 has convenient pocket clip. No. 1013—4 3/4" length List \$.25
No. 1017—7" length List .75

ICA FLEXIBLE SCREW DRIVER

For the Hard to Reach Spots



Allows access to screws in hard to reach and out of the way places. Can go under objects or around corners.

No. 935 List \$2.00

ICA COMPLETE NEUTRALIZING TOOL KIT



The kit consists of one of each of the following ICA tools, described herein:—Nos. 882, 1008, 987, 1015, 977, 996, 992, 985, 990, 1024, 1019, 1026, 1022, 1002, 1013, 1028, 1039, 1029, 1033, 935, 937.

No. 995—Kit, Complete with Carrying Case List \$20.00

ICA UTILITY NEUTRALIZING AND ALIGNING TOOL KIT



A handy Service Man's Kit containing carefully selected tools suitable for varied uses. Packed in vest pocket leatherette case.

No. 997 List \$3.00

ICA NEUTRALIZING AND ALIGNING TOOL KIT

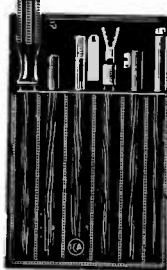
The Kit consists of twelve separate and distinct parts, some of which can be employed for several operations. These units telescope into each other, forming four separate tools when assembled.

No. 998 List \$6.50
Complete with Carrying Case



ICA DE LUXE NEUTRALIZING AND ALIGNING TOOL KIT

Complete for Every Service Need



Consists of fourteen tools, most of which telescope into one another, forming six units when assembled into the attractive black leatherette case. The complete kit in carrying case can be kept in the pocket. Tools complete with carrying case.

No. 994 List \$7.50

ICA NEUTRALIZING AND ALIGNMENT TOOL KIT — SIGNAL CORPS No. TE45-A

ICA Catalog No. 993



This versatile kit, designed for and used by the Signal Corps, is also strongly recommended for general service use. Compact, and contained in a handsome leatherette case, this kit consists of the following:

- | | |
|--------------------------|---|
| 1—No. 935 Screw Driver | 1—Bone Fibre No. 1015 Neutralizing Tool |
| 1—5" Screw Driver | 2—No. 980—Hex Tools, 1/4" I.D. |
| 1—Insulated Screw Driver | 2—No. 981—Hex Tools, 5/16" I.D. |
- No. 993 List \$6.75

ICA DIAL CABLE ADJUSTER



Handy aid to replacing slipped-off dial cable over drive drum. Permits easy manipulation in cramped places.

No. 437 List \$.75

ICA 4-in-1 NEUTRALIZING TOOLS, SCREW DRIVER AND WRENCH

Made of Fenoline Fully Insulated



No. 1019—Complete List \$.85

ICA 5-IN-1 NEUTRALIZING AND COMPENSATING TOOL

Same features as the 4-in-1 tool described above with an additional all metal screw driver.



No. 1022 List \$1.35

ICA INSULINE ICA

RADIO PRODUCTS

ICA ALIGNMENT WRENCH

For RCA, Philco, etc.



Used on all makes Air Trimmer. Made of 1/2" Fenoline Rod—8 1/2" long—one end has hollow shaft hexagon wrench—other end has an especially shaped hook.
No. 1008.....List \$1.50

ICA BALANCING TOOL



Fits into No. 1019 Neutralizing Tool.
No. 1026.....List \$.50

INSULATED NEUTRALIZING WRENCHES



Hexed—Full Length

For Philco, Majestic and Other Receivers

3/8" Diameter

No. 985—6" long.....List \$2.25
No. 986—8" long.....List .35
No. 980—5" long.....List .25
No. 981—5" long, 7/16" dia.....List .30

ICA Alignment Tool for Philco Receivers

For Air Trimmer Sets



Has specially designed metal clip for air trimmers. Made of narrow fibre rod, 3/32" diam. by 6" long.
No. 1033.....List \$.60

ICA Insulated Adjustable Neutralizing Tools



Absolutely no metal parts. Screw driver slides into inside of neutralizing wrench.
No. 990—Extending from 6 to 10".....List \$.90
No. 991—Extending from 12 to 16".....List 1.00

ICA NEUTRALIZING AND ALIGNING TOOL



U. S. Army No. TL138A — ICA No. 1011 Used for general radio tuning and aligning. Approved by U. S. Army and Navy.
No. 1011.....List \$1.00

ICA NEUTRALIZING AND ALIGNING TOOL



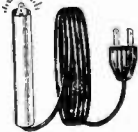
Machined of bakelite rod 9/32 inch diameter. Designed for Western Electric Co. Approved by U. S. Army and Navy.
No. 1006.....List \$1.25

ICA ALL PURPOSE ALIGNING TOOL



Handle is of 3/8" Fenoline. End has Socket Screw Driver for neutralizing all iron core tuning systems.
No. 1002.....List \$.75

ICA TEST-LITE



Provides a steady, bright light—without annoying flickering—for dark, narrow spaces around chassis, cabinets, etc. Plugs into any AC-DC socket, 105-125 volt., 4 1/2 ft. cord.
Includes standard 6 volt lamp, No. 47, .15 amp., and plug complete.
No. 938.....List \$1.50

ICA Neutralizing Tools with Metal Nibs

Patent No. U.S. 83,321. Sturdy, unbreakable, will outlast all other type neutralizing tools.
No. 996.....List \$1.50

ICA BONE FIBRE SCREW DRIVER



Of 1/8" bone fibre rod with a sturdy blade.
No. 1029.....List \$.70

ICA BONE FIBRE SCREW DRIVER



Double Edged—No Metal—Fully Insulated Made of 1/4" Bone Fibre Rod
No. 1039.....List \$.40

ICA NEUTRALIZING TOOL

For Push Button Tuners



The Socket is 3/4" in diameter, and contains a screw driver blade.
No. 1003.....List \$.75

ICA SET TRIMMER NEUTRALIZING TOOLS

For Philco, Zenith, RCA, etc.



Fits the smallest size trimmer condensers. Trimmer end is 3/32" diam. to fit 1/4" hole.
No. 992—6" long.....List \$1.00
No. 933—10" long.....List 1.25

ICA NARROW SHAFT ALIGNMENT TOOL



RCA—Zenith—etc. 3/32" Bakelite Shaft
No. 987.....List \$.85

ICA ALIGNMENT TOOLS

For RCA Receivers



Narrow shaft Neutralizing Tools made of Bone Fibre—3/32" wide. Has screw nib inserted in Brass Collar on end.
No. 1015.....List \$.75

ICA MAGIC TUNING ALIGNMENT TOOL

Consists of a Bakelite rod with a Brass cylinder at one end, and a special finely divided iron core at the other end.
No. 977.....List \$1.00

ICA FORK TYPE NEUTRALIZING WRENCH and SCREW DRIVER

For RCA and Other Sets



No. 1024.....List \$.50

ICA Fenoline Neutralizing Screw Drivers



Made of Fenoline. Strong and sturdy. Completely insulated for neutralizing and aligning coils, condensers, receivers, etc.
No. 1028.....List \$.40

ICA ALL-PURPOSE TEST LEAD KIT

Complete For Every Testing Need

Equipped with one pair of test leads which have 48" of red and black kinkless live rubber wire. One end has insulated removable banana-type plugs.

Included in this test kit:
1 pr. test leads.
1 pr. insulated alligator clips—red and black.
1 pr. insulated spade lugs—red and black.
1 pr. insulated needle points—red and black.
No. 1005—Kit, complete
List \$3.50



ICA PHONO-NEEDLE POINT TEST LEADS

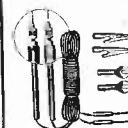
With Slim Handles and Flexible Wire

Flexible rubber-covered, kinkless wire, 48" long. Tenite handles 4" long.

No. List
382—With Phone Tips.....\$.90
381—With Spade Terminals......90
379—With Alligator Clips.....1.10



ICA DE LUXE EXTRA-FLEXIBLE TEST LEADS

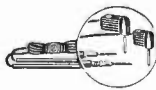


Slim Handles & Solderless Plugs
48" Extra-Flexible Test Leads with 4" Tenite handles. New non-kinking, rubber insulated wire.
No. List
355—With Phone Tips.....\$.90
356—With Spade Terminals......90

ICA PENCIL TYPE TEST LEADS

Finger-Grip Molded Tips

All connections are properly soldered providing low resistance connections vital in all precision tests. The Molded Finger Grip Tips are provided with rivets for easy removal of wire. Length of test leads is 48". Handles are 5" long.
No. 373.....List \$1.75



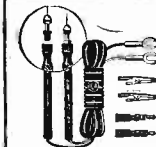
NEW ICA SLIM-LINE TEST LEADS

Long vinyl-insulated shaft permits probing in closely wired circuits without fear of shorting. Black and red Tenite handles. 48" wire lead. With molded phone tip plug.
No. 438.....List \$1.50 Pr.



ICA HEAVY DUTY LABORATORY TEST LEADS

Long Slim Handles and Removable Phono Needle Chuck Extra long slim red and black handles knurled at end for finger grip ease. Handles 6" long, 50" of heavy duty kinkless, flexible rubber wire.
No. List
400—With knurled grip handle, Insulated solderless plug.....\$1.65
388—With alligator clip.....1.50
391—With spade lugs.....1.40
392—With non insulated phone tips.....1.40



ICA Slim Handle Test Leads

Made of sturdy Tenite Handles. 50" of Kinkless Live Rubber wire. Handles 6" Long—Overall Length 7". Prods have pointed large phone tip plugs.
No. List
313—Phone Tips on end.....\$1.25
314—Spade Lugs on end.....1.25
315—Alligator Clips on end.....1.40



ICA UNBREAKABLE TEST PRODS

Long Metal Prod with Shock-proof Rubber Handles One end has standard needle point Tips. Other end has Insulated Solderless Plugs. Supplied with 50" Kinkless Rubber Wire.

No. 332—With Phone Tips Non Insulated, List \$1.00
No. 331—Insulated Solderless Plug Ends.....List \$1.15



ICA INSULINE ICA

RADIO PRODUCTS



ICA ALL PURPOSE TEST LEADS

Made of sturdy Tenite Tubing. Slim handles, 6" long. Overall length 7 1/4". Rubber covered wire 50" long.

With Interchangeable Tips
 No. 312—Complete Kit List \$2.50

NON-KINK FLEXIBLE TEST LEAD WIRE

Flexible rubber covered wire that will not kink or wear down in service. Consists of very fine tinned stranded copper wire with a heavy wall of live rubber insulation.



No. 307—100 ft. spool, Black..... List \$4.00
 No. 309—100 ft. spool, Red..... List 4.00

ICA FENOLINE PHONO. NEEDLE POINT TEST PRODS With Removable Chuck



5 Inch Test Prod
 No. 389R—Red List \$.40
 No. 389B—Black List .40
 7 Inch Test Prod
 No. 334R—Red List .40
 No. 334B—Black List .40

ICA SOLDERLESS PLUG TEST PRODS With Solderless Plug Chuck



5 1/4 Inch Long Prods
 No. 390R—Red List \$.40
 No. 390B—Black List .40
 7 1/4 Inch Long Prods
 No. 335R—Red List .50
 No. 335B—Black List .50

HIGH VOLTAGE ICA HEAVY-DUTY BAKELITE TEST PROD HANDLES



No. 480—Black Bakelite List \$1.15

HIGH VOLTAGE HEAVY-DUTY BAKELITE TEST PRODS

Measures 2" overall



No. 485—Black Bakelite List \$.55

ICA HEAVY-DUTY TEST PRODS



Slim tapped Tenite handle fitted with threaded heavy-duty phone tip. Length 5".

No. 387R—Red List \$.50
 No. 387B—Black List .50

Latest Television Servicing Tools

ICA SAFE-T-TESTER

A new, unique, non-short-ing prod that makes contact only when pressure is applied to barrel. Ideal for cramped spaces where probing is necessary. Specially applicable to television needs.



No. 446..... List \$1.50

TRAN-ALIGNER



Newly designed all-insulated aligning tool for standard IF and RF and "K-Tran" midjet transformers. Trim fiber; milled at one end, screw driver at other end. 2 1/2" length blade; 6" overall.

No. 978..... List \$.75 each

SLIM-ALIGNER



Alignment tool with extra thin recessed blade and slim metal shaft for cramped probing in television receivers. Fiber handle. Especially suitable for "Admiral" and similar make television sets.

No. 6161..... List \$1.00 each

STUB ALIGNER

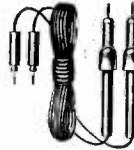


Ideal when cramped space demands short insulated tuning tool. Exposed nib for screw driver type controls not carrying high voltages. Tough fibre. Length: 2 1/2" x 1/4" diameter.

No. 6155..... List \$.40 each

HEAVY DUTY TEST LEADS

Engineered for TV's high voltage measurements. Insulated to withstand 15,000 volts D.C. Thick-walled bakelite handles with finger guards. 48" heavy duty cable.



No. 4317..... \$3 per pair Dealer Net

TUNING WAND



Extra thin diameter to fit small coil openings in television sets. Flexible vinylite. Brass insert in one end; molded powdered iron core in other end. Lowers or increases inductance. Suitable for "Zenith," etc., TV sets.

No. 6163..... List \$1.00 each

DEEP-NIB ALIGNER



Tough fibre. Metal nib entirely insulated and set within barrel end. For tuning IF and RF shielded coils and trimmers. Small enough to fit under television tubes without removing. Length: 2 1/2" x 1/4" diameter.

No. 6156..... List \$.50 each

TELEVISION "CHANNEL TUNER"



A narrow all-insulated screw driver of machined fiber. Ideal for deep, inaccessible tuning. Overall: 7" Length. 1/8" blade on 4 1/2" shaft.

No. 6157..... List \$.75 each

RF AND SIGNAL TRACER PROBE

Germanium Crystal Circuit. Assures accurate analysis of circuit defects. May be used with audio amplifier for audible tracing or with V.T.V.M. for RF and AF measurements. Low input capacitance. The ideal probe for the audio section of television circuits. The sturdy bakelite barrel has sealed tenite ends with solderless phone tip and includes 48" RG59/U coaxial cable with phone plug and 18" rubber covered ground lead with alligator clip.



No. 4310..... \$7.50 Dealer Net

"BIG STRETCH" ALIGNER



Extra thin, extra long (9"), bone fibre aligning tool, 6 1/2" blade. Specially designed for adjustment of nested iron cores of "Admiral," "Zenith" and similar make TV sets. Permits use on RCA front ends and normally inaccessible areas.

No. 6162..... List \$1.00 each

TUNING WRENCH



Insulated fibre tuning wrench with extra thin recessed blade. Extra thin screw driver blade on other end (4 3/4" L.). Tenite handle. Especially designed for "Zenith" TV sets, etc.

No. 6164..... List \$.75 each

DUAL ALIGNER



Dual purpose narrow shaft, fibre alignment tool for trimmers, IF transformers, etc. Recessed screw nib on one end; metal screw driver on other end.

No. 6166..... List \$.75 each

ICA INSULINE ICA

RADIO PRODUCTS

ICA GRIP-RITE MOLDED PHONE TIP PLUG



Replacement for ICA and Weston — as well as other make Test Leads.

No.	List
868—Red	\$.50
869—Black	.50

ICA PHONO NEEDLE CHUCKS

Push' on type can be forced into handles — Threaded type can be screwed into handles. Machined of brass, nickel plated with needle point.



No.	List
508—Push-on Type, Overall size 1"	\$.15
509—Threaded Type, Overall size 1"	.18

HEAVY-DUTY PHONE TIP

Made of high quality heavy brass with nickel plated finish. Used on test leads, prods, etc. (Overall length is 1 1/2")

No. 361—Heavy-Duty	List \$.13
No. 360—Standard	List 2.00C

ICA CHROME SILVER DIAL PLATES

2 3/4" and 4" diameter. Two types, calibrated 180 degrees 0-100 and 325 degrees, 0-100.



No.	Degrees	Dial	Calib.	List
2196	325	2 3/4"	0-100	\$1.15
2197	180	2 3/4"	0-100	1.15
2194	325	4"	0-100	1.40
2195	180	4"	0-100	1.40

ICA BRASS BLACK SATIN FINISH DIAL PLATES

With Etched Silver Numerals



No.	Degrees	Dial	Calib.	List
2230	325	3 1/2"	0-100	\$.60
2232	180	3 1/2"	0-100	.60
2233	180	2"	100-0	.45
2234	325	2"	0-100	.45
2236	180	2"	0-100	.45

ICA CHROME SILVER DIALS

With Finger Grip Flange Knobs

Beautiful dial plates accurately Etcho-engraved with black numerals and calibrations.



No.	Size	Degrees	Calibr.	List
2170	3 3/4"	325	0-100	\$2.10
2171	3 3/4"	180	0-100	2.10
2168	4"	325	0-100	2.75
2169	4"	180	0-100	2.75

ICA MINIATURE DIALS

Beautiful Chrome Silver dials with black etched numerals. Finger grip black knob. Only 1 1/8" diameter. Fit 1/4" shafts.



No.	List
2164—10-0-180	\$.85
2165—10-0-270	.85

ICA CHROME SILVER DIAL PLATES

Attractive grain satin finish. Black Etcho Engraving on Chrome Silver Background Plates.

No.	Degrees	Dial	Calib.	List
2294	180	2"	0-100	\$.80
2295	325	2"	0-100	.80
2296	180	3 1/2"	0-100	1.25
2297	325	3 1/2"	0-100	1.25
2298	180	4"	0-100	1.40
2299	325	4"	0-100	1.40

ICA ETCHED DIAL PLATES

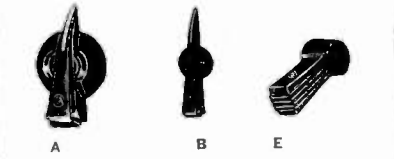
RECTANGULAR TYPES

Made of brass—finished in black with etched silver markings. Calibrated for 300 degree rotation. Marked 0 to 10. Will fit on 3/8" bushing. Size 2 1/4" x 1-11/16".

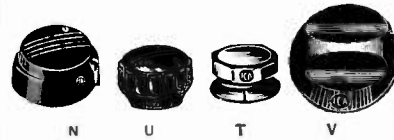
No.	Marking	List
2244	Record	\$.30
2245	Microphone	.30
2246	Gain	.30
2247	Tone	.30
2248	Plain (Calibrated but not worded)	.30



RADIO REPLACEMENT AND INSTRUMENT KNOBS



No.	Type	Color	Size	List
1125	A	Black	1 1/4"	\$.15
1127	A	Red	1 1/4"	.20
1126	B	Black	2 1/4"	.20
1128	B	Red	2"	.24
1153	E	Black	1 3/4"	.30
1154	E	Walnut	1 3/4"	.30



No.	Type	Color	Size	List
248	J	Black	1 1/2"	\$.20
249	J	Black	1 1/2"	.22
1076	K	Walnut	3/4"	.18
1049	L	Walnut	3/8"	.16
1050	L	Walnut	1"	.18
1174	M	Black	3/8"	.20
1089	N	Walnut	3/8"	.18
1090	N	Walnut	1 1/2"	.20
1147	U	Black	7/8"	.18
1148	U	Walnut	7/8"	.18
1077	T	Walnut	7/8"	.15
1078	T	Walnut	7/8"	.18
1272	V	Black	3/4"	.20
1273	V	Walnut	3/4"	.20

ICA KNOB ASSORTMENTS

Walnut Bakelite

JUNIOR ASSORTMENT
No. 1048—50 Knobs. Contains 5 each of 10 popular type knobs listed above.
List \$8.90

MASTER ASSORTMENT
No. 1043—100 Knobs. Contains 12 different type popular knobs including pointer knobs.
List \$17.50



ICA INDICATING PLATES

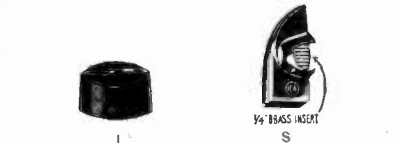
Made of heavy brass with black satin background. Silvered "Etcho Gravured" numerals and lettering. 3/8" center mounting hole. 1 3/8" Diameter.

No.	Degrees	List
2259—Marked 1 to 6	180	\$.35
2450—Marked 1 to 5 (Volume)	325	.35
2451—Marked 1 to 5 (Tone)	325	.35
2452—Marked 1 to 10	325	.35
2453—Marked Off-On—with arrow	325	.35

ICA NAME PLATES

1-INCH ROUND

No.	For	List
No. 2237	For "Microphone"	
No. 2238	For "Phono"	
No. 2239	For "On Off"	List \$2.00



No.	Type	Color	Size	List
1270	F	Black	1 1/2"	\$.25
1271	F	Black	2 1/2"	.30
1137	G	Walnut	5/8" x 3/4"	.18
1138	G	Walnut	3/4" x 1 1/2"	.16
1139	G	Walnut	1" x 3/4"	.18
1087	H	Walnut	1"	.20
1088	H	Black	1"	.20
1133	I	Walnut	3/4" x 3/4"	.16
1134	I	Walnut	1" x 3/8"	.18
1274	S	Black	1 1/2" x 3/8"	.25
1274-S*	S	Black	1 1/2" x 3/8"	.32
1275	S	Black	2" x 3/8"	.28

*With 2 Set Screws.



No.	Type	Color	Size	List
1081	P	Black	7/8"	\$.12
1082	P	Red	7/8"	.12
1084	P	Brown	7/8"	.12
1085	P	White	7/8"	.13
1116	Q	Walnut	7/8"	.18
1117	Q	Walnut	1"	.20
1135	R	Walnut	3/4"	.15
1136	R	Black	3/4"	.18
1310	W	Black	3/4"	.12
1311	W	Walnut	3/4"	.13
1312	W	Ivory	3/4"	.14
1320	W	Black	3/4"	.14
1321	W	Walnut	3/4"	.15
1322	W	Ivory	3/4"	.16
1330	X	Black	3/4"	.14
1331	X	Walnut	3/4"	.15
1332	X	Ivory	3/4"	.16

ICA FINGER-GRIP POINTER KNOBS



Moulded of black bakelite with 1/4" hole. Pointer type knobs have white indicators. Flange type knobs have white indicating line.

With 1/4" Brass Inserts

TYPE A—WITH POINTER			
No. 1166	1 1/4"		List \$6.60
No. 1168	1 1/2"		List .75
No. 1170	2 3/4"		List .95

TYPE A—LESS POINTER			
No. 1165	1 1/4"		List \$4.45
No. 1167	1 1/2"		List .55
No. 1169	2 3/4"		List .75

TYPE B—WITH FLANGE			
No. 1171	2 3/4"		List \$7.75
No. 1172	3"		List .90

NOTE: Above Knobs also furnished with 2 set screws. Order by adding "S" to each number.

ICA VERNIER DIAL MARKER

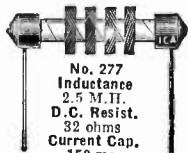


Complete with self-tapping screws for mounting on metal, wood, bakelite or brass panels.

No.	For	List
No. 218a	For 2 3/4"—325° Dials	List \$5.50
No. 2190	For 2 3/4"—180° Dials	List .50
No. 2191	For 1"—325° Dials	List .50
No. 2192	For 1"—180° Dials	List .50

ICA INSULINE ICA

RADIO PRODUCTS



No. 277
Inductance
2.5 M.H.
D.C. Resist.
32 ohms
Current Cap.
150 ma.
List \$3.50

**ICA "Insulex"
R.F. CHOKE
COIL**
Silk Wire
Wound
Supplied
with wire
leads for
mounting.

ICA "INSULEX" R.F. CHOKES



Cat. No.	Inductance	D.C. Resis.	Current Cap.	List
1777	2.5	30	150	\$.60
1775	5.5	57	150	.75
1774	10	73	150	.80
1772	30	136	125	.90
1773	60	196	125	1.15
1771	80	222	125	1.25



IRON CORE HIGH "Q" R.F. CHOKES

No.	Ind. M.H.	D.C. Res. ohms	List
6200	2.5	17	\$1.20
6201	3.5	22	1.30
6202	5.5	28	1.35
6203	10	55	1.35
6204	30	83	1.60
6205	60	142	1.95
6206	80	168	2.10
6207	125	214	2.60



ICA TRANSMITTING R.F. CHOKES

Tapered Sections

Wound on Insulex low-loss core. Has a continuous universal winding in five tapered sections. Designed for maximum impedance in amateur bands from 160 meters downward.

No.	Ind. M.H.	Cur. Ma.	Res. Ohms	List
266	2.8	1000	5	\$2.75
267	5.3	600	12.5	2.50

HEAVY DUTY TRANSMITTING CHOKES



No.	Ind. M.H.	Cur. Ma.	D.C. Res. Ohms	List
280	2.5	1000	5	\$2.50
278	5.6	600	12	2.25

INSULEX INSULATORS

Made of WHITE Glazed Insulex. This new line of insulators meets the demand for a perfect, non-porous low loss product. Used by broadcasters, amateurs, experimenters and set-builders. All feed-thru have cork washers.

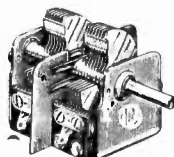


No.	Description	Ht.	Base Size	Mtg. Hole	List
2300	Little Pete	1"	1/2" x 7/8"	1/8"	\$.12
2301	Junior Pete	1 1/8"	3/4" x 1 1/4"	1/8"	.15
2302	Big Pete	1 1/2"	1" x 1 1/2"	1/8"	.18
2303	Beehive	2 3/8"	2" Diam.	1/8"	.25
2304	Jack Type	1 1/2"	1" x 1 1/2"	1/8"	.25

FEED-THRU INSULATORS

No.	Description	Ht.	Base Diam.	Mtg. Hole	List
2305	Sub-Panel	1 3/8"	5/8"	1/8"	\$.20
2306	Sub-Panel	2"	3/4"	3/8"	.25
2307	Sub-Panel	2 3/4"	7/8"	1/2"	.28
2334	Large	4"	1 1/2"	5/8"	.70
2320	Jack Type	1 3/8"	3/4"	1/8"	.35
2321	Jack Type	2 3/8"	7/8"	1/8"	.40

ICA MIDGET PRECISION CONDENSERS



Better mechanical design insures constancy of calibration and uniformity between units. Ball-bearings on both ends of shaft insure long life without wear or side play. Heavy brass springs make direct contact with rotor shaft, insuring a clean wiping contact at all times.

No.	Single Gang Condenser	List
533	135 mmfd.	\$3.00
542	365 mmfd.	3.00

No.	Two Gang Condenser	List
538	135 mmfd.	3.50
534	365 mmfd.	3.50

No.	Three Gang Condenser	List
532	135 mmfd.	4.50
531	365 mmfd.	4.50

SUPERHETERODYNE TYPE

Designed for 455KC IF. RF section is 27 plates; 435 Mmfd. Oscillator Section is 19 plates; 173 Mmfd. Measurements similar to two gang condensers shown above.

No. 545..... List \$3.50

ICA CERAMIC PADDING CONDENSERS



Compact, yet rugged Padding Condensers. Designed for aligning tandem condensers, short wave band switch coils, antenna trimmers, etc. Uses high grade Mica and Phosphor Bronze Spring contacts.

No.	Min. Cap.	Max. Cap.	List
611	4.0 mmfd.	40 mmfd.	\$.50
612	12.0 mmfd.	100 mmfd.	.50
613	70.0 mmfd.	350 mmfd.	.55
614	160.0 mmfd.	600 mmfd.	.55

GIANT INSULEX INSULATORS

Heavy Duty—Will Withstand 10,000 Volts

No.	Description	Ht.	Base Diam.	Mtg. Hole	List
*2330	Stand Off	4 1/2"	3 1/2"	1/4"	\$.95
**2331	Stand Off	4 1/2"	3 1/2"	1/2"	.90
*2332	Feed thru	4"	2"	7/8"	.95
**2333	Feed thru	4"	2"	7/8"	.90

*With Wing Nuts **With Screws and Nuts

ICA AIRCRAFT TYPE INSULATOR

A strain insulator made of Insulex. Particularly adaptable for aircraft, automobile and boat installation. Two 1/4" mounting holes. Distance between holes 3/4".



No. 2325..... List \$1.12

CERAMIC RODS

Made of Alsmag. Suitable for mounting insulators, condensers, coils, etc.

Available in two lengths.

No.	Lgth.	Dia.	Tap.	List
2310	1 1/4"	1/2"	6-32	\$.28
2311	3 1/4"	1/2"	6-32	.40



ICA BASE-MOUNTING BAKELITE SOCKETS



No.	List
2480—4 Prong	\$.45
2481—5 Prong	.50
2482—6 Prong	.55
2483—7 Prong comb. large and small	.60
2489—8 Prong OCTAL	.65
2490—Contact for above Sockets	\$2.50C



ICA "INSULEX" BASE MOUNTING SOCKETS

Especially adapted for ultra short-wave work and transmitters.

No.	List
290—4 Prong	\$.90
291—5 Prong	.90
292—6 Prong	1.00
294—Comb. 7 Prong, large and small	1.00
300—8 Prong OCTAL	1.00

BAKELITE WAFER SOCKETS



Wafer socket of punched bakelite for miniature seven pin button base tubes. Phosphor bronze contacts. Standard mounting centers.

No. 1122..... List \$1.15

BAKELITE WAFER SOCKET

Similar to No. 1122 above but with grounding strap.

No. 1124..... List \$1.17

ICA "INSULEX" WAFER SOCKETS



An ideal low loss socket designed for ultra high frequency reception.

No.	List
2600—4 Prong	\$.50
2601—5 Prong	.50
2602—6 Prong	.55
2603—7 Prong, large	.60
2604—7 Prong, small	.60
2605—8 Prong OCTAL for new metal tubes	.65
2636—Contact for above Sockets	\$5.00C



ICA BAKELITE WAFER SOCKETS

No.	List
1118—4 Prong	\$.13
1096—5 Prong	.13
1095—6 Prong	.13
1119—7 Prong, small	.13
1120—7 Prong, large	.15
1121—8 Prong OCTAL	.15
1123—Loktal Wafer	.16

CERAMIC BEAD INSULATORS



3/8" Diam.

Used for construction of short concentric link lines.

No. 2315—(100 beads)..... List \$1.25

ICA INSULINE RADIO PRODUCTS ICA

ACORN TUBE WAFER SOCKET



Of Navy approved ceramic with silver plated contacts. Can be easily inserted and removed and no amount of vibration will cause the tube to become loose.

No. 961 List \$1.00
No. 2466—Contact only \$2.50C

ICA ROTARY SWITCHES

Rated 3 Amps. at 125 Volts. Overall Length of shafts 1 1/2". Made by H & H for ICA. Underwriters Approved.



No.	Threaded Shank	Description	List
1228*	3/8"	S.P.S.T.	\$.55
1229*	1"	S.P.S.T.	.65
1286	3/8"	S.P.D.T.	.75
1287	1"	S.P.D.T.	.90
1288	3/8"	D.P.D.T.	1.30
1289	1"	D.P.D.T.	1.45

*Rated 30 Amps. at 250 V.

MOLDED BAKELITE SOCKET

For Miniature Tubes
Black molded general purpose bakelite with mounting saddle.



Standard mounting centers. Phosphor bronze contacts.

No. 2475 List \$2.20
Same as above but mica filled.

ICA TOGGLE SWITCHES

Furnished in Nickel or Antique Bronze. Capacity 1 Amp. 250 Volts. 3 Amps. 125 Volts. Mfd. by H & H for ICA.



No.	Shank Length	Description	Finish	Net
1230	3/8"	S.P.S.T.	Nickel	\$.50
1232	3/8"	S.P.S.T.	Bronze	.55
1233	3/8"	S.P.S.T.	Bronze	.60
1235	3/8"	S.P.S.T.	Nickel	.55
1236	3/8"	S.P.D.T.	Nickel	.65
1237	3/8"	S.P.D.T.	Nickel	.75
1238	3/8"	D.P.S.T.	Nickel	.95
1365	3/8"	D.P.D.T.	Nickel	1.10
1366	3/8"	D.P.D.T.	Nickel	1.15

ICA MOLDED BAKELITE SNAP-ON SOCKETS



Octal—Loktal
Mounted in cadmium plated steel "Saddle." Equipped with 4 grounding lugs on saddle—Positive grip contacts.

No. 2470—Octal Socket List \$.15
Mtg Center 1 1/2"—Chassis Hole 1 1/8"
No. 2471—Loktal Socket List \$.20
Mtg Center 1 1/8"—Chassis Hole 1"

BAT-HANDLE TOGGLE SWITCH

Made by H & H. Identical to toggle switches listed above, except that handle is longer and shaped like a baseball bat.



Less on and off plate.
Nickel plated only—7/16" shank.
Packed 5 in a standard carton.

No.	Description	List
1296—S.P.S.T.	\$.50
1297—S.P.D.T.70
1298—D.P.S.T.95
1299—D.P.D.T.	1.10

ICA BAKELITE KNIFE SWITCHES

Hardware of brass, heavily nickel-plated. Mounted on highly polished bases of black BAKELITE. Firm contact assured.



No.	Description	List	No.	Description	List
1216	S.P.S.T.	\$.85	1220	3 P.D.T.	\$2.00
1217	S.P.D.T.	1.00	1221	4 P.S.T.	2.50
1218	D.P.S.T.	1.15	1222	4 P.D.T.	3.00
1219	D.P.D.T.	1.35	1364	5 P.D.T.	3.50
1360	3 P.S.T.	1.85			

ICA SLIDER SWITCHES

SMALL COMPACT. Switch dimensions: 1 1/2" x 1/2" x 1/4". S.P.S.T. includes chrome mounting plate.



No.	Description	List
1255	S.P.S.T.	\$.35
1259	S.P.D.T.	.40
1260	D.P.D.T.	.50
1264	D.P.S.T.	.45

MINIATURE BAKELITE SWITCHES

Can be mounted on panel or base. Black Bakelite base—highly nickel-plated brass parts with insulated handles.

No.	Description	Base Size	List
2223	S.P.S.T.	1 1/4" x 1/2"	\$.35
2224	S.P.D.T.	1 1/4" x 1/2"	.60
2225	D.P.D.T.	1 1/4" x 1"	.75
2226	D.P.S.T.	1 1/4" x 1"	.70



ICA HI-POWER SWITCH

Push Button Type



Designed to break primary circuit when rack door is open. D.P.S.T. Made by H & H for ICA. Capacity 12 Amp. 125 Volt. Overall size 1 1/2" long. 3/4" wide. 7/16" high. 7/16" shank.

ICA PUSH BUTTON SWITCH

Single pole 2 circuit momentary switch. One circuit is "ON"; other normally "OFF." One Amp. 125 Volt, made by H & H for ICA. Shank 5/8" long.



No. 1280 List \$2.25
No. 1282 List \$.95

ICA EXTRA HEAVY DUTY SWITCH

D.P.D.T. With Neutral Center



An extra large heavy duty, Double Pole, Double Throw Switch with neutral position in the center for use in heavy current circuits such as transmitters, power amplifiers, motors, etc. Contacts have fast "break" which reduces the tendency to arc. Rated at 10 Amps, 125 Volts. Size of switch case, 2 1/8" long, 1" high, 1 1/4" wide. Mounting sleeve diameter 3/4".

No. 1283 List \$5.50

"ON-OFF" PLATE

For Toggle Switch



Nickel Plated
No. 1300 List \$0.4
Antique Bronze
No. 1300BR List \$0.50

ICA POWER SWITCH

(Toggle Type)

Characteristics and dimensions same as No. 1280 described above.
No. 1281
List \$1.50



ICA ROTARY CANOPY SWITCH

Single pole switch 1/4" shank with brown bakelite knob and 6" leads—1 ampere—250 volts.

No. 1257 List \$.50



GT AND GT/G TYPE TUBE SHIELDS

Latest type seamless, drawn shell type. Length 2 1/4".



No.	For Tube Diam.	List
1744—Open top*	1.218"	\$.15
1745—Closed top*	1.218"	.15
1746—Open top**	1.165"	.15
1747—Closed top**†	1.165"	.15

*For GT and GT/G tubes with large metal base.
**For GT tubes with small metal base.
†For Loktal tubes.

ICA 807 TUBE SHIELD



For use with Transmitter Pentodes, and Tetrodes, to prevent oscillation. Can also be used on RK 20, RK 39 and 804 tubes.
No. List
1545 \$6.00

ICA GRID CAP SHIELDS

(For Metal Tubes)



Fits firmly over grid cap, affording complete shielding. Slotted cap permits passage of grid wire.

No.	List
1552	\$0.10
1558—With Bakelite Insert	.20

ICA COIL SHIELDS

With Detachable Base

A sturdy coil shield made of aluminum with a detachable base.

No.	List
1539—2 1/8" x 3" High	\$.60
1540—2 1/2" x 3 1/2" High	.70
1549—3" x 3 1/2" High	.75



FORM FIT TUBE SHIELDS



A tube shield that assures a snug, positive fit. Vertical grooves provide flexibility. Includes ground clip as illustrated. Protects tubes against excessive vibration.

No. 1727B—For GT; GT/G and Loktal tubes.
Length 2 1/2" List \$1.15

No. 1729B—For GT and GT/G tubes.
Length 2 3/4" List \$1.15

ICA ALUMINUM TUBE SHIELD

For 55, 57, 68, etc. type tubes



No.	List
1708—1 1/8" mounting centers	\$.40
1709—1 1/2" mounting centers	.40

ICA INSULINE ICA

RADIO PRODUCTS

ICA SHAFT COUPLINGS AND EXTENSION RODS



Brass Couplings and Reducers

No.	Length	Hole	O.D.	List
2105	3/4"	1/4" coupler	1/2"	\$.20
2106	3/4"	3/8" coupler	5/8"	.20
2107	3/4"	1/2" coupler	3/4"	.20
2111	1 1/8"	1/4" to 1/4" shaft	1/2"	.20
2112	1 1/8"	1/4" to 3/8" shaft	5/8"	.20
2113	1 1/8"	3/8" to 1/2" shaft	3/4"	.20

ICA Fenoline Couplings and Reducers

No.	Length	Hole	O.D.	List
2116	3/4"	1/4" coupler	1/2"	\$.20
2109	3/4"	3/8" coupler	5/8"	.20
2110	1 1/8"	1/4" shaft	1/2"	.20

Long Extension Couplings

Made of Brass with extra long extension

No.	Length	I.D.	O.D.	List
2123	1 3/4"	1/4"	1/2"	\$.25

ALUMINUM IDLER PULLEYS



Precision made. Distortion free non-warping. Permits closer tolerances. Supplied in any quantity in any type—with or without shoulders. Listed are typical sizes without shoulders, hole diam., .125".

No.	O.D.	Cord Diam.	List
601	3/8"	1/4"	\$2.00
602	7/8"	1/2"	2.20C
603	1 1/2"	3/4"	2.30C
604	2 1/4"	1"	2.50C
605	3 1/4"	1 1/4"	3.00C

BAKELITE AND FENOLINE TUBING

ICA tubing is strong mechanically, has extremely low electrical absorption and is highly resistant to moisture. Absolute perfection in winding of coils is assured by the use of ICA tubing—thus affording relief from complaints or failure in performance.

Finished in Natural and Black Colors
Small sizes up to one inch in Black only.
1/8" Wall Thickness, Full Lengths.
Approximately 36 to 48"

BAKELITE			FENOLINE		
No.	O.D.	Per Ft.	No.	O.D.	Per Ft.
100	1/4"	\$.95	161	1/4"	\$.85
101	3/8"	1.15	162	3/8"	1.00
102	1/2"	1.20	163	1/2"	1.00
103	5/8"	1.30	164	5/8"	1.05
104	3/4"	1.40	165	3/4"	1.10
105	7/8"	1.55	166	7/8"	1.15
106	1"	1.65	167	1"	1.25
147	1 1/8"	1.75	134	1 1/8"	1.15
148	1 1/4"	1.95	135	1 1/4"	1.35
149	1 1/2"	2.05	136	1 1/2"	1.40
150	1 3/4"	2.25	137	1 3/4"	1.55
151	2"	2.50	138	2"	1.70
152	2 1/4"	2.70	139	2 1/4"	1.85
153	2 1/2"	3.15	140	2 1/2"	2.05
154	2 3/4"	3.50	141	2 3/4"	2.45
155	3"	4.00	142	3"	2.65
156	3 1/4"	4.20	143	3 1/4"	2.85
157	3 1/2"	4.50	144	3 1/2"	3.35
158	3 3/4"	4.50			
159	4"	5.50			

ICA LARGE LOW-LOSS RIBBED COIL FORMS



AMBER BAKELITE
1 3/8" Diameter
3 3/8" High

No.	Prong	List
1051	4 Prong	\$.60
1052	5 Prong	.80
1053	6 Prong	.85

ICA SMALL RIBBED COIL FORMS

Made of Amber Color Bakelite
1 3/8" diam., 2 1/4" high

No.	Prong	List
2158	4 Prong	\$.45
2159	5 Prong	.50
2160	6 Prong	.50

ICA INSULATED BUSHINGS



No. 670	Black	1/4" Hole	3/8" Diam.	3/8" Long	List \$1.15
No. 671	Red	1/4" Hole	3/8" Diam.	3/8" Long	List .15
No. 672	Black	1/4" Hole	1/2" Diam.	1/2" Long	List .20
No. 673	Red	1/4" Hole	1/2" Diam.	1/2" Long	List .20

ICA BRASS EXTENSION RODS

No. 2117	6" Length	1/4" O.D.	List \$2.20
No. 2118	12" L.	1/4" O.D.	List .40

FENOLINE EXTENSION RODS

No. 2120	6" Length	1/4" O.D.	List \$3.30
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BAKELITE BUSHINGS

Molded Bakelite Bushings for complete insulation. Strong seamless threads. Heat resisting to 300 F. Complete with stamped lock nuts.



No.	Hole Size	List
606	1/4"	\$.10
607	3/8"	.12
608	1/2"	.13
609	5/8"	.14
610 (2 holes)	3/8"	.15

STOCK SIZES OF BLACK AND BROWN FENOLINE TUBING

Individual lengths tubing in following diam.: 1"; 1 1/4"; 1 1/2"; 1 3/4"; 2"; 2 1/4"; 2 3/4"; 3"; Wall thickness 1/16".

No.	Length	O.D.	List
2131	3"	1"	\$3.65
2132	4"	1"	.80
2133	6"	1"	1.15

When ordering, specify exact diameter.

SPECIAL LENGTH BAKELITE TUBING

Cut to Order — Wall Thickness to 1/16"
Outside diameters range from 1" to 4". Prices on request. Other diameters and thicknesses quoted on request.

ICA "INSULOID" RODS

No.	Color	Size	List
2175	Black	12" x 1/4"	\$.45
2176	Black	24" x 1/4"	.80
2179	Black	12" x 3/8"	.60
2180	Black	24" x 3/8"	1.20
2183	Black	12" x 1/2"	.80
2184	Black	24" x 1/2"	1.60

BAKELITE RODS FENOLINE RODS

Lengths of 18" to 24"

No.	Diam.	List	No.	Diam.	List
175	1/4"	\$1.30 ft.	168	1/4"	\$.80 ft.
178	3/8"	1.50 ft.	169	3/8"	1.10 ft.
176	1/2"	1.80 ft.	170	1/2"	1.40 ft.
177	3/4"	2.50 ft.			

ICA TRANSMITTING COIL FORMS

Made of Low - Loss RX-47 Dielectric. Rugged and durable. Amber color. Size of body affords 3 3/4" of winding space.



No. 2670	4 Prong	List \$1.00
No. 2671	5 Prong	List 1.05
No. 2672	6 Prong	List 1.10

ICA SMALL BAKELITE COIL FORMS



1 1/4" diam., 2 1/4" high

No.	Prong	List
1108B	4 Prong	\$.45
1113B	5 Prong	.45
1114B	6 Prong	.45

ICA SHORT WAVE AND BROADCAST PLUG-IN COILS



Wound on Low-Loss Bakelite Forms

No.	4 PRONG—2 WINDINGS	List
1471	Set of 4 short wave coils —covering 9 1/2 to 174 Meters	\$.35
1473	Set of 2 Broadcast coils covering 160 to 550 Meters	2.50

ICA BAKELITE FLEXIBLE SHAFT COUPLING

Flexible phosphor bronze spring contact mounted on a round bakelite disc. 1 1/8" diam. Has 1/4" bushing.



No. 2142	List \$6.50
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ICA INSULEX FLEXIBLE SHAFT COUPLING

Flexible phosphor bronze spring contact. Mounted on Insulex disc for efficient low-loss coupling. 1 1/8" diam. 1/4" bushing.



No. 2143	List \$7.50
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ICA PANEL BEARING ASSEMBLY

Will fit on panels up to 3/8" thickness.

No. 1248	Overall length 3"	List \$4.00
No. 1249	Overall length 6"	List .50
No. 1250	Bearings only	List .18



ICA FLEXIBLE SPAGHETTI TUBING

20 Foot Lengths



A flexible tubing, heavily varnished, in attractive colors. Average dielectric strength, 5000 volts. Will accommodate from No. 10 to No. 18 wires. Furnished in one length —20 feet long on handy spools.

No.	Color	Per Spool	List
210	Red		\$1.25
211	Yellow		1.25
212	Brown		1.25
213	Green		1.25
214	Black		1.25

500 Foot Spools, spaghetti tubing, same grade and colors as above. Specify color per spool.

No. 197	List \$28.50
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ICA SPAGHETTI TUBING

For No. 10 to No. 18 gauge wire. Guaranteed not to crack. Furnished in 30" lengths.

No.	Color	per length	List
182	Red		\$.15
183	Yellow		.15
184	Brown		.15
185	Green		.15
186	Black		.15

SMALL SIZE SPAGHETTI TUBING

200	Red	List \$1.15
201	Yellow	.15
202	Black	.15

LARGE SIZE SPAGHETTI TUBING

Supplied in 36" lengths. Diameter 9/64" I.D. x 3/16" O.D.

No. 196—Supplied in black only

List—per length \$.50

ICA GIANT SLEEVING

Made of high voltage insulation saturated cambric material. Inside diameter 3/8". For Insulating Resistors, Small Condensers, Wire Cables. Leads, etc. 36" lengths.

No. 198..... List \$5.00

ICA INSULINE ICA

RADIO PRODUCTS

RUBBER INSULATED GRID CAPS

For Transmitting Tubes

New improved type. Insulation made of special soft rubber over spring bronze.



No.	For 866 Type Tubes	List
870	—With Leads	\$.30
872	—For Receiving Tubes —With 12" Lead	.20
874	—For New Metal Tubes —With 12" Lead	.20

FENOLINE INSULATED GRID CAPS

Improved type for standard and transmitting tubes. Sturdy cadmium plated brass clip. Furnished with 12" wire.



No.	For 866 Transmitting Tubes	List
683	—Black	\$.50
680	—Red	\$.25
681	—Black	.25

SPRING ACTION GRID CAPS

For all types of tubes. Positive contact. All grid caps are hot tinned ready for soldering.



1553



1554



1550

No.	List	
1550	—For standard glass receiving tubes with small caps (.360 dia.)	\$12.50M
1551	—For tubes with miniature caps (.250 dia.)	12.50M
1553	—For glass tubes	1.50C
1554	—For glass tubes	1.50C

INSULATED DUAL GRID CAPS

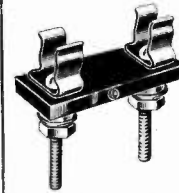
Designed for metal and glass tubes. Equipped with 12" insulated lead.



No. 877—Black List \$.40

FUSE MOUNTINGS

Flush Type Mounting



Bakelite base. For standard radio or automotive fuses. Countersunk center hole for mounting.

Equipped with two soldering lugs.

No. 2340	—Single pole	List \$.20
No. 7201	—Double pole	List .35

Panel Type

Takes standard type radio—automotive fuse. Equipped with 6/32 screws for mounting on panels.

No. 2341	—Single pole	List \$.25
No. 7203	—Double pole	List .40

For AG 1" Long Type Fuse

No.	List	
7202	—For smaller type fuse. Bakelite base. 1 3/8" x 1/2" x 1/8" Flush Mount	\$.20
7204	—Double pole. 1 3/8" x 1" x 1/8" Flush Mount	.35
7205	—Same as 7202. Panel Mount	.25
7206	—Same as 7204. Panel Mount	.25

ICA TERMINAL STRIPS

Made of 3/32" heavy black Bakelite, engraved in white. Terminals are brass cadmium plated.

No.	Terminals	Marking	Mtg. Ctrs.	Size	List
2420	2	Plain	1 1/2	7/8 x 2 1/4	\$.18
2419	2	A & G	1 1/2		.18
2418	2	Output	1 1/2		.18
2417	2	Input	1 1/2		.18
2414	3	Plain	2	7/8 x 2 3/4	.27
2415	3	1, 2, 3	2		.30
2413	4	Plain	2 1/2	7/8 x 3 3/4	.36
2408	4	1, 2, 3, 4	2 1/2		.40
2405	5	Plain	3	7/8 x 4	.45
2406	5	1, 2, 3, 4, 5	3		.50
2404	6	Plain	3 1/2	7/8 x 4 5/8	.54
2402	6	1, 2, 3, 4, 5, 6	3 1/2		.60
2412	7	Plain	4	7/8 x 5 1/4	.63
2411	7	1, 2, 3, 4, 5, 6, 7	4		.70
2410	8	Plain	4 1/2	7/8 x 5 3/4	.72
2409	8	1, 2, 3, 4, 5, 6, 7, 8	4 1/2		.80
2424	9	Plain	5	7/8 x 6 3/8	.81
2423	9	1, 2, 3, 4, 5, 6, 7, 8, 9	5		.90
2422	10	Plain	5 1/2	7/8 x 7	.90
2421	10	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	5 1/2		1.00

BAKELITE TERMINAL MOUNTING STRIPS

Mounting tie strips for fastening Resistors, Condensers, etc. Mounting Lug hole diameter .140". Type A shows non-ground mounting lug. Type B shows combination grounding-mounting lug:



Type A



Type B

No.	Type	Terminals	Mtg. Centers	Mounting Lugs	List
2434	A	1	One Hole	1	\$3.00C
2455	B	1		1	3.00C
2435	A	2	1	4.00C	
2456	B	2	1	4.00C	
2436	A	3	1 1/2	2	7.00C
2437	B	3	1 1/2	2	7.00C
2457	A	4	1 7/8	2	8.50C
2437	B	4	1 7/8	2	8.50C
2458	A	5	2 1/4	2	10.00C
2438	B	5	2 1/4	2	10.00C
2459	A	5	1 7/8	2	12.00C
2439	B	5	1 7/8	2	12.00C
2460	A	6	1 1/2	2	12.00C
2440	B	6	1 1/2	2	13.50C
2440	A	7	1 1/2	2	13.50C
2461	B	7	1 1/2	2	15.00C
2441	A	8	1 7/8	2	15.00C
2462	B	8	1 7/8	2	15.00C

No. 2425—Terminal Lugs only (less screws).....List \$6.00C

No. 2426—Terminal Screws, 3/8" long.....List 1.50C

BAKELITE TERMINAL STRIPS

Brown bakelite 1/16" thick. Suitable light duty radio work, experimental purposes, etc.



No.	Terminals	Mtg. Ctrs.	List
2520	2	1 1/2	\$.10
2521	3	1 3/4	.14
2522	4	2	.18
2523	5	2 1/8	.22
2524	6	2 1/4	.26
2528	Terminal Lug & Screw only		3.50 C

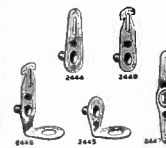
TWIN JACK STRIP



With two terminals. Takes standard phone tips. Base width 1 1/4". 1 1/8" between mounting holes.

No. 2443.....List \$.20

TERMINAL LUGS



No.	List
2444	\$.65C
2445 # 6 Hole	1.25C
2446	.75C
2447	1.25C
2463	1.85C
2448 # 6 Hole—Combination	1.25C
2638 # 8 Hole—Combination	1.25C

ICA INSULINE RADIO PRODUCTS ICA

FILTERVOLT NOISE FILTER

An efficient filter for disturbances caused by electrical appliances. For use with any all-wave or broadcast receiver.

Rated conservatively at 250 watts for 32, 110 and 220 volt AC or DC circuits. Can be installed either at the radio or at the source of disturbance.

Contains heavy duty R.F. chokes, large filter capacitor, and has a "PI" Filter circuit arrangement.

No. 338..... List \$7.50



ICA FILTERVOLT

Improves extremely noisy radio reception due to interruptions in power line caused by electrical appliances, lights, etc.

No. 394
List \$4.50



DUPLEX FILTERVOLT

Eliminates Radio Noises Caused By—

- Electric Shavers
- Refrigerators
- Fans • Elevators
- Motors, etc.



Unit is equipped with Dual outlet, both sides being filtered for noise elimination. Packed 25 to a standard carton.

No. 90..... List \$1.50

UNIVERSAL VOLTAGE REGULATOR

Voltage fluctuation often occurs not gradually but suddenly, thus bringing a tremendous strain on the tubes. This regulator protects tubes through scientific regulation of current fluctuations. Housing body and end rings are neatly constructed and of perforated japanned metal. For all Radio Sets, AC, DC.



No. 92..... List \$1.50

ICA 3-IN-1 RADIO TUNER



Functions as either an Antenna Tuner, Wave Trap, or Aerial Eliminator. Operates on any make or model radio set.

As an Antenna Tuner, it will improve the reception of a weak station. As a Wave Trap, it will separate interfering stations and improve selectivity. As an Aerial Eliminator, it makes unnecessary the outdoor aerial. Easily installed within a few minutes.

No. 93—Complete with instructions List \$1.00

ICA DELUXE SIGNA-TONE

AUDIO OSCILLATOR — CODE PRACTICE SET — KEYING MONITOR

The ICA Signatone is a perfected Audio Oscillator, having 3 different output frequencies and a continuously variable volume control. The Audio notes are similar to those of high quality commercial CW stations.

1. **CODE PRACTICE SET**—A number of phones and keys may be connected for intercommunication or for classroom or radio club instruction in code.

2. **KEYING MONITOR**—An invaluable aid in improving any ham's "fist". Will follow the "bug" at all speeds. No well-equipped station should be without this keying monitor.



No. 4300



No. 4301

3. **MODULATION SIGNAL**—The steady note of the Signatone is ideal for adjusting both the Modulator and modulated stages of your transmitter for a maximum modulation percentage of not over 100.

4. **SIGNAL TRACER**—By feeding the output of the Signatone into each stage of your modulator and listening to the output of that stage, defects and "bugs" can easily be located. Complete with tube and self-contained speaker, for 110 V AC-DC.

No. 4300—*Dealer Net Cost \$12.00
No. 4301—Classroom Model (No Speaker)—Dealer Net Cost 9.00

ICA EAR PHONES

Complete With Head Bands

Made of molded Bakelite and light-weight nickel-plated metal. 2000 ohms.



No. 23—Double Head Phone..... List \$4.50

EAR CUSHIONS



Made of soft rubber. Ideal for the amateur wireless operator, etc. Used by all leading air lines.

No. 195..... List \$1.10 pr.

DOUBLE PHONE CORDS

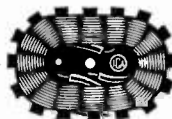


No. 192—Tips on both ends..... \$.85
193—Spades on one end, tips on other..... 85

ICA TENNA-SCOPE LOOP

For Midgets or Portables

Eliminates necessity of outdoor or indoor antenna. Replaces the antenna coil in portable or midget sets. Easily assembled.



No. 4385..... List \$1.25

ICA TENNA-SCOPE



A new style built-in tuned radio antenna. Easily connected. Eliminates use of outside aerial and ground. Features: Better selectivity — Higher signal to noise ratio — Easily connected, no soldering.

No. 4380..... List \$3.00

ICA MORSE CODE RECORDS



Learn the International Morse Code Quickly, Easily — Uses EYE - EAR Method. The Complete Linguaphone Code Equipment consists of 5 Double-faced, electrically transcribed records in durable album. Contents: 3 Tables, 10 Lessons.

No. 1800—Complete..... Dealer Net \$10.00
No. 1800R—Records only Dealer Net Ea. 1.95
No. 1800B—Booklet only Dealer Net Ea. .90

ICA "TRIPLEX"

Radio & Telegraph Code Practice Set
Blinker Light
Radio Signal—Telegraph

No. 70—Single Unit (less batteries) \$3.25
71—Double Unit (50 ft. wire) 6.85



ICA RECORD-PLAYER SWITCH

Replacement for RCA Switch 9824A



Recommended for quickly connecting Record Players, F.M. attachments, Television attachments, Microphones and similar devices into the audio amplifier of existing radio receivers.

No. 1740..... List \$2.25

RESISTOR CORDS

A series of replacement resistor cords for practically all AC-DC requirements.



No.	Resistance-Ohms	List
513	185	\$1.15
514	160	1.15
515	190	1.15
516	220	1.15
517	290	1.15
518	340	1.15
519	640	1.25

UNIVERSAL RESISTOR CORD

Replacement Resistor Cord for all makes receivers. From 22 to 330 ohms on one cord. Instructions with each cord.

No. 205..... List \$1.70

ICA INSULINE ICA

RADIO PRODUCTS

RADIO HARDWARE



ICA offers a wide variety of radio hardware items suitable for practically any use in the radio-electronic and allied fields. ICA hardware is offered in standard package quantities or in handsome glass display jars for convenient storing.



ities or in handsome glass display jars for convenient storing.

ROUND HEAD MACHINE SCREWS NICKEL-PLATED

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
—	—	5504	1000	2-56 x 1/4" long	\$4.00M
5000	100	5500	1000	4-36 x 1/2" long	5.00M
5001	100	5501	1000	4-36 x 1/2" long	5.50M
5002	75	5502	1000	4-36 x 3/4" long	5.75M
5007	90	5507	1000	6-32 x 1/2" long	5.00M
—	—	5511	1000	6-32 x 3/8" long	5.00M
5008	80	5508	1000	6-32 x 1/2" long	5.50M
5009	70	5509	1000	6-32 x 3/4" long	6.50M
5010	50	5510	1000	6-32 x 1" long	8.50M
5014	75	5514	1000	8-32 x 3/8" long	7.00M
5015	70	5515	1000	8-32 x 1/2" long	9.00M
5017	40	5517	1000	8-32 x 1" long	9.00M
5022	60	5521	1000	10-32 x 1/2" long	9.00M

BINDING HEAD MACHINE SCREWS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
—	—	5546	100	6-32 x 3/8" long	\$1.25C
5030	80	5547	100	6-32 x 1/4" long	1.25C
5031	75	5548	100	6-32 x 3/8" long	1.25C

OVAL HEAD MACHINE SCREWS NICKEL PLATED

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5042†	40	5710†	100	10-32 x 3/8" long	\$1.00C-8.50M

†For Transmitting Racks.

PARKER-KALON SELF-TAPPING SCREWS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
—	—	5562	1000	No. 8 x 3/8" long	\$1.50C
5051	50	5555	1000	No. 4 x 1/2" long	1.60C
5052	50	5556	1000	No. 6 x 1/4" long	2.00C
5053	45	5557	1000	No. 6 x 3/8" long	2.25C
5054	40	5558	1000	No. 7 x 1/2" long	2.75C
5055	35	5559	1000	No. 10 x 3/4" long	2.75C

ESCUTCHEON PLATE SCREWS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5182	100	5677	100	No. 1 x 3/4" long	\$15.00M

FLAT STEEL PLATED WASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5090	100	5595	1000	For No. 6 Screw	\$2.50M
5091	100	5596	1000	For No. 8 Screw	2.50M
5092	100	5597	1000	For No. 10 Screw	2.50M
5093	100	5603	1000	For 1/4" Screw	4.50M
—	—	5607	1000	For 3/8" Screw	5.00M

EVERLOCK LOCK WASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5085	100	5592	1000	For No. 6 Screw	\$.55C-3.75M
5086	90	5593	1000	For No. 8 Screw	.60C-4.00M
5087	80	5594	1000	For No. 10 Screw	.65C-4.50M

KANTLINK SPLIT TYPE LOCKWASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5080	125	5589	1000	For 6-32 Screw-3/8" thick	\$3.50M
5081	125	5590	1000	For 8-32 Screw-3/8" thick	3.50M
5082	100	5591	1000	For 10-32 Screw-3/8" thick	3.50M
5083	75	5602	1000	For 1/4-32 Screw-1/8" thick	5.50M

FLAT FIBRE WASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5100	125	5601	1000	1/8" Diam. 1/8" Thick	\$6.25M
—	—	5612	1000	1/8" Diam. 1/8" Thick	7.25M
5102	90	5609	1000	1/2" Diam. 1/8" Thick	8.00M
—	—	5626	1000	1/2" Diam. 1/8" Thick	7.50M
5101	100	5605	1000	1/2" Diam. 1/8" Thick	7.50M
5104	50	5610	1000	1/2" Diam. .020	8.00M
5105	50	5611	1000	1/2" Diam. 3/32"	9.75M

FIBRE SHOULDER WASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
—	—	5618	100	1/8" Overall Diam. 1/8" Shoulder Diam.	\$1.25C
5111	50	5620	100	1/8" Overall Diam. 1/8" Shoulder Diam.	1.25C
5110	50	5615	100	1/8" Overall Diam. 1/4" Shoulder Diam.	1.25C
5114	50	5619	100	1/8" Overall Diam. 1/8" Shoulder Diam.	1.25C
5115	40	5616	100	1/2" Overall Diam. 3/8" Shoulder Diam.	1.35C
5112	50	5624	100	1/2" Overall Diam. 3/8" Shoulder Diam.	1.35C
5113	50	5628	100	1/2" Overall Diam. 1/2" Shoulder Diam.	1.50C

CUP WASHERS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5212	45	5712	100	Hole Size No. 8	\$.75C-5.50M
5213	20	5713	100	Hole Size No. 10	.80C-5.50M

STEEL HEXAGON NUTS — NICKEL PLATED

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5070	100	5572	1000	4-36 x 1/4"	\$4.00M
—	—	5573	1000	4-36 x 1/8"	3.25M
5074	80	5577	1000	6-32 x 1/8"	5.00M
5071	90	5576	1000	6-32 x 1/4"	4.50M
5072	80	5580	1000	8-32 x 1/8"	5.00M
5073	50	5584	1000	10-32 x 3/8"	7.50M
5075	12	5583	1000	1/4-20 x 1/8"	1.20C
—	—	5579	1000	1/4-32 x 3/8"	1.00C
5076	10	5575	1000	3/8-32 x 1/2"	2.00C

BRASS HEXAGON NUTS — NICKEL PLATED

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
—	—	5564	100	4-36 x 3/8"	\$.75C-6.00M
—	—	5566	100	6-32 x 1/4"	.75C-6.00M
—	—	5567	100	6-32 x 1/8"	.85C-6.50M
—	—	5570	100	8-32 x 1/8"	1.00C-7.50M
—	—	5574	100	3/8-32 x 1/2"	1.75C

RACK SCREW AND WASHER ASSORTMENT

Packed in ICA handy jars. Includes 20 Oval Head Screws (10-32 x 3/8") and 20 Cup Washers (10-32). List \$6.50

BRASS EYELETS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Diam. Shank	Length	Bulk List
5172	80	5672	1000	.115	1/8"	\$10.00M
5171	90	5671	1000	.125	1/8"	9.50M
5170	100	5670	1000	.132	1/8"	8.50M

NICKEL PLATED TUBULAR STEEL RIVETS

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Diam. Shank	Length	Bulk List
—	—	5730	1000	1/8"	3/8"	\$ 8.00M
5160	100	5663	1000	1/8"	1/2"	8.00M
5161	80	5664	1000	1/8"	3/4"	10.00M
5162	70	5665	1000	1/8"	1/2"	10.50M

STEEL CABLE CLAMPS, PLATED

Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5200	35	5697	1000	Length 3/4" Diam. Bend 1/8"	\$1.25C
5201	30	5698	1000	Length 1 1/8" Diam. Bend 1/8"	1.50C

NICKEL PLATED SPRING CLIP

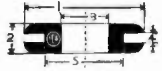
Jar* Cat. No.	Qty.* Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Description	Bulk List
5190	40	5691	100	Width 1/8" Length 1 1/8"	\$1.65C
5191	40	5692	100	Width 1/8" Length 1 1/8"	1.75C
5192	30	5693	100	Width 3/8" Length 1"	2.00C

*ALL JARS LIST AT \$.65 PER JAR. BULK QUANTITIES LIST AS SHOWN. ORDER BY CATALOG NUMBER.

ICA INSULINE ICA

RADIO PRODUCTS

ICA RADIO HARDWARE



ICA FLEXIBLE RUBBER GROMMETS

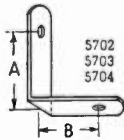
Jar* Cat. No.	Qty. Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	(3) Hole Size	(1) O.D.	(2) Thick-ness	(4) Slot	(5) Mtg. Width	Bulk List
5120	15	5633	100	7/8	1 1/2	3/16	1/2	1 1/2	\$3.85C
5121	12	5634	100	7/8	1 1/2	1/4	1/2	1 1/2	4.30C
5122	15	5635	100	7/8	1 1/2	3/16	1/2	1 1/2	3.90C
5123	12	5639	100	7/8	1 1/2	1/8	1/2	1 1/2	3.00C
5125	10	5637	100	7/8	1 1/2	3/16	1/2	1 1/2	3.50C
—	—	5641	100	1	1 1/2	1/8	1/2	1 1/2	7.00C
—	—	5642	100	7/8	1 1/2	3/16	1/2	1 1/2	3.90C
5127	12	5687	100	7/8	1 1/2	3/16	1/2	1 1/2	3.75C



ANGLE BRACKETS

†One Hole Tapped — One Plain.
‡One Slot — One Hole.

5705



5702
5703
5704

Jar* Cat. No.	Qty. Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	A	B	Width	Bulk List Price
5205	16	5702	100	3/8	3/8	1/8	\$2.50C
5206	15	5703	100	3/8	3/8	3/8	2.50C
5207	25	5704	100	3/8	1 1/8	3/8	4.00C
—	—	5705	100	3/8	1 1/8	3/8 †	4.50C
—	—	5706	100	3/8	1 1/8	3/8 ‡	2.00C
—	—	5707	100	3/8	1 1/8	3/8 ‡	3.00C

PILOT LIGHT CONTACT



For making center connection inside pilot light socket.

No. 2465
List \$5.00M

ICA UTILITY GLASS JARS

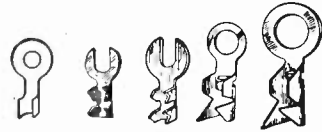
For use on service bench to store hardware, etc. 2 1/2" high x 1 1/2" deep.
No. 5400—List \$1.12



BRASS TINNED TERMINAL LUGS



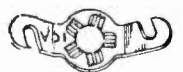
5645 5646 5654 5656 5647 5649 5648



5655 5653 5650 5651 5652

Jar* Cat. No.	Qty. Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Length	Hole Size	Bulk List
—	—	5645	100	1 1/2	No. 8	\$7.5C- 6.00M
—	—	5654	100	7/8	3/4	.80C- 6.00M
5135	125	5646	100	1 1/2	No. 6	.60C- 4.00M
—	—	5656	100	1 1/2	No. 6	5.00M
5136	100	5647	100	1 1/2	No. 10	.65C- 5.00M
5137	75	5649	100	1 1/2	No. 8	1.00C- 8.00M
5141	75	5648	100	1	No. 8	1.00C- 8.00M
—	—	5655	100	1 1/2	No. 8	.80C- 6.50M
—	—	5653	100	1 1/2	No. 6	.85C- 7.00M
5138	100	5650	100	1 1/2	No. 8	1.00C- 8.00M
5139	75	5651	100	1 1/2	No. 10	1.75C-11.00M
5140	50	5652	100	1 1/2	3/4	2.50C-16.00M

EVERLOCK TERMINAL LUGS



5483 5484 5482

5481

5480

Jar* Cat. No.	Qty. Each Jar	Bulk Cat. No.	Qty. Bulk Pkge.	Hole Size	Bulk List
—	—	5480	100	No. 6	\$1.50C-12.00M
5145	50	5481	100	3/4	1.50C-12.00M
5146	60	5482	100	No. 4	1.40C-11.00M
5147	55	5483	100	No. 6	1.40C-11.00M
5148	50	5484	100	No. 8	1.40C-11.00M

DISPLAY "SALESMAN" MERCHANDISER OF HARDWARE AND RADIO ESSENTIALS



With this ICA display assortment you can now sell hardware in a packaged form. This assortment includes — all sizes Round Head Machine Screws — Nickel plated nuts to match — Parker-Kalon self-tapping screws — Kant-Link lock washers — Shake-Proof washers — plain washers — flat fibre washers — flexible grommets — lugs — eyelets — rivets — escutcheon plate screws — midget fuse clips — spade bolts — spring clips — clamps — angles — rack screws — and washers, etc.

EACH ITEM INDIVIDUALLY PACKED IN A GLASS DISPLAY JAR. Each jar contains an ample quantity of individual type and size hardware used by dealers, servicemen and amateurs. A complete radio hardware assortment, beautifully put up in these jars and stacked in a handsome durable metal rack which holds 36 jars.

- No. 5275—DISPLAY RACK—Contains 36 jars. A representative assortment of radio hardware, such as screws — nuts — bolts — washers — grommets, etc. List \$23.40
- No. 5276—DISPLAY RACK—Contains 36 jars. A representative assortment of radio hardware and essentials such as fibre washers — lugs — metal washers — grommets — spring clips — fuse clips — angle brackets, etc. List \$23.40
- No. 5405—METAL DISPLAY AND UTILITY RACK—Consists of 4 shelves for storing 36 hardware jars — small parts and miscellaneous items. Measures 12" high by 17 3/4" wide by 8" deep. List \$5.50

EVERYMAN'S 1000-PIECE RADIO HARDWARE ASSORTMENT

An assortment of hardware commonly used by dealers, servicemen, amateurs, experimenters, etc. Contains 1000 pieces of assorted machine screws — wood screws — nuts — bolts — rivets — eyelets — lugs — lock washers — rubber grommets, etc.



No. 5250.....List \$3.00

ICA ALL-PURPOSE RADIO HARDWARE AND ESSENTIAL EQUIPMENT

Packed in a handy indestructible metal utility case.

This De Luxe assortment includes such items as knob set screws — escutcheon screws — Parker-Kalon self-tapping screws — rubber grommets — screws — nuts, etc.

No. 5251.....List \$4.75



ICA ANGLE AND BRACKET ASSORTMENT

A complete assortment of 30 popular angles and brackets, nickel plated finish.

No. 5800.....List \$75

ICA RUBBER GROMMET ASSORTMENT

Assortment contains popular sizes used in Radio and Electrical Work.

No. 5810.....List \$ 75

Contains 28 Rubber Grommets
No. 5811.....List \$1.50
Contains 60 Rubber Grommets

ICA FIBRE WASHER ASSORTMENT

A representative assortment of fibre washers both plain and shoulder, to fit all popular size screws and bolts.

No. 5805.....List \$75

Contains 100 assorted washers

ICA MASTER SCREW AND NUT ASSORTMENT

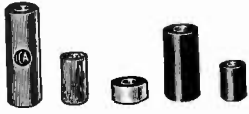
Contains a substantial quantity of all the popular sizes machine screws, wood screws, Parker-Kalon self-tapping screws and nuts to match.

No. 5252.....List \$5.50

*ALL JARS LIST AT \$.65 PER JAR. BULK QUANTITIES LIST AS SHOWN. ORDER BY CATALOG NUMBER.

ICA INSULINE ICA

RADIO PRODUCTS



ICA INSULATED AND BRASS SPACERS AND BUSHINGS

Used for raising sub panels, chassis, condensers, etc. For manufacturers, experimenters and laboratory use.

Made of High Quality Brass

No.	Diameter	Length	List per C
5760	1/4"	1/4"	\$3.50
5761	1/4"	3/8"	4.00
5762	1/4"	1/2"	4.25
5763	1/4"	3/4"	5.00
5767	1/2"	1"	5.50
5764	3/8"	1/4"	4.25
5765	3/8"	1/2"	5.00
5766	3/8"	3/4"	5.50
5768	3/8"	1"	5.75

Made of Fenolite Insulation

5775	1/4"	1/4"	3.75
5776	1/4"	3/8"	4.50
5777	1/4"	1/2"	5.00
5778	1/4"	3/4"	5.50
5782	1/4"	1"	7.00
5779	3/8"	1/4"	5.00
5780	3/8"	1/2"	6.00
5781	3/8"	3/4"	6.50
5783	3/8"	1"	5.75

Threaded Brass Bushings—1/4" Diameter			
5785	for 6/32 screw	1/4"	4.25
5786	"	3/8"	5.25
5787	"	1/2"	6.50
5788	"	3/4"	7.50
5794	"	1"	8.00
5790	for 8/32 screw	1/4"	4.25
5791	"	3/8"	5.25
5792	"	1/2"	6.50
5795	"	1"	8.00

Molded Bakelite Spacer Bushing			
No.			List
2365	Suitable for either spacer or bushing. With brass eyelet.		\$2.50C
2366	Same as above—without eyelet		2.00C

SPACER AND BUSHING ASSORTMENTS

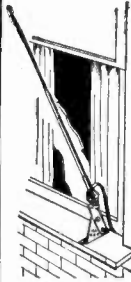
Brass and Insulated

Assortment of 25 spacers and bushings in 1/4" & 3/8". Diameters from 1/4" to 3/4" long. Ideal for raising sub panels, chassis, etc.

No.			List
5260	Insulated Assortment		\$1.25
5261	Brass Assortment		1.25
Threaded Brass Bushing Assortments			
5262	16 Assorted Brass bushings. Threaded for 6/32 from 1/4" to 3/4" lengths		1.25
5263	16 Assorted Brass bushings. Threaded for 8/32 from 1/4" to 3/4" lengths		1.25

MAST ANTENNAS FOR STANDARD RECEPTION

DE LUXE WINDOW ANTENNAS
8 Feet—12 Feet



Made of Admiralty Brass with Beautiful Nickel-Plated Finish

- For Homes, Apartments, Hotels, Office Buildings, and places where it is inconvenient to install outdoor aerials or to improve reception on indoor installations.
- Quickly and easily installed.
- Adjustable Bracket at base, permits the antenna to be focused in any position for best reception.
- Furnished completely assembled with mounting flange, insulator and lead-in strip.

Individually boxed.

3 Section Telescopic Antenna Opens to 96"	No. 4527B	List \$4.45
No. 4529—3 Sec., Opens to 75"		List \$3.25
10 to a Standard Carton—Weight 1 1/2 lbs.		

4 Section Extra Long Window Antenna

12 Feet Long

Ideal for DX Reception and Rural Sections where extra length is needed for best results.

No. 4513	List \$6.75
----------	-------------

HOME ANTENNAS

12 Feet—4 Sections

Made of Admiralty Brass—Guaranteed Rust Proof

- The Latest Type Home Antenna suggested by leading Radio Set Manufacturers for best results.
- Eliminates unsightly and dangerous wires.
- Clear, noise-free reception with no power line interference.
- Very sturdy construction—made of Admiralty Brass with Beautiful Nickel-Plated Finish.
- Guaranteed Rust-proof for the life of Antenna.
- Universal Bracket allows permanent and convenient installation on soil pipe, window pipe, chimney, roof, gables, cornices, wall copings, etc.
- Individually boxed.

Vertical Mast with all accessories for Universal Mounting—Including Lead-in Wire, Insulators, etc.

No. 4516	List \$6.95
10 to a Standard Carton—Weight 3 1/2 lbs.	

Television Antennas . . . Television Accessories

Since 1927, Insuline Corporation of America has been pioneering in the development of Television accessories. ICA now boasts of a complete line of television antennas of all types as well as the newest accessories and servicing tools.

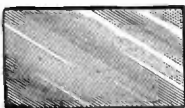
Consult other pages for ICA's latest.

- Antennas—outdoor types
- Antennas—indoor types
- Servicing Tools
- Servicing Kits
- Accessories
 - Filters
 - Installation Kits
 - Mounting Brackets
 - Guy Wire, etc.

Send for latest complete
Television Catalog

ICA BAKELITE RADIO PANELS

Black, Polished Mirror Finish



1/8" Thickness				3/16" Thickness			
No.	Size	List	No.	Size	List	No.	Size
832	7 x 10	\$1.55	842	7 x 10	\$2.25		
833	7 x 12	1.85	843	7 x 12	2.75		
834	7 x 14	2.00	844	7 x 14	3.25		
835	7 x 18	3.00	845	7 x 18	4.10		
836	7 x 21	3.10	846	7 x 21	4.65		
837	7 x 24	3.50	847	7 x 24	5.50		
840	7 x 30	4.50	850	7 x 30	6.75		
860	10 x 12	2.75	863	10 x 12	4.15		
861	10 x 18	3.65	864	10 x 18	5.65		

ICA FULL SIZE BAKELITE SHEETS

Black Glossy Finish

No.	Size	Thickness	App. Wt.	List
852	38" x 49"	1/8"	6 lbs.	\$21.50
853	38" x 49"	3/16"	8 lbs.	27.00
854	38" x 49"	1/4"	12 lbs.	44.00
857	38" x 49"	3/8"	16 lbs.	55.00
858	38" x 49"	1/2"	20 lbs.	66.00

Prices on other sizes or thicknesses quoted on request

ICA ALUMINUM PANELS

ICA Aluminum panels and sheets have a bright silver finish and are supplied in the following sizes:

No.	Size	List	No.	Size	List
1194	7 x 10	\$1.35	1200	7 x 24	\$3.50
1195	7 x 12	1.60	3157	10 x 12	2.75
1196	7 x 14	1.75	3158	10 x 18	3.15
1198	7 x 18	2.35	3159	10 x 24	5.50
1199	7 x 21	2.85			

SEE OTHER PAGES FOR ICA'S COMPLETE LINE OF RELAY RACK PANELS AND CHASSIS BASES (STEEL OR ALUMINUM), RACK CABINETS, AMPLIFIER CHASSIS, SPEAKER CABINETS, ETC. SPECIAL SIZE CABINETS AND CHASSIS MADE TO SPECIFICATIONS.

PLUGS—MICROPHONE CONNECTORS

Single Contact Female Microphone Connector



This microphone connector assures a completely shielded connection. All metal parts are chrome plated brass except spring. Used extensively for making connections from microphone to amplifier. When used with our part No. 505 and 500, any combination of connection can be arranged. Equipped with coupling ring.
No. 506 LIST PRICE 50c

Single Contact Male Microphone Connector



Similar to microphone connector No. 506 above except that it has a male thread $\frac{3}{8}$ -27 and no coupling ring.
No. 505 LIST PRICE 40c

PHONE PLUG ADAPTER



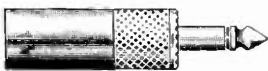
For use with the connector 506 shown at the top. Fits any standard phone jacks. No wiring or soldering necessary to make connection. Made of nickel plated brass.
No. 223 LIST PRICE 45c

DOUBLE PHONE PLUG



A two way phone plug. Will accommodate 2 sets head-phone tips or lugs. Fits all standard jacks. Handle is molded bakelite. Metal parts are nickel plated brass. Available in red and black.
No. 211 LIST PRICE 50c
No. 224—Barrel only LIST PRICE 20c

SHIELDED TWO-WAY PHONE PLUG



Identical to our part No. 211 phone plug except that barrel is made of nickel plated brass for shielding purposes.
No. 221—Plug LIST PRICE 85c
No. 222—Barrel only LIST PRICE 50c

MALE CHASSIS CONNECTORS



No. 500. This mike connector is used on the chassis or in the mike. It is the open circuit type. Mounts in a $\frac{3}{8}$ " hole. Supplied with insulating washers, solderless lug and nut. Fits $\frac{5}{8}$ -27 connections.

No. 501. Similar to above, except for shortening feature when disconnected. Ideal for use with multiple mixer amplifier. Supplied with insulating washers, lug and nuts.

No. 502. Is an open circuit pressure connector, similar to No. 500 except the spring contact protrudes to make pressure contact. Supplied with insulating washers, solderless lug and nuts.

No. 507. Similar to No. 500 except equipped with a linen base bakelite plate for mounting centers, 1-5/32".

No. 508. Similar to No. 500 except equipped with mounting plate for mounting centers 1-5/32".

No. 509. Similar to No. 502 except equipped with mounting plate for mounting centers 1-5/32".

No.	Contact Action	Mounting	Fig.	List Price
500	Open	Locknut	A	30c
501	Shorting	Locknut	B	40c
502	Pressure	Locknut	B	40c
507	Open	Bakelite Plate	C	30c
508	Shorting	Bakelite Plate	D	40c
509	Pressure	Bakelite Plate	D	40c

SHIELDED PHONE PLUG



A newly designed shielded 2 conductor miniature phone plug that fits all standard jacks. One conductor is brought through the entire plug to the tip where the connection is soldered to a tinned insert. The other conductor is connected to a lug under the shell. The $\frac{1}{4}$ inch shank is ground to very exacting tolerances. Supplied with an internal rubber cord grip.
No. 231 LIST PRICE 55c

SHIELDED CAP



Used with our No. 500, 505 and 507 for shielding purposes. Equipped with ball chain to prevent loss.
No. 504 LIST PRICE 55c

SIGNAL CORP PLUGS



PL-55 PLUG

PL-55 plug is a standard 2 conductor phone plug used by the U. S. Army, Signal Corps and U. S. Navy. It fits the standard Signal Corps JK-34A and JK-24 jacks. Supplied with solderless lugs.
LIST PRICE\$1.35



PL-68 PLUG

PL-68 plug is a 3 conductor microphone plug. It is designed for use with the JK-33 Signal Corps and Navy type jacks. Supplied with solderless lugs.
LIST PRICE\$1.75



PL-47 PLUG

PL-47 is a 2 conductor Signal Corps phone plug that fits all standard jacks and Signal Corps jacks numbers JK-24 and JK-34A. Generally used in switchboard work with braided cords. For strain relief the cord is threaded into the plug. Black handle.
LIST PRICE\$2.00

PL-48 PLUG

Identical to the PL-47 except for the red handle.
LIST PRICE\$2.00

TELEGRAPH Apparatus Co.

412 SOUTH GREEN ST.

CHICAGO 7, ILLINOIS

PLUGS • JACKS • CLIPS • SWITCHES • KNOBS

TELEGRAPH APPARATUS CO.

JK-24 JACK



JK-24 jack is a Signal Corps jack of distinctive design. Its construction assures an unvarying distance from the front of the sleeve to the jack springs. This jack is used generally in switch board work. The Signal Corps PL-55, PL-47 and PL-48 plugs are used in conjunction with this jack.

LIST PRICE\$1.75

3AG FUSE MOUNTINGS



Very sturdily constructed on $\frac{3}{8}$ " black bakelite. Bottom rivets are recessed to permit mounting on metal. Clips are made of spring tempered nickel plated brass. Have center holes for mounting.

No.	Type	LIST PRICE
700	Single	20c
701	Double	30c
702	Clips Only Per C	\$1.75

RCA TYPE PIN PLUG AND JACK

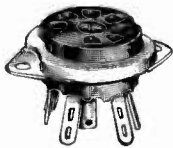


Used on RCA and most other receivers for a shielded phono connection. Can also be used as a shielded auto antenna connection.

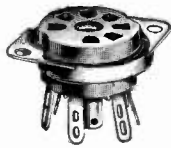
No.	Des.	LIST PRICE
400	Pin Plug	9c
401	Shielded Jack	15c

MINIATURE BAKELITE 7 PIN TUBE SOCKETS

SADDLE MOUNTING



Bottom Mount
With Center Shield



Top Mount
With Center Shield



Top Mount Base and
Center Shield

No.	Insulation	Mounting	LIST PRICE
1100	Black Bakelite	Bottom	\$0.20
1105	Mica Filled Bakelite	Bottom	.25
1107	Black Bakelite	Top	.20
1108	Mica Filled Bakelite	Top	.25
1150	Black Bakelite	Top	.30
1151	Mica Filled Bakelite	Top	.40

BLANK WALL PLATES



SINGLE WALL PLATE made of chrome plated steel. Supplied with two oval mounting screws.

No. 1201List Price 30c

2 GANG WALL PLATE identical to above except mounted with four mounting screws. Fits larger outlet box.

No. 1202List Price 60c

PL-54 PLUG



PL-54 plug is designed to fit only the Signal Corps and Navy type JK-26 jack. Supplied with solderless lugs.

LIST PRICE\$1.35

SLIDE SNAP SWITCH



A very popular switch used in many radio circuits—tone — B.F.O. — phono, etc. Ribbed black bakelite handle. Housing is cadmium plated steel. High quality insulating material. Mounting centers $1\frac{1}{8}$ ".

No.	Type	LIST PRICE
601	SPST	26c
602	SPDT	33c
603	DPST	38c
604	DPDT	49c

FAHNESTOCK CLIPS



Millions of these spring binding posts clips have already been used. Grips wire with just enough pressure for good electrical contact. Made of spring tempered brass. *Bronze

No.	Fig.	Length	Width	Max. Wire	Mtg. Hole	List Price Per C
3	A	$1\frac{1}{8}$ "	$\frac{3}{8}$ "	10	8	\$2.00
10	A	$\frac{3}{4}$ "	$\frac{1}{8}$ "	14	6	1.65
*15	B	$\frac{1}{2}$ "	$\frac{3}{8}$ "	16	4	1.55
9	C	$2\frac{1}{8}$ "	$\frac{3}{8}$ "	10	8	10.00
18	C	$1\frac{1}{2}$ "	$\frac{1}{8}$ "	14	6	9.00

JK-26 JACK



JK-26 jack is a Signal Corps cable type jack. It is used on the end of a cord as a 2 conductor connection and is used only in conjunction with the PL-54 plug.

LIST PRICE\$1.25

BANTAM OPEN AND CLOSED CIRCUIT JACKS



Fig. A

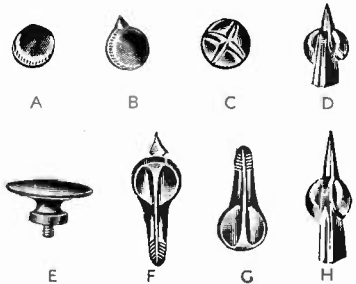


Fig. B

Small sized jacks that fit all standard phone plugs. The contact material is spring tempered nickel silver which will retain its resiliency permanently assuring good contact. Fits $\frac{3}{16}$ " hole in panels up to $\frac{3}{8}$ " thick. Supplied with nut and metal washer. Solder terminals tinned for easy soldering. Available in open and closed circuit.

No.	Fig.	Type	LIST PRICE
102	A	Open	40c
103	B	Closed	45c

BAKELITE KNOBS



These knobs are all made of a very high grade bakelite and are available in various colors as listed below. All are for $\frac{1}{4}$ " shafts and are set screw type, except for telegraph knob.

No.	Fig.	Color	Length	Dia.	LIST PRICE
1500	A	Black	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1501	A	Walnut	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1502	A	Red	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1503	A	Ivory	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	13c
1504	B	Black	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1505	B	Walnut	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1506	B	Red	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	12c
1507	B	Ivory	$1\frac{1}{8}$ "	$\frac{1}{8}$ "	13c
1508	C	Black	$\frac{3}{4}$ "	$\frac{3}{4}$ "	12c
1509	C	Walnut	$\frac{3}{4}$ "	$\frac{3}{4}$ "	12c
1510	C	Red	$\frac{3}{4}$ "	$\frac{3}{4}$ "	13c
1512	D	Black	$1\frac{1}{4}$ "	$\frac{1}{4}$ "	15c
1513	D	Walnut	$1\frac{1}{4}$ "	$\frac{1}{4}$ "	15c
1514	D	Red	$1\frac{1}{4}$ "	$\frac{1}{4}$ "	21c
1515	D	Ivory	$1\frac{1}{4}$ "	$\frac{1}{4}$ "	21c
1516	E	Black	Telegraph Knob		40c
1517	F	Black	2"		22c
1518	F	Walnut	2"		22c
1519	G	Black	$1\frac{5}{8}$ "	$\frac{3}{4}$ "	15c
1520	G	Walnut	$1\frac{5}{8}$ "	$\frac{3}{4}$ "	15c
1521	H	Black	2"		19c
1522	H	Walnut	2"		19c
1523	H	Red	2"		24c
1524	H	Ivory	2"		24c

PLUGS • JACKS • CONNECTORS

TELEGRAPH APPARATUS CO.

INSULATED SOLDERLESS PHONE TIP PLUG



A standard insulated solderless phone tip plug which fits our parts 101, 106, 108 phone tip jacks. Metal parts are nickel plated brass. Overall length 2-3/16". The high lustre insulated handle is 1" long. Available in red, black, green and yellow.

No. 202.....LIST PRICE 18c

SOLDERLESS PHONE TIP PLUG



A standard solderless phone tip plug. Identical to No. 202 above, except for insulated handle.

No. 203 LIST PRICE 10c

INSULATED SOLDERLESS JR. PHONE TIP PLUG



A standard insulated solderless junior phone tip plug made to fit our parts #101 and 106 phone tip jacks. Metal parts are nickel plated brass. The high lustre insulated handle is 1" long. Available in black, red, green and yellow. Overall length 1 7/8".

No. 204.....LIST PRICE 18c

SOLDERLESS JR. PHONE TIP PLUG



A standard solderless junior phone tip plug identical to No. 204 above except for insulated handle.

No. 205 LIST PRICE 10c

Insulated Solderless SPRING BANANA PLUG



This insulated non-collapsible solderless spring banana plug is designed to give the greatest area of contact. Connection is made by a side set screw.

Metal parts are nickel plated brass except the four leaf banana spring which is nickel plated phosphor bronze. The high lustre insulated handle is 1" long. Available in red, black, green and yellow. Overall length 1-11/16".

No. 208 LIST PRICE 20c

Giant Banana Plug & Jack



Designed to handle heavy high frequency currents. Made of nickel plated spring brass.

No. 225—Jack LIST PRICE 30c
226—Plug with threaded shank 35c
227—Plug with 10-32 hole with screw 35c

SPRING BANANA PLUG INSULATED



In this spring banana plug no metal parts are exposed around the insulated handle. Connection is made by soldering to special type tubular lug which is an integral part of metal body. Non-collapsible four leaf banana spring gives maximum area of contact. Metal parts are nickel plated brass except banana spring which is nickel plated phosphor bronze. The high lustre insulated handle is 1" long. Available in red, black, green and yellow.

No. 209.....LIST PRICE 18c

INSULATED SOLDERLESS SPRING BANANA PLUG

(INTERNAL SOLDERLESS FASTENER)



An insulated spring banana plug identical in appearance to our part No. 209 except that connection is made to an internal solderless fastener. The high lustre insulated handle is available in red, black, green and yellow.

No. 210.....LIST PRICE 20c

Insulated Phone Tip Jack



An insulated phone tip jack which makes very positive contact. Contact springs are made of phosphor bronze. Metal parts are nickel plated brass. The high lustre insulated head is 3/8" in diameter. Available in red, black, green and yellow. Fits 1/4" hole in panels up to 1/4" thick. Supplied with nut and insulating washer.

No. 101 LIST PRICE 15c

PHONE TIP JACK



A phone tip jack identical to our part No. 101 above except that it has a non-insulated 5/16" hex head. Metal parts are nickel plated brass.

Fits 1/4" hole in panels up to 3/8" thick.

No. 106 LIST PRICE 10c

Open Circuit Phone Jack



Made to fit all stand-phone plugs. Contact spring made of nickel plated phosphor bronze and body made of nickel plated brass. Highest quality insulating material used. Fits 3/8" hole in panels up to 3/16" thick. Supplied with one metal washer.

No. 100 LIST PRICE 30c

SPRING BANANA PLUG



This spring banana plug is used extensively for plug-in coils, etc. Greater surface contact gives low RF resistance. Threaded shank is 6-32 thread, 3/8" long. Overall length 1-3/16". All metal parts are nickel plated brass except the four leaf banana spring which is nickel plated phosphor bronze. Supplied with soldering lug.

No. 206.....LIST PRICE 11c

SPRING BANANA PLUG



Identical to our part No. 206 above except that threaded shank is 3/4" long.

No. 207.....LIST PRICE 12c

SPRING BANANA PLUG



Identical to No. 206 spring banana plug except that instead of threaded shank it has a female 6-32 thread. Supplied with soldering lug and 6-32 screw.

No. 212.....LIST PRICE 12c

BANANA JACK



A standard banana jack made of nickel plated brass. Overall length 5/8". Fits 1/4" hole in panel. Supplied with solder lug and nut.

No. 105.....LIST PRICE 9c

INSULATED BANANA JACK



All metal parts are nickel plated brass. The high lustre insulated head is available in red, black, green and yellow. Fits 1/4" hole in panels up to 3/8" thick. Supplied with solder lug, insulated washer and nut.

No. 107.....LIST PRICE 15c

Insulated Combination Banana Plug & Phone Tip Jack



An insulated combination banana plug and phone tip jack made to fit our parts Nos. 206, 207, 202, 203, 208, 209, 210, 212, and 220. The phosphor bronze contact springs assure positive contact. Fits 1/4" hole in panels up to 3/8" thick. The high lustre insulated head is

available in red, black, green and yellow.

No. 108 LIST PRICE 20c

STANDARD PHONE TIP



A standard phone tip made of nickel plated brass. Used extensively for connections on head

phone cords.

No. 220.....LIST PRICE, PER 100 \$2.00

TEST PRODS • SHAFT COUPLINGS • CLIPS

TELEGRAPH APPARATUS CO.

AUTO ANTENNA CONNECTOR Instantly Detachable



Comes apart by slight twist. Makes an ideal single contact shielded connector.
No. 402 LIST PRICE 10c

AUTO FUSE CONNECTOR



Used in the battery lead of auto radio for protection. Fits a 3AG type fuse.
No. 403 LIST PRICE 14c

Insulated Alligator Clips



Sturdy clips made with thin jaws, fine meshing teeth and strong spring to assure hard bite. Handles 1" long.

No. 333—Red LIST PRICE 20c
No. 334—Black LIST PRICE 20c

PANEL BEARING ASSEMBLY

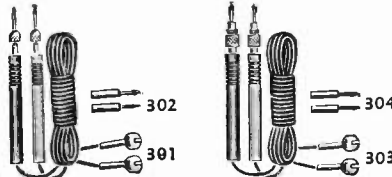


The accurately reamed hole in bearing assures smooth, non-binding operation. Equipped with

bowed spring washer which eliminates sliding forward and backward. Shaft is 1/4" in diameter. Fits 3/8" hole in panels up to 1/8" thick. Made of brass.

No. 1022—3" Shaft LIST PRICE 35c
No. 1023—6" Shaft LIST PRICE 50c

DE LUXE FINGER GRIP PHONO-NEEDLE AND PHONE TIP TEST LEADS



Needle Point

Phone Tip Point

A deluxe test lead set with a ribbed finger grip will eliminate fatigue and slipping. Made of high quality insulating material 6 1/2" long, one each red and black. Supplied with a good grade of true kinkless wire 48" long. Available with phone tips or spade lugs on end as illustrated.

No.	Type	LIST PRICE PER SET
301	Spade lugs	\$1.20
302	Phone tips	1.20
303	Spade lugs	1.20
304	Phone tips	1.20

PANEL BEARING



Accurately machined bearing made to fit 1/4" shafts. Fits 3/8" hole in panels up to 1/8" thick. Supplied with one mounting nut. Body made of brass.

No. 1021 LIST PRICE 15c

SHAFT EXTENDERS, COUPLINGS AND REDUCERS



A



B



C

EXTENDER FIG. A					
Brass No.	Insulated No.	Hole Dia.	Shaft Dia.	Overall Length	List Price
1014	914	3/8	1/4	1 1/8	18c
1015	915	1/4	1/4	1 1/8	18c
1017	917	1/4	3/8	1 1/8	18c

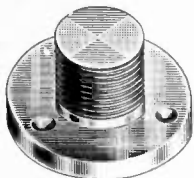
EXTRA LENGTH EXTENDER					
No.	Length	Overall Length	List Price		
1016	1/4	1 3/4	25c		

COUPLING FIG. B					
Brass No.	Insulated No.	Hole Dia.	Hole Dia.	Overall Length	List Price
1011	911	1/4	to 3/8	3/4	18c
1012	912	1/4	to 1/4	3/4	18c

REDUCER FIG. C.					
No.	Reduces a	to	hole	LIST PRICE	
No. 1009	3/8"	to	1/4"	10c	

BRASS AND FIBRE 1/4" SHAFTING					
No.	Material	Length	Dia.	LIST PRICE	
No. 1018	Brass	6"	1/4"	20c	
No. 1019	Brass	12"	1/4"	40c	
No. 1024	Fibre	6"	1/4"	25c	
No. 1025	Fibre	12"	1/4"	50c	

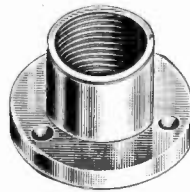
Microphone Base Flanges & Extension Rods



Male Type



New mike stand items for which there has long been a demand. With the male type Base Flange the microphone can be attached directly to the desk, table, pulpit, etc.



Female Type

No.	Type	LIST PRICE
No. 515	Male Flange	\$0.75
No. 516	Female Flange	.75
No. 517	6" Extension Rod	\$0.75
No. 518	12" Extension Rod	1.00

DE LUXE FINGER GRIP PHONO-TIP TEST PROD REMOVABLE PHONO-NEEDLE CHUCK



A ribbed finger grip phono-tip test prod identical to the prod used in the De Luxe test lead at the left.

No.	Color	Length	LIST PRICE
311	Red	4 1/2"	45c
312	Red	6 1/2"	50c
313	Black	4 1/2"	45c
314	Black	6 1/2"	50c

DE LUXE FINGER GRIP SOLDERLESS TIP TEST PROD



Identical to the above except prods are equipped with solderless phone tips.

No.	Color	Length	LIST PRICE
319	Red	4 1/2"	45c
320	Red	6 1/2"	50c
321	Black	4 1/2"	45c
322	Black	6 1/2"	50c

NEEDLE POINT TEST PRODS REMOVABLE PHONO-NEEDLE CHUCK



Test prods are made of non-breakable extruded plastic and available in red and black. Chuck can be removed from prod as well as phono-needle from chuck. All brass parts are nickel plated.

No.	Color	Length	List Price
315	Red	4"	35c
316	Red	6"	40c
317	Black	4"	35c
318	Black	6"	40c

SOLDERLESS TIP TEST PRODS



Identical to above except that test prods are equipped with solderless phone tips.

No.	Color	Length	List Price
323	Red	4"	35c
324	Red	6"	40c
325	Black	4"	35c
326	Black	6"	40c

PHONO-NEEDLE AND PHONE TIP TEST LEADS



Solderless Tip Type Phono Tip Type

Prods are made of non-breakable extruded plastic, 4" long, one each red and black. Supplied with rubber covered kinkless wire 48" long. Insulated for high voltage. Available with non-insulated phone tips, spade lugs or alligator clips as illustrated.

No.	Type	List Price
305	Alligator Clips	\$1.10
306	Spade Lugs	1.00
307	Phone Tips	1.00
327	Spade Lugs	1.00
328	Phone Tips	1.00

INSULATED PHONE TIP JACK



Will accommodate all standard phone tip plugs, of the insulated and non-insulated types. Recommended for use with our Nos. 200 and 201 phone tip plugs. Insulated head $\frac{3}{8}$ " dia. available in Black, Red, Yellow and Green. Mounts in a $\frac{1}{4}$ " hole. Supplied complete with insulating shoulder washer and nut. Specify color.

No. 202.....\$15.00 per C

INSULATED BANANA JACK



Will accommodate all standard banana type plugs. Mounts in a $\frac{1}{4}$ " hole in panels up to $\frac{3}{8}$ " thick. Insulated head $\frac{3}{8}$ " dia. available in Black, Red, Yellow and Green. Supplied complete with insulating shoulder washer, soldering lug, and nut. Specify color.

No. 205.....\$15.00 per C

INSTRUMENT BANANA JACK



Made of brass, nickel plated. Jack receptacle is countersunk and will accept all standard Banana type plugs for a snug and positive contact. Insulated head is $\frac{1}{2}$ " diameter and supplied complete with insulating washer, lock washer, heavy duty soldering lug and nut. Available in Black, Red, Yellow and Green. Specify color.

No. 219.....\$19.00 per C

INSULATED COMBINATION JACK



This combination jack will accommodate all standard plugs, of the phone tip type or banana type construction. Mounts in a $\frac{1}{4}$ " hole in panels up to $\frac{1}{2}$ " thick. Over-all length $1\frac{3}{8}$ ". Supplied complete with insulating shoulder washer and nut. Insulated head available in Black, Red, Yellow and Green. Specify color.

No. 206.....\$20.00 per C

INSULATED SOLDERLESS BANANA PLUGS



Spring type construction, and will fit all standard banana jacks. Tapped hole is provided in rear of plug and small screw machine stud is provided so that wire can be wrapped around and tightened without the need of soldering. Insulated handle is $\frac{3}{4}$ " long and available in Black, Red, Yellow and Green. Specify color.

No. 211.....\$20.00 per C



This plug constructed the same as No. 211 described above, but the plug portion is made of hexagon brass. Plug is also supplied with screw machine stud. Insulated handle $1\frac{1}{2}$ " long and available in Black, Red, Yellow and Green colors. Specify color.

No. 212.....\$25.00 per C

INSULATED SOLDERLESS PHONE TIP PLUGS



Insulated sleeve $\frac{3}{4}$ " long, and available in Black, Red, Yellow and Green. Will fit all standard phone tip jacks and specially recommended for use with our No. 202 insulated jack. The wire fits through the sleeve of plug, and is wrapped around the screw portion, and then tightened with the knurled nut provided, making soldering unnecessary. Specify color.

No.	Type	Per C
200	Plug with No. 105 Tip	\$18.00
201	Plug with No. 106 Tip	17.00

INSULATED PHONE TIP PLUG



Insulated sleeve $\frac{3}{4}$ " long, available in Black, Red, Yellow and Green. The phone tip will plug into all standard phone tip jacks, and the insulated sleeve is so designed to accommodate all standard banana type plugs.

No. 215.....\$15.00 per C

Phone tip only — less insulated sleeve.
No. 125.....\$8.00 per C

INSULATED PHONO NEEDLE TIP PLUG



Insulated sleeve $\frac{3}{4}$ " long, available in Black, Red, Yellow and Green. The body of the plug will accommodate all standard banana type plugs. The sharp needle point phone tip will pierce through corrosion for positive contact.

No. 216.....\$20.00 per C

Needle tip only — less insulated sleeve.
No. 217.....\$12.00 per C

INSULATED SHORT PHONE TIP



Will fit all standard phone tip jacks of the insulated or non-insulated types. Insulated sleeve $\frac{3}{4}$ " long, and available in Black, Red, Yellow and Green. Specify colors.

No. 203.....\$15.00 per C

INSULATED BANANA PLUG Spring Type



Will fit all standard banana type jacks. A set screw is provided in the side of the plug to secure the wire to the plug without soldering. Insulated sleeves $\frac{7}{8}$ " long available in Black, Red, Yellow and Green colors. Over-all length $1\frac{1}{2}$ ". Specify color.

No. 204.....\$20.00 per C

INSULATED BANANA PLUG Split Type



The banana plug is of the split type construction. Insulated handle $\frac{7}{8}$ " long. A set screw is provided in the side of the plug, to secure the wire to the plug without soldering. Available in Black, Red, Yellow and Green colors. Specify colors.

No. 213.....\$20.00 per C

BANANA PLUG AND PHONE TIP JACK COMBINATION



Insulated banana type plug of the spring type construction will fit all standard banana type jacks, and the top of the insulated sleeve of the plug will accommodate all standard phone tips. Insulated handle $1\frac{1}{2}$ " long. Available in Black, Red, Yellow and Green. Specify color.

No. 214.....\$45.00 per C

INSULATED BINDING POSTS



Knurled Insulated Head threaded eliminating the necessity for using a brass bushing. Each Binding Post complete with 6-32 x $\frac{3}{8}$ " screw and lockwasher. Available in Black and Red Colors. Specify Colors.

No.	Head Diameter	Per C
207	$\frac{3}{8}$ "	\$15.00
208	$\frac{1}{2}$ "	15.00

Head Only		Per C
209	$\frac{3}{8}$ "	\$ 6.50
210	$\frac{1}{2}$ "	7.00

INSULATED SPADE LUG



Insulated sleeve $\frac{3}{8}$ " diameter, $\frac{3}{4}$ " long and available in Red and Black colors. The barrel of the insulated sleeve will accommodate all standard type banana plugs.

No.	Type	Per C
218	Insulated Lug	\$15.00
129	Lug only	2.00

ALLIGATOR CLIP



Clips are made so that the jaws match accurately, permitting them to grip all sizes wire accurately. The barrel of clip will accommodate all standard banana type plugs. Made of steel, cadmium plated. Over-all length $2\frac{1}{2}$ ".
No. 300.....\$10.00 per C

INSULATED ALLIGATOR CLIP



Embodies our No. 300 Alligator Clip. Insulated handle $\frac{3}{4}$ " long and will accommodate all standard banana type plugs. Insulated handle available in Black and Red colors. Specify color required.

No. 301.....\$20.00 per C

ALLIGATOR CLIP PHONE TIP JACK



Insulated phone tip jack with No. 300 Alligator Clip. The jack portion will accommodate all standard phone tip plugs. Insulated handle $1\frac{1}{2}$ " long available in Black and Red colors. Over-all length $2\frac{3}{4}$ ". Specify color.

No. 304.....\$45.00 per C

ALLIGATOR CLIP COMBINATION JACK



The insulated jack portion will accommodate all standard phone tip or banana type plugs. Insulated handle $1\frac{3}{4}$ " long available in Black and Red colors. Over-all length $3\frac{1}{2}$ ". Specify color.

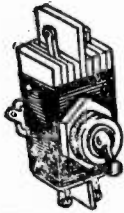
No. 305.....\$50.00 per C

SMITH

Electronic Components
HERMAN H. SMITH, INC.

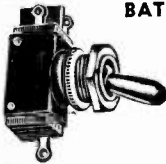
H AND H TOGGLE SWITCHES

Rated 1 Amp. 250 Volts, 3 Amps. 125 Volts. Switches are nickel plated and supplied with mounting nut.



No.	Type	Shaft	Each
500	SPST	1 1/8"	\$0.60
501	SPST	1 1/2"	.66
502	SPDT	1 1/8"	.75
503	SPDT	1 1/2"	.85
504	DPST	1 1/8"	1.15
505	DPST	1 1/2"	1.25
506	DPDT	1 1/8"	1.30
507	DPDT	1 1/2"	1.40
508	On & Off Name Plate		.05

BAT HANDLE TOGGLE SWITCHES



These switches are the same as described above with bat shaped handle. Shaft length 1 1/8".

No.	Type	Each
510	SPST	\$0.60
511	SPDT	.75
512	DPST	1.15
513	DPDT	1.30

ROTARY TOGGLE SWITCHES



Made by H & H, rated at 1 Amp. 250 Volts, 3 Amps. 125 Volts. Switches are nickel plated and supplied with mounting nut.

No.	Type	Threaded Over-all		Each
		Shank	Length	
570	SPST	3/8"	1 1/2"	\$0.80
571	SPDT	3/8"	1 1/2"	.90
572	DPST	3/8"	1 1/2"	1.40
573	DPDT	3/8"	1 1/2"	1.70

SLIDE LEVER SWITCHES



Rated 1 1/2" Amps. 110 Volts. Size 1 3/8" x 1/2". Mounting centers 1 1/8".

No.	Type	Each
515	SPST	\$0.30
516	SPDT	.35
517	DPST	.45
518	DPDT	.50

HEAVY DUTY POWER SWITCHES



These Heavy Duty Power Switches are made by H & H and are specially recommended for use in amplifiers, transmitters, motors and all heavy current circuits where heavy current is carried. Available in 3 types with neutral off in center position.

Rated at 10 Amps. 125 Volts. Measures 2" long, 1" high, 1 1/4" wide, mounting sleeve diameter 5/8".

No.	Type	Each
574	DPDT	\$6.00
575	TPDT	9.00
576	4PDT	13.25

PUSH BUTTON MOMENTARY SWITCH



Two-circuit slow make and break Momentary Switch made by H & H. Solder lug, one circuit normally "ON", one circuit normally "OFF". 5/8" slotted sleeve, rated at 75 Watts. 125 Volts.

No. 580.....\$1.05 each

Casein buttons in Black and Red colors can be obtained for the above switch.....\$.40 each

BANANA TYPE PLUG



This plug is hexed brass, nickel plated. The spring is made of phosphor bronze assuring positive and lasting contact. Plug is constructed with a 6-32 female thread inside and is supplied with a 6-32 screw and soldering lug.

No. 100.....\$12.00 per C

SPLIT TYPE BANANA PLUG



Made of hexed brass, heavily nickel plated over-all. Will fit all standard banana type jacks. Over-all length 1 1/4". Threaded portion 6-32 x 1/2" long. Supplied with two 6-32 hexagon nuts.

No. 104.....\$12.00 per C

BANANA TYPE PLUG Spring Type



Plug and spring are made of brass, nickel plated. The spring type of construction assures positive and lasting contact. Plug is threaded 6-32 and the threaded portion is 1/2" long. Supplied with two 6-32 hexagon nuts.

No. 103.....\$12.00 per C

MIDGET PLUGS AND JACKS Banana Type



Midget banana type plugs and jacks, for use where a minimum amount of space is available. Both plugs and jacks made of brass, nickel plated. A hexagon nut is provided with each plug and jack.

No.	Item	Per C
111	Plug	\$9.00
112	Jack	9.00

PHONE TIP JACK



Will accommodate all standard phone tip plugs of insulated and non-insulated types. Made of brass, nickel plated. Mounts in a 1/4" dia. hole in panels up to 3/8" thick, and is supplied with hexagon nut.

No. 107.....\$10.00 per C

METAL BINDING POST



Made of brass, heavily nickel plated over-all. Supplied complete with screw and washer.

No. 110.....\$25.00 per C

MOLDED BAKELITE SWITCHES



Made by H & H, rated at 3 Amps. 250 Volts, 6 Amps. 125 Volts. Bat Lever type with silver plated contacts. 1 1/8" slotted sleeve.

No.	Type	Shaft	Each
520	SPST	1 1/8"	\$1.05
521	SPDT	1 1/2"	1.20
522	DPST	1 1/8"	1.40
523	DPDT	1 1/2"	1.70

BANANA PLUG JACK



Recommended as the mate for the No. 100 Banana type plug, but will accommodate all standard banana type plugs. Jack is made of brass, heavily nickel plated over-all. Mounts in a 1/4" hole and will fit in panels up to 1/8" thick. Jack is furnished with 1/4-32 nut and soldering lug.

No. 101.....\$12.00 per C

BANANA PLUG JACK



Will accommodate all standard banana type plugs and specially recommended as the mate for Nos. 103 and 104 banana plugs. Made of brass, nickel plated, and mounts in 1/4" hole in panels up to 3/8" thick. Supplied with nut and soldering lug.

No. 109.....\$10.00 per C

MIDGET PHONE JACK



Signal Corps type J 670 — Single open circuit midget phone jack. It mounts in 3/8" hole in panels up to 1/4" thick. Bushing is brass, nickel plated. Springs made of phosphor bronze, and the springs are insulated from the frame by heavy

duty bakelite washers.
No. 122.....\$35.00 per C

SOLDERLESS PHONE TIPS



These tips are constructed so that the wire fits through the body of the tip, and is wrapped around the screw portion, and tightened with the knurled nut provided, making soldering unnecessary.

No.	Length	Per C
105	1 1/2"	\$10.00
106	1 1/8"	10.00

SOLDER TYPE PHONE TIPS



Made of brass, nickel plated. Over-all length 1". Dia. of tip will fit all standard phone tip jacks.

No. 108.....\$20.00 per M

LARGE DIAMETER PHONE TIP

Material of Brass and Nickel plated finish. The barrel is drilled extra large to accommodate heavy wire. Diameter of hole 1/8" — length of barrel 3/8" and over-all length 1".

No. 123.....\$30.00 per M

THREADED PHONE TIPS



Available in either the Solderless Phone Tip type, or the Phono Needle Point type. The chuck is threaded 1/4-32.

No.	Type	Per C
124	Solderless Tip	\$15.00
128	Needle Point	15.00

MINI-MAX CONNECTING STRIP



This fastening connecting strip is spaced so that it will snap into all 67 1/2-Volt Mini-Max "B" batteries such as Eveready Nos. 455, 466 and Burgess Nos. XX30, XX45.

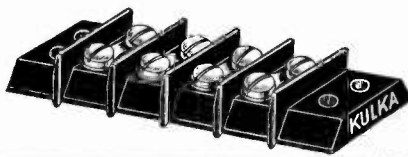
No. 1205.....\$25.00 per C

SMITH

Electronic Components

HERMAN H. SMITH, INC.

HEAVY DUTY BAKELITE BARRIER TERMINAL STRIPS



This latest type of construction of bakelite strip is made of molded bakelite of very high tensile strength. The barriers between each terminal prevent any possibility of short circuits and leakage between terminals. The terminals and screws are brass, nickel plated. These strips are manufactured by the KULKA ELECTRIC MFG. CO. INC., Design Patent No. 136,762 and are exclusively distributed by us to the Radio Parts Distributors.

COLUMN A

All the Barrier Terminal Strips enumerated in Column A for the 1500, 1600 and 1700 series are made with screw type terminals exactly as shown in the illustration at top of page.

COLUMN B



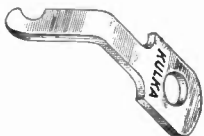
All the Barrier Strips enumerated in Column B for the 1500, 1600 and 1700 series are supplied with the two-solder connection lug illustrated above.

COLUMN C



All the Barrier Strips enumerated in Column C for the 1500, 1600 and 1700 series are supplied with the one-solder connection lug illustrated above.

COLUMN D



All the Barrier Strips enumerated in Column D for the 1500, 1600 and 1700 series are supplied with the bottom type connection lug illustrated above.

No. 1500 SERIES

Height $\frac{1}{2}$ " Width $\frac{3}{8}$ " Thickness $\frac{1}{8}$ ". Terminals are $\frac{3}{16}$ " on centers. Screws 6-40x $\frac{1}{4}$ " long, Binding Head.

Col. A			Col. B			Col. C			Col. D		
No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each
1501	1	\$0.14	1511	1	\$0.17	1521	1	\$0.17	1531	1	\$0.17
1502	2	.22	1512	2	.29	1522	2	.29	1532	2	.29
1503	3	.30	1513	3	.40	1523	3	.40	1533	3	.40
1504	4	.38	1514	4	.52	1524	4	.52	1534	4	.52
1505	5	.46	1515	5	.63	1525	5	.63	1535	5	.63
1506	6	.54	1516	6	.75	1526	6	.75	1536	6	.75
1507	7	.62	1517	7	.86	1527	7	.86	1537	7	.86
1508	8	.70	1518	8	.98	1528	8	.98	1538	8	.98
1509	9	.78	1519	9	1.09	1529	9	1.09	1539	9	1.09
1510	10	.86	1520	10	1.21	1530	10	1.21	1540	10	1.21

No. 1600 SERIES

Height $\frac{1}{2}$ " Width $1\frac{1}{8}$ " Thickness $\frac{3}{16}$ ". Terminals are $\frac{1}{16}$ " on centers. Screws 6-32x $\frac{1}{4}$ " long, Binding Head.

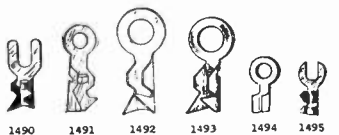
Col. A			Col. B			Col. C			Col. D		
No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each
1601	1	\$0.18	1611	1	\$0.22	1621	1	\$0.22	1631	1	\$0.22
1602	2	.28	1612	2	.37	1622	2	.37	1632	2	.37
1603	3	.38	1613	3	.52	1623	3	.52	1633	3	.52
1604	4	.49	1614	4	.67	1624	4	.67	1634	4	.67
1605	5	.59	1615	5	.82	1625	5	.82	1635	5	.82
1606	6	.69	1616	6	.97	1626	6	.97	1636	6	.97
1607	7	.80	1617	7	1.12	1627	7	1.12	1637	7	1.12
1608	8	.90	1618	8	1.27	1628	8	1.27	1638	8	1.27
1609	9	1.00	1619	9	1.42	1629	9	1.42	1639	9	1.42
1610	10	1.11	1620	10	1.57	1630	10	1.57	1640	10	1.57
1611P	11	1.21	1641	11	1.72	1644	11	1.72	1647	11	1.72
1612P	12	1.31	1642	12	1.87	1645	12	1.87	1648	12	1.87
1613P	13	1.42	1643	13	2.02	1646	13	2.02	1649	13	2.02

No. 1700 SERIES

Height $\frac{5}{8}$ " Width $1\frac{1}{8}$ " Thickness $\frac{3}{16}$ ". Terminals are $\frac{1}{16}$ " on centers. Screws 8-32x $\frac{1}{2}$ " long, Binding Head.

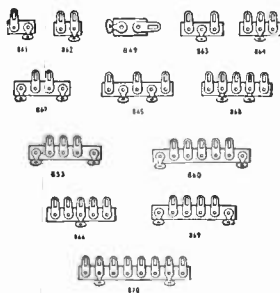
Col. A			Col. B			Col. C			Col. D		
No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each	No.	Terminals	Each
1701	1	\$0.21	1711	1	\$0.27	1721	1	\$0.27	1731	1	\$0.27
1702	2	.33	1712	2	.45	1722	2	.45	1732	2	.45
1703	3	.46	1713	3	.64	1723	3	.64	1733	3	.64
1704	4	.59	1714	4	.82	1724	4	.82	1734	4	.82
1705	5	.71	1715	5	1.01	1725	5	1.01	1735	5	1.01
1706	6	.84	1716	6	1.19	1726	6	1.19	1736	6	1.19
1707	7	.97	1717	7	1.38	1727	7	1.38	1737	7	1.38
1708	8	1.09	1718	8	1.56	1728	8	1.56	1738	8	1.56
1709	9	1.22	1719	9	1.75	1729	9	1.75	1739	9	1.75
1710	10	1.35	1720	10	1.93	1730	10	1.93	1740	10	1.93
1711P	11	1.47	1751	11	2.12	1754	11	2.12	1757	11	2.12
1712P	12	1.60	1752	12	2.30	1755	12	2.30	1758	12	2.30
1713P	13	1.73	1753	13	2.49	1756	13	2.49	1759	13	2.49

SOLDER TYPE LUGS Brass Hot Tinned

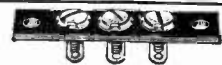


No.	Length	Hole	Per M
1484	$\frac{5}{8}$ "	No. 6	\$ 7.00
1485	$\frac{5}{8}$ "	No. 6	6.00
1486	$\frac{5}{8}$ "	No. 6 & No. 8	6.00
1487	$\frac{5}{8}$ "	No. 6	4.00
1488	$\frac{3}{4}$ "	No. 6	8.00
1489	$\frac{7}{8}$ "	No. 8	8.00
1490	1"		10.00
1491	$1\frac{1}{8}$ "	No. 8	12.00
1493	1"	$\frac{1}{4}$ "	20.00
1492	$1\frac{1}{2}$ "	$\frac{1}{4}$ "	20.00
1494	$\frac{5}{8}$ "	No. 6 & No. 8	7.50
1495	$\frac{5}{8}$ "	No. 8	7.00

TIE DOWN TERMINAL STRIPS



No.	Per C	No.	Per C
849	\$2.75	865	\$5.50
853	5.50	866	5.80
860	9.00	867	4.60
861	2.75	868	6.25
862	3.25	869	6.40
863	3.65	870	8.30
864	4.20		

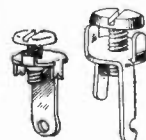


TERMINAL BOARDS Screw Type

Brass, hot tinned lugs mounted on $\frac{1}{8}$ " bakelite. Lugs are spaced $\frac{1}{8}$ " center to center.

No.	Terminals	Mounting Center	Per C
872	2	$1\frac{1}{8}$ "	\$10.00
873	3	$1\frac{3}{8}$ "	15.00
874	4	$2\frac{1}{8}$ "	25.00
875	5	$2\frac{3}{8}$ "	30.00
876	6	$3\frac{1}{8}$ "	35.00
877	7	$3\frac{3}{8}$ "	40.00

TERMINAL LUGS AND SCREWS



1478	1479	No. 1478	\$3.50 per C
		No. 1479	6.00 per C

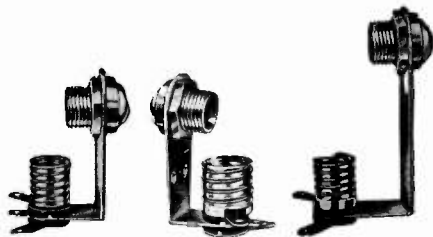
Recommended for heavy duty terminal strips. Lugs are tapped with screw inserted. No. 1478 lug, brass, cadmium plated and No. 1479 lug, brass, hot tinned.

SMITH

Electronic Components

HERMAN H. SMITH, INC.

PANEL INDICATOR 1/2 INCH JEWEL



These panel indicator assemblies are available in the candelabra, miniature screw, or bayonet base type sockets. Jewel holder is made of brass, nickel plated. Jewel mounts in a single 1/8" dia. hole. Candelabra and bayonet base types can also be secured with a universal adjustable bracket for use where more accurate focus of the jewel to lamp filament is required. Facetted jewel available in Red, Green, Amber, Blue, Opal and Clear colors.

No.	Type	Each
1900	Miniature Screw Socket	\$0.34
1901	Candelabra 110 Volt	.34
1902	Candelabra 110 Volt with Universal Bracket	.42
1903	Bayonet Base	.34
1904	Bayonet Base with Universal Bracket	.38

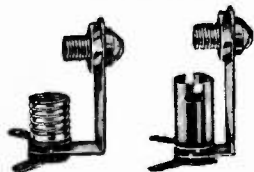
PANEL INDICATOR 3/4 INCH JEWEL



Available with candelabra 110 Volt, miniature bayonet base, and miniature screw type sockets. Jewel holder is made of brass, nickel plated. Jewel mounts in a single 1/8" dia. hole. Facetted jewels available in Red, Green, Amber, Blue, Opal and Clear colors.

No.	Type	Each
1905	Miniature Screw Socket	\$0.73
1906	Miniature Bayonet Base	.80
1907	Candelabra Socket	.73

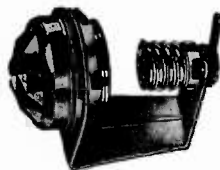
PANEL INDICATOR 5/8 INCH JEWEL



Available with miniature screw type socket, min. bayonet base, or candelabra type sockets. Jewel holder made of brass, nickel plated. Jewel mounts in a single 1/8" dia. hole. Facetted jewels available in Red, Green, Amber, Blue, Opal and Clear colors.

No.	Type	Each
1908	Miniature Screw Socket	\$0.38
1909	Miniature Bayonet Base	.42

1 INCH OPEN TYPE PANEL INDICATOR



Jewel Removable from Front of Panel
This type of panel indicator has the added feature of being able to remove the bulb from the front of the panel. Jewel holder made of brass, chromium plated finish. Jewel mounts in a single 1" dia. hole. The embossed rib in the center of the bracket supplies additional strength, assuring perfect alignment. Available in three types: Miniature screw socket, Miniature bayonet socket and Candelabra type socket. Facetted

jewels available in the following colors: Red, Green, Amber, Blue, Opal, Clear.

No.	Type	Each
1917	Miniature Screw Socket	\$1.22
1918	Miniature Bayonet Base	1.25
1919	Candelabra	1.28

GLASS JEWELS

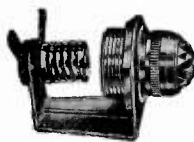


Jewels are available in Red, Green, Amber, Blue, Opal and Clear colors in smooth or facetted types. Jewel holders are brass, nickel plated, and are supplied with mounting nut.

3/8 Inch Jewel MOUNTS IN 3/8" HOLE			3/4 Inch Jewel MOUNTS IN 1/2" HOLE		
No.	Type	Each	No.	Type	Each
1940	Smooth	\$0.20	1913	Smooth	\$0.55
1941	Facetted	.20	1914	Facetted	.55

1/2 Inch Jewel MOUNTS IN 1/2" HOLE			1 Inch Jewel MOUNTS IN 1" HOLE		
No.	Type	Each	No.	Type	Each
1911	Smooth	\$0.23	1915	Smooth	\$1.07
1912	Facetted	.23	1916	Facetted	1.07

1/2 INCH OPEN TYPE PANEL INDICATOR



Jewel Removable from Front of Panel
Jewel holder made of brass, nickel plated. Mounts in a single 1/8" dia. hole. The embossed rib in the center of the bracket gives additional strength and assures perfect alignment. The bulb is easily removable from the front of the panel. Available with Miniature screw type or Miniature bayonet base type sockets, with facetted jewels in the following colors: Red, Green, Amber, Blue, Opal, Clear.

No.	Type	Each
1920	Miniature Screw Socket	\$0.50
1921	Miniature Bayonet Base Socket	.55

CLIP-ON TYPE PILOT LIGHT SOCKETS



This type of socket is available with the clip up or down, and can be used by clipping on to the variable condenser or the chassis. This design socket is made with the miniature screw base, miniature bayonet base, or candelabra 110 Volt types. All brackets are cadmium plated.

No.	Type	Per C
1922	Miniature Screw Up Clip	\$13.00
1923	Miniature Screw Down Clip	13.00
1924	Miniature Bayonet Up Clip	15.00
1925	Miniature Bayonet Down Clip	15.00
1926	Candelabra Up Clip	17.00
1927	Candelabra Down Clip	17.00

BRACKET TYPE PILOT LIGHT SOCKETS



Available with an up or down type of bracket for the miniature screw type, miniature bayonet base, and for the candelabra 110 Volt type sockets. Brackets are made of steel, cadmium plated.

No.	Type	Per C
1928	Miniature Screw Up Bracket	\$13.00
1929	Miniature Screw Down Bracket	13.00
1930	Miniature Bayonet Up Bracket	15.00
1931	Miniature Bayonet Down Bracket	15.00
1932	Candelabra Up Bracket	17.00
1933	Candelabra Down Bracket	17.00

UNMOUNTED TYPE SOCKETS



These unmounted sockets can be secured for the miniature screw shell, miniature bayonet base or for the candelabra 110 Volt types of sockets.

No.	Type	Per C
1934	Miniature Screw Base	\$10.50
1935	Miniature Bayonet Base	11.50
1936	Candelabra 110 Volt	13.50

CLIP-IN SOCKET



This clip-in socket is of the bayonet base type construction, and is assembled with two solder lugs. The special clip in bracket is made of steel, cadmium plated, and is so designed that it clips into the dial directly.

No. 1938.....\$14.00 per C



RUBBER GROMMETS

A: Outside Dia.; B: Inside Dia.; C: Panel Hole; D: Thickness Over-all; E: Panel Thickness.

No.	A	B	C	D	E	Per C
2185	5/8"	1/8"	1/4"	3/16"	1/16"	\$2.00
2171	1/4"	1/16"	1/8"	1/16"	1/16"	2.50
2172	1/2"	3/16"	1/8"	1/16"	1/16"	3.00
2176	1"	3/8"	1/4"	1/16"	1/16"	3.00
2170	5/8"	3/16"	3/8"	1/8"	1/16"	3.50
2173	3/4"	1/4"	1/2"	1/8"	1/16"	3.00
2174	1/2"	3/16"	1/4"	1/8"	1/16"	3.25
2175	3/8"	1/8"	1/4"	1/8"	1/16"	3.50
2177	3/4"	1/4"	1/2"	1/8"	1/16"	3.25

NEUTRALIZING AND ALIGNMENT TOOL



A complete, fully insulated neutralizing tool, screw driver and wrench combination. The fibre wrench portion has a 1/4" hexed socket on one end and a 5/16" hexed socket on the other end. A 1/4" metal screw driver nib on the inside portion of the tool fits into the fibre tube itself.

No. 320.....	\$0.85 each
No. 700—Display of 12 No. 320 Tools,	\$10.20 each

ALIGNING TOOL



For Peanut I.F.'s • For RCA Front End For "K" Tran. Transformers

Slender, yet sturdy, this tool is specially adapted for aligning peanut I.F.'s and the difficult-to-get-at front end of some receivers. Available in bulk or on attractive display card.

No. 326.....	\$0.75 each
No. 778—Display of 24 No. 326 Tools,	\$18.00 each

MIDGET ALIGNING TOOL WITH RECESSED NIB



This recessed nib aligning tool is another essential for television servicing. Constructed from fibre with thin recessed nib for slug tuning. Only 2 1/2" long, it makes those hard-to-get-at slugs accessible while chassis is still in cabinet. Available in bulk or on attractive display card.

No. 327.....	\$0.50 each
No. 779—Display of 48 No. 327 Tools,	\$24.00 each

ALIGNMENT SCREW DRIVER



Fibre handle 3/8" dia. x 6" long, and fitted with a screw driver nib for aligning of coils, padding condensers, etc.

No. 321.....	\$0.40 each
No. 775—Display of 24 No. 321 Drivers,	\$9.60 each

ALIGNMENT TOOL FOR PUSH-BUTTON RECEIVERS



This tool is especially designed for aligning push-button receivers and for adjusting iron core I.F. transformers and R.F. coils. There is a recessed screw driver nib on one end and a screw driver blade on the other. Both ends knurled for easy grip.

No. 325.....	\$0.75 each
No. 777—Display of 24 No. 325 Tools,	\$18.00 each

FIBRE ALIGNMENT SCREW DRIVERS



Made of bone hard fibre and supplied in three sizes.

No.	O.D.	Length	Each
307	3/8"	7"	\$0.40
308	1/2"	6"	.50
328	5/8"	7"	.35
701—Display of 24 No. 307 Drivers.....			9.60
702—Display of 18 No. 308 Drivers.....			9.00
782—Display of 36 No. 328 Drivers.....			12.60

TEST PROD "MAKE YOUR OWN R. F. PROBE"



An exceptionally sturdy fibre prod with rear of prod designed to accommodate 1N-34 crystal and condensers, necessary for use as an R.F. Probe. Heavy duty removable screw type tip for easy soldering.

No. 630.....	\$1.00 each
No. 781—Display of 12 No. 630 Prods,	\$12.00 each

SOLDERLESS TEST PROD HANDLES



Insulated handles, available in Black and Red colors. The wire is fed through the insulated handle and is wrapped around the screw portion of the plug and then tightened with the knurled nut provided, making soldering unnecessary. Specify color.

No.	Over-all Length	Each
302	5 1/4"	\$0.40
303	6 3/4"	.50

PHONO NEEDLE TEST PROD HANDLES



Insulated handles available in Black and Red colors. Wires can be assembled to the metal chuck by unscrewing the chuck from the prod handle. Specify color.

No.	Over-all Length	Each
317	5"	\$0.40
318	6 3/4"	.50

FIBRE TEST PROD HANDLES

Handles are made of fibre and can be obtained with either solderless tips or phono needle tips. Constructed same as our numbers 302 and 317. Handles available in Black and Red colors. Specify color.

No.	Type	Length	Each
323	Solderless Tip	5 1/4"	\$0.30
324	Needle Point	5 1/4"	.30

HEXED FIBRE TUBES



Made of bone hard fibre, and constructed so that if the hex wears out, it can be cut off and the balance of the tube can be used.

1/4" HEX			5/16" HEX		
No.	Each	Size	No.	Each	Size
309	\$0.30	6"	313	\$0.30	6"
310	.35	8"	314	.35	8"
311	.45	10"	315	.45	10"
312	.50	12"	316	.50	12"

FAHNESTOCK SPRING BATTERY CLIPS



Clips are made of brass, nickel plated and are available in the single and double clip types.

No.	Type	Length	Will Take	Per C
533	Single	3/4"	No. 14 B & S Wire	\$1.65
534	Single	1"	No. 10 B & S Wire	2.00
535	Double	1 1/2"	No. 10 B & S Wire	9.00
536	Double	2 1/8"	No. 10 B & S Wire	10.00

TEST LEADS WITH SOLDERLESS TIPS



Fibre handles colored Red and Black, 4" long x 3/8" diameter. Flexible rubber covered wire leads 50" long also colored Red and Black. Available with standard phone tips, spade lugs or alligator clips.

No.	Type	Per Pr.
600	Phone Tips	\$1.10
601	Spade Lugs	1.10
602	Alligator Clips	1.25

PHONO NEEDLE TEST LEADS



Fibre handles colored Red and Black, 4" long x 3/8" diameter. Tips are very sharp phonograph needles. Flexible rubber covered wires 50" long also colored Red and Black. Available with standard phone tips, spade lugs, or alligator clips.

No.	Type	Per Pr.
613	Phone Tips	\$1.10
614	Spade Lugs	1.10
615	Alligator Clips	1.25

ALL SOLDERLESS TEST LEADS



The insulated handles and the insulated plugs are both of the solderless type construction. Insulated handles, Red and Black, are our No. 302, and the plugs are our No. 200. Flexible rubber covered wire leads 50" long.

No. 603.....	\$1.65 per pair
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HEAVY DUTY TEST LEADS



Heavy duty fibre handles 1/2" O.D. x 5 3/8" long, with fibre guard between handle and metal tip to prevent any possibility of shocks. Flexible wire leads 50" long, colored Red and Black. Test leads are available with

standard phone tip, spade lugs or alligator clips.

No.	Type	Per Pr.
620	Phone Tips	\$2.25
621	Spade Lugs	2.25
622	Alligator Clips	2.50

ALLIGATOR CLIP TEST LEADS



Made of very flexible Red and Black wire with alligator clips at each end.

No.	Wire Length	Per Pr.
604	12"	\$0.75
605	24"	.85
606	30"	.95
607	48"	1.05

BAKELITE FLAT PULL CAP



Approved and listed with U. L. This handy unit consists of two halves of bakelite held together by a screw and nut. The prongs are of heavy brass and have screw terminals for connecting wire leads. Attractively designed for visible use and with an "easy-grip" shape to facilitate insertion and removal from any receptacle. Colors: Brown and Ivory.

No.	Color	Per C.
854	Brown	\$17.00
855	Ivory	21.00

BAKELITE PONY CAP



Bakelite Pony Cap with Brass Prongs.

No.	Color	Per C.
858	Brown	\$13.00
859	Ivory	17.00

ATTACHMENT PLUG CAP



A snug-fitting, sturdy, bakelite base designed for use with standard attachment plug caps. Has slot finding features on its face and heavy spring contacts for positive and lasting electrical contact. 660 Watts — 250 Volts.

No. 857.....\$17.00 per C

RUBBER ATTACHMENT — PLUG



Rubber handle attachment plug: Cord Hole $\frac{3}{8}$ " (.375). Rated at 15 Amps. 125 Volts. Blades are made of Brass.

No. 850.....\$15.00 per C

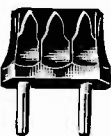
BAKELITE HANDLE PLUG Foreign Type



Moulded bakelite handle foreign type plug. Blades are made of brass, and of the Continental Type spacing.

No. 851.....\$25.00 per C

AMERICAN-FOREIGN PLUG ADAPTER



Streamlined bakelite plug adapter, which adapts from American to foreign type plugs. The plugs will fit snugly into the adapter. The foreign type plugs are made of brass, and are of Continental Type spacing.

No. 852.....\$30.00 per C

AMERICAN-FOREIGN PLUG ADAPTER British Type



Streamlined bakelite plug adapter, which adapts from American to foreign type plugs. The plugs will fit snugly into the adapter. Prongs are made of brass and are of the BRITISH TYPE spacing.

No. 856.....\$30.00 per C

MICROPHONE CONNECTOR Single Contact Male



A completely shielded single contact connector. Made of brass and heavily chrome plated. Mate for No. 116 female connector.

No. 115.....\$0.40 each

MICROPHONE CONNECTOR Single Contact Female



Mate for our No. 117 chassis connector. This connector is used extensively for making connections from microphone to amplifier. Comes equipped with coupling ring. All metal parts are made of brass, heavily chrome plated, except the spring.

No. 116.....\$0.50 each

CHASSIS CONNECTOR Single Contact Male



This type connector is recommended for use on the chassis or in the microphone. Made of brass, heavily nickel plated. Threaded $\frac{3}{8}$ "-.27, and mounts in a $\frac{3}{8}$ " hole. Supplied complete with washers, soldering lug and nut.

No. 117.....\$0.30 each

CLOSED CIRCUIT CHASSIS CONNECTOR



Same as No. 117 Connector except that circuit closes when female microphone connector (our No. 116) is removed. Supplied with washers, soldering lug and nut.

No. 114.....\$0.40 each

FUSE MOUNTING BASES



Black bakelite, panel mount type. Will accommodate the 3 A G Auto type cartridge fuse.

No.	Type	Each
530	Single	\$0.20
531	Double	.30

FUSE CLIPS



Clips are made of spring brass, nickel plated. Will accommodate the 3 A G Auto type cartridge fuse. Clips $\frac{1}{4}$ " wide x $\frac{3}{8}$ " high.

No. 532.....\$1.75 per C

CAP AND CHAIN



Made of brass, heavily nickel plated. The cap seals open end units against dust, eliminating noisy connections. Used with any threaded one or two-conductor chassis unit.

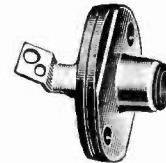
No. 118.....\$0.50 each



PHONO ADAPTER ATTACHMENT PLUG

Phonograph pick-up and auto radio connection plug.

No. 1201.....\$8.00 per C



PHONO JACK

Mate for the No. 1201 plug. Jack mounted on bakelite and metal back supplied for use with phonograph attachment.

No. 1203, \$12.00 per C



MOTOROLA TYPE PLUG

Attachment plug for all Motorola auto-radio receivers and many other types of auto radios.

No. 1200.....\$10.00 per C



MOTOROLA SHIELDED JACK

Shielded Jack for Automobile Chassis which takes standard Motorola Plug.

No. 1207.....\$18.00 per C

LEAD-IN ADAPTER



Lead-in adapter converts Motorola plug to Delco type plug.

No. 1204.....\$11.00 per C



RUBBER FEET BUMPER

Rubber Bumper — $\frac{5}{8}$ " dia. x $\frac{3}{8}$ " thick. Recessed to accommodate a self-tapping screw, machine screw, wood screw or a tack.

No. 2184.....\$4.00 per C

Insert Rubber Bumper — O.D. of shoulder $\frac{1}{2}$ " x $\frac{3}{8}$ " thick. Insert $\frac{1}{8}$ " long tapered from $\frac{1}{8}$ " to $\frac{1}{4}$ ".

No. 2183.....\$3.00 per C



FELT FEET

Available in two types, either with a 6-32 x $\frac{3}{8}$ " machine screw or with an "Anchor Fast" nail, which will stay in place, and will not back up, pull out, or "pop."

No.	Type	Per C.
2181	With Machine Screw	\$6.50
2182	With Stronghold Nail	7.00



PHONO TIP JACK

Brass, nickel plated jacks with positive contact springs mounted on $\frac{1}{8}$ " bakelite. Jacks are $\frac{1}{8}$ " center to center. Jacks will accommodate standard

phone tips of either solderless or solder types.
No. 878.....\$20.00 per C

SMITH

Electronic Components
HERMAN H. SMITH, INC.

STEEL MACHINE SCREWS Round Head, Cadmium Plated

Available in bulk quantities, or can be obtained packed 1,000 or a gross to the box.

No.	Per M	Size	No.	Gross
1000	\$3.40	6-32 x 1/4"	1018	\$0.61
1001	3.60	6-32 x 3/8"	1019	.61
1002	3.90	6-32 x 1/2"	1020	.65
1003	4.20	6-32 x 5/8"	1021	.65
1004	4.55	6-32 x 3/4"	1022	.72
1005	5.20	6-32 x 1"	1023	.85
1006	4.20	8-32 x 1/4"	1024	.65
1007	4.55	8-32 x 3/8"	1025	.72
1008	5.20	8-32 x 1/2"	1026	.85
1009	5.50	8-32 x 5/8"	1027	.98
1010	5.50	8-32 x 3/4"	1028	1.10
1011	6.50	8-32 x 1"	1029	1.25
1012	5.50	10-32 x 1/4"	1030	1.10
1013	6.00	10-32 x 3/8"	1031	1.17
1014	6.50	10-32 x 1/2"	1032	1.25
1015	7.15	10-32 x 5/8"	1033	1.40
1016	7.65	10-32 x 3/4"	1034	1.45
1017	7.80	10-32 x 1"	1035	1.55



RACK SCREWS Oval Head, Steel, Nickel Plated

Specially recommended for mounting panels in racks and cabinets. Available in gross packages or packed 1000 to the box.

No.	Per M	Size	No.	Gross
1102	\$6.50	6-32 x 1/4"	1090	\$0.98
1103	6.85	6-32 x 1/2"	1091	1.05
1104	7.15	6-32 x 3/4"	1092	1.17
1105	7.80	6-32 x 1"	1093	1.30
1106	6.70	8-32 x 1/4"	1094	1.10
1107	7.80	8-32 x 1/2"	1095	1.25
1108	9.10	8-32 x 3/4"	1096	1.45
1109	9.20	8-32 x 1"	1097	1.55
1110	8.45	10-32 x 1/4"	1098	1.45
1111	9.20	10-32 x 1/2"	1099	1.55
1112	10.40	10-32 x 3/4"	1100	1.60
1113	12.35	10-32 x 1"	1101	1.80



COUNTERSUNK WASHERS Brass, Nickel Plated

Recommended for use with Rack Screws designated above.

No.	Per M	Size	No.	Gross
1115	\$6.80	6	1118	\$1.05
1116	7.20	8	1119	1.10
1117	7.20	10	1120	1.10

FLAT AND SHAKEPROOF WASHERS

No.	Per M	Type	No.	Gross
1150	\$1.65	No. 6 Brass N.P.	1146	\$0.30
1151	2.00	No. 8 Brass N.P.	1147	.40
1152	2.00	No. 10 Brass N.P.	1148	.40
1127	3.50	No. 4 Shakeproof Int. Teeth	1121	.55
1128	3.75	No. 6 Shakeproof Int. Teeth	1122	.60
1129	3.75	No. 8 Shakeproof Int. Teeth	1123	.60
1130	3.75	No. 10 Shakeproof Int. Teeth	1124	.60
1132	4.00	1/4" Shakeproof Int. Teeth	1126	.60
1131	7.50	3/8" Shakeproof Int. Teeth	1125	1.10
1139	3.50	No. 4 Shakeproof Ext. Teeth	1133	.55
1140	3.75	No. 6 Shakeproof Ext. Teeth	1134	.60
1141	3.75	No. 8 Shakeproof Ext. Teeth	1135	.60
1142	3.75	No. 10 Shakeproof Ext. Teeth	1136	.60
1144	4.00	1/4" Shakeproof Ext. Teeth	1138	.65
1143	7.50	3/8" Shakeproof Ext. Teeth	1137	1.10

FANCY HEAD BRONZE FINISH SCREWS

No.	Size	Per M
1160	6-32 x 3/4"	\$10.70
1161	6-32 x 1"	11.40
1162	6-32 x 1 1/4"	12.50
1163	6-32 x 1 1/2"	14.00
1164	8-32 x 3/4"	13.50
1165	8-32 x 1"	14.30
1166	8-32 x 1 1/4"	16.25
1167	8-32 x 1 1/2"	21.50



SPECIAL NUTS



Machined of Brass Nickel Plated. Correct sizes for volume controls and toggle switches.

No.	Type	Dimensions	Per M
1195	Volume Control	3/8-32 x 1/2 x 3/8	\$20.00
1196	Toggle Switch	15-32 x 1/8 x 3/8	25.00
1197	Toggle Ring Nut	15-32 x 3/8 x 1/8	30.00

BRASS MACHINE SCREWS Round Head, Nickel Plated

Available in bulk quantities, or can be obtained packed 1,000 or a gross to the box.

No.	Per M	Size	No.	Gross
1044	\$6.10	4-36 x 1/4"	1036	\$0.90
1045	6.25	4-36 x 3/8"	1037	.95
1046	6.40	4-36 x 1/2"	1038	.98
1047	6.10	4-40 x 1/4"	1039	.90
1048	6.25	4-40 x 3/8"	1040	.95
1049	6.40	4-40 x 1/2"	1041	.98
1050	6.40	6-32 x 1/4"	1070	.98
1051	6.80	6-32 x 3/8"	1071	1.05
1052	7.10	6-32 x 1/2"	1072	1.10
1053	7.35	6-32 x 5/8"	1073	1.17
1054	7.80	6-32 x 3/4"	1074	1.25
1055	12.75	6-32 x 1"	1075	1.85
1056	9.45	8-32 x 1/4"	1076	1.40
1057	9.90	8-32 x 3/8"	1077	1.45
1058	10.25	8-32 x 1/2"	1078	1.55
1059	11.65	8-32 x 5/8"	1079	1.70
1060	12.75	8-32 x 3/4"	1080	2.30
1061	16.95	8-32 x 1"	1081	2.50
1062	9.75	10-32 x 1/4"	1082	1.45
1063	12.00	10-32 x 3/8"	1083	1.75
1064	13.00	10-32 x 1/2"	1084	1.95
1065	13.60	10-32 x 5/8"	1085	2.00
1066	14.60	10-32 x 3/4"	1086	2.15
1067	16.95	10-32 x 1"	1087	2.45

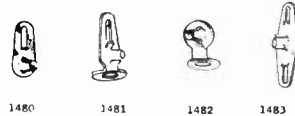
HEXAGON NUTS Brass, Nickel Plated

No.	Per M	Size	No.	Gross
1188	\$7.80	4-36 x 1/4"	1182	\$1.15
1168	7.80	4-40 x 1/4"	1169	1.15
1189	7.80	6-32 x 1/4"	1183	1.15
1190	7.80	6-32 x 3/8"	1184	1.15
1191	9.75	8-32 x 1/4"	1185	1.45
1192	9.75	8-32 x 3/8"	1186	1.45
1193	9.75	10-32 x 1/8"	1187	1.45

Steel, Cadmium Plated

No.	Per M	Size	No.	Gross
1179	\$5.15	6-32 x 1/4"	1176	\$0.85
1180	6.25	6-32 x 3/8"	1177	.98
1181	6.25	8-32 x 1/8"	1178	.98

EYELET TYPE SOLDER LUGS



Made of brass. Nos. 1480, 1481 and 1482 are hot tinned and No. 1483 cadmium plated. Specially recommended for mounting on terminal strips.

No.	Length	Hole	Per M
1480	5/8"	3/16" slot	\$ 4.50
1481	5/8"	No. 8	10.00
1482	1 1/4"	No. 8	7.50
1483	1 1/8"		7.50

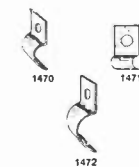
BRASS AND STEEL ANGLES

No.	Material	Size	Per C
1474	Brass N.P.	1/2" x 1/2"	\$2.50
1475	Brass N.P.	5/8" x 5/8"	5.00
1476	Steel H.T.	3/4" x 3/4"	2.00
1477	Steel H.T.	5/8" x 1 1/8"	2.00

TAPPED ANGLE BRACKET

Made of steel, cadmium plated. Size 1/2" x 1/2", with one 8-32 tapped hole and one plain .165 hole.

No. 1473..... \$4.50 per C



CABLE CLAMPS

1470	Steel, Cadmium plated, No. 8 hole, 1. 3/4", w. 3/8". Fits 1/4" cable	\$1.25
1471	Steel, Cadmium plated, No. 8 hole, 1. 5/8", w. 3/8". Fits 3/8-1/4" cable.	1.25
1472	Steel, Cadmium plated, No. 8 hole, 1. 1", w. 3/8". Fits over 1/2" cable.	1.50

SMITH

Electronic Components
HERMAN H. SMITH, INC.

BRASS BUSHINGS



These brass bushings are ideal for use in raising sub panels, chassis, condensers, transformers, etc. Hole in bushing to accommodate a No. 6 or No. 8 screw.

No.	Per C	1/4" O.D. Length	No.	Per C
2100	\$3.50	1/4"	2105	\$3.50
2101	4.00	3/8"	2106	4.00
2102	4.25	1/2"	2107	4.25
2103	5.00	3/4"	2108	5.00
2104	5.50	1"	2109	5.50
		3/8" O.D.		
2110	\$4.25	1/4"	2115	\$4.25
2111	4.75	3/8"	2116	4.75
2112	5.00	1/2"	2117	5.00
2113	5.50	3/4"	2118	5.50
2114	6.25	1"	2119	6.25

THREADED BRASS BUSHINGS

Brass bushings 1/4" O.D. Threaded 6-32 and 8-32.

Threaded 6-32		Threaded 8-32		
No.	Per C	Length	No.	Per C
2120	\$4.25	1/4"	2125	\$4.25
2121	5.25	3/8"	2126	5.25
2122	6.50	1/2"	2127	6.50
2123	7.50	3/4"	2128	7.50
2124	8.50	1"	2129	8.50



KNURLED BATTERY NUTS Brass, Nickel Plated

No.	Dimensions	Per C
1198	6-32 x 1/4" x 1/8"	\$2.50
1199	8-32 x 1/4" x 1/8"	2.50



MINI-SHIELDS The Perfect Shield For Mini-Tubes

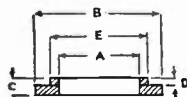
These new Mini-Shields are formed to fit snugly and yet expand to a constant snug fit on larger tubes to automatically compensate for the considerable variation in physical dimensions of miniature tubes as commercially produced.

Specially shaped serrations spaced to engage the lower mini-shield ribs catch and hold the shield firmly which actually tightens against vibrations or other forces tending to jiggle the tube loose.

These shields are made so that three rows of dimples pressing against the tube provide a gentle but firm snug fit. The three prong spring base clip grips the shield positively, cradling the tube within the shield and retaining it firmly in the socket secure against vibration. These Mini-Shields are available in two sizes to accommodate tubes 1 1/2" long and 2" long.

No.	Type	Over-all Length	Per C
550	For 2" Tube	1 3/4"	\$12.00
551	For 1 1/2" Tube	1 1/4"	10.00
553	3-Prong Base Clip		5.00
554	Single Clips		3.00

FIBRE SHOULDER WASHERS



A. Inside Diameter
B. Outside Diameter
C. Thickness Over-all
D. Height of Shoulder
E. Diameter of Shoulder

No.	A	B	C	D	E	Per M
2150	.140	.375	.093	.031	.237	\$10.50
2151	.110	.250	.062	.031	.187	8.50
2152	.136	.250	.093	.031	.187	9.00
2153	.136	.312	.093	.031	.187	10.00
2154	.250	.500	.068	.028	.312	11.00
2155	.172	.375	.093	.031	.246	9.75
2156	.196	.375	.093	.031	.308	9.75
2157	.375	.750	.093	.031	.500	13.00
2158	.385	.625	.093	.031	.500	12.50

FLAT FIBRE WASHERS

No.	I.D.	O.D.	Thickness	Per M
2160	.136	.250	1/16"	\$8.25
2161	.110	.250	1/16"	8.25
2162	.140	.375	1/16"	7.50
2163	.172	.375	1/16"	7.50
2164	.196	.375	1/16"	7.50
2165	.250	.500	1/16"	8.00
2166	.250	.500	3/32"	8.25
2167	.312	.500	1/16"	8.00
2168	.385	.625	1/16"	9.75
2169	.375	.750	1/16"	12.00



MINI-SPRING FOR MINI-TUBES For Table Radios • Electronic Equipment Radio Receivers

The Mini-Tube guard gives support to the Mini-Tube in two ways. It maintains a direct axial pressure downwards plus a sideways support that keeps the tube upright and perpendicular to the chassis. The spring action is constant and resilient permanently. If your radio equipment has an inclined chassis . . . or the tubes are mounted upside down or horizontally . . . or if it is subject to any vibration . . . or if your demand is constantly superior trouble-free reception, Mini-Tube guards are the only way to insure that tubes stay in place forever.

No.	Type	Per C
560	Short	\$12.00
561	Medium	12.00
562	Long	12.00
563	9-Prong	12.00



GRID CAP SHIELD

Shield is slotted on the side, for passage of the grid lead wire. The shield fits snugly over the grid cap of the tube, completely shielding same. Shield is cadmium plated finish.

No. 537.....\$10.00 per C



BRASS AND INSULATED COUPLINGS

For use on electronic equipment wherever a shaft extension is required. O.D. 7/8" x 3/4" long.

No.	Material	Type	Each
120	Brass	1/4" to 1/4"	\$0.20
140	Insulated	1/4" to 1/4"	.20
131	Brass	3/8" to 1/4"	.20



STEEL SPADE BOLTS

Steel, cadmium plated finish, threaded 6-32, thread length 1/8", length over-all 3/4".

No. 1500.....\$8.45 per M



BRASS AND INSULATED EXTENDERS

For use on electronic equipment wherever a shaft extension is required. Over-all length 1 3/4", shaft length 1 1/2".

No.	Material	Type	Each
130	Insulated	1/4" to 1/4"	\$0.30
150	Brass	1/4" to 1/4"	.30
132	Brass	3/8" to 1/4"	.30

THREADED BRASS RODS

Rods ordinarily supplied in 2-foot lengths; if one-foot length is required, please specify.

No.	Size	Per Foot
1400	6-32	\$0.30
1401	8-32	.30
1402	10-32	.40
1403	1/4" - 20	.45

BEARING FOR PANEL ASSEMBLY



Made of brass, and fits in 3/8" diameter hole in panels up to 1/4" thick. Bearing is made to accommodate 1/4" shafts. No. 119.....\$0.20 each

PANEL BEARING ASSEMBLY



This panel bearing is accurately machined and is specially recommended for use as dial drives, or for mounting volume controls, switches, etc. Over-all length 1 1/8". Supplied with nut. Drive shaft 1/4" O.D.

No. 126.....\$25.00 per C

BRASS AND INSULATED RODS

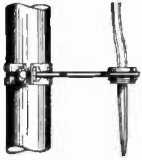
These rods are available in both brass and insulated material.

No.	Type	Length	Dia.	Each
1404	Brass	6"	1/4"	\$0.20
1405	Brass	12"	1/4"	.40
1406	Insulated	6"	1/4"	.20
1407	Insulated	12"	1/4"	.40

We are also in a position to supply brass and insulated rods of various diameters and will gladly quote upon receipt of inquiry.

TELEVISION ANTENNA ACCESSORIES

CLAMP STAND OFF FOR ANTENNA MAST



A quick method for securing the antenna line down the mast. Simply slip clamp over the mast and tighten. It is not necessary to hold the nut to tighten. For antennas already installed, open the clamp and slip it around the mast. Thirty seconds and

the operation is complete! Available in two sizes and supplied completely assembled with 3 1/2" screw eyes with molded polyethylene inserts as shown above for twin lead, coaxial cables or with universal insert which accommodates either twin lead or coaxial cables.

For 7/8" and 1" Masts

No.	Type	Per C
1255	With Twin Lead Insert	\$13.00
1261	With Coaxial Insert	15.00
1266	With Universal Insert	13.00

For 1 1/8" and 1 1/4" Masts

1256	With Twin Lead Insert	13.00
1262	With Coaxial Insert	15.00
1267	With Universal Insert	13.00

LAG SCREW EXPANSION SHIELD



This expansion shield is extensively used in television antenna installations. Made of a special alloy — 100% rust-proof. Newly designed threads hold greater load and external corrugations (ribs) give additional strength on masonry. This shield is 1" long x 1/2" O.D. and takes our standard 1/4" x 1 1/4" lag screw.

No. 1230.....\$18.00 per C

STUD ANCHORS



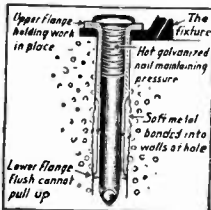
Stud Anchor consists of Cone-Headed Bolt, Lead Alloy Sleeve-Metal Cone and Square Nut completely assembled as at left.

The bolt has two fins on its tapered section to lock into lead sleeve after the anchor has been set. This prevents the bolt from turning when the square nut is tightened Fits into a 1/2" hole and is 2" long over-all.

Instructions for Installation: Drill hole proper diameter and depth — place Star Stud in anchor into hole, head of the bolt first — remove the square nut — place setting tool or piece of pipe over bolt and hammer anchor solidly.

No. 1232.....\$18.00 per C

DRIVE IN EXPANSION SHIELD



This is an expansion shield which uses nails as an expansion on locking pin. Drill 3/4" hole in the masonry and pass shield through mounting hole of object being attached so that top flange remains above fixtures. The nail, under the hammer blow, forces the lead into all the irregularities of the masonry hole, then passes through and locks anchor flange of bottom under the lead. The length of the shield is 1 1/2".

No. 1233.....\$15.00 per C

GUY WIRE

An exceptionally high grade of steel galvanized guy wire for anchoring antenna masts. Available in two sizes, STANDARD—6 strands of No. 20; EXTRA HEAVY—6 strands of No. 18.

6 STRANDS No. 20			6 STRANDS No. 18		
No.	Each	Length	No.	Each	Length
1250	\$0.80	50-foot Coil	1271	\$1.25	50-foot Coil
1251	1.50	100-foot Coil	1272	2.50	100-foot Coil
1252	7.00	500-foot Spool	1273	12.30	500-foot Spool
1253	13.20	1000-foot Spool	1274	24.50	1000-foot Spool

This Guy Wire is also available in both sizes in 50-Foot Connected Coils, two dozen coils to the carton.

6 STRANDS No. 20 No. 1278 \$16.50 Each Carton
6 STRANDS No. 18 No. 1279 \$22.00 Each Carton
Each Carton: 24 Coils — 1200 Feet

SCREW EYE STAND OFF INSULATORS

With Molded Polyethylene Inserts



This screw eye has a special low-loss polyethylene insert and is specially designed for use in 300-ohm line television installations.

Twin Lead Insert

No.	Size	Per C
1210	3 1/2"	\$6.95
1240	7 1/2"	9.00

Coaxial Cable Insert

1260	3 1/2"	7.80
1270	7 1/2"	9.75

Universal Insert

1265	3 1/2"	6.95
1280	7 1/2"	9.00



EYE BOLT ASSEMBLY

This is the only Eye Bolt Anchor designed for anchoring antenna guy wire in brick or masonry. Made of 1/4" material, over-all length 2 1/2", fits into hole, closing gap 3/32". Rust-proofed. Can only be used with our No. 1229 tamping tool shown on Page U-76b.

No. 1227.....\$18.00 per C



EYE BOLT

Sturdy steel eye bolt for use where guy wire is necessary for T.V. mast installation. Inside diameter 3/8", shank length 1 1/8", thread length 1 1/4".

No. 1249.....\$8.00 per C



BRIDLE RING

Heavy duty steel bridle ring 5/8" long. Another essential item where guy wire is used in T.V. mast installation.

No. 1238.....\$10.00 per C



ANCHOR BOLT

Rust-proofed anchor designed for lasting and permanent anchorage for fastening wall mounts and pipe straps to masonry. Free tamping tool with each 100 Bolts.

No.	Bolt Length	Per C
1246	2"	\$15.00
1247	3"	18.00
1248	4"	22.00



TOGGLE BOLT

A spring wing toggle bolt useful for mounting objects against hollow concrete. Clamp is galvanized steel and screw is 1/4" O.D. x 3" long.

No. 1223.....\$22.00 per C



WOOD SCREW ANCHOR

Especially designed to give permanent anchorage in any kind of masonry for 300-ohm and coaxial stand-offs. Tapped for wood screw. Free tamping tool with each 100 anchors.

No. 1226.....\$11.00 per C



LAG BOLT

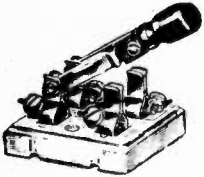
No.	Size	Per C
1213	1/4" x 1 1/4"	\$6.00

SMITH

Electronic Components

HERMAN H. SMITH, INC.

TELEVISION ANTENNA ACCESSORIES



MIDGET KNIFE SWITCHES

Midget knife switches ideal for use in rear of television receiver where two antennas are used. Screw terminals placed for easy connection and two holes in each type base for mounting.

No.	Type	Type Base	Each
1241	S P S T	Porcelain	\$0.40
1242	S P D T	Bakelite	.50
1243	D P S T	Porcelain	.70
1244	D P D T	Bakelite	.80



MIDGET TURNBUCKLES

No.	Diameter of Bolt	Over-all Length Closed	Over-all Length Extended	List Price Each
1215	5/32"	3 3/8"	4 5/8"	\$0.21
1216	1/8"	4"	5 5/8"	.23
1217	3/32"	4 1/2"	6 3/8"	.25
1218	1/4"	5 1/2"	7 5/8"	.30
1219	5/16"	6 3/4"	9 1/4"	.50
1220	3/8"	7 1/2"	10 1/2"	.75

CARBIDE TIPPED MASONRY DRILLS



These drills are carbide tipped and have a spiral fluted body. It penetrates freely and easily, giving clean, accurate holes. Individually packed complete with operating instructions.

No.	Size	Each
1234	1/4"	\$3.75
1236	3/8"	4.75
1235	1/2"	6.00

TAMPING TOOLS

An absolutely essential item for T.V. antenna installation to insure proper setting of all anchor bolts in masonry.



No.	Description	Each
1228	No. 2 Tool for 1/4" Bolts	\$2.00
1229	No. 6 Tool for Eye & Loop Bolts	4.75

LEAD ANCHORS FOR WOOD SCREWS



This is a new design anchor which gives greater holding power; requiring a smaller installation hole for the corresponding size screws. It takes more sizes of screws grouped in a more convenient series than other designs. It also has a larger range of holding power through various sizes of hole diameters. These anchors are 3/8" O.D., take a 10-12-14 wood screw and are forced into a 3/8" or 1/2" hole.

No.	Length	Per C
1231	1"	\$ 7.00
1239	1 1/2"	10.00



RUBBER STAND-OFF

Made of 1/8" heavy duty rubber, this stand-off is especially designed for either coaxial cable or standard twin-lead cable. Fits on any mast or cross arm with O.D. varying from 1" to 1 1/4".

No. 1263	\$10.00 per C
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PORCELAIN STAND-OFF

Made to accommodate twin 300-ohm lead-in wire. Moisture-Proof Porcelain maintains firm grip on wire. Screw for mounting in either wood or masonry.

No. 1245	\$20.00 per C
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SOLDERLESS TERMINAL LUGS

These lugs are easily applied and do not require the use of any special tool. They are designed to give a trim appearance to an otherwise unsightly wire connection. They fold neatly over the stranding and confine it directly under binding screw or nut and automatically insure greatest possible contact. The cushion-like construction of these lugs, when closed, permits binding nut or screw to sink into the soft copper and so serves the purpose of a lock nut and is therefore vibration-proof. Packed 100 per box.



No.	Wire Size	Type	Length	Per C
1459	18 to 14	Double Cup	3/8"	\$3.50
1460	18 to 10	" "	1/2"	3.75
1461	18 to 10	" "	5/8"	4.00
1462	18 to 14	Single Cup	1/4"	1.50
1463	18 to 14	" "	3/8"	1.75



AIRPLANE INSULATOR

White glazed, low absorption porcelain insulator 2" long.

No. 1283	\$9.00 per C
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ANTENNA HANK

Cotton covered copper antenna hank.

No. 1222	\$30.00 per C
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ANTENNA CONNECTOR



For use as connection of auto radio antenna lead-in to auto radio receiver.

No. 1300	\$10.00 per C
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FUSE RETAINER



Recommended for use in auto radio power supply cables.

No. 1301	\$15.00 per C
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Parts for No. 1300 Antenna Connector and No. 1301 Fuse Retainer

No.	Item	Per C
1305	Male Cap for No. 1300 and No. 1301	\$2.50
1306	Female Shell for No. 1300	2.50
1307	Contact for No. 1300 and No. 1301	2.50
1308	Spring for No. 1300 and No. 1301	.50
1309	Washer for No. 1300 and No. 1301	.40
1310	Insulating Tube for No. 1301	.60
1311	Female Shell for No. 1301	5.50

JUMBO FUSE HOLDERS



For use with Philco and Motorola Auto Receivers; all parts comprising bushings, springs, contacts, etc., are furnished un-assembled, packed in individual envelopes.

No.	Type	Length	Each
1302	For 9 Amp.	2" Long	\$0.25
1303	For 14 Amp.	2 1/2" Long	.30

THE NEW IMPROVED JFD REMOTE-O-CABLE REPLACER

The Most Efficient Auto
Radio Tuning Cable-
Servicing Machine
in Use Today!

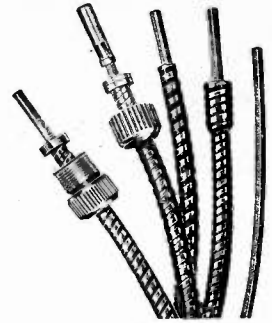
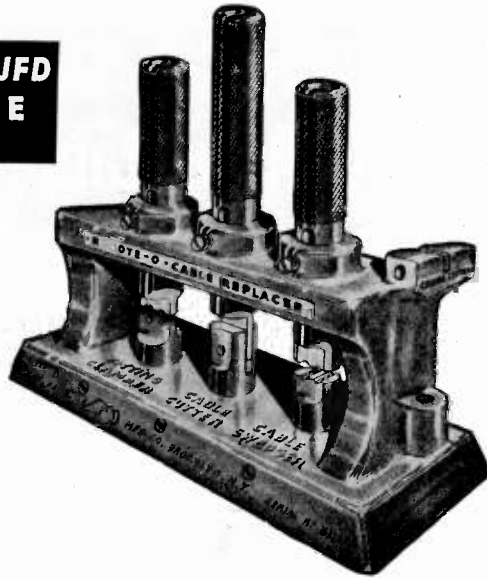
Completely redesigned to meet MOD-ERN Servicing requirements, the NEW JFD REMOTE-O-CABLE REPLACER is a vital necessity in the workshop of every auto-radio serviceman.

1. SWEDGES SHAFTHING TO PREVENT UNRAVELLING.
2. CUTS SHAFTHING TO EXACT LENGTH.
3. REPLACES OLD FITTINGS ON NEW SHAFTHING.
4. CASING GROOVE MAKES CUTTING EASY.

ANY JOB PROMPTLY DONE AND DELIVERED—The Remote-O-Cable Replacer + 50 feet of shafting and casing + an assortment of fittings and you are fully equipped.

USE OLD FITTINGS ON NEW SHAFTHING—No need to wait for special lengths or odd fittings.

NO DELAY—Shafting of any length immediately available.



**SERVICEMEN'S
NET COST
\$67.52**

Size: Length, 10½". Width, 4¼". Height, 13". Weight, 29¼ lbs.

NO LOSS OF HEADS OR SHAFTHING—Shafting of any make radio immediately changed to fit any dashboard head.

FRONT—REAR—ANYWHERE—Radio control in any part of the car.

EXACT LENGTH OF SHAFTHING DOES IT—Maximum tuning efficiency.

AUTO RADIO CONTROL SHAFTHING AND CASING

UNSWEDGED "LIVE" SHAFTHING

Type CB
.130 gauge
\$0.18 per ft. List
Type CA
.150 gauge
\$0.23 per ft. List

NON-RAVELLING DEAD SHAFTHING

Type CD
.130 gauge
\$0.20 per ft. List
Type CC
.150 gauge
\$0.26 per ft. List

CASING FOR ALL SHAFTINGS

Type HB
.130 gauge
\$0.18 per ft. List
Type HA
.150 gauge
\$0.23 per ft. List

AUTO RADIO CONTROL SHAFTHING AND CASING CUT TO LENGTH

.130 CABLE AND CASING — List Prices

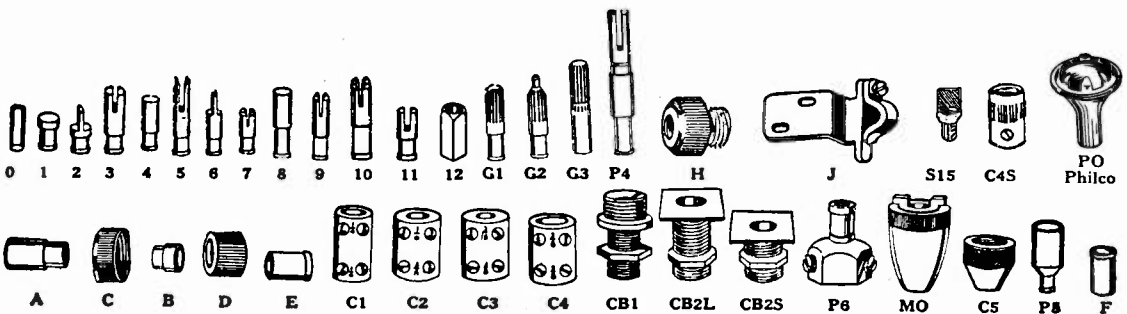
	18"	24"	30"	36"	42"	48"
Shafting only CB .130 Gauge	\$0.50	\$0.60	\$0.71	\$0.81	\$0.92	\$1.02
Casing only HB for .130 Gauge	.50	.60	.71	.81	.92	1.02
Shafting & Casing Complete CB HB .130	1.00	1.20	1.42	1.62	1.84	2.04

.150 CABLE AND CASING — List Prices

	18"	24"	30"	36"	42"	48"
Shafting only CA .150 gauge	\$0.57	\$0.70	\$0.84	\$0.96	\$1.10	\$1.22
Casing only HA for .150 gauge	.57	.70	.84	.96	1.10	1.22
Shafting & Casing Complete CA HA .150	1.14	1.40	1.68	1.92	2.20	2.44



Auto Radio Tuning Cable Fittings Gear & Couplers



Nos. 0, 1, 7, B, E..... Lots of 20 @ \$0.10 ea. List
Nos. C, D..... Lots of 20 @ .10 ea. List
Nos. 2, 4, 8, 11, F..... Lots of 20 @ .10 ea. List
Nos. 3, 5, A..... Lots of 20 @ .13 ea. List

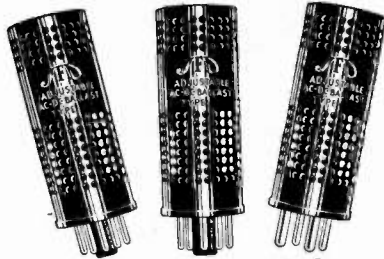
Nos. 6, 9, 10, 12, C1, C2, C3, C4, C5, J, S15
Lots of 10 @ \$0.20 ea. List
Nos. C4S, CB1, CB2L, CB2S, P5, P6..... Lots of 5 @ .33 ea. List
Nos. M0130, M0150..... Lots of 10 @ .30 ea. List
Nos. G1, G2, G3, P4, H, PO..... Lots of 5 @ .25 ea. List



Improved • Air-Cooled AC-DC Adjustable Ballasts



Just
3 Adjustable Ballasts
Replace Over **3000**
Exact Duplicate AC-DC Resistance Tubes!



Type A
8 Prong

Type B
8 Prong

Type C
4 Prong

Dealer's and Serviceman's Kit
Improved • Air-Cooled
AC-DC Adjustable Ballasts

No. 770—SERVICEMEN'S KIT
contains 5 Ballasts: 2 Type A, 2 Type B,
1 Type C Ballasts together with listing of
over 2500 replacements and complete in-
structions.....List Price \$7.50

**JFD IMPROVED AIR-COOLED ADJUST-
ABLE AC-DC BALLASTS HAVE
THESE IMPROVEMENTS:**

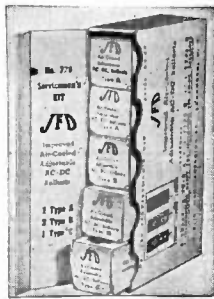
1. Air-Cooled Perforated Shell
2. Larger Insulating Surface
3. Longer Life, Heavier Resistance Wire
4. Exact Adjustments made

LIST PRICE \$1.50 ea.

Over 3,000,000 JFD Adjustable Ballasts have been sold since 1934 — practically every one still in use, giving service and satisfaction.

**GET THIS FREE
AC-DC BALLAST
TUBE MANUAL!**

Contains valuable information on how to adapt adjustable ballasts to all service jobs. Simply send 12 flaps from JFD Dial Belt envelopes and 10c in stamps (to cover mailing) to JFD MANUFACTURING CO. INC., 4117 Ft. Hamilton Parkway, Brooklyn 19, New York, U. S. A. (Further Details on Page 37.)



USE JFD BALLASTS	TO REPLACE AC-DC RESISTANCE TUBES		
	Beginning with Letter	With Numbers Including	Ending with letter
"A" Ballasts	K, L, M, BK, BL, or BM	6 through 42	A, B, C, D, F, G, or H
"B" Ballasts	K, L, M, BK, BL, or BM	45 through 105	A, B, C, D, F, G, H, S1, S2, S3
"C" Ballasts	All 4 prongs	80 through 350	R, R4, R8, L, L4, L8

AC-DC STANDARD TUBES—RMA STANDARD CODING

Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price	Type No.	List Price		
10A	Addison \$1.00	M36B	1.00	M42D	1.00	L49B	1.00	BK55D	1.00	M73B	1.00
17A	1.00	M36C	1.00	M42E	1.00	L49BJ	1.25	K55F	1.00	K74B	1.00
K17B	1.00	M36D	1.00	M42F	1.00	L49C	1.00	K55H	1.00	K74C	1.00
K17C	1.00	42A	1.00	M42H	1.00	L49CJ	1.25	KX55A	1.25	K74D	1.00
L17B	1.00	42B2	1.25	49A	1.00	L49D	1.00	KX55B	1.25	80A	1.00
L17C	1.00	K42B	1.00	K49B	1.00	L49DJ	1.25	KX55C	1.25	K80B	1.00
K22B	1.00	K42BJ	1.25	K49BJ	1.25	L49E	1.00	L55B	1.00	K80C	1.00
K23B	1.00	BK42B	1.00	BK49B	1.00	L49F	1.00	L55C	1.00	K80D	1.00
L23B	1.00	BL42B	1.00	K49C	1.00	LX49B	1.25	L55CP	1.25	K80F	1.00
L23C	1.00	K42C	1.00	BK49C	1.00	LX49C	1.25	L55D	1.00	K80H	1.00
33A	1.00	BK42C	1.00	K49CJ	1.25	LX49D	1.25	L55F	1.00	L80B	1.00
33AG	1.00	BL42C	1.00	K49D	1.00	M49B	1.00	L55H	1.00	L80C	1.00
36A	1.00	K42D	1.00	BK49D	1.00	M49C	1.00	M55B	1.00	M80C	1.00
K36B	1.00	BK42D	1.00	K49E	1.00	M49D	1.00	M55C	1.00	M80B	1.00
BK36B	1.00	KX42A	1.25	K49F	1.00	M49H	1.00	M55D	1.00	M80C	1.00
K36BJ	1.25	KX42B	1.25	K49H	1.00	50	1.00	M55E	1.00	K87B	1.00
K36C	1.00	KX42C	1.25	KX49A	1.00	K52H	1.00	M55H	1.00	90A	1.00
K36D	1.00	L42B	1.00	KX49B	1.25	55A	1.00	60R30	1.25	K90B	1.00
K36H	1.00	L42BJ	1.25	KX49C	1.25	K55A	1.00	62A	1.00	K90C	1.00
KX36A	1.25	L42C	1.00	KX49D	1.25	K55B	1.00	K67B	1.00	92A	1.00
KX36B	1.25	L42CJ	1.25	KY49A	1.25	BK55B	1.00	K67BJ	1.25	K92B	1.00
KX36C	1.25	L42D	1.00	KY49B	1.25	BL55B	1.00	K67C	1.00	K92C	1.00
L36B	1.00	L42DJ	1.25	KY49C	1.25	BM55B	1.00	K67D	1.00	K92D	1.00
L36C	1.00	L42E	1.00	KZ49A	1.25	K55C	1.00	L67C	1.00	K92F	1.00
L36D	1.00	M42B	1.00	KZ49B	1.25	BK55C	1.00	K72B	1.00	K92H	1.00
L36DJ	1.25	M42C	1.00	KZ49C	1.25	K55D	1.00	K73C	1.00		

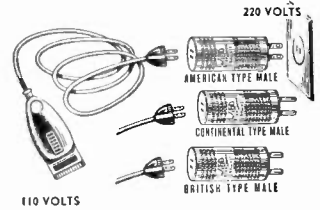
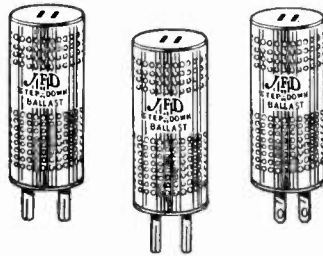
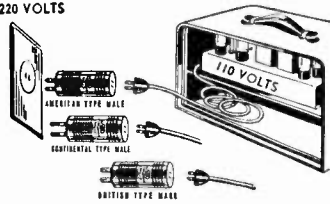


Plug-in type

RESISTOR BALLASTS

STEP-DOWN FROM 220 VOLTS TO 110 VOLTS

220 VOLTS



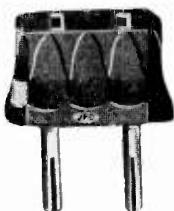
JFD STEP-DOWN BALLAST

Use JFD voltage reducing ballasts on 220 volt current supply if you want to operate 110 volt appliances. Excellent for radios, floor lamps, clocks, therapeutic lamps, electric blankets, etc.

Catalog No.	Resist.	Current	Voltage Drop	Watts	Male End	Female End	Load	List Price
450	97	1.13	220-110	125	American	American	125 W Infra Red Therapeutic Lamp	\$2.40
451B	97	1.13	220-110	125	British	American	125 W Infra Red Therapeutic Lamp	2.40
451C	97	1.13	220-110	125	Continental	American	125 W Infra Red Therapeutic Lamp	2.40
456	250	.44	220-110	65	American	American	35-65 W Radio Heating Pads	2.40
457B	250	.44	220-110	65	British	American	35-65 W Radio Heating Pads	2.40
457C	250	.44	220-110	65	Continental	American	35-65 W Radio Heating Pads	2.40
458	300	.35	220-110	38	American	American	4-5 Tube AC-DC Radio, .3 Amp tubes	2.40
459B	300	.35	220-110	38	British	American	4-5 Tube AC-DC Radio, .3 Amp tubes	2.40
459C	300	.35	220-110	38	Continental	American	4-5 Tube AC-DC Radio, .3 Amp tubes	2.40
462	500	.22	220-110	25	American	American	General Use	2.40
463B	500	.22	220-110	25	British	American	General Use	2.40
463C	500	.22	220-110	25	Continental	American	General Use	2.40
464	560	.20	220-110	25	American	American	5 Tube AC-DC Radio Using .15 Amp tubes	2.40
465B	560	.20	220-110	25	British	American	5 Tube AC-DC Radio Using .15 Amp tubes	2.40
465C	560	.20	220-110	25	Continental	American	5 Tube AC-DC Radio Using .15 Amp tubes	2.40
466	660	.167	220-110	8	American	American	General Use	2.40
467B	660	.167	220-110	8	British	American	General Use	2.40
467C	660	.167	220-110	8	Continental	American	General Use	2.40
468	1345	.082	220-110	9	American	American	Electric Razor	2.40
469B	1345	.082	220-110	9	British	American	Electric Razor	2.40
469C	1345	.082	220-110	9	Continental	American	Electric Razor	2.40
470	6000	.018	220-110	2	American	American	Electric Clock	2.40
471B	6000	.018	220-110	2	British	American	Electric Clock	2.40
471C	6000	.018	220-110	2	Continental	American	Electric Clock	2.40
472	110	.950	220-110	105	American	American	15-7 Watt Xmas lights in parallel	2.40
473B	110	.950	220-110	105	British	American	15-7 Watt Xmas lights in parallel	2.40
473C	110	.950	220-110	105	Continental	American	15-7 Watt Xmas lights in parallel	2.40
474	960	.115	220-110	13	American	American	Schick Razor	2.40
475B	960	.115	220-110	13	British	American	Schick Razor	2.40
475C	960	.115	220-110	13	Continental	American	Schick Razor	2.40
476	1100	.1	220-110	11	American	American	Packard Razor	2.40
477B	1100	.1	220-110	11	British	American	Packard Razor	2.40
477C	1100	.1	220-110	11	Continental	American	Packard Razor	2.40
478	475	.230	220-110	26	American	American	6 tube AC-DC Radio Using .15 Amp tubes	2.40
479B	475	.230	220-110	26	British	American	6 tube AC-DC Radio Using .15 Amp tubes	2.40
479C	475	.230	220-110	26	Continental	American	6 tube AC-DC Radio Using .15 Amp tubes	2.40
480	300	.300	220-110	33	American	American	Remington Razor	2.40
481B	300	.300	220-110	33	British	American	Remington Razor	2.40
481C	300	.300	220-110	33	Continental	American	Remington Razor	2.40
482	785	.140	220-110	16	American	American	Portable Radio Total Current drain .140 Amp.	2.40
483B	785	.140	220-110	16	British	American	Portable Radio Total Current drain .140 Amp.	2.40
483C	785	.140	220-110	16	Continental	American	Portable Radio Total Current drain .140 Amp.	2.40
484	430	.255	220-110	28	American	American	Detrola Automatic Phono Turntable	2.40
485B	430	.255	220-110	28	British	American	Detrola Automatic Phono Turntable	2.40
485C	430	.255	220-110	28	Continental	American	Detrola Automatic Phono Turntable	2.40
488	2000	.055	220-110	6	American	American	General Use	2.40
489B	2000	.055	220-110	6	British	American	General Use	2.40
489C	2000	.055	220-110	6	Continental	American	General Use	2.40
490	143	.87	220-110	96	American	American	65-130 Watt 110 Volt Radio	2.40
491B	143	.87	220-110	96	British	American	65-130 Watt 110 Volt Radio	2.40
491C	143	.87	220-110	96	Continental	American	65-130 Watt 110 Volt Radio	2.40

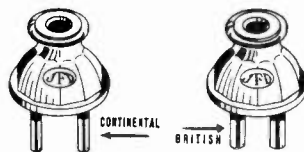
JFD FOREIGN ADAPTER

Converts American Male Plug to Continental and British Male Plugs
Converts Foreign receptacles into the standard American type—in a jiffy!



No. 2-449—with Continental type prongs. List Price\$0.33
No. 2-450—with British type prongs. List Price\$0.33

JFD Bakelite Handle Cap for Use in Foreign Countries



Comes with Continental or British Prongs

No. 2-451—Cap with Continental type prongs\$0.25
2-452—Cap with English type prongs30

JFD Wire Measuring Outfit (COUNTER MODEL)



Here is a compact, sturdy wire measuring outfit that can be set up easily on counter, bench or table. More than pays for itself in time saved and exact wire measurements. Measures up to 1000 feet. Very simple to set up and operate—it works silently. Take-up reel is adjustable.

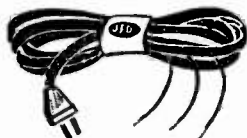
Cat. No. 66-C Complete Outfit



New Enlarged Line of AC-DC RESISTANCE LINE CORDS

STANDARD 3 TERMINALS AC-DC RESISTANCE CORDS

FLEXIBLE, STURDY CORDS, 3-TERMINAL TYPE, WITH COLOR-CODED, TINNED LEADS



Attractive individual
Cartons

No.	Ohms	List
*2180	135	\$1.17
*2181	160	1.17
*2182	180	1.17
*2183	200	1.17
2184	220	1.17
2185	250	1.17
2186	280	1.17
2187	300	1.17
2188	330	1.17
2189	350	1.17
2190	390	1.17
2450	450 (High Resist.)	1.72

*Note: 135, 160, 180, and 200 ohm cords can also be used for single light 20 and 15 watt fluorescent fixtures.

TAPPED 4 TERMINAL AC-DC RESISTANCE CORDS

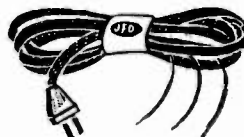
Pilot light resistor shunt built into the line cord. Used on Emerson, Zenith, Sperton, R. C. A., General Electric, Wells-Gardner, Sears Roebuck, Fada, Admiral, Air King, Detrola, Crosley, Garod, and others.



No.	List, Ea.
2176—160 OHMS—TAPPED AT 24 OHMS For sets using tubes having a voltage drop of approximately 69 volts as 2-25 volt tubes and 3-6.3 volt tubes plus single pilot light or similar combination	\$1.38
2195—165 OHMS—TAPPED AT 30 OHMS There is a large demand for this tapped line cord	1.38
2177—180 OHMS—TAPPED AT 25 OHMS For sets using tubes having a voltage drop of approximately 63 volts as 2-25 volt tubes and 2-6.3 volt tubes plus a single pilot light or similar combination	1.38
2178—200 OHMS—TAPPED AT 25 OHMS For sets using tubes having a voltage drop of approximately 57 volts as 1-25 volt tube, 1-12 volt tube and 3-6.3 volt tubes and a single pilot light. May also be used for sets using tubes having a voltage drop of 63 volts, (2-25 volt and 2-6.3 volt tubes) if high line voltage (125 volts) is encountered....	1.38
2179—200 OHMS—TAPPED AT 40 OHMS For sets using tubes having a voltage drop of approximately 57 volts as 1-25 volt tube, 1-12 volt tube and 3-6.3 volt tubes and two pilot lights in series	1.38

No.	List, Ea.
2174—280 OHMS—TAPPED AT 40 OHMS For sets using tubes having a voltage drop of approximately 32 volts as 2-12 volt tubes and 1-6.3 volt tube or 5-6.3 volt tubes or similar combinations using 2 pilot light in series	\$1.38
2164—360 OHMS—TAPPED AT 80 OHMS Used in Garod Model BP-20. See No. 2196 for specifications	1.72
2166—430 OHMS—TAPPED AT 80 OHMS For Farnsworth Model CD59. See No. 2196 for specifications	1.72
2156—510 OHMS—TAPPED AT 80 OHMS For Fada. See No. 2196 for specifications	1.72
2196—560 OHMS—TAPPED AT 80 OHMS Tapped at 80 ohms for plate of rectifier. Designed with voltage dropping resistor to plate of rectifier. Avoids necessity of using B+ resistor. This cord used extensively	1.72
2158—960 OHMS—TAPPED AT 80 OHMS For G. E. Model L622. See No. 2196 for specifications	1.72
2165—1950 OHMS—TAPPED AT 360 OHMS Used extensively in sets such as Crosley Model 27BD, Admiral Model 28-G-5, and other sets with similar circuits	2.06

HIGH RESISTANCE CORDS



No.	List Price
2197 For 3-way portable radios. AC-DC battery. New high resistance type cord, has 560 ohms resistance. Many thousands of sets using this identical cord are now in use. This popular replacement cord should be stocked by every serviceman! Individually packaged	\$1.72

No.	List Price
2157—For AC-DC Sets. This cord has 960 ohms resistance, and is used wherever 45Z3 rectifier tube is employed. (For pocket type radios, such as: Admiral, Fada Sentinel, Sonora, Motorola, Detrola, Farnsworth, etc.) Individually packaged	1.72

REPLACEMENT LINE CORD FOR MOTOROLA SETS



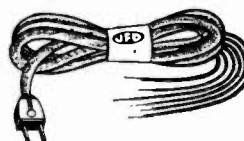
No.	List Price
2198—8 ft. cord containing 2 resistance elements—1100 and 280 ohms. Has 4 terminals. Essential replacement for all Motorola portables. Nos. 41D, 51D, 52D, 41H.	\$2.06

COMBINATION ANTENNA WIRE and STRAIGHT AC CORD



No.	List Price
2168—3-wire cord with special female socket to fit sets which have three prong male plug, used in Sentinel, Admiral, Belmont, Sonora, etc. Individually packaged	\$1.72

UNIVERSAL AC-DC RESISTANCE LINE CORDS

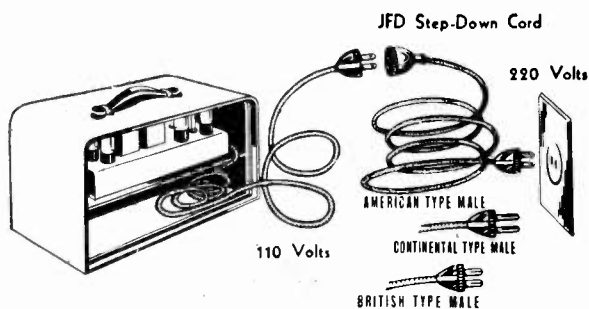


No.	List Price
2175—This line cord replaces AC-DC cords from 220 ohms to 300 ohms. Can be used for either standard three terminal or tapped cord	\$1.72



STEP-DOWN — AC-DC RESISTOR LINE CORDS

(Step-Down from 220 V. to 110 V.)
JFD STEP-DOWN LINE CORDS FOR RADIOS

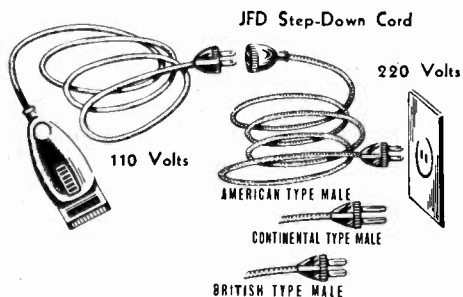


Cat. No.	Description	List Price
2191	220V-110V Stepdown for 4, 5, 6 tube sets drawing .3 amps. American Male Plug	\$2.40
2193C	220V-110V Stepdown for 4, 5, 6 tube sets drawing .3 amps. Continental Male Plug	2.40
2193B	220V-110V Stepdown for 4, 5, 6 tube sets drawing .3 amps. British Male Plug	2.40
2192	220V-110V Stepdown for 5 tube sets drawing .15 amps. American Male Plug	2.40
2194C	220V-110V Stepdown for 5 tube sets drawing .15 amps. Continental Male Plug	2.40
2194B	220V-110V Stepdown for 5 tube sets drawing .15 amps. British Male Plug	2.40
2430A	220V-110V Stepdown for 6 tube sets drawing .150 amps. American Male and Female Plugs	2.40
2431B	220V-110V Stepdown for 6 tube sets drawing .150 amps. British Male and American Female Plugs	2.40

Cat. No.	Description	List Price
2432C	220V-110V Stepdown for 6 tube sets drawing .150 amps. Continental Male and American Female Plugs	\$2.40

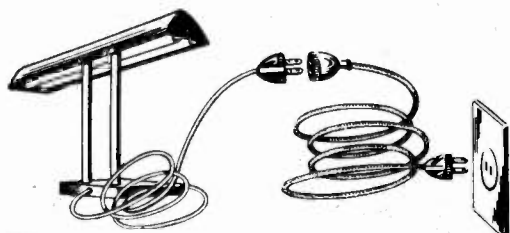
JFD STEP-DOWN LINE CORDS FOR ELECTRIC RAZORS

Cat. No.	Description	List Price
2203	220V-110V Stepdown for Remington Rand Razor 15W. American Female and American Male	\$2.60
2203B	220V-110V Stepdown for Remington Rand Razor 15W. American Female and British Male	2.60
2203C	220V-110V Stepdown for Remington Rand Razor 15W. American Female and Continental Male	2.60
2204	220V-110V Stepdown for Schick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and American Male	2.60
2204B	220V-110V Stepdown for Schick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and British Male	2.60
2204C	220V-110V Stepdown for Shick Razor 9W, Sunbeam Shavemaster 15W, Williams Roto-Shaver, Gillette, Gem 10W with American Female and Continental Male	2.60
2205	220V-110V Stepdown for Packard Razor 6W with American Female and American Male	2.60
2205B	220V-110V Stepdown for Packard Razor 6W with American Female and British Male	2.60



Cat. No.	Description	List Price
2205C	220V-110V Stepdown for Packard Razor 6W with American Female and Continental Male	\$2.60

JFD AC-DC LINE CORDS FOR FLUORESCENT FIXTURES



Cat. No.	Description	List Price
2181FL	165 ohm, for 20 watt bulb, 117 volts, 6 feet long	\$1.17
2181FL-2	Two 165 ohm windings, for two 20 watt bulbs, 117 volts, 6 feet long	2.00
2182FL	180 ohm, for 15 watt bulb, 117 volts, 6 feet long	1.17
2200FL	Two 180 ohm windings, for two 15 watt bulbs, 117 volts, 6 feet long	2.00

GENERAL CEMENT

RADIO CEMENTS FOR ALL PURPOSES



G-C RADIO SERVICE CEMENT

The best Cement for repairing radios and speakers. Excellent for repairing and replacing torn cones. Vibration-proof, water-proof and fast drying. Brushes attached.

No.	List
30-2 2-oz.	\$0.50
34-2 Tube	.50
30-4 4-oz.	1.00
30-6 6-oz.	1.40
30-8 8-oz.	1.75
30-16 16-oz.	3.30

G-C RADIO SERVICE SOLVENT

Best Solvent for loosening cement on speaker cones, frames, etc. Will dissolve all cements on speakers. Brush attached.

No.	List
31-2 2-oz.	\$0.50
31-4 4-oz.	.65
31-6 6-oz.	.85
31-8 8-oz.	.95
31-16 16-oz.	1.40

G-C CEMENT THINNER

Made of same solvents as G-C Service Cement. Best thinner for all cements.

No.	List
28-2 2-oz.	\$0.50
28-4 4-oz.	.65
28-8 8-oz.	.95
28-16 16-oz.	1.40

G-C SPEAKER CEMENT

Best grade cement put up in handy tubes. For radio and speaker repairs. Water-proof, vibration-proof, fast drying.

No.	List
34-2 2-oz. Tube	\$0.50

G-C PLASTIC CEMENT

For cementing broken plastic cabinets, knobs, dial and crystal assemblies, grille cloth, etc. Fast drying. Brush attached.

No.	List
32-2A 2-oz.	\$0.60
32-8A 8-oz.	1.75
32-16A 16-oz.	3.30



G-C BAKELITE CEMENT

For cementing bakelite to bakelite and bakelite to other materials. For repairing knobs, cabinets, panels, for inserts in moldings, attaching labels to plastics, etc. Brush attached.

No.	List
32-2 2-oz.	\$0.60
32-8 8-oz.	2.20
32-16 16-oz.	4.15

G-C VINYLITE CEMENT

Clear transparent adhesive, air drying. For cementing metals, plastics, paper, leather, etc. Used also as thermoplastic cement for non-porous materials. Sets on cooling. Brush attached.

No.	List
58-2 2-oz.	\$0.60
58-8 8-oz.	1.75

G-C HOUSEHOLD & MODEL CEMENT

Best cement for model makers, household, and office use. For airplanes, railroads, ships, toys, etc. Will cement wood, paper, plastics, metal, china, ceramics, etc. Fast drying, water-proof. Brush attached.

No.	List
45-2 2-oz.	\$0.50
45-3 Tube	.50

G-C FABRIC TO METAL CEMENT

For cementing cloth and felt to metal or plastics. Best for grille cloth, phono turntable felts, upholstery, fabrics, etc. Fast drying, water-proof.

No.	List
22-4 4-oz.	\$0.70
22-8 8-oz.	1.00
22-16 16-oz.	1.95

G-C GRAY RUBBER CEMENT

General purpose for cloth, paper, rubber, etc. Has great tackiness and adhesion for radio, shop, auto, or hobby use.

No.	List
23-4 4-oz.	\$0.70
23-8 8-oz.	1.00
23-16 16-oz.	1.95

G-C GRILLE CLOTH CEMENT

Rubber base cement for grille cloth, leatherette, fabric, upholstery, etc. Will not penetrate, stain, or shrink.

No.	List
38-4 4-oz.	\$0.70
38-8 8-oz.	1.00
38-16 16-oz.	1.95



G-C RUBBER TO METAL DIAL DRIVE CEMENT

For cementing rubber drives to shafts, rubber mountings, gaskets, hose, weather stripping, for radios, refrigerators, autos, etc.

No.	List
35-2 2-oz.	\$0.50
35-3 Tube	.50
35-4 4-oz.	1.00
35-8 8-oz.	1.75
35-16 16-oz.	3.30

G-C WOOD GLUE

New white resin water-proof glue for radio cabinets, furniture, chairs, etc. Will not injure finish. Extra strong.

No.	List
39-2 2-oz.	\$0.60
39-4 4-oz.	.70
39-8 8-oz.	1.00
39-16 16-oz.	1.65

G-C ELECTRICAL AND RESISTOR CEMENT

Heat-proof cement, hardens like porcelain. Same as on resistors, flat irons, etc.

No.	List
27-2 2-oz.	\$0.60

G-C FILM CEMENT

New improved cement for all safety and nitrate film. Sets fast. Brush attached.

No.	List
33-1 1-oz.	\$0.40

G-C ACRYLIC CEMENT

Welds and cements lucite, plexiglass, and other acrylic materials. Strong, fast drying. Brush attached.

No.	List
40-2 2-oz.	\$0.60

G-C LABEL CEMENT

Sticks labels to anything — metal, glass, wood, tin, bakelite, plastics, etc. Good for cementing labels to bins, racks, water-proofing labels, etc.

No.	List
46-2 2-oz.	\$0.60
46-8 8-oz.	1.50



G-C ART-X RUBBER CEMENT

Transparent, pure, real rubber cement for artist and layout work. Will not stain or shrink paper, can be easily removed. Handy for panel layout, photo mounting, etc.

No.	List
33-4 4-oz.	\$0.50
33-8 8-oz.	.75
33-16 16-oz.	1.25

G-C No. 67 PAINT THINNER

For Ruf-Koat, Krome-Koat, B-K Cement, Insulating Varnish, Rubber Cements, and ordinary paints.

No.	List
67-2 2-oz.	\$0.50
67-4 4-oz.	.65
67-8 8-oz.	.95
67-16 16-oz.	1.40

G-C Q-DOPE THINNER

Will cut and dissolve Q-Dope and other polystyrene coil dopes and cements. Will soften and weld polystyrene rods tubes, sheets, etc.

No.	List
41-2 2-oz.	\$0.50
41-4 4-oz.	.65
41-8 8-oz.	1.00

G-C LACQUER THINNER

Will thin all lacquers, lacquer enamels, telephone black or gray, touch-up lacquers, airplane dopes, model cements, etc.

No.	List
29-2 2-oz.	\$0.50
29-4 4-oz.	.65
29-8 8-oz.	.95
29-16 16-oz.	1.40

G-C SAMPLER KIT

What kind of cement shall I use? Get this kit and experiment with all types of cements available. Cements for all applications included so you can try them yourself for your application. Save time — get the answer quicker. 10 — 2-oz. bottles in Kit.

No.	List
345 Kit	\$6.00



G-C COIL DOPE KIT

For high frequency coils, ultra low loss. Contains 2-oz. bottle Polystyrene Q-Dope, 2-oz. Thinner, and 2 brushes. The best!

No.	List
888 Kit	\$1.00

G-C CEMENT & SOLVENT KIT

"Handy to carry with you." Contains bottle G-C Radio Cement and G-C Solvent, with brushes.

No.	List
343 Kit	\$0.75

G-C CONTACT & ATTENUATOR KIT

For cleaning and lubricating attenuator, tuners, contacts, all-wave switches, condenser bearings, etc. Eliminates noise and prevents corrosion.

No.	List
777 Kit	\$1.00

G-C INSULATING & DIPPING VARNISH

For treating field coils, noisy or buzzing transformers and chokes. Air dries to a tough insulating film. Can be brushed or dipped.

No.	List
56-2 2-oz.	\$0.60
56-4 4-oz.	.85
56-8 8-oz.	1.10
56-16 16-oz.	1.95

G-C LIQUIDOPE
All wave nitrocellulose base dope for coils. Air dries fast to tough film, that insures toughness and firmness. Use for sealing, doping, supporting coils, etc.

No.	List
36-2 2-oz.	\$0.60
36-8 8-oz.	1.40
36-16 16-oz.	2.50

G-C Q-DOPE
Liquid polystyrene ultra low loss coil dope for RF, UHF, and VHF components. Will not change R.F. circuit values. Performs — 70°F to 160°F. Also use as Polystyrene Cement.

No.	List
37-2 2-oz.	\$0.60
37-4 4-oz.	.85
37-8 8-oz.	1.40
37-16 16-oz.	2.50



G-C FUNGUS VARNISH

Used on radio equipment and instruments to insulate and prevent fungus growth in moist or humid climates. Air dry, brush or spray.

No.	List
57-2 2-oz.	\$0.60
57-8 8-oz.	1.10
57-16 16-oz.	1.65

G-C CONTACT & CRYSTAL CLEANER

Extra pure cleaner. Fast drying for cleaning contacts and crystals. Will not injure delicate parts.

No.	List
127-2 2-oz.	\$0.50
127-4 4-oz.	.65
127-8 8-oz.	.85
127-16 16-oz.	1.20

G-C RED ELECTRONIC CONTACT CLEANER

The best and only all-purpose cleaner. Dissolves the dirt and removes corrosion. Leaves protective film on contacts to prevent corrosion.

No.	List
210-2 2-oz.	\$0.50
210-4 4-oz.	.70
210-8 8-oz.	1.00
210-16 16-oz.	1.80

G-C RADIO CHASSIS CLEANER

Clean the chassis and make extra money on every repair job. Satisfy your customer. For radio chassis, panels, testers, etc. Non-explosive cleaner.

No.	List
123-8 8-oz.	\$0.70
123-16 16-oz.	1.10
123-G 1 Gal.	4.25

G-C CARBON TETRA-CHLORIDE

100% pure for cleaning and degreasing electrical contacts, controls, motors. Absolutely safe — will not burn. Also kills bugs, roaches, etc.

No.	List
211-2 2-oz.	\$0.50
211-4 4-oz.	.65
211-8 8-oz.	.95
211-16 16-oz.	1.65
211-32 32-oz.	2.70
211-G 1 Gal.	6.90

G-C CONTACT DOPE

Ideal cleaner and lubricant for switches, controls and contacts. Resists corrosion and oxidation. Eliminates noise.

No.	List
1213 Tube	\$0.40
1214 2-oz.	.60

CARB-O-TET

Specially made from 100% Carbon-Tet materials. 215-G 1 Gal. \$4.15



G-C CARBON CONTROL CLEANER

Fix noisy carbon controls without taking apart. Just squirt cleaner along shaft and job is done. Save money. Applicator supplied.

No.	List
212-2 2-oz.	\$0.60

G-C GRAFOLINE

Noiseless lubricant for air exposed switch contacts, rheostats, relays, wire volume controls, tube prongs, etc. Increases current capacity of switch controls. Cleans also.

No.	List
120-2 2-oz.	\$0.60

G-C CARBON-X

New improved formula. Fix those old noisy carbon controls, touch up noisy spots on worn controls. Brush in bottle.

No.	List
1204 1-oz.	\$0.75
1205 2-oz.	1.00

G-C LUBE-REX

Lubriplate — white lubricant for push buttons, phonographs, Philco mystery controls, guns, fishing reels, dials, etc. Prevents corrosion, repels water.

No.	List
1206 2-oz. Tube	\$0.60
1209 2-oz. Bottle	.60

G-C SILICONE COMPOUND

"The miracle moisture and water-proofing compound for Television and FM" A permanent water-proofing material for TV and FM leads.

No.	List
81001-oz. Tube	\$1.65
Dealer's Net	.99

G-C LIQUID SOLDER FLUX

Non-corrosive flux for radio and electrical work. Solders faster, smoother.

No.	List
42-2 2-oz.	\$0.60
42-8 8-oz.	1.75



G-C CHEMICAL LABORATORY

Complete assortment of 20 popular radio chemicals and cements in 2-oz. bottles, put up on steel rack. Very neat for the radio bench and home work shop. Rack sets on bench or hangs on wall. Steel Rack is FREE.

No. 997 Lab	List \$11.70
Dealer's Net	6.99

G-C CHEMICAL KIT

Pocket size kit of 8 popular radio chemicals and cements, for fast repairs on the job. Put up in neat leatherette case. Easy to carry.

No. 999	List \$3.30
— Refills available at your jobbers —	

G-C DELUXE CHEMICAL LAB

Practical larger laboratory of popular chemicals and cements to fit needs of average shop — 2-oz., 4-oz., and 8-oz. bottles. Larger bottles of more popular items. Rack sets on bench or hangs on wall. Steel rack is FREE.

No. 998	List \$14.30
Dealer's Net	8.49

GENERAL



CEMENT

PAINTS—KITS—COMPOUNDS



G-C RUF-KOAT WRINKLE VARNISH

Air Dry or Bake

The only finish that will air dry and give professional wrinkle job without baking. Same as used by leading manufacturers. Don't experiment — use the best. Apply and let dry. Colors: Black, Gray, Brown, Green, Red and Blue (Specify Color).

No.	List
60-2 2-oz.	\$0.60
60-4 4-oz.	1.00
60-8 8-oz.	1.75
60-16 16-oz.	3.00

G-C KRISTAL KOAT CRYSTALLIZING LACQUER

Makes beautiful floral pattern when dry. Strictly air drying. For chassis, panels, decorations on metal, wood, paper, etc. Colors: Black, Gray, Brown, Green, Red, Blue and Clear. (Specify Color).

No.	List
63-2 2-oz.	\$0.60
63-4 4-oz.	1.00
63-8 8-oz.	1.75
63-16 16-oz.	3.00

G-C TELEPHONE BLACK OR GRAY

High grade lacquer enamel covers well, dries fast. Black is satin ebony finish similar to telephones. Gray is pleasing shade. For panels, racks, parts, etc. (Specify Color).

No.	List
62-2 2-oz.	\$0.60
62-8 8-oz.	1.40
62-16 16-oz.	2.50

G-C GENERAL SCRATCH STICK

Removes scratches. Simply run over scratches and they will disappear. Handy to carry in your pocket or tool box for emergency repairs. Also sell to housewives.

No.	List
909 Seratch Stik	\$0.40
909-D Display 12 Stiks	4.80



G-C KROME-KOAT ALUMINUM PAINT

Fast drying, ready mixed, leaves chrome-like finish. For PA equipment, speakers, chassis, towers, antennas, etc.

No.	List
61-2 2-oz.	\$0.60
61-4 4-oz.	.85
61-8 8-oz.	1.40
61-16 16-oz.	2.20

G-C PORCELAIN GLAZE

Fills in nicks and dents on porcelain and duco refrigerators, sinks, washing machines, etc. Fill in and let dry.

No.	List
911 2-oz.	\$0.60
911-16 16-oz.	3.85

G-C SPIRIT VARNISH

Fast drying walnut spirit varnish for touching up nicks and scratches. Will not raise the finish.

No.	List
161-2 2-oz.	\$0.60
161-4 4-oz.	.85
161-8 8-oz.	1.40
161-16 16-oz.	2.20

G-C PENETRATING STAIN

Spirit type stain, penetrates and will not injure finish. Covers scratches, dents, darkens corners on cabinets, etc. Walnut.

No.	List
162-2 2-oz.	\$0.50
162-4 4-oz.	.85
162-8 8-oz.	1.40
162-16 16-oz.	2.20

G-C MICROPHONE CARBON GRANULES

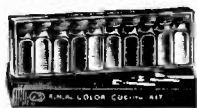
Polished pure carbon granules for microphones.

No.	List
1281 100 Size	\$0.80
Highest Sensitivity	
1282 80 Size	.80
Best for General Use	
1283 60 Size	.80
Best for Hard Use — Sound Trucks, etc.	

G-C SCRATCH REMOVER LIQUID

New liquid! Removes scratches instantly. Simply wipe over scratches. Handy to have in tool box.

No.	List
917 2-oz.	\$0.50
923 1/2-oz.	.30



G-C RMA COLOR CODING KIT

Complete kit of all standard RMA colors to code resistors, condensers, parts, etc. Chart included. Ten bottles.

No. 677	List \$1.95
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G-C TOUCH UP CODING KIT

Five bottles, 4 colors and solvent for coding and sealing parts, adjustments, wires, etc. Red, Green, Blue, Yellow and Solvent.

No. 675	List \$0.85
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G-C DIAL LITE COLOR KIT

Long lasting coloring for dials, signals, lamps, panels, hobby work, etc. Red, Green, Blue, Amber, Purple and Solvent in kit.

No.	List
66-6 Kit	\$1.00
66-5 Kit no purple	.85
66-2 2-oz. (Specify color)	.60
66-16 16-oz. (specify color)	2.50

G-C LUMINOUS KITS

Complete kits of luminous paint that glows in the dark. Many uses in shop and home. See it at night. Easy to use — apply and let dry.

No.	List
184-0 DeLuxe kit contains Powder, Mix-Koat, Top Koat and Brush.	\$2.50
184-1 Regular kit contains Powder, Mix-Koat and Brush.	\$1.65

G-C LUMINOUS MATERIALS

LITE-KOAT POWDER

No.	List
185-1 1-oz.	\$0.95
185-2 2-oz.	1.65

COVER-KOAT

To protect and cover luminous material.

No.	List
187-2 2-oz.	\$0.60
187-8 8-oz.	1.25

MIX-KOAT

To mix with powder.

No.	List
186-2 2-oz.	\$0.60
186-8 8-oz.	1.25

MIX-KOAT AND COVER-KOAT THINNER

No.	List
188-2 2-oz.	\$0.60
188-8 8-oz.	1.25



G-C DIAL OIL

Made with graphite. Special for lubricating dials, drives, and fine mechanisms. Long lasting.

No.	List
1245 4-oz.	\$0.50

G-C REFRIGERATOR AND APPLIANCE OIL

Non-gumming oil for household appliances and small motors. The best general purpose oil.

No.	List
1250 4-oz.	\$0.50

G-C SOLDERING PASTE

The best non-corrosive paste for radio and electrical work. Solders faster and smoother.

No.	List
1207 2-oz. can	\$0.30

G-C NON-STICK IRON TIP COMPOUND

Prevents soldering iron tips from burning into iron. Saves your iron and tips.

No.	List
1201 2-oz.	\$0.60

G-C NON-SLIP COMPOUND

Powder Compound

For dial cords, belts, pulleys, etc. Good for V or flat belts on refrigerators, motors, etc.

No.	List
1210	\$0.50

Liquid Compound

Penetrating, fast-drying liquid, prevents slipping on dial cords, pulleys, belts. Increases life of cords and belts.

No.	List
1211 1/4-oz.	\$0.30
1215 2-oz.	.60

GENERAL



CEMENT

CABINET REPAIR KITS - POLISHES



G-C FRENCH EMULSION

Best pad lubricant to use with French Varnish Polishing Method.

No. 164-4 4-oz. List \$0.55

G-C FRENCH VARNISH

Used by craftsmen to repair furniture and blend in the finish. Can be applied with pad, brush or spray. Dries fast.

No. 160-2 2-oz. List \$0.60
160-4 4-oz. .75
160-8 8-oz. 1.40

G-C WINDOW CLEANER CONCENTRATE

Mix with quart of water and make your own high-grade window cleaner. Makes glass sparkle.

No. 122-5 6-oz. List \$0.50

G-C SPOT CLEANER

Safe high-grade cleaner with special applicator in cap. Non-explosive.

No. 124-2 6-oz. List \$0.60

G-C STRIP-X

Strips enamel from magnet wire. Dip wire in and wipe insulation off—ready for soldering.

No. 26-2 2-oz. List \$0.60

G-C CONE RECONDITIONER

Apply to old dried out cones to restore plasticizer and bring back original tones.

No. 25-8 8-oz. List \$0.95
25-16 16-oz. 1.65



G-C RUBBING OIL

Rub down newly finished or repaired cabinets to produce rich satin sheen finish.

No. 163-16 16-oz. List \$0.75

G-C FLOOR WAX

High-grade heavy duty commercial self-polishing floor wax. Gives hard, durable finish.

No. 97-G 1 Gal List \$6.55

G-C LEMON OIL POLISH

Inexpensive polish for removing dust, finger marks, treating dust rags, mops, etc. Picks up dust.

No. 91-8 8-oz. List \$0.45
91-16 16-oz. .60

G-C SCRATCH REMOVER POLISHES

DARK
Polish contains stains to remove scratches. Sell to housewives.

No. 92-2 2-oz. List \$0.30
92-8 8-oz. .50
92-8-L 8-oz. Lab. size .50
92-16 16-oz. .85

LIGHT
For light woods; polishes and removes scratches at same time. Popular with housewives.

No. 93-2 2-oz. List \$0.30
93-8 8-oz. .50
93-16 16-oz. .85

G-C CREME-O-WAX POLISH

White non-staining hard wax base polish produces a hard glossy finish. Excellent for radios, pianos, refrigerators, furniture, etc.

No. 95-2 2-oz. List \$0.30
95-8 8-oz. .60
95-8-L 8-oz. Lab. size .60
95-16 16-oz. .90



G-C REFRIGERATOR PATCH KIT
"New Improved Kit"

Supplies everything necessary to repair porcelain or Duco nicks, dents, or scratches. Kit contains bottle of pure white lacquer enamel and bottles of Yellow, Blue, Brown, and Black tinting colors, solvent, spatula, porcelain patch stick, sandpaper, and brushes. Useful on refrigerators, washers, ranges, table tops, etc. Directions included.

No. 902 List \$4.35

G-C DELUXE CABINET REPAIR KIT
"New Improved Kit"

Comes in handy metal box. Contains ten shades of shellac sticks, bottles of light and dark oil stain, bottles of metal shading varnish, polish, General Scratch Stik, alcohol lamp (with alcohol), spatula, small brushes, steel wool, sandpaper, and wiping cloth. Everything necessary for a practical repair job. No special skill required. Directions included.

No. 901 List \$5.45

G-C MASTER DELUXE CABINET REPAIR KIT
"New, Most Complete Kit"

A complete cabinet repair kit put in a permanent metal box. All finishes supplied are spirit soluble and will not cut or damage surrounding finishes on cabinets, etc. Kit contains 10 shellac sticks, alcohol lamp, French varnishes, rubbing felt and fluid, enamels, glue, steel wool, sandpaper, polish, directions, etc. Nothing else needed! The best buy on the market!

No. 900 List \$9.95



G-C FRENCH VARNISH KIT

Kit for French polishing. Only way to blend repairs with adjoining finish. Kit includes varnish, emulsion, pad, and instructions.

No. 160-0 List \$1.40

G-C MAGIC SCRATCH KIT

Combination of 6 shades fillers and light and dark scratch fluid. Easy to use on emergency jobs.

No. 915 List \$1.40

G-C MASTER CABINET TOUCH-UP KIT
"Ideal Quick Touch-Up Kit"

A complete, fast touch-up kit for repairing scratches and dents. Works on wood and plastic cabinets. The spirit finishes will not cut into the adjoining surface or injure surrounding finish. Contains French varnish, emulsion, colored enamels, stains, polishes, and filler. Sandpaper, steel wool, rubbing cloth and directions included. Brushes attached to caps of all finish bottles. Put up in metal box.

No. 907 List \$3.25

G-C RADIO-REFRIGERATOR CABINET PATCH KIT
"New Improved Kit"

A kit of the shellac patch sticks to fill all needs. Patches wood, plastics, bakelite and porcelain. Nine shellac sticks for the light and dark shades of wood, and black and white, alcohol lamp (with alcohol), spatula, steel wool, sandpaper and wiping cloth are packed in the metal box. Directions included.

No. 903 List \$3.85

GRILLE CLOTH—FLOCK KITS



G-C TOUCH-UP KIT

Practical for touching up small scratches and dents. Includes light and dark varnish and spirit stains, filler, cloth, brushes, etc.

No.	Kit	List
905	Kit	\$1.10

G-C PLASTIC TOUCH-UP KIT

Kit contains 6 colors touch-up lacquer enamels to fix up plastic and colored cabinets. Walnut, Ivory, Black, Red, Blue, Green, and brushes.

No.	Kit	List
910	Kit	\$1.40

G-C PORCELAIN PATCH STICK

Made for white porcelain refrigerators, sinks, ranges, fixtures, etc. Simply melt into nick and smooth off.

No.	Stick	List
908	Stick	\$0.40

G-C SHELLAC STICK KIT

Handy assortment of 10 colors to take care of any shade of wood. Same as in G-C Kits.

No.	Kit	List
925	Kit	\$1.80

G-C SHELLAC STICKS

High grade sticks for filling dents and nicks in wood cabinets and furniture. Sticks 7" long.

No.	List	No.	List
929 Lt. Walnut	\$0.50	979 Dk. Oak	\$0.50
930 Dk. Walnut	.50	980 Transparent	.50
933 Black	.50	981 Lt. Transp.	.50
934 White	.50	982 Walnut	.50
935 Maple	.50	983 Mahogany	.50
978 Lt. Oak	.50	984 Blonde Maple	.50



G-C FELT KOAT FLOCK KIT

New G-C kit with special blower gun. Distributes flock evenly and applies a thick velvet-like coat. Kit is complete with gun, brown and ivory flock, brown and ivory undercoat, thinner, brush, etc. Gives professional job on turntables, cabinets, grilles, tool boxes, toys, signs, etc. Has thousands of applications.

No.	Kit	List
180-2	Kit	\$10.50

G-C FELT KOAT KITS

Complete flock kit with flock undercoat, thinner and brushes and shaker type can for applying flock. Colors: Brown, Blue, Taupe, Black, White, Ivory, Red, Green, Silver and Gold. (Specify Color).

No.	DeLuxe Kit	List
180-0	Kit	\$3.00
180-1	Reg. Kit (No brush or thinner)	2.15

G-C FLOCK BLOWER GUN

It's easy to apply flock and be sure to get a good job with the G-C Patented Gun. Gun can also be used for dusting and cleaning.

No.	Gun	List
180-3	Gun	\$4.35
180-4-N	Cleaning Nozzle for Gun	.65

G-C FLOCK UNDERCOAT

Material is first applied on surface to be flocked. Then flock is applied. Used on metal, wood, paper, etc. Colors: Brown, Taupe, Blue, Black, White, Ivory, Red, Green, Silver and Gold. (Specify Color).

No.	4-oz.	List
180-4	4-oz.	\$1.10
180-8	8-oz.	1.95
180-16	16-oz.	3.00

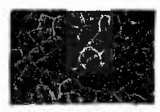
G-C RUBBER BASE UNDERCOAT

Use as flock sizing on fabrics, upholstering, turntables, etc. Makes pliable coating.

No.	List
182-4	4-oz. \$1.00
182-8	8-oz. 1.75
182-16	16-oz. 2.50

FLOCK SIZING THINNER

For #	Undercoat.	List
181-4	4-oz.	\$0.45
181-8	8-oz.	.60
181-16	16-oz.	.85
181-G	1 Gal.	4.15



G-C FELT-KOAT FLOCK

Genuine Rayon Flock, 1/8" length fibers accurately cut, give beautiful even finish. One pound covers approximately 90 sq. ft. Colors: Brown, Taupe, Blue, Black, White, Ivory, Red, Green, Silver, and Gold. (Specify Color).

No.	List
180-5	2-oz. Can \$1.00
180-6	1/2-lb. Bag 3.00
180-7	1-lb. Bag 5.00

G-C GENERAL SCRATCH STICK

Removes scratches. Simply run over scratches and they will disappear. Handy to carry in your pocket or tool box for emergency repairs. Also sell to housewives.

No.	Scratch Stik	List
909	Scratch Stik	\$0.40
909-D	Display 12 Stiks	4.80
1-A SKRATCH STIK DEAL — WIRE DISPLAY FOR DEALERS		
Dealers and servicemen — Display the No. 1-A Skratch Stik deal in your shop or store and sell Skratch Stiks to your customers. Every home and office needs one. You can earn extra profit with this self-selling display.		
No. 1-A Deal	12 Skratch Stiks Wire	List \$5.35
	Dealer's Net	2.88*

G-C LUGGAGE FABRIC

Airplane type fabric for portables, test instruments, cabinets, etc. Colors: Gray and Brown. (Specify Color).

No.	List
960	18" x 18" \$0.85
961	36" x 18" 1.65
962	Any length, 36" wide, per yard 3.05

G-C INSTRUMENT FABRIC

Leatherette fabric to cover cabinets and instruments. Same as used by manufacturers. Colors: Black and Brown. (Specify Color).

No.	List
965	18" x 16" \$0.85
966	18" x 32" 1.65
967	Any length, per yard 3.05

G-C CABINET SPEAKER GRILLE CLOTH

Beautiful modern patterns of Brown, Gold and light colors to match Walnut, Mahogany and Ivory cabinets. Specify "Ivory" when ivory is wanted.

No.	Size	List	No.	Size	List
940	18" x 20"	\$1.25	954	5" x 10"	\$0.35
941	9" x 18"	.58	949-1	1-Yd. Pkgs., 40" Wide	5.75
942	12" x 12"	.60	949-1R	40" Wide Cont. lgh., per yd.	4.95
943	14" x 18"	.70	949-2R	50" Wide Cont. lgh., per yd.	5.60
944	24" x 13"	.90	950	Roll 9" x 12"	.50
945	18" x 13"	.70			
946	8" x 8"	.28			
947	9 1/2" x 10"	.30			
948	6" x 6"	.25			

G-C SPARKLE GRILLE CLOTH

Juke box metallic grille cloth. Beautiful gold pattern. Sparkles in the light. Very good for ivory cabinets also.

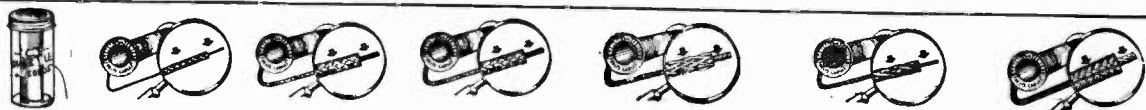
No.	List
957	Large Pattern, per Yd. \$10.00
958	Small Pattern, per Yd. 10.00

G-C METAL FLOCKED GRILLE SCREEN

Very popular. Both sides flocked with rayon over galvanized metal screen. Used on radios, P.A. speakers, intercoms, auto radios, etc. Waterproof, durable. Colors: Brown, Ivory, Maroon.

No.	Size	Color	List
951-1	8" x 11"	Brown	\$0.85
951-3	8" x 11"	Ivory	.85
951-5	8" x 11"	Maroon	.85
952-1	18" x 24"	Brown	2.90
952-3	18" x 24"	Ivory	2.90
952-5	18" x 24"	Maroon	2.90
953-1	36" x 36"	Brown	8.95
953-3	36" x 36"	Ivory	8.95
953-5	36" x 36"	Maroon	8.95

GENERAL CEMENT RADIO DIAL CORDS and CABLES



THE THREE MOST POPULAR CORDS USED

G-C No. 75 STANDARD THIN NYLON CORD			G-C No. 75-A EXTRA THIN NYLON CORD			G-C No. 74 MEDIUM NYLON CORD			G-C No. 70 BRAIDED BRONZE CABLE			G-C No. 71 42-STRAND BRONZE CABLE			G-C No. 73 HEAVY NYLON CORD																																																								
.028" diam. Most popular; used on 95% of sets. Braided nylon over fibre glass core. In plastic container.									.040" diam. Very popular; used by RCA, Philco, GE, etc. Braided nylon over fibre glass core. In plastic container.									.040" diam.; used on radio dials, instruments and for aircraft reel-in antenna cable. Phosphor bronze braided over fibre glass core for strength. In plastic container.									.040" diameter; 42 strands twisted phosphor bronze over fibre glass core. Radio dials, aircraft reel-in antennas, etc. Durable and flexible. In plastic containers.									.062" diameter; used on Philco, Majestic, Brunswick, etc. Very strong, chemically treated to prevent slipping. In plastic container.																																			
No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List																																							
75-25	25 ft.	\$1.25	75A-25	25 ft.	\$1.25	74-25	25 ft.	\$1.25	70-25	25 ft.	\$1.25	71-25	25 ft.	\$1.25	73-25	25 ft.	\$1.50	75-50	50 ft.	2.40	75A-50	50 ft.	2.40	74-50	50 ft.	2.40	70-50	50 ft.	2.40	71-50	50 ft.	2.50	73-50	50 ft.	2.75	75-100	100 ft.	4.50	75A-100	100 ft.	4.50	74-100	100 ft.	4.50	70-100	100 ft.	4.50	71-100	100 ft.	4.50	73-100	100 ft.	5.00	75-11	Env.	.40	75A-11	Env.	.40	74-11	Env.	.40	70-11	Env.	.40	71-11	Env.	.40	73-11	Env.	.40



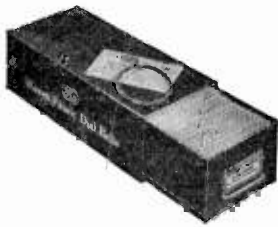
G-C No. 76 SPECIAL THIN BRONZE CABLE			G-C No. 73-X EXTRA HEAVY NYLON CORD			G-C No. 78 BRAIDED LINEN CORD			G-C No. 79 MONEL METAL CABLE			G-C No. 80 EXTRA THIN METAL CABLE			G-C No. 82 EXTRA THIN PHOSPHOR BRONZE CABLE																																																								
.025" diam. braided bronze as used on GE, RCA, and others. Also for flexible connections on speakers, cones, etc. In plastic container.									.072" diameter. Extra heavy cord as used by Philco and others. Chemically treated to prevent slipping. In plastic container.									.040" diameter, same as used on Emerson radios, instruments, drawing boards, etc. Extra strong and durable. In plastic container.									.035" diam. Strong and durable, non-corrosive cable for radio dials and instruments. Preferred by many to bronze cable. In plastic container.									.015" diameter. Very strong twisted steel cable. Popular on foreign and export receivers, instruments, dials, etc. In plastic container.									.012" diam. twisted of 7 strands .004" phosphor bronze. Used on dial instruments and Army and Navy Radar Equipment. In plastic container.																										
No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List	No.	Spool	List																																				
76-25	25 ft.	\$1.25	73X-25	25 ft.	\$1.50	78-25	25 ft.	\$1.25	79-25	25 ft.	\$1.25	80-25	25 ft.	\$1.25	82-25	25 ft.	\$1.25	76-50	50 ft.	2.40	73X-50	50 ft.	2.75	78-50	50 ft.	2.40	79-50	50 ft.	2.40	80-50	50 ft.	2.40	82-50	50 ft.	2.40	76-100	100 ft.	4.50	73X-100	100 ft.	5.00	78-100	100 ft.	4.50	79-100	100 ft.	4.50	80-100	100 ft.	4.50	82-100	100 ft.	4.50	76-11	Env.	.40	73X-11	Env.	.40	78-11	Env.	.40	79-11	Env.	.40	80-11	Env.	.40	82-11	Env.	.40



G-C PHOSPHOR BRONZE BELTING		G-C NON-SLIP COMPOUNDS		G-C CORD DRESSING		G-C READY MADE CABLES		G-C DIAL CABLE TOOL		G-C HANDY PICK-UP TOOL	
This belting is required to make repairs on some of the older model sets. For Atwater Kents — $\frac{1}{8}$ " wide x .005" thick. No. 61-25 25 ft. \$1.50 For Brunswicks — $\frac{1}{8}$ " wide x .006" thick. 62-25 25 ft. \$2.00		Powder Compound For dials, cords, pulleys, belts. Prevents slipping. No. 1210 2-oz. \$0.50 Liquid Penetrating liquid shrinks fibers, prevents slipping on dial cord and belts. 1215 2-oz. 0.60		Easy way to treat slipping cords. Simply rub on stick and job is done. Prevents and stops slipping. No. 1212 Stick \$0.25		For popular sets. Save time in repairing these sets. No. Model List R7 Brunswick, 15, 22 Front. \$0.50 R8 Brunswick, 15, 22 Rear .50 R9 GE, A88, A82, A87 .50 R10 Majestic, 70, 71, 72 .50		Handy tool to aid in stringing new dial cord and replacing cables slipped off pulleys and drums. It's like an extra hand. Speeds up the job. No. 5096 List \$0.75		Very handy for every one. Picks up pieces in hard-to-get-at places. Will hold and start screws, nuts, etc. Will pay for itself in short time. No. 5089 List \$1.50	



G-C DIAL CABLE RACK		G-C DIAL SPRING KITS		G-C No. 77-SK DIAL CORD KIT		G-C No. 78-SK DIAL CORD KIT		G-C DIAL CORD CLIPS	
Very handy, includes popular cables. Hangs on wall or on bench. Handy measuring rule or sign. Kit includes rack and five 25 ft. spools each Nos. 71, 73, 74, 75 and 76 cables. No. 7A-25 List \$6.50		Handy kit of springs as used on dial cord drives. Six sizes included. No. 1054-E 10 Assorted \$0.40 1054-SE 10 Small Springs .40 1055 Kit 25 Asst. Springs 1.20 1056 Kit 100 Asst. Springs 4.40		Contains four 25 ft. spools most popular cord; 75-25, 74-25, 76-25, 71-25, and free assortment of dial cord clamps and eyelets. No. 77-SK Cable Kit \$4.75		Combination kit in 10 ft. lengths of all G-C Dial Cables. Each in separate envelope, packed in leatherette box. Handy for servicemen and experimenters. No. 78-SK Cable Kit \$4.65		Handy clip and eyelet assortment used to fasten to ends of dial cords, etc. Required on every set. No. 1028-E Assortment \$0.40	



G-C SERVICEMEN'S DIAL BELT KITS

General Cement Belts are approved replacements for all sets. They are made of best quality material and will not stretch. They are specially treated to prevent slipping. They are the best. Sizes available for all sets. They are easy to install as they are made to fit. No adjustments necessary.

BELTS — 25c List Each

G-C SERVICEMEN'S KITS

Servicemen! Have an assortment of belts on hand for prompt replacement. Kits contain only the more popular belts used. KIT INCLUDES ATTRACTIVE STEEL BOX—BELT SCALE AND COMPLETE LISTING OF OVER 100 MODELS.

List Price
No. G-25—Kit of 25 popular belts ... \$ 7.50
No. G-50—Kit of 50 popular belts ... 14.75
No. G-100—Kit of 100 (includes every size) 25.00

INSTRUCTIONS — FOR MEASURING BELTS

To determine size of belt, if the old belt is available, cut the belt and measure for stretched out length. This will be "cut length" of belt. If old belt is not available or is worn out so that it cannot be properly measured, stretch a thin thread around belt pulleys on set. (Be sure to use thin thread as a thick cord will give an inaccurate reading.) Measure the thread, it will be our "circumference around pulleys." In measuring belts always remember that the circumference around pulleys is not the same as stretched out or cut length. A belt when cut, develops approximately 3/16" extra length when stretched out, depending on thickness of belt.

G - C RADIO BELT SPECIFICATIONS

LISTED AS PER BELT NO.

LISTED AS PER BELT SIZE

GC Belt No.	Circumference Around Pulleys	Cut Length	GC Belt No.	Circumference Around Pulleys	Cut Length
101	6-23/32"	6-29/32"	148	14-33/64"	14-3/4"
102	6-5/64"	7-5/64"	149	15-1/64"	15-13/64"
103	7-15/32"	7-21/32"	150	15-61/64"	15-9/64"
104	8-1/64"	8-31/64"	151	14-57/64"	15-5/64"
105	7-1/2"	7-11/16"	152	10-1/2"	10-11/16"
106	7-1/4"	7-7/16"	153	8-39/64"	8-51/64"
107	7-11/16"	7-7/8"	154	12-1/32"	12-7/32"
108	8-21/32"	8-27/32"	155	7-35/64"	7-23/32"
109	8-21/32"	8-11/16"	156	7-9/32"	7-15/32"
110	8-5/64"	8-31/64"	157	1-1/64"	7-13/64"
111	7-15/16"	8-1/8"	158	6-15/16"	7-1/8"
112	8-43/64"	8-55/64"	159	8-1/32"	8-7/32"
113	8-3/32"	8-9/32"	160	8-11/16"	8-7/8"
114	8-15/64"	8-21/64"	161	6-55/64"	7-3/64"
115	9-13/64"	9-25/64"	162	8-13/64"	8-25/64"
116	9-5/16"	9-1/2"	163	9-19/64"	9-31/64"
117	9-1/16"	9-1/4"	164	10-1/4"	10-7/16"
118	10-23/64"	10-35/64"	165	17-1/16"	17-1/4"
119	9-17/32"	9-25/32"	166	19-7/16"	19-5/8"
120	10-47/64"	10-57/64"	167	8-13/16"	9"
121	10-11/16"	10-7/8"	168	12-13/16"	13"
122	10-3/8"	10-9/16"	169	17-13/32"	17-19/32"
123	9-7/8"	10-1/16"	170	16-19/64"	16-31/64"
124	10-17/64"	10-29/64"	171	11-3/16"	11-3/8"
125	10-25/64"	10-37/64"	172	8-3/16"	8-3/8"
126	10-1/16"	10-1/4"	173	11-7/16"	11-5/8"
127	9-59/64"	10-7/64"	174	7-27/64"	7-13/16"
128	10-19/64"	10-31/64"	175	21-5/16"	21-1/2"
129	10-41/64"	10-53/64"	176	22-31/64"	22-47/64"
130	11-5/64"	11-17/64"	177	7-13/32"	7-19/32"
131	11-9/64"	11-21/64"	178	12-1/2"	12-11/16"
131W	11-9/32"	11-15/32"	179	17-37/64"	17-49/64"
132	10-31/32"	11-5/32"	180	10-27/32"	11-1/32"
133	10-61/64"	11-9/64"	181	18-9/16"	18-3/4"
134	11-3/8"	11-9/16"	182	15-13/16"	16"
135	11"	11-3/16"	183	15-7/16"	15-5/8"
136	11-25/64"	11-37/64"	184	16-27/64"	16-39/64"
137	11-5/32"	11-15/32"	185	16-15/16"	17-1/8"
138	12"	12-3/16"	186	14-7/32"	14-13/32"
139	12-9/32"	12-15/32"	187	15-17/64"	15-29/64"
140	12-7/32"	12-13/32"	188	19-47/64"	19-59/64"
141	11-3/4"	11-15/16"	189	18-1/2"	18-11/16"
142	12-3/32"	12-1/4"	190	17-5/8"	17-13/16"
143	11-13/16"	12"	191	22-49/64"	22-61/64"
144	12-15/32"	12-21/32"	192	straight belt	16"
145	12-39/64"	12-51/64"	193	straight belt	12-7/16"
146	13-1/4"	13-11/16"	194	11-21/32"	11-27/32"
147	14-27/64"	14-39/64"			

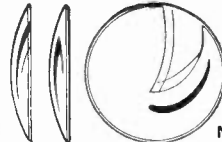
Circumference Around Pulleys	Cut Length	GC Belt No.	Circumference Around Pulleys	Cut Length	GC Belt No.
6-23/32"	6-29/32"	101	11"	11-3/16"	135
6-55/64"	7-3/64"	102	11-5/64"	11-17/64"	130
6-57/64"	7-5/64"	103	11-9/64"	11-21/64"	131
6-15/16"	7-1/8"	104	11-5/16"	11-15/32"	137
7-1/64"	7-13/64"	105	11-9/32"	11-15/32"	171
7-1/4"	7-7/16"	106	11-3/8"	11-9/16"	131W
7-9/32"	7-19/32"	107	11-25/64"	11-37/64"	134
7-13/32"	7-21/32"	108	11-7/16"	11-5/8"	136
7-1/2"	7-11/16"	109	11-21/32"	11-27/32"	173
7-35/64"	7-23/32"	110	11-3/4"	11-15/16"	194
7-11/16"	7-7/8"	111	11-13/16"	12"	141
7-3/4"	7-15/16"	112	12"	12-3/16"	143
7-15/16"	8-1/8"	113	12-1/32"	12-7/32"	138
8-1/32"	8-13/64"	114	12-3/32"	12-1/4"	139
8-1/32"	8-7/32"	115	12-7/32"	12-13/32"	142
8-3/16"	8-9/32"	116	12-11/32"	12-13/32"	140
8-3/16"	8-3/8"	117	12-15/32"	12-15/32"	193
8-13/64"	8-25/64"	118	12-19/32"	12-15/16"	139
8-15/64"	8-27/64"	119	12-21/32"	12-21/32"	144
8-25/64"	8-37/64"	120	12-1/2"	12-11/16"	178
8-1/2"	8-11/16"	121	12-39/64"	12-51/64"	145
8-39/64"	8-51/64"	122	12-13/16"	13"	168
8-21/32"	8-27/32"	123	13-3/16"	13-3/8"	146
8-43/64"	8-55/64"	124	14-7/32"	14-13/32"	186
8-11/16"	8-7/8"	125	14-27/64"	14-39/64"	147
8-13/16"	8-7/8"	126	14-33/64"	14-3/4"	148
8-13/16"	8-7/8"	127	14-57/64"	15-5/64"	151
9-1/16"	9-1/4"	128	15-1/64"	15-13/64"	149
9-13/64"	9-25/64"	129	15-17/64"	15-29/64"	187
9-19/64"	9-31/64"	130	15-7/16"	15-5/8"	183
9-5/16"	9-1/2"	131	15-13/16"	16"	182
9-17/32"	9-23/32"	132	15-13/16"	16" str. belt	192
9-7/8"	10-1/16"	133	15-61/64"	16-9/64"	150
9-59/64"	10-7/64"	134	16-19/64"	16-31/64"	170
10-1/16"	10-1/4"	135	16-27/64"	16-39/64"	184
10-1/4"	10-7/16"	136	16-15/16"	17-1/8"	185
10-17/64"	10-29/64"	137	17-1/16"	17-1/4"	165
10-19/64"	10-31/64"	138	17-13/32"	17-19/32"	169
10-23/64"	10-35/64"	139	17-37/64"	17-49/64"	179
10-25/64"	10-9/16"	140	17-5/8"	17-13/16"	190
10-25/64"	10-37/64"	141	18-1/2"	18-11/16"	181
10-1/2"	10-11/16"	142	18-9/16"	18-3/4"	189
10-41/64"	10-53/64"	143	19-1/16"	19-5/8"	166
10-11/16"	10-7/8"	144	19-47/64"	19-59/64"	188
10-45/64"	10-57/64"	145	21-5/16"	21-1/2"	175
10-27/32"	11-1/32"	146	22-35/64"	22-47/64"	176
10-61/64"	11-9/64"	147	22-19/64"	22-61/64"	191
10-31/32"	11-5/32"	148			132

Buy a G-C Belt Kit and Get a Free Belt Replacement Guide

G-C RADIO AND PHONO DRIVES

G-C RADIO DIAL GLASS AND CLOCK CRYSTALS

Round convex replacement glass crystals for radios, clocks, auto radios, instruments, panels, dash board.



No.	List	No.	List
1024-SE Env. Asst. 5 Small	\$0.40	12	Emerson, Majestic \$0.10
1024-LE Env. Asst. 5 Large	.40	13	Small AK .20
1024-E Env. Asst. 10 Dial	.80	15	Philco .15
1025 Box 25 Asst. Drives	1.50	16	General Industries, RX-1-X .25
1026 Box 100 Asst.	6.00	17	Alliance 80, Admiral, Philco, VM, Gen. Ind., Seeburg, etc. .25
1 AK Small	.10	18	RCA .15
2 AK Large	.10	19	Philco, RCA, etc. .15
3 Stewart-Warner	.10	20-E	Detrola, Rubber Type .40
4 Kennedy, Wells-G.	.10	20-1-E	Spring for Detrola .50
5 Stewart-Warner	.10	21-A	General Electric .15
6 RCA	.10	22	RCA RP-176, GE 809-J, large tire 1.00
7 Stewart-Warner	.10	23	RCA RP-176, GE 809-J, rim drive .20
8 Stewart-Warner	.10	24-E	Crescent 3 3/4" O.D. .40
9 Atwater-Kent	.10	24-AE	Admiral, Crescent 3 3/4" O.D. .40
10 Stewart-Warner	.10	24B-E	Admiral 3 3/4" O.D. .40
11 Lge. Atwater-Kent	.10		

G-C PLASTIC CRYSTAL

Clear plastic crystal in flat sheet. For radio dials, clocks, dashboards, etc. Can be cut to size, fitted and cemented in place.
No. 92 8" x 10" List \$1.45

No.	Diam.	List	No.	Diam.	List
25	1 3/4"	\$0.55	64	6 3/4"	\$0.65
26	1 7/8"	.55	66	7"	.75
26A	2"	.55	67	7 1/4"	.75
27	2 1/8"	.55	68	7 1/2"	.75
28	2 1/4"	.55	69	7 3/4"	.75
29	2 3/8"	.55	70	7 7/8"	.75
30	2 1/2"	.55	71	7 7/8"	.75
31	2 5/8"	.55	72	7 3/4"	.75
32	2 3/4"	.55	73	7 7/8"	.75
33	2 7/8"	.55	74	8"	.75
34	3"	.55	75	8 1/8"	.85
35	3 1/8"	.55	76	8 1/4"	.85
36	3 3/8"	.55	77	8 3/8"	.85
37	3 5/8"	.55	78	8 3/4"	.85
38	3 7/8"	.55	79	8 7/8"	.85
39	3 3/4"	.55	80	8 3/4"	.85
40	3 3/8"	.55	81	8 7/8"	.85
41	3 7/8"	.55	82	9"	.85
42	4"	.65	83	9 1/8"	.85
43	4 1/8"	.65	84	9 1/4"	.85
44	4 1/4"	.65			

DC65 Kit of 65 Crystals \$38.50
DC25 Kit of 25 Popular Crystals 13.75

GENERAL



CEMENT

RADIO KNOBS - KITS



MAJESTIC BAKELITE KNOBS
Popular pattern. Set screw type. $\frac{7}{8}$ " diam., $\frac{1}{4}$ " shaft.
No. List
1100 Walnut \$0.16
1100-1 Ivory .20

ROYAL BAKELITE KNOBS
Beautiful pattern. Set screw type. $\frac{7}{8}$ " diam., $\frac{1}{4}$ " shaft.
No. List
1105 Walnut \$0.16
1105-1 Ivory .20

YANKEE BAKELITE KNOBS
Set screw type. $\frac{3}{4}$ " and 1" diam., $\frac{1}{4}$ " shaft.
No. List
1109 $\frac{3}{4}$ " Wln. \$0.16
1110 1" Walnut .16
1109-1 $\frac{3}{4}$ " Ivory .20
1110-1 1" Ivory .20

MODERN LARGE KNOB
Knurl shaft or set screw types. $1\frac{1}{8}$ " diameter.
No. List
Knurl Shaft Type
1176 Walnut \$0.12
Set Screw Type
1177 Walnut .16

NEW LARGE KNOB
Knurl shaft or set screw types. $1\frac{1}{8}$ " diameter.
No. List
Knurl Shaft Type
1178 Walnut \$0.12
Set Screw Type
1179 Walnut .16

POPULAR LARGE KNOB
Knurl shaft or set screw types. $1\frac{1}{8}$ " diameter.
No. List
Knurl Shaft Type
1180 Walnut \$0.12
Set Screw Type
1181 Walnut .16



MIDGET BAKELITE KNOBS
Set Screw Type
For small sets. $\frac{1}{8}$ " diam., $\frac{1}{4}$ " shaft.
No. List
Pointer Type
1115 Walnut \$0.12
1116 Ivory .13
1117 Red .13
1118 Black .12

STREAMLINE POINTERS
The most popular pointer knob. $\frac{1}{4}$ " shaft, set screw type $1\frac{1}{4}$ " long.
No. List
1136 Black \$0.15
1136-W Walnut .16
1137 Red .18
1137-1 Ivory .20

MODERN POINTER BAR KNOBS
Brass Bushing
A very popular pointer knob. $\frac{1}{4}$ " shaft, set screw type, 2" long.
No. List
1135 Black \$0.20
1135-W Walnut .24
1138 Red .24
1138-1 Ivory .26

For intercomms and instruments. Black. Set screw, $\frac{1}{4}$ " shaft, $2\frac{1}{2}$ " long.
No. List
1130 Black \$0.38
1130-W Walnut .38

For intercomms and instruments. Black finish. Set screw, $\frac{1}{4}$ " shaft, 1 $\frac{1}{2}$ " long.
No. List
1131 Black \$0.35
1131-W Walnut .35



INSTRUMENT KNOB
A heavy duty knob for communication equipment, instruments. $\frac{1}{4}$ " brass insert, set screw. $1\frac{1}{4}$ " O.D. x $\frac{7}{8}$ ".
No. List
1175 Black \$0.35

STREAMLINE POINTERS
Brass Bushing
Brass insert. $\frac{1}{4}$ " shaft, set screw. $1\frac{1}{4}$ " long.
No. List
1170 Black \$0.25
1170-W Walnut .25
1172 Red .30
1172-1 Ivory .30

Brass insert. $\frac{1}{4}$ " shaft, set screw. 2" long.
No. List
1171 Black \$0.30
1171-W Walnut .30
1173 Red .36
1173-1 Ivory .36

POPULAR BAR KNOB
For intercomms, instruments, appliances. Bakelite with set screw. $\frac{1}{4}$ " hole, $1\frac{1}{2}$ " long.
No. List
1132 Walnut \$0.20

POPULAR PLASTIC KNOB
 $\frac{1}{8}$ " diameter with $\frac{1}{2}$ " shank extension for $\frac{1}{4}$ " knurled shaft.
No. List
1153 Walnut \$0.12
1154 Ivory .13

ATTRACTIVE PLASTIC KNOB
 $\frac{1}{8}$ " diameter, flush type for $\frac{1}{4}$ " knurled shafts.
No. List
1155 Walnut \$0.12
1156 Ivory .13



MIDGET TYPE PLASTIC KNOB
 $\frac{3}{8}$ " diam., $\frac{3}{8}$ " shank for $\frac{1}{4}$ " knurled shafts.
No. List
1157 Walnut \$0.12
1158 Ivory .13

MIDGET TYPE PLASTIC KNOB
 $\frac{3}{8}$ " diam. flush type for $\frac{1}{4}$ " knurled shafts.
No. List
1159 Walnut \$0.12
1160 Ivory .13

ACORN PLASTIC KNOB
 $\frac{3}{8}$ " diam., $\frac{1}{8}$ " shank for $\frac{1}{4}$ " knurled shafts.
No. List
1182 Walnut \$0.12
1183 Ivory .13

PUSH-ON KNURL KNOB
 $\frac{1}{8}$ " diam. flush type for $\frac{1}{4}$ " knurled shafts.
No. List
1184 Walnut \$0.12
1185 Ivory .13

PUSH-ON KNURL KNOB
 $\frac{1}{8}$ " diam., $\frac{1}{2}$ " shank for $\frac{1}{4}$ " knurled shafts.
No. List
1186 Walnut \$0.12
1187 Ivory .13

POINTER TYPE PLASTIC KNOB
 $\frac{1}{8}$ " diam., $\frac{1}{2}$ " shank for $\frac{1}{4}$ " knurled shafts.
No. List
1188 Walnut \$0.12
1189 Ivory .13



MIDGET TYPE PLASTIC KNOBS
 $\frac{3}{8}$ " diam., $\frac{1}{2}$ " shank for $\frac{1}{4}$ " knurled shafts.
No. List
1197 Walnut \$0.12
1198 Ivory .13

$\frac{3}{8}$ " diam., flush shank for $\frac{1}{4}$ " knurled shafts.
No. List
1193 Walnut \$0.12
1194 Ivory .13

SPRING AND D-SHAFT KNOBS
Spring type. $\frac{1}{8}$ " diam. Fits $\frac{1}{4}$ " flat shafts.
No. List
1151 Walnut \$0.12
1152 Ivory .13

D- or flat shaft type. $\frac{5}{8}$ " diam.
No. List
1161 Walnut \$0.12
1162 Ivory .13

SPRING AND D-SHAFT KNOBS
D- or flat shaft type. $\frac{3}{8}$ " diam.
No. List
1163 Walnut \$0.13
1164 Ivory .14

D- or flat shaft type. 1" diam.
No. List
1165 Walnut \$0.14
1166 Ivory .15



G-C AUTO RADIO KNOBS
 $\frac{1}{8}$ " diam. x $\frac{1}{8}$ " high. For $\frac{1}{4}$ " and $\frac{3}{8}$ " shafts. Brass bushing with set screw.
No. List
 $\frac{1}{4}$ " Shaft
1191 Pearl Gray \$0.30
1192 Maroon .30
 $\frac{3}{8}$ " Shaft
1167 Pearl Gray .30
1168 Maroon .30

Set screw type auto radio knob. $\frac{1}{8}$ " diam. x $\frac{7}{8}$ " high. For either $\frac{1}{4}$ " or $\frac{3}{8}$ " shafts with bushing.
No. List
1195 Pearl Gray \$0.30
1196 Maroon .30

G-C AUTO RADIO KNOBS
Chrome plated. For $\frac{1}{4}$ " and $\frac{3}{8}$ " shafts. Set screw mounting.
No. List
1169 $\frac{1}{4}$ " \$0.30
1174 $\frac{3}{8}$ " .30

G-C KNOB SET SCREW ASST.
Handy set screw assortments for radio knobs, shafts, pulleys. 6-32, 8-32, and 10-32.
No. List
1060 50 Asst. \$1.10
1061 100 Asst. 2.00
1062-E 20 Asst. .40
6605 30 Asst. .65

G-C RADIO KNOB KITS

Popular plastic knobs in assorted kits, all kinds of knobs included.

No.	Quantity	List
1140	35 Asstd. Push-on Buttons	\$3.95
1141	28 Asstd. Spring Knobs	3.95
1142	24 Asstd. Set Screw Knobs	3.95
1143	30 Asstd. All Type Knobs	3.95
1144	15 Asstd. Auto Radio Knobs, for $\frac{1}{4}$ " and $\frac{3}{8}$ " shafts	3.95

G-C KNOB SPRING KITS
Twelve types of knob springs or wedges in kit.
No. List
1049-E Env. 20 Asstd. \$0.40
1050 Kit 35 .85
1051 Kit 100 1.65
6619 Jar 35 Asstd. .65

G-C KNOB FELTS
Used behind knobs. Saves cabinet.
No. List
1065-E Env. 50 \$0.40
6641 Jar 70 .65

G-C KNOB BUSHINGS
Reduce from $\frac{1}{4}$ " to $\frac{3}{8}$ ". For auto radios.
No. List
6751 \$0.40

G-C RADIO KNOB PULLER

Very handy in removing knobs that are hard to pull off. Simply slip behind knob and pull off. Saves the cabinet and the knobs.

No.	List
1063	\$0.40

GENERAL



CEMENT

PHONO NEEDLES and ACCESSORIES



G-C MASTER POINT PHONO NEEDLES

G-C CATHEDRAL TONE

Long life, excellent tone needle made with osmium alloy tip to insure uniform reproduction and long life. Will save the records and give excellent reproduction for a long time.

No.	Each	List
1430		\$0.75
1431-D	Display	
	12 #	1430. 9.00

G-C SYMPHONIC NEEDLE

Superior quality long life needle designed to give excellent tone. Special osmium alloy tip gives true reproduction with less pressure on the records. Will last indefinitely.

No.	Each	List
1435		\$1.00
1435-D	Display	
	12 #	1435. 12.00

G-C CONCERT GRAND

Very finest "long life" curved "spring action" needle that will bring out the finest tones in music. Special osmium alloy tip insures long life. Tip is perfectly formed to fit record grooves. The best.

No.	Each	List
1436		\$1.50
1436-D	Display	
	12 #	1436. 18.00

G-C RECORD-LIFE LUBRICANT

Simply wipe record with "Record-Life" and the needle will glide over the record smoothly. Prevents record and needle wear; also eliminates noises and scratching sounds. Use also for making records.

No.	1oz.	List
125-1		\$0.30
125-2	2-oz.	.60
125-4	4-oz.	.85
125-6	6-oz.	1.00

G-C REK-O-DOPE

Required lubricant when recording and cutting records. All purpose, it cools, cleans, lubricates, and hardens grooves when cut. Rek-O-Dope will give better tone and longer life.

No.	1-oz.	List
126-1		\$0.30
126-2	2-oz.	.60
126-4	4-oz.	.85
126-6	6-oz.	1.00

G-C CORD CONNECTOR

Handy cord connector to connect phono motors to radio sets, for appliances, vacuum cleaners, sewing machines, etc.

No.	List
868	\$0.65



G-C JUKE SPECIAL PHONO NEEDLE

Long life needle. Preferred by operators on coin machines, automatic records, etc. Precious osmium tip will give long, hard service and tone quality, even when used with heavy pick-ups. Will give thousands of plays.

No.	Each	List
1437		\$1.00
1437-D	Display	
	12 #	1437. 12.00

G-C RECORDING STYLUS

The best cutting stylus made from alloy steel will give several hours of good cutting. Make your own recordings.

No.	List
1433	\$0.50
1434-D	Display
	12 # 1433. 6.00

G-C SERVICEMAN'S NEEDLE PACKET

Handy package containing ten assorted high quality G-C Master-Point Needles. Packaged in attractive folder which protects the needle packages so that they are fresh and new when you make your sale.

No.	List
1432	\$9.50

G-C RECORD TURNTABLE FELT

Re-cover phono turntables with ready cut felts. Dark brown.

No.	Dia.	List
1292	7 7/8"	\$0.45
1296	8 7/8"	.60
1293	9 7/8"	.65
1294	11 7/8"	.75
1295	15 7/8"	1.30
Brown Felt — By The Yard		
1298	36" Wide, per yd.	5.50

G-C DETROLA SPRING DRIVE

Genuine replacement for Detrola turntables. Spring drive with core inside. Used on Detrola, Utah, and Trela models, etc.

No.	List
20-1-E	Detrola Spring
	\$0.50

G-E — RCA PHONO DRIVES

Special V and Rim drives for RCA, RP-176 and G-E, 809-J turntables.

No.	List
22	Large Tire, each
	\$1.00
23-E	Env. 2 Rim Drives
	.40



G-C PHONO NEEDLE STYLUS SCREWS

Here's the hard-to-get replacement thumb set screws for pick-up arms and recording heads!

No.	List
1052	15 Asst. Stylus Screws
	\$ 1.65
1052-E	Env. 7 Asst. Screws
	.40
1053	100 Asst. Stylus Screws
	11.00

Individual Phono Screw Specifications

P1	For Shure Brothers, etc.	.10
P2	For Astatic, RCA, Seeburg, Webster, etc.	.10
P3	For Astatic, Stromberg-Carlson, Universal, Webster, etc.	.10
P4	For Rek-O-Cut, Webster, etc.	.15
P5	For RCA, etc.	.15
P6	For RCA, etc.	.10
P7	For Webster, etc.	.15
P8	For Shure Brothers, etc.	.15
P9	For RCA, Astatic, Webster, etc.	.15
P10	For Audex, etc.	.15

CARTRIDGE MOUNTING SCREWS

For mounting cartridges in Phono Pick-Up Arms.

No.	List
6005-E	Env. 60 4-36 x 1/4"
	\$0.40
6005-AE	Env. 60 4-40 x 1/4"
	.40

G-C STA-PUT PHONO-GEAR LUBRICANT

New "STA-PUT" lubricant for phono motors, gears, shafts, etc. Will not run or drip—it "Stays Put." Recommended by RCA, G-E, and others.

No.	List
1223	Tube
	\$0.60
122-2	2-oz.
	.60

G-C PHONO NEEDLE AND PARTS CUP

Standard size bakelite cup for phono needles and parts. It makes handy holder for screws, nuts, parts, etc., on the service bench.

No.	List
1399	Needle Cup
	\$0.10

G-C SHIELDED PHONO PICK-UP WIRE

Handy package of single conductor shielded wire as used on phono pick-ups, etc. Enough wire for several jobs in package.

No.	List
1738-E	Envelope
	\$0.40

G-C RECORD CLEANING PAD

Specialty treated soft felt pad for cleaning and removing dust from records. Saves records.

No.	List
1290	4" x 4"
	\$0.25
1291	6" x 6"
	.45



G-C PICK-UP & CARTRIDGE SCREW ASS'T.

Contains small size screws and bushings such as used on cartridges of pick-up arms. Very handy in replacing cartridges or repairing stripped threads.

No.	List
6000-E	30 Screws,
	\$0.40



G-C PHONO TURNTABLE DRIVES RUBBER REPLACEMENT DRIVES

Exact duplicates for replacement of popular friction type phono turntable drives. Use G-C # 35-2 Rubber-to-Metal Cement for cementing rubber to rim.

No.	List	No.	List
16	For General Industries	21-A	For General Electric Models
	\$0.25		\$0.15
16-E	Env. 2 No. 16 Drives	21-A-E	Env. 2 No. 21-A
	.40		.40
17	For Alliance Model and Motorola	22	RCA RP-176, G-E 809-J, large tire
	.25		1.00
17-E	Env. 2 No. 17 Drives	23	RCA RP-176, G-E 809-J, rim drive
	.40		.20
18	For RCA	23-E	Env. 2 No. 23 Drives
	.15		.40
18-E	Env. 3 No. 18 Drives	24-E	Crescent 3 3/4" O.D.
	.40		.40
19	For Philco, RCA, etc.	24-A-E	Admiral, Crescent, 3 1/4" O.D.
	.15		.40
19-E	Env. 4 No. 19 Drives		.40
	.40		
20-E	Detrola Rubber Drive		
	.40		
20-1-E	Detrola Spring Drive		
	.50		

GENERAL



CEMENT

SWITCHES — SPAGHETTI TUBING



G-C TOGGLE SWITCH

S.P.S.T. Radio and appliance switch. Open housing, underwriters approved. Made by Cutler-Hammer, 3 amp., 125 volt. Nickel Plated.

No.	List
1339 S.P.S.T.	\$0.45

G-C PUSH-ON PUSH-OFF SWITCH

For vacuum cleaners, appliances, test equipment. Made by H & H for G-C. Rated at 3 amps., 125 volts. Nickel Plated.

No.	List
1338 S.P.S.T.	\$1.45

G-C BAT HANDLE SWITCH WITH WIRE LEADS

For vacuum cleaners, appliances, radio sets, etc. Made by H & H for G-C. Rated at 3 amps., 125 volts. Nickel Plated.

No.	List
1335 S.P.S.T.	\$0.95

G-C ON-OFF PLATE

Will fit the G-C, H & H, Cutler-Hammer, and other makes of standard switches.

No.	List
1329 On-Off Plate	\$0.05

G-C BAT HANDLE TOGGLE SWITCH

Tear drop handle general purpose switch. Made by H & H for G-C. 3 amps., 125 volts. Nickel Plated.

No.	List
1330 S.P.S.T.	\$0.60
1331 S.P.D.T.	.75
1332 D.P.S.T.	1.20
1333 D.P.D.T.	1.30

G-C TOGGLE SWITCHES

Ball handle general purpose switch. Made by H & H for G-C. 3 amps., 125 volts. Nickel Plated.

No.	List
1300 S.P.S.T.*	\$0.60
1301 S.P.S.T.†	.70
1302 S.P.D.T.*	.80
1303 S.P.D.T.†	.85
1304 D.P.S.T.*	1.20
1305 D.P.S.T.†	1.25
1306 D.P.D.T.*	1.30
1307 D.P.D.T.†	1.40
* 1/2" Shank Length.	
† 3/4" Shank Length.	



G-C PUSH BUTTON SWITCH

Two circuit, "slow make and quick break" momentary contact switch. One circuit normally on, other off; pushing button reverses circuits in use. Made by H & H for G-C. 3 amps., 125 volts. Shank 3/8" long.

No.	List
1340 Switch	\$1.20
For 1340 Switch Red or Black (Specify)	
1343 Button	\$0.35

G-C ROTARY SWITCHES

Best grade enclosed rotary switches. Made by H & H for G-C. 3 amps., 125 volts. Shafts 1 1/2" long.

No.	List
1320 S.P.S.T.*	\$0.85
1321 S.P.S.T.†	1.00
1322 S.P.D.T.*	.95
1323 S.P.D.T.†	1.15
1324 D.P.S.T.†	1.45
1325 D.P.D.T.*	1.45
1326 D.P.D.T.†	1.70
* 3/8" Shank Length.	
† 1" Shank Length.	

G-C NEUTRAL CENTER SWITCH

Handy radio, appliance and tester switch with 3 positions, On-Off-On. Rated 15 amps., 110 volts; 1/8" shank. Nickel Plated.

No.	List
1308 S.P.D.T.	\$1.25
1309 D.P.D.T.	2.00

G-C EXTRA HEAVY DUTY POWER SWITCH

Three position for motors, projectors, transmitters, movie equipment, etc. Made by H & H for G-C. 10 amps., 125 volts. Neutral off in center. Size 2" x 1" x 1 1/2", shank 3/4" diameter.

No.	List
1352 D.P.D.T.	\$5.50
1353 3 P.D.T.	8.25
1354 4 P.D.T.	12.00

G-C HEAVY DUTY POWER SWITCH

Push button, D.P.S.T. safety switch for transformers, racks, transmitters, refrigerators and high frequency work. Made by H & H for G-C. 12 amps., 125 volts. Nickel Plated.

No.	List
1351 D.P.S.T.	\$2.20

G-C HEAVY DUTY POWER SWITCH

D.P.S.T. toggle power switch for motors, appliances, projectors, etc. Made by H & H for G-C. 12 amps., 125 volts. Nickel Plated.

No.	List
1350 D.P.S.T.	\$1.55



G-C SLIDE SWITCHES

For phonographs, tone controls, auto lights, electric trains, etc. 1/2" wide x 1 1/8" center mounting.

No.	List
1355 S.P.S.T.	\$0.35
1357 S.P.D.T.	.40
1358 D.P.S.T.	.45
1359 D.P.D.T.	.50

G-C RADIO FRICTION TAPE

This narrow 3/8" tape was particularly made for radio work. It eliminates waste and tearing of tape. It saves time and is handy to carry with you.

No.	Roll	List
870	65 ft. 3/8"	\$0.55
871	65 ft. 3/8"	.95

G-C PLASTIC TUBING KITS

Handy kits of assorted colors and sizes. Ideal for experimenters and servicemen.

No.	List
635 Kit of 25 ft. Asst.	\$0.90
635-D Display 8	No. 635 7.20
636 Kit of 15 ft. Asst.	1.25
636-D Display 8	No. 636 10.00

G-C ASSORTED SPAGHETTI KIT

An assortment of 7 1/2" lengths of spaghetti sleeving; 26 lengths to the kit. Sizes include from No. 17 wire to 3/8" I.D. A very handy bundle to have for repair jobs.

No.	List
550 Kit 26 Lengths	\$0.65

G-C SPAGHETTI ASSORTMENT

"A Box Full of Spaghetti"

Here's a buy you can't beat on a spaghetti assortment. A variety of sizes and colors are included of high grade varnish tubing. Put up in attractive box.

No.	List
551	\$1.25

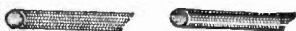
G-C SPAGHETTI ON SPOOLS

"Approved by ASTM" 5000-Volt Dielectric Strength

Best grade varnished tubing put on convenient 20-ft. spools. Will fit wire from No. 12 to No. 18. Colors: Black, Red, Yellow, Green, Blue. Specify color.

No.	Spool	List
499	20-ft.	\$1.95

G-C COATED SLEEVING



Best grade varnished sleeving. Dielectric strength 2000 volts. Colors: Black, Red, Yellow, Green, Brown. Specify color.

No.	Size	List
525	No. 20, fit 20 wire	\$0.11
528	No. 17, fit 18 wire	.12
531	No. 14, fit 14 wire	.15
533	No. 12, fit 12 wire	.15
537	1/8" I.D.	.20
540	3/8" I.D.	.30
543	1/2" I.D.	.35
546	3/4" I.D. (resist. size)	.60
547	7/8" I.D.	.75

G-C GENFLEX PLASTIC TUBING

"MADE OF EXTRUDED PLASTIC"

High grade extremely flexible plastic tubing for Radio and Electronic Insulation work. Resistant to cold or heat. High dielectric strength, average 8,000 volts. Put up in attractive individual boxes for easy handling. Colors: Black, Red, Green, Clear (Specify)

No.	Wire	Pkg.	List
603	18	20 ft.	\$0.95
605	16	20 ft.	.95
607	14	20 ft.	.95
609	12	20 ft.	.95
611	10	15 ft.	.95
613	8	15 ft.	.95

All sizes available in continuous lengths on special order of 1,000 feet or more.

G-C RADIO SPAGHETTI



Best grade Radio and Television spaghetti. Smooth coated, with best varnishes. Very flexible. 5000 volt dielectric. Approved by ASTM. Colors: Black, Red, Yellow, Green, Brown. Specify color. 30" lengths.

No.	Size	List
500	No. 20, fit 20 wire	\$0.18
503	No. 17, fit 18 wire	.18
506	No. 14, fit 14 wire	.20
508	No. 12, fit 12 wire	.20
512	1/8" I.D.	.25
515	3/8" I.D.	.30
518	1/2" I.D.	.35
521	3/4" I.D. (resist. size)	.75
522	7/8" I.D.	.95
523	1" I.D.	1.20

GENERAL



CEMENT

RADIO SOCKETS—PLUGS—JACKS



G-C STANDARD TUBE SOCKETS

BAKELITE SOCKETS
High quality molded bakelite sockets with plated bronze contacts. Three grounding lugs on base of each socket. 1 1/2" mounting centers.

No.	Mntg. Center	List
1534 4-prong	1 1/2"	\$0.15
1535 5-prong	1 1/2"	.15
1536 6-prong	1 1/2"	.15
1537 7-pr. Small	1 1/2"	.15
1537-L 7-pr. Large	1 1/2"	.18
1538 8-pr. Octal	1 1/2"	.18
1538-28-pr. Octal	1 1/2"	.18
1538-L 8-pr. Octal	1 1/2"	.20

G-C MINIATURE TUBE SOCKETS

BAKELITE MINIATURE SOCKET
For Miniature Tubes
High quality molded bakelite socket with metal saddle mounting. Made with phosphor bronze plated contacts for 7-prong tubes. Standard 7/8" mounting centers.

WAFER MINIATURE SOCKET
For Miniature Tubes
High grade bakelite sockets for new miniature tubes. Phosphor bronze contacts, for 7-prong tubes. Standard 7/8" mtg. centers.

No.	List
1540 Bakelite Socket	\$0.25

No.	List
1541 Wafer Socket	\$0.15
1542 Wafer Socket with grounding strap	.17



G-C 860 CAP
Spring action flat brown bakelite cap. Approved brass blades.

G-C 861 CAP
Spring action, finger grip rubber caps. Approved. screw terminal brass blade.

G-C 865 CAP
Modern flush type rubber cap. Easy to assemble. No exposed screws or wires.

G-C 867 PLUG
Popular screw plug for standard sockets.

G-C CUBE TAP
New type spring action cube tap with 3 outlets always available.

G-C CORD CONNECTOR
Brown bakelite with bronze contacts.

No.	Cap	List
860	Cap	\$0.25

No.	Cap	List
861	Cap	\$0.25

No.	Cap	List
865	Cap	\$0.25

No.	Plug	List
867	Plug	\$0.17

No.	Brown	List
862	Brown	\$0.30

No.	Brown	List
863	Brown	\$0.25



G-C SURFACE BLOCK
3-plug. Bakelite outlet for extension cords. Can fasten to wall or base.

G-C AUTO ANTENNA PLUG
Shielded connector plug as used on Motorola and other auto radios.

G-C ANTENNA CONNECTOR JACK
Shielded jack to fit the 1740 plug for auto antenna and phono-graph connection.

G-C PHONO PLUG
For all phonographs and auto radio connections; RCA, Zenith, Philco and others.

G-C PHONO JACK
Used for phonograph attachments. To be used with 1742 plug.

G-C EXTENSION JACK AND CONNECTOR
For extending radio ant. cables and phono attachments. Fits 1740 or 1742 plugs.

No.	Block	List
866	Brown	\$0.50

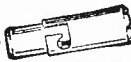
No.	Plug	List
1740	Plug	\$0.15

No.	Jack	List
1741	Jack	\$0.25

No.	Plug	List
1742	Plug	\$0.10
1742-E Env. of 4, 40		

No.	Jack	List
1743	Jack	\$0.15
1743-E Env. of 8, 40		

No.	Jack	List
1744	Jack	\$0.20



G-C MOTOROLA LEAD ADAPTER
Adapter plug used to adapt bayonet type connector to Motorola type.

G-C ADAPTER SHELL
Used to change the Motorola fitting to bayonet type connector.

G-C ANTENNA CONNECTOR
Used for connections on auto antenna and ground lines.

G-C JUMBO FUSE HOLDER
14 amp. fuse holder, 2 1/4" long x 1/2" diameter.

G-C FUSE CONNECTOR
Regular Type
Used on auto radios and other equipment. Completely assembled.

G-C ANTENNA CONNECTOR END
To be used with regular antenna connectors. With bushing.

No.	Adapter	List
1745	Adapter	\$0.40

No.	Shell	List
1746	Shell	\$0.12

No.	Connector	List
1747	Connector	\$0.15

No.	Holder	List
1748	Holder	\$0.30

No.	Connector	List
1749	Connector	\$0.20

No.	End	List
1750	End	\$0.10



G-C REPLACEMENT PARTS FOR ANTENNA AND FUSE CONNECTORS

No.	Description	List
(a) 1791	Sleeve of Fuse Connector	\$0.05
1791-G	Box of 144 No. 1791	7.20
(b) 1792	Sleeve of Antenna Connector	.05
1792-G	Box of 144 No. 1792	5.00
(c) 1793	End piece for Antenna and Fuse Connector	.04
1793-G	Box of 144 No. 1793	7.20
(d) 6720	Auto Fuse Insulator Sleeve	.02
6720-G	Box of 144 No. 6720	1.50
(e) 1796	Spring for Antenna and Fuse Connector	.01
1796-G	Box of 144 No. 1796	1.40
(f) 1795	Bakelite Bushing	.04
1795-G	Box of 144 No. 1795	4.00

G-C TERMINAL STRIPS SCREW TYPE
Laminated bakelite strips, rigidly constructed, terminals will not turn and short.

No.	Contacts	List
1772	2	\$0.18
1773	3	.27
1774	4	.36
1775	5	.45
1776	6	.54
1777	7	.63
1778	8	.72
1779	9	.81
1780	10	.90

G-C TERMINAL STRIPS SOLDER TYPE
Mounted on laminated bakelite strips. Lugs securely fastened and will not turn.

No.	Contacts	List
1781	1	\$0.05
1782	2	.06
1783	3	.07
1784	4	.11
1785	5	.12
1786	6	.13
1787	7	.14
1788	8	.15
1789	9	.18
1790	10	.20

G-C PHONO SPRING KIT
Kit contains assorted springs same as are used on phono turntables. With this kit you can replace the broken or weak spring without waiting or delay in service.

No.	List
6478 Kit of 50	\$2.50
6479 Kit of 100	4.40

G-C AUTO FUSE INSULATOR SLEEVE
Insulating sleeve to fit regular fuse holders.

No.	List
6720-E Env. of 16,	\$0.40



G-C INSULATING CAMBRIC 10,000 Volts
Yellow varnished cambric. .010" thick.

No.	List	
549	Roll over 210 sq. in.	\$0.75
548	36" x 36", yd., any length	4.00

G-C LAMINATED BAKELITE PANELS
1/8" thick. Black.

No.	List	
590	6" x 6" x 1/8"	\$0.60
591	6" x 12" x 1/8"	1.10
592	12" x 12" x 1/8"	2.20

G-C FIBEROID "FISH PAPER"
Fish paper has many uses around the shops for repair jobs where electrical insulation is required. .010" — 240 sq. in. roll.

No.	List	
560	Roll	\$0.50

G-C RUBBER KIT ASSORTMENT
Handy kit to keep in the shop. Contains various sizes of rubber grommets, chassis mounts, etc. An exceptional buy.

No.	List	
7600	Rubber Kit	\$1.00

G-C RADIO CORD SETS
Handy replacement cord sets, ready to attach to radio sets and appliances. Approved Brown parallel wire with plugs attached.

No.	List	
885	6 ft.	\$0.45
886-P	7 1/2 ft.	.60

G-C EXTENSION CORDS
G-C extension cords are made of approved wire ready to use with a plug on one end and a 3-way tap on the other end. Brown.

No.	List	
887	6 ft.	\$0.75
889	7 1/2 ft.	.90

GENERAL



CEMENT

SIGNAL LIGHTS — CONNECTORS — CLIPS



G-C ONE-INCH JEWEL SIGNAL LIGHT

For signal devices of all types. Bulbs change from the front; for socket bases as listed below. One-inch mounting hole. Jewel colors: Red, Green, Blue, Amber, Opal, and Clear (Specify Jewel Color).

No.	Socket	Jewel	List
7901	110-V. Cand.	Facett	\$1.40
7902	110-V. Cand.	Smooth	1.40
7903	Min. Bayonet	Facett	1.40
7904	Min. Bayonet	Smooth	1.40
7905	Min. Screw	Facett	1.40
7906	Min. Screw	Smooth	1.40

G-C 3/4-INCH JEWEL SIGNAL LIGHT

All purpose signal light with faceted jewels in colors of Red, Green, Blue, Amber, Opal, Clear. $\frac{1}{2}$ " mounting hole. Jewel removed from front. (Specify Jewel Color)

No.	Socket	List
7907	Min. Screw	\$0.80
7908	Min. Bayonet	.80
7909	110-V. Candel.	.80

G-C 1/2-INCH JEWEL SIGNAL LIGHT

Popular signal light, requires only $\frac{1}{8}$ " mounting hole. Faceted jewel removed from front. Colors: Red, Green, Blue, Amber, Opal, Clear. (Specify Jewel Color).

No.	Socket	List
7910	Min. Screw	\$0.35
7911	Min. Bayonet	.40
7912	110-V. Candel.	.40

G-C PANEL JEWELS

Complete assemblies in 1", $\frac{3}{4}$ ", and $\frac{1}{2}$ " diameters. Fit panels up to $\frac{1}{4}$ " thick. Brass nickel-plated. Colors: Red, Green, Blue, Amber, Opal, Clear. (Specify Jewel Color).

No.	Dia.	Jewel	Mtg. Hole	List
7913	$\frac{1}{2}$ "	Facett	$\frac{7}{16}$ "	\$0.25
7914	$\frac{1}{2}$ "	Smooth	$\frac{7}{16}$ "	.25
7915	$\frac{3}{4}$ "	Facett	$\frac{1}{2}$ "	.60
7916	1"	Facett	1"	1.10



G-C CLIP-ON PILOT LIGHT SOCKETS

Clip up and clip down types for replacements. Cadmium-plated.

No.	Type	List
7920	Min. Screw Clip Up	\$0.15
7921	Min. Screw Clip Down	.15
7922	Min. Bay. Clip Up	.17
7923	Min. Bay. Clip Down	.17
7924	110-V. Cand. Clip Up	.20
7925	110-V. Cand. Clip Down	.20

G-C BRACKET-TYPE PILOT LIGHT SOCKETS

Sturdy bracket-up or bracket-down type. Cadmium-plated.

No.	Type	List
7926	Min. Screw Bracket Up	\$0.15
7927	Min. Screw Bracket Down	.15
7928	Min. Bay. Bracket Up	.17
7929	Min. Bay. Bracket Down	.17
7930	110-V. Candel. Bracket Up	.20
7931	110-V. Candel. Bracket Down	.20

G-C UNMOUNTED PILOT LIGHT SOCKETS

Cadmium plated. Ideal for replacements or special assemblies.

No.	Type	List
7932	Min. Screw Base	\$0.15
7933	Min. Bayonet Base	.14
7934	110-V. Candelabra	.16

G-C PILOT LAMP INSTALLER

Makes it easy to install miniature dial bulbs, neon and candelabra lamps in hard-to-get-at places. All rubber.

No.	List
7935	Installer \$0.40

G-C DOUBLE ALLIGATOR CLIP

Brand New! A clip on both ends. Handiest connector made for joining wires, making temporary circuits, repairs; for tests, experiments, etc. Cadmium-plated.

No.	List
7758-E	Env. 2 \$0.40



G-C MALE MICROPHONE CONNECTOR

Completely shielded, sturdy, single contact connector. Brass, bright chrome-plated. Steel spring cord protector.

No.	List
7940	Connector \$0.45

G-C FEMALE MICROPHONE CONNECTOR

Single contact female type used with No. 7940, 7941 and 7943 connectors. Complete, brass chrome-plated.

No.	List
7942	Connector \$0.55

G-C MICROPHONE CHASSIS UNIT CONNECTOR

Single contact male connector for chassis. Used with type 7942 female connector. Supplied complete. Brass nickel-plated.

No.	List
7941	Connector \$0.35

G-C MICROPHONE CONNECTOR

Single contact, closed circuit type, prevents open circuit noises when microphone is disconnected. Chassis type, use with type No. 7942 female connector. Brass, nickel-plated.

No.	List
7943	Connector \$0.55

G-C MICROPHONE CONNECTOR CAP

Chrome plated cap with anchor chain for all connectors. Seal against dirt and prevent thread damage.

No.	List
7944	Connector Cap \$0.50

G-C INSULATED ALLIGATOR CLIP

Solder type with Red or Black insulated sleeve. Strong spring. Nickel plated.

No.	List
5064	Red Clip \$0.20
5064-E	Env. of 2, .40
5065	Black Clip .20
5065-E	Env. of 2, .40



G-C CROCODILE CLIP

Set screw type. Teeth nest together to assure perfect contact with wires, etc. Cadmium-plated.

No.	List
7757	Clip \$0.30

G-C WEE-PEE-WEE CLIP

Very small and thin nosed with set screw for wire. Phosphor bronze. Ideal for coil work.

No.	List
7755	Clip \$0.30

G-C PEE-WEE CLIP

Popular test clip. Interlocking jaws assure positive contact. Set screw type.

No.	List
7756	Clip \$0.12

G-C ALLIGATOR CLIP

Solder type, non-insulated. Strong spring for positive contact. Nickel-plated.

No.	List
5063	Clip \$0.12
5063-E	Env. of 3, .40

G-C ALLIGATOR CLIP

Wire fastens under set screw. Handy for all types of connectors. Cadmium-plated.

No.	List
7752	Clip \$0.18

G-C SCREW TYPE INSULATED ALLIGATOR CLIP

Very popular. Bright polished handles. Set screw for wire.

No.	List
7750	Blk. Clip \$0.25
7751	Red Clip .25



G-C AMMETER CONNECTOR

Easily clips to the ends of screws. Positive fast connector.

No.	List
6307	Each \$0.12
6307-G	Box 144 \$16.05

G-C SMALL CLIP

$\frac{1}{2}$ " long by $\frac{3}{8}$ " wide. Handles up to No. 16 wire. No 6 Mtg. Hole.

No.	List
6301	Each \$0.03
6301-G	Box 144 2.30

G-C MEDIUM CLIP

$\frac{3}{4}$ " long by $\frac{1}{4}$ " wide. Handles up to No. 14 wire. No 6 Mtg. Hole.

No.	List
6302	Each \$0.03
6302-G	Box 144 2.50

G-C LARGE CLIP

1 $\frac{1}{8}$ " long by $\frac{3}{8}$ " wide. No. 8 Mtg. Hole.

No.	List
6303	Each \$0.04
6303-G	Box 144 2.65

G-C MEDIUM SOLDER LUG CLIP

$\frac{3}{4}$ " long by $\frac{1}{8}$ " wide. No. 6 Mtg. Hole.

No.	List
6306	Each \$0.04
6306-G	Box 144 3.40

G-C DOUBLE CLIP

1 $\frac{1}{2}$ " long by $\frac{1}{8}$ " wide. No. 6 Mtg. Hole.

No.	List
6304	Each \$0.14
6304-G	Box 144 \$21.40

G-C FAHNESTOCK CLIPS

(Also see other listing Page U-105)



G-C TEST LEAD WIRE
Ideal long-life replacement wire, extra flexible, 6000 volt insulation. Red and Black (Specify color).

No.	Env.	Length	List
5049	1 Red, 1 Black	50' long	\$0.50
5049-C	100-ft.		5.00
5049-M	1000-ft.		45.00

G-C MASTER TEST LEADS
Heavy duty type. Very best. 6000 volt test, 50" extra flexible wire. Solderless connectors. Polished, colored plastic prods, removable tips. Brass nickel-plated. One Red, one Black lead.

No.	Test Leads	List
5050	Test Leads	\$1.50

G-C TEST PRODS
Solderless type non-breakable fibre. Removable tip, brass nickel-plated.

No.	Size	Color	List
5041	5 1/4"	Red	\$0.40
5042	5 1/4"	Black	.40
5043	7 1/4"	Red	.50
5044	7 1/4"	Black	.50

G-C LOW-LOSS DELUXE TEST PRODS
New polished low-loss material. Non-breakable. Moisture resistant. Withstands high voltages. Solderless type, brass nickel-plated.

No.	Color	List
5045	Red	\$0.50
5046	Black	.50

G-C NEEDLE POINT TEST PRODS
Adjustable chuck tip for needle. 6" polished plastic handles in Red or Black. Brass nickel-plated chuck removable. Includes needle. (Specify color).

No.	List
7701	\$0.50



G-C MODERN PHONE TIP PLUG
New type safety tip plug fits standard phone tip jack. Solderless connectors, brass plated nickel contact.

No.	Color	List
7704	Red	\$0.50
7705	Black	.50

G-C INSULATED TEST PROD TIPS
Unbreakable polished plastic insulated handles. Solderless connectors, brass nickel-plated.

No.	Env.	List
5061	Red	\$0.24
5061-E	Env. 2	.40
5062	Black	.24
5062-E	Env. 2	.40

G-C TEST PROD TIPS
Solderless type, brass nickel-plated. Non-insulated. Wire fastens easily.

No.	Env.	List
5060		\$0.15
5060-E	Env. 3	.40

G-C PHONO NEEDLE POINT TEST PROD CHUCK
Threaded chuck fits 1/4"-20 threaded hole. Needle removable. Brass nickel-plated. Includes needle.

No.	List
7702	\$0.20

G-C HEAVY DUTY PHONE PLUG
Standard type as used on test prods, leads, etc. Fits snugly in 1/4" hole. Brass nickel-plated.

No.	List
7706	\$0.15



G-C SOLID STANDARD PHONE TIP
Solid brass type made to RMA specifications. Bright nickel-plated.

No.	Env.	List
6321-E	Env. 8	\$0.40
6321-G	Pkg. 144	6.75

G-C STANDARD PHONE TIP
Made of drawn brass with hole through center for easy soldering of wire at tip. Bright nickel-plated.

No.	Env.	List
6320	Env. 16	\$0.40
6320-G	Pkg. 144	2.95
6629	Jar 30	.65

G-C PHONO NEEDLE POINT TEST PROD CHUCK
Push on type fits snugly in 1/4" hole. Brass nickel-plated.

No.	List
7703	\$0.20

G-C INSULATED PHONE TIP PLUG
Fits standard phone tip jacks. Polished non-breakable low-loss plastic insulated handles. Brass nickel-plated tip. Minimum contact exposure.

No.	Color	List
7710	Red	\$0.20
7711	Black	.20

G-C INSULATED SPADE LUG
Tapered spade lug fits all screws or terminal strips up to No. 10. Insulated female end fits banana plugs.

No.	Color	List
7712	Red	\$0.20
7713	Black	.20



G-C PHONO TIP JACKS
Standard type with phosphor bronze spring contacts. Fits 1/4" hole and panels up to 3/8" thick. Brass parts nickel-plated.

No.	List
7714	\$0.15

G-C INSULATED PHONE TIP JACKS
Standard insulated type phosphor bronze spring contacts. 3/8" insulated head. Fits 1/4" hole and panels up to 3/8" thick. Brass parts nickel-plated.

No.	Color	List
7715	Red	\$0.20
7716	Black	.20

G-C SPRING BANANA PLUG
Insulated solderless type with polished insulated handles. Non-collapsible spring action plug. Metal parts nickel-plated.

No.	Color	List
7730	Red	\$0.30
7731	Black	.30

G-C SET SCREW TYPE BANANA PLUG
Insulated set screw type. Polished insulated plastic handles. Non-collapsible spring action banana type plug. Nickel-plated metal parts.

No.	Color	List
7732	Red	\$0.25
7733	Black	.25

G-C SMALL BANANA PIN PLUGS
Approved silver-plated plugs with straight shank. Can be riveted or soldered. For wires, multiple plugs, etc.

No.	Env.	List
6400	Env. 10	\$0.40



G-C SPRING BANANA PLUG
Standard size with 6-32 threaded shank. Use on plug-in coils, terminal strips, etc. Complete with lug and nut. Brass nickel-plated.

No.	List
7736	\$0.15

G-C SPRING BANANA PLUG
Standard size with 6-32 female thread on end. Supplied with screw and solder lug. Brass nickel-plated.

No.	List
7737	\$0.15

G-C BANANA JACK
Standard size banana pin jack. Fits 1/4" hole up to 3/8" thick panel. Nut and lug supplied. Brass nickel-plated.

No.	List
7740	\$0.15

G-C INSULATED BANANA JACK
Standard size with polished plastic insulators. Fits 1/4" hole, up to 3/8" thick panel. Nut, lug, and insulators supplied. Brass, nickel-plated.

No.	Color	List
7741	Red	\$0.20
7742	Black	.20

G-C RCA PHONO PIN PLUG AND JACK
RCA types used on many type receivers. Also used as auto antenna connectors.

No.	List
1742 Mdg. Plg.	\$0.10
1742-E Env. 4	.40
1743 Midget Jck.	.15
1743-E Env. 3	.40

G-C INSULATED BANANA PLUG OR PHONE TIP JACK
Standard size insulated combination jack. Brass nickel-plated with phosphor bronze spring contacts. Fits 1/4" hole, panels up to 3/8" thick.

No.	Color	List
7744	Red	\$0.30
7745	Black	.30

GENERAL



CEMENT

ALIGNMENT TOOLS - KITS

G-C COMBINATION ALIGNMENT TOOL



Popular bone fibre tool. Consists of screwdriver with metal nib, 1/4" slotted hex wrench and 1/8" hex wrench on other end.

No.	List
5014	\$0.85

ALIGNMENT COMBINATION TOOLS

G-C No. 5015 ALIGNMENT TOOL



Popular combination tool. Bone fibre. Includes metal screwdriver tip to fit hex wrench, 1/8" hex wrench, 1/4" slotted hex wrench and fibre screwdriver with metal nib.

No.	List
5015	\$1.35

G-C DELUXE COMBINATION ALIGNMENT TOOL



Most useful tool designed to use in cramped quarters. Bone Fibre. Consists of short screwdriver with metal nib and 1/4" hex side wrench with slotted 1/4" hex end wrench, 1/8" hex wrench and heavy metal screwdriver tip.

No.	List
5016	\$1.35

G-C INSULATED HEX WRENCH AND DRIVER



Combination insulated 1/4" hex wrench and screwdriver. Screwdriver can be extended for extra length. Made of bone fibre.

No.	List
5005 Extends 7"-13"	\$0.75
5006 Extends 11"-17"	1.00

ALIGNMENT SCREWDRIVERS

G-C NON-EXTENSION INSULATED WRENCH AND DRIVER



Combination tool 1/4" hex wrench on one end and screwdriver on other. 6" overall length. Made of bone fibre.

No.	List
5007	\$0.40

G-C ALIGNMENT SCREWDRIVER



Popular insulated tool. New low inductance material with metal nib. Strong and flexible. Two sizes.

No.	List
5000 1/4" x 6"	\$0.40
5088 3/8" x 6"	.40

G-C BONE FIBRE ALIGNMENT SCREWDRIVER



Indispensable for all sets. Tough black bone fibre resists chipping. Can be reground. 1/4" blade on each end.

No.	List
5004 7"	\$0.40

G-C POLYSTYRENE ALIGNMENT SCREWDRIVER



For U.H.F. sets. Best low loss material. 1/4" blades on both ends. Blades easily reground.

No.	List
5008 7"	\$0.40

G-C DUPLEX NO-METAL ALIGNMENT SCREWDRIVER



In polystyrene or hard bone fibre. 1/4" blade on one end and 1/8" blade on other. 6" long. Tips easily reground.

No.	List
5009 Bone Fibre	\$0.40
5010 Polystyrene	.40

G-C DUPLEX ALIGNMENT SCREWDRIVER



Made of Genflex low-loss material. Especially strong. 1/4" driver on end and 3/8" on other. Metal tips for extra strength.

No.	List
5001	\$0.75

G-C RCA TYPE ALIGNING SCREWDRIVER



Especially for push button adjustments. Narrow screwdriver on one end and recessed screw nib on other. 1/4" Bone Fibre.

No.	List
5003	\$0.75

G-C PHILCO, RCA TYPE TRIMMER TOOL



For neutralizing air trimmers. 3/8" bone fibre. Special clip-on end, metal tip on other.

No.	List
5086	\$0.60

G-C BALANCING TOOL



For adjustments in close quarters. Two 1/4" hex wrenches; one on side and other on end. Fibre screwdriver with metal tip.

No.	List
5084	\$0.60

G-C DUPLEX TUBE TAPPER



Handy soft rubber mallet on one end and insulated 1/4" bone fibre screwdriver on other.

No.	List
5081	\$0.65

G-C MULTI-PURPOSE TOOL



For neutralizing padding condensers and iron core tuners. One end metal screwdriver, other sleeve socket screwdriver. Best steel, fibre handle.

No.	List
5091	\$0.75

G-C NEUTRALIZING TOOL



U.S.A. type TL-138-B. Special short tool. Bone Fibre.

No.	List
5066	\$0.50

G-C U.S.A. TYPE TL-138-A ALIGNING TOOL



To Government specifications. Sturdy. For tuning and aligning. 6" long. Bone Fibre.

No.	List
5098	\$1.00

G-C CABLE EYELET TOOL



For eyelets and rivets on dial cables, part assemblies, etc. Includes clincher punch and base. Tempered steel.

No.	List
741	\$1.00

G-C DIAL CABLE TOOL



Makes it easy to replace dial cords and springs. A necessity in cramped quarters.

No.	List
5096 Dial Cable Tool	\$0.75

G-C FLEXIDRIVER



Flexible shaft for "hard to get places." Insulated guide for tip. Army-Navy approved. 7" overall length.

No.	List
5019	\$2.00

G-C ALL-PURPOSE ALIGNMENT TOOL KIT

Most popular kit. Seventeen tools designed into nine basic tools some of which telescope into each other. Roll type leatherette case. Includes one each G-C tools Nos. 5001, 5003, 5004, 5011, 5016, 5017, 5053, 5056, 5057.

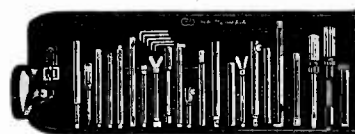


No.	List
5023 Kit	\$6.25

G-C PROFESSIONAL ALIGNMENT TOOL KITS

Complete kits. Be prepared to service every set with these DeLuxe Alignment Kits. These are the preferred kits for radio men. In a handy roll-type leatherette case or a steel partitioned box. Kits contain one each of the following G-C tools described on these pages: Nos. 5000, 5001, 5002, 5003, 5004, 5005, 5011, 5012, 5013, 5015, 5016, 5017, 5018, 5019, 5031, 5032, 5033, 5034, 5035, 5051, 5053, 5056, 5057, 5081, 5082, 5083, 5084, 5085, 5086, 5087.

No.	List
5024 Kit in Roll Type Case	\$19.95
5025 Kit in Steel Box	19.95



No. 5024



No. 5025

G-C ALIGNMENT TOOLS AND WRENCHES

G-C INSULATED ALIGNING WRENCHES



Popular sizes. Hexed full-length bone fibre tubing. Just cut off to renew when worn.

No.	Length	Flat Diam.	Across	List
5051	5"	1 1/8"	7/16"	\$0.30
5052	5"	1 1/4"	3/8"	.25
5053	6"	1 1/2"	3/8"	.35
5054	8"	1 3/4"	3/8"	.40
5055	12"	1 3/4"	3/8"	.50

G-C PHILCO TYPE ALIGNMENT WRENCH



5/16" Hex Wrench on one end, metal hook for air trimmers on other. For RCA, Victor, Philco, etc. Bone fibre handle.

No.	List
5085	\$1.50

G-C DUPLEX WRENCH ALIGNMENT TOOL



Long life 1/4" hex wrench on one end and 1/8" hex wrench on other. Brass nickel-plated. Tapered bone fibre handle.

No.	List
5017	\$1.25

G-C DUPLEX ALLIGATOR WRENCH



RCA, Philco type. Metal alligator wrench on one end, alignment screwdriver with metal tip on other. 3/8" shaft. Insulated bone fibre.

No.	List
5011	\$0.50

G-C DOUBLE ALLIGATOR ALIGNING WRENCH



5/8" bone fibre handle with alligator wrench on one end and 1/4" brass hex wrench on other. Popular.

No.	List
5012	\$0.50

G-C INSPECTION MIRROR



New! For close inspection of parts in hard-to-get-at quarters, under chassis, etc. Long handle.

No.	List
5090	\$0.50

G-C WRENCH AND SCREWDRIVER ALIGNING TOOL



Popular 1/4" hex wrench on one end, 3/32" metal nib screwdriver on other. Bone fibre insulated handle.

No.	List
5013	\$0.85

G-C BAKELITE 5/16" WRENCH



Molded 5/16" hex wrench with reinforced brass collar. Metal screwdriver tip included.

No.	List
5083	\$0.50

G-C "STRATO" TUNING WAND



Chrome brass cylinder, iron core on ends of low-loss genflex rod. Inserting core in coil increases inductance, brass end decreases inductance. Checks tuning fast.

No.	List
5002	\$1.00

G-C TEST PROBE



Checks loose connections and parts. Metal hook on one end and insulated fibre tip on other.

No.	List
5082	\$0.60

G-C SCREWDRIVER



Insulated. One size for knobs, other for small parts. Best tempered steel.

No.	List
5056	1/8" x 3" \$0.25
5057	3/16" x 3" .75

G-C BAKELITE ALIGNMENT TOOL



U. S. Army type TL-207. Combination 5/16" Hex Wrench with telescoping screwdriver. Moulded bakelite, reinforced with metal.

No.	List
5027	\$2.25

G-C ARMY-NAVY TYPE NEUTRALIZING TOOL



Approved. Double end bakelite tool 5/8" diam. x 6" long.

No.	List
5099	\$1.25

G-C ZENITH PUSH-BUTTON WRENCH



5/8" hex on one end, slotted on other. Tempered steel, nickel-plated. Necessity for Zenith sets.

No.	List
5094	\$0.17

G-C CONTACT ADJUSTER



Handy for contacts on switches, jacks, condenser plates, relays, pinball-coin machines, radios. Tempered steel, nickel-plated.

No.	List
5095	\$0.17

G-C TELEVISION AND F-M WRENCH AND SCREWDRIVER



Adjusts smallest trimmer condensers. Small 3/32" screwdriver on one end, reinforced 5/16" hex wrench on other. 6" long. Bone fibre.

No.	List
5067	\$1.00

G-C TELEVISION AND F-M TOOLS

G-C TELEVISION ALIGNING WRENCH



New Television Tool! 1/2" socket wrench. 5/8" steel shaft with insulated handle. Approx. 6" overall length.

No.	List
5080	\$0.75

G-C T-V AND F-M ALIGNING TOOL



Socket-type screwdriver of tempered steel. Bone fibre handle.

No.	List
5018	\$0.75

G-C BENDIX-RCA TELEVISION SCREWDRIVER



For push buttons, television and F.M. Small diameter. Metal tip on one end and recessed tip on other. Insulated bone fibre.

No.	List
5087	\$0.75

G-C K-TRAN ALIGNING TOOL



Special bone fibre screwdriver one end, reinforced 5/16" hex wrench driver on other. Especially for F-M and television sets.

No.	List
5097	\$0.75

G-C DELUXE ALIGNMENT KIT

Fourteen most popular tools including Flexible Shaft Screwdriver and Tuning Wand, designed into seven basic tools, some of which telescope together. Contains one each Nos. 5002, 5004, 5011, 5014, 5016, 5017, 5019. In leatherette roll-type case.



No.	Kit	List
5026	Kit	\$7.50

G-C NX ALIGNING KIT

Popular approved Army - Navy Kit for all sets. Fourteen tool applications, some telescoping together, to form five basic tools. Contains Nos. 5004, 5011, 5017, 5016, 5010, and leatherette case.



No.	Kit	List
5020	Kit	\$6.50

G-C VEST POCKET ALIGNING KIT

Easy - to - carry all-purpose kit of popular tools. Four tools with telescoping parts making them equivalent to six. Contains Nos. 5012, 5000, 5003, 5004 and leatherette case.



No.	Kit	List
5022	Kit	\$3.00

G-C TE-45A NEUTRALIZING KIT

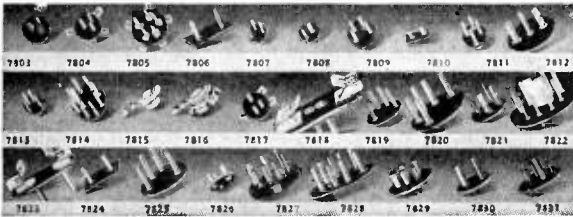
Approved by U. S. Signal Corps. All popular balancing tools to make an all-purpose kit. Contains two each Nos. 5051, 5052, and one each Nos. 5019, 5003, 5000, and 5" screwdriver in roll-type leatherette case.



No.	Kit	List
5021	Kit	\$6.75

GENERAL CEMENT BATTERY PLUGS—KITS—STAPLES

G-C RADIO BATTERY PLUGS



Part No.	Voltage	For Burgess No.	For Eveready No.	For R.C.A. No.	For Philco No.	For Ray-O-Vac No.	List Price
7803	45 "B" Large	A30, B30, M30, Z30	482, 738, 762	VS012, VS013, VS014, VS015	P210, P305	430P, P7830, P5303	\$0.11
7804	Same as No. 7826, except has			Fahnestock	Clips.		.30
7805	Same as No. 7829, except has			Fahnestock	Clips.		.45
7806	4 1/2 "A"	G-3	746	VS002	P100	P-83A	.11
7807	45 "B" Small	A30, B30, M30, Z30	482, 738, 762	VS012, VS013, VS014, VS015	P210, P305	430P, P7830, P5303	.11
7808	1 1/2 "A"	4F, 4FL, 6F, 8F, 8FL, TE	741, 742, 743, 1052P	VS004, VS005, VS007, VS008	P94, P96, P8F1	P94A, P94L, PX, P96A, P98A, P98L	.11
7809	1 1/2 "A"-90 "B"	17GD60, 5DA60, 6TA60	758	VS022, VS043	P60D11L	AB82, 10793	.13
7810	6 "A"	2F4, 2F4L, F4PI, T5	A509, 718, 744, 747	VS009, VS010, VS011	P4F4R	P691A, P696L, P698A, P698L	.11
7811	6 "A"-90 "B"	2F1B60, etc.					.15
7812	7 1/2 "A"	G-5	687	VS003		P85A	.13
7813	1 1/2 "A"-63 "B"	6FA60, 4GA41, 4GA42		VS037	P60A-4L, P11A4G	AB419	.13
7814	7 1/2 "A"-90 "B"	G5A42, F5A60		VS038	P87, P841	AB794	.25
7815	67 1/2 "B"	XX30, XX45	455, 467	VS016, VS056		P4367	.09
7816	67 1/2 "B"	XX30, XX45	455, 467	VS016, VS056		P4367	.11
7817	Same as No. 7803, except has			Fahnestock	Clips.		.30
7818	Same as No. 7808, except has			Fahnestock	Clips.		.25
7819	6 "A"-75 "B"	G4B50, etc.					.15
7820	6 "A"-90 "B"	F4B60		VS048			.20
7821	6 "A"-90 "B"	F4B60		VS044	P60A8F4	AB694	.13
7822	9 "A"-90 "B"	2FA60, 4FA60					.25
7823	Same as No. 7824, except has			Fahnestock	Clips.		.25
7824	3 "A"-90 "B"	20P2	X125	VS025	P8024	P9403	.11
7825	Batt. Packs	Usalite	AB5671		P60A110		.18
7826	4 1/2 "C"	2370PI	X771	VS030	P3D, P37-08, 3738, etc.	P231W	.15
7827	135 "B"-9 "C"				34, 34A, 39, 39A		.30
7829	22 1/2 "C"	5156PI	768	VS031	P15B5	P5151	.22
7830	2 prong large with one thin and one thick.					Popular on Portables.	.15
7831	9 "A"-90 "B"	F6A60, G6M60	753, 754	VS018, VS019	P841A	AB878, AB994	.25



G-C RADIO BATTERY PLUGS

For all plug-in radio batteries. It pays to have an assortment to be ready for all repairs. Plugs as listed above. Complete with box and handy reference chart.

No. 7801	100 Ass'd. Plugs, Metal Box	List \$12.00
No. 7800	50 Ass'd. Plugs, Cardboard Box	List 6.50

G-C INSULATED BELL STAPLES

Saddle-type insulated staples for holding wires in place and out of the way.

No.	Fig.	Size	List
1751	Fig. 1, 3/8" x 1/2"		\$0.25
1752	Box 50, No. 1		.40
1753	Fig. 2, 3/8" x 5/8"		.25
1754	Box 50, No. 2		.40
1755	Fig. 3, 3/8" x 3/4"		.25
1756	Box 50, No. 3		.40
1757	Fig. 5, 1/4" x 5/8"		.25

No. 1	No. 2	No. 3	No. 5	No. 6	No. 7	No. 10
1758	Box 100, No. 5					\$0.40
1759	Fig. 6, 1/4" x 3/4"					.40
1760	Fig. 7, 1/4" x 7/8"					.40
1761	Box 100, No. 10					.70



G-C DIAL AND KNOB REPAIR KIT

Handy assortment of knob springs, set screws, dial springs, idler pulleys and drive rubbers in box.

No. 1015	70-pc. Kit,	List \$2.25
No. 1016	150-pc. Kit,	List 4.50



G-C PLASTIC JAR HARDWARE ASSORTMENT

Approximately 1000 assorted screws, nuts, washers, springs, clamps, eyelets, grommets, terminals, etc. No cast-offs — only regular hardware. Plastic jar with screw cap.

No. 6064	1000 Ass'd.	List \$1.65
No. 6056-E	Env. 100 Ass'd.	List .40

G-C HELL BOX

A grand assortment of useful hardware: screws, nuts, lugs, clips, washers, clamps, etc. Thousands of items needed every day. Metal hinged box.

No. 6500	List \$3.25
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G-C STEEL HARDWARE RACK

Steel racks, hold No. 4002 2 oz. glass bottles or plastic jars. Attractively finished. Welded construction. Heavy steel. Two sizes.

No.	Size	List
4010	20 Jars	\$2.00
4012	40 Jars	3.75



G-C STEEL STOCK BOXES

Slide-in drawer type cabinet box for parts. Made so can be stacked. Attractive finish, steel welded construction with handle. Size 13 1/2" long, 6" wide, 4" high.

No. 4001	List \$3.25
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G-C SERVICEMEN'S HARDWARE ASSORTMENT

Inexpensive complete hardware assortments. Similar to larger hardware lab Ass't No. 1 like No. 6601; and No. 2 like No. 6602 (Page U-139). Items individually packaged.

No. 6303-D	Ass't. List \$1 \$8.00
No. 6603-2-D	Ass't. List #2 8.00



G-C VENTILATING PLUGS

To ventilate chassis, amplifier, racks, transmitters, etc. Snaps into 1-inch hole. Plated.

No. 1709-E	Env. 2	List \$0.40
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G-C PLASTIC HARDWARE JARS

4 oz. size wide mouthed plastic jar with screw type cap. Ideal for hardware.

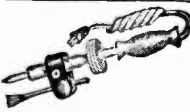
No. 4000	List \$0.35
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G-C GLASS HARDWARE JARS

Wide mouthed jars, for storing small radio parts, screws, nuts, etc. Includes cap.

No. 4002	2-oz.	List \$0.15
No. 4004	4-oz.	List .22
No. 4008	8-oz.	List .30
No. 4009	16-oz.	List .40



G-C SOLDERING COOLANT AND FLUX ATTACHMENT

Here's a handy attachment that you can put on any soldering iron and speed up production and repairs. No waiting for solder to cool. Dip the brush in a coolant of water or alcohol and cool the solder instantly. Also can be used for soldering flux or paste.

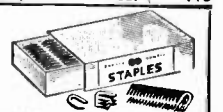
No. 720	List \$0.25
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G-C SOLDERING WIRE COUPLERS

New patented connectors to be used when re-connecting cut wires and leads, when making tests, etc. Saves time! Simply slip between wires and solder. Assorted lengths.

No. 7500-E	List \$0.40
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G-C STAPLE DRIVER STAPLES

Hardened steel staples in cartridge form to fit staple drivers. Lacquer coated.

No. 430	List \$0.60
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F-V LINE TACKS



For holding 300-ohm lead wire to base boards, etc.

No. 8020-E	Env. 30	List \$0.40
No. 8020-G	Box 144	List 1.25

G-C STANDARD SPEEDEX WIRE STRIPPER

Fast operating precision made hand tool for stripping insulation from all types of wire. Very easy to operate. Strips 750 to 1000 wires per hour. Used by girls or men. All blades are interchangeable and easily replaced



Standard Models					
No.	Wire	List	No.	Wire	List
733	12 to 20	\$6.00	733-G	For # 18 P.O. S.J. or parallel wire	\$6.00
733-A	14 to 30	6.00			
733-B	10 to 18	6.00			
733-C	8 to 10	6.00	733-H	For the new 300-ohm television and FM transmission line	6.00
733-D	16, 18, 20, 22	6.00			
733-E	14, 16, 18	6.00			
733-F	10, 12, 14	6.00			

G-C AUTOMATIC SPEEDEX WIRE STRIPPER

Similar to standard models except has the "stay open feature" with the new Speedex "Trig-O-Matic Action." Automatically holds jaws open until wire is removed, and prevents bending or crushing of fine wires. Has on-off mechanism so tool can be used as standard model if desired.



Automatic Models					
No.	Wire	List	No.	Wire	List
744	12 to 20	\$8.00	744-G	For # 18 P.O. S.J. or parallel wire	\$8.00
744-A	14 to 30	8.00			
744-B	10 to 18	8.00			
744-C	8 to 10	8.00	744-H	For the new 300-ohm television and FM transmission line	8.00
744-D	16, 18, 20, 22	8.00			
744-E	14, 16, 18	8.00			
744-F	10, 12, 14	8.00			

G-C SPEEDEX WIRE STRIPPER KIT

Wire stripper complete with seven different size blades put up in a specially designed permanent steel box. For wires No. 8 to No. 30. Helps keep all the parts together in one kit. Available with automatic or standard model strippers.



No.	List	No.	List
733-K	Standard Stripper Kit, with blades	733-K	\$15.00
744-K	DeLuxe Automatic Stripper Kit, with blades	744-K	17.00

G-C SHUR-GRIP PLIER WRENCH

Here's a universal handy all-purpose plier wrench. This is something new and different from the average Grip Wrench. It works with a short pawl against the cam handle, giving it extra power. IT UNLOCKS WITHOUT SNAPPING THE FINGERS. Jaws are forged from alloy steel and specially heat treated for toughness and durability. It is a high quality tool.



No.	List	Dealer's Net
767	7" Shur-Grip	\$3.50 \$1.80*
770	10" Shur-Grip	3.95 1.95*



G-C SPEEDEX REPLACEMENT BLADES

Fit standard and automatic models. Blades interchangeable.

No.	List
3W	12 to 20 \$1.50
3W-A	14 to 30 1.50
3W-B	10 to 18 1.50
3W-C	8 to 10 1.50
3W-D	16, 18, 20, 22 1.50
3W-E	14, 16, 18 1.50
3W-F	10, 12, 14 1.50
3W-G	Blades for parallel No. 18 P.O.S.J. or similar 1.50
3W-H	Blades for the new 300-ohm television and FM twin transmission line 1.50



G-C SPEEDEX STRIPPER BENCH HOLDER

Bench type holder for any model Speedex Wire Stripper. Converts a hand operated tool to a bench type and increases production up to 2,500 wire strippings per hour. Steel.

No.	List
755	Bench Holder \$3.75



G-C SPEEDEX TRIG-O-MATIC PLATE (Patent Pend.)

Converts any standard model Speedex Stripper to an Automatic Model. Easy to install.

No.	List
756	Trig-O-Matic Plate, only \$2.00



G-C SOLDER IRON TIPS

Best grade hard-drawn copper, bright plated to resist corrosion. Heats fast and holds heat.

No.	List
8124	1/4" x 3" Tip ... \$0.45
8124-D	Display 12 No. 8124 5.40
8125	3/8" x 4 1/2" Tip .55
8125-D	Display 12 No. 8125 6.60
8126	3/8" x 4 1/2" Tip .60
8126-D	Display 12 No. 8126 7.20
8127	1/2" x 4" Tip .75
8127-D	Display 12 No. 8127 9.00



G-C INSPECTION LITE

Portable type, lights up those "hard-to-see" spots. Operates on 110-120 volts AC or DC. Cord approx. 6 ft. long. Molded handle and non-inflammable clear plastic shield over bulb.

No.	List
705	Inspection Light \$1.95
704	Replacement Bulb for No. 705 .17
704-S	Clear Plastic Shield .17



G-C LO-VOLT TESTER

For 0-15 volts AC or DC. For all low voltage testing on cars, generators, batteries, bell circuits, etc. Shielded bulb easily replaced. Molded plastic handle and insulators.

No.	List
5125	Lo-Volt Tester \$1.25
5126	Bulb for No. 5125 .25
5127	Shield for No. 5125 .15



G-C THERMO-VOLT CIRCUIT TESTER

Tests from 15 to 60 volts AC or DC on thermostats, aircraft, trains, marine lighting, 28-32 volt light plants, etc. Molded plastic case and insulated tips.

No.	List
5150	\$1.75



GC CARBON BRUSH KIT

Complete assortment replacement brushes, for vacuum cleaners, washing machines, ironers, pumps, fans, etc. Contains 92 brushes and 18 springs.

No.	List
7000	\$8.25

G-C CHASS-EZ
(Pat. Pending)

New wonder tool makes the Serviceman's job easier. Its simplicity is its chief merit. Chassis can be installed on "Chass-Ez" in five seconds. All one unit — no extra bolts or nuts to adjust. Heavy steel, riveted construction, nicely plated.



No.	List
5207	\$3.65
Dealer's Net Only 1.95	

G-C PHONO TURNTABLE STAND

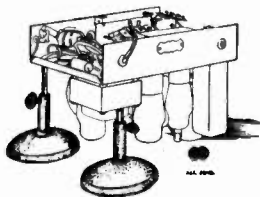
New improved model, adjustable and inexpensive. Adaptable to all turntables. Raises the turntable 15 inches above bench and can be pivoted on the swivel joints for easy examination or repairs. Sturdy steel construction. Plated.



No.	List
5205	\$7.30
Dealer's Net Only 4.38	

G-C RADIO JACKS

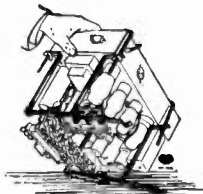
Permanent type adjustable jacks. All metal construction. Adjustable to fit any set or conditions. Easily and quickly adjusted. Two jacks supplied with three extension rods — one extra long. You need several sets in your shop.



No.	List
711	\$2.15
Dealer's Net Only 1.29	

G-C RADIO CHASSIS GUARDS

Inexpensive guards that protect the chassis and tubes when servicing. Set can be turned in any position. Easily applied and adjustable to all sets. Permanent plated metal construction.



No.	List
709	\$2.50
Dealer's Net Only 1.50	

G-C MINIATURE TUBE PIN STRAIGHTENER

Saves tubes! Straightens without damage the pins on the fragile miniature tubes such as 1S5, 6AK5, 9002, etc. Just insert tube between guide pillars into precision base die and tube prongs are straightened and properly spaced. All metal.



No.	List
5191 For 7-pin tubes	\$1.00
8105 For 9-pin tubes	1.00

G-C TUBE AND PARTS EXTRACTOR

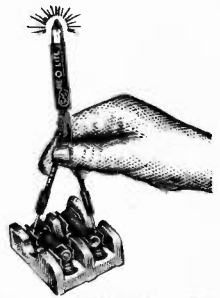
U. S. Signal Corps part No. TL 201. Handy prong tool for extracting tubes and picking up parts. Rubber cushions on prongs.



No.	List
5092 Tube Extractor	\$1.50

G-C NE-O-LITE

Simple, safe, electrical circuit tester. Uses neon glow lamp which varies in brightness according to voltages. Tests cords, appliances, automotive ignition circuit, fuses, radios, electric fences, etc. For 60-volts AC to 560 volts AC or DC. Molded plastic, handy vest pocket size. Buy a display and sell your customers.



No.	List
5100 Ne-O-Lite	\$0.50
5112-D Display 12 No. 5100	6.00

G-C NE-O-LITE WIRE



Wire same as used on Ne-O-Lite Testers, # 18 stranded, rubber covered with a red or black braid, varnished. For ignition wiring, motor wiring, etc. Red or Black — Specify color.

No.	List
5113 100 Ft.	\$3.75

G-C RESISTOR FOR NEON LAMP



Required resistor when using No. 717 neon lamp on voltages of 60 to 550 volts AC or DC. Connect in series.

No.	List
718	\$0.10

G-C NEON GLOW LAMPS



NE-T2 lamp as used in testers, appliances, as pilot light, etc.

No.	List
717	\$0.20

G-C AMO MINIATURE TUBE PULLER
(Pat. Pending)

Prevents burned fingers and broken tubes. Makes it easy to remove and install tubes such as 6AG5, 50B5, etc. Works on suction and vacuum principle. Operates just by pressing on the tube and to release, just press the release button. Tube protected by rubber sleeve. Gets where your fingers can't reach. Permanent metal.



No.	List
5093 For 7-pin tubes	\$1.65
8106 For 9-pin tubes	1.65

G-C FIBRELOID SPEAKER SHIMS

Shims made of tough and flexible fibreloid. Non-magnetic. 4 each of 5 sizes — twenty in all: Sizes, .005", .0075", .010", .0125", and .015". Color coded. Supplied in gold lettered leatherette snap case with instructions.



No.	List
702 Kit	\$0.65

G-C SWEDISH STEEL SPEAKER SHIMS

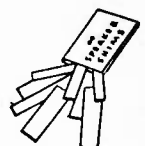
Makes it easier to center speaker voice coil. Permanent flexible Swedish steel. 4 shims each of 4 sizes coded for identification: .004", .006", .008" and .010" thick. Supplied in gold stamped leatherette partitioned snap case. Complete with instructions.



No.	List
701 Kit	\$0.70

NEW! G-C SPEAKER SHIM KIT

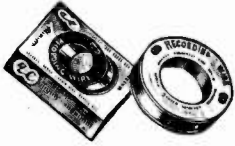
For every type of speaker adjustment. A generous supply of Fibreloid and bronze shim stock in the various widths and thicknesses needed for speakers. Non-magnetic material. Stock can be cut to exact requirements. A long-lasting assortment. Complete instructions.



No.	List
7720 Kit	\$2.00



G-C RECORDING WIRE



For all wire recorders. Includes plastic leads. Permanent recordings which can be replayed indefinitely. Finest quality reproduction on stainless steel wire. Standard RMA spool fits Webster, Air King, Sears Roebuck, etc.

No.	Leaders with Spools	Dealer's Net
5171	1-hr. Spool	\$3.25*
5172	½-hr. Spool	1.95*
5173	¼-hr. Spool	1.30*
5174	Leaders only, for Armour type recorders, per pair	.15*
5176	Empty Rewind Spool	.45*

G-C REPLACEMENT AUTO AERIALS

FORD ROOF AERIAL

Ford-Mercury Part No. 51A-18813-A1



Replacement aerial for all Ford and Mercury Roof Aerials of 1941-42-46-47-48 that operate from behind the dividing post of the windshield. Made of Admiralty brass tubing with stainless steel extension rod, triple chrome plated. Free sliding with positive contacts insure noise-free reception. Easy to install, fits without changes, replaces original aerial. Comes complete with knob and set screw.

No.	Ford Roof Aerial	List
7056	Ford Roof Aerial	\$2.25

BUICK REPLACEMENT ANTENNA

Buick Part No. 980,688

Standard Buick Roof Aerial Mast. The replacement mast for Buick Roof Aerials on models 1940 through 1949. Easy to replace — merely tightens into position with a set screw. Admiralty brass tubes with a stainless steel top rod. Chrome-plated. Each mast individually packed in a paper tube. Standard packing — 10 tubes to a carton.

No.	Buick Antenna Mast	List
7057	Buick Antenna Mast	\$2.75

G-C IGNITION SUPPRESSORS

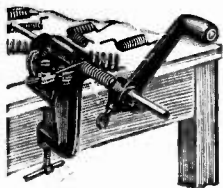


A rugged long-life assortment of bakelite auto radio ignition suppressors. Resistance, 10,000 ohms (V-8 types, 50,000 ohms). Resistors, moisture-proofed to eliminate variations due to weather changes. Impervious to heat, oil, moisture and mild acids. All metal parts brass. Good for more than 50,000 miles.

No.	List	No.	List
(a) 1501	Bracket Type \$0.30	(e) 1505	Screw Type, Universal \$0.30
(b) 1502	Ford V8 .30	(f) 1506	Snap-On Type .30
(c) 1503	Ford V8 Brush Type, 33, 34, 35 Cars .30	(g) 1507	Distributor Type .30
(d) 1504	Ford V8 Brush Type, 36 to 40 Cars .30	(h) 1508	Cable type for Splicing Cables .30

G-C SPRING MAKER

(Pat. Pending)



Makes all types of coil springs — compression or extension types — with any number of coils or degree of wire pitch. Designed for simple adjustment and operation with any size spring wire. Necessary wherever springs must be made fast or to special specifications. Liberal supply spring wire furnished with each winder. Fastens to any bench.

No.	List	Dealer's Net
5209	Spring Winder and Asst. Spring Wire \$16.58	\$9.95*
5210	Replacement Asst. Spring Wire 2.50	1.50*

RECORDING WIRE STATIC CHASER — TOOL KITS

G-C STATIC POWDER AND INJECTOR GUN



It really works, cuts down auto radio static. Inject powder in tubes, and eliminate wheel tire static. Easy to apply. Powder also cuts down tire trouble by eliminating those pin-point tube leaks caused by tire static discharge. Powder blown into tube with G-C Injector Gun. Every car should be treated with G-C Static Chaser Powder.

No.	List
5604	Injector Gun, only \$1.50
5605	Packet Static Powder for 5 tires (1 car) 1.00
5606	Kit, one No. 5604 Injector, and one No. 5605 Powder 2.50

G-C DIAL POINTER KIT



A complete kit of 10 assorted dial pointers. Pointers come in a clear transparent plastic case which keeps the pointers in perfect condition.

No.	List
6810	\$2.95

G-C DIAL POINTERS

Popular replacement pointers.

No.	List
(a) 6801	8" Rotary Pointer for ¼" shaft, gold \$0.35
(b) 6802	5" 360° Rotary Pointer for ¼" shaft, gold and red .35
(c) 6803	2" Slide Pointer, red translucent .25
(d) 6804	2¼" Slide Pointer, white enamel .25

G-C VACUUM CLEANER BELTS



Dealers and servicemen earn extra money by selling belts. Display in your store for "over the counter sales." Best grade live rubber belts marked for identification. Popular belt assortments on displays.

No.	List
1010-D	Asst. 12 Belts, Most Popular \$2.80
7010-D	Asst. 12 Popular Flat Belts 2.70
7011-D	Asst. 12 Popular Round Belts 3.00

(Individual belts available — see your Distributor)

G-C HUB CAP STATIC SPRINGS



Eliminate wheel static noise developed by poor electrical contact between front axle and wheels. Springs have riveted metal points for firm, smooth contact. Plated.

No.	List
1058	Each \$0.12
1059	Box, 24 Springs 2.75



G-C TWEEZERS AND KIT

For the shop or laboratory to pick up and examine small parts, start screws and nuts, to get in hard-to-get spots, stringing dial cord, fastening springs, etc.

No.	List
7950	Tweezer Kit, beautiful leatherette case and one each tweezers described below \$3.25
7946*	6½" Self-closing tweezers. Opens when squeezed. Serrated, blunt points .80
7947*	6½" Heavy duty type with slide lock feature. Holds wires or parts tight like an extra finger. Serrated, blunt points 1.20
7948	4½" Precision Tweezer. Narrow pointed ends for delicate work. .55

*Standard Jobber's quantity: 12 tweezers on display card — Add suffix "P"



G-C TOOL HANDLE INSULATING TUBES

A new idea for insulating your handle tools. A supply of special insulating tubing in assorted sizes is included in kit to insulate all types of handles on pliers, cutters, screw driver blades, etc. You simply soak the tubing for a few minutes in G-C Service Solvent and the tubing will swell. Slip it over the handles and allow it to dry. It will shrink on drying and give it a professional appearance. (G-C Service Solvent is not included in kit.)

No.	List
8118-E	Env. Asstd. Tubing \$0.40
8118-D	Display of 20 Env. 8.00

GENERAL



CEMENT

WRENCH KITS—TOOL SETS—BUSHINGS



G-C SHAFT COUPLINGS, EXTENSIONS AND REDUCERS

BRASS FITTINGS			INSULATED FITTINGS		
No.		List	No.		List
6701	1/4" to 1/2" coupling	\$0.25	6721	1/4" to 1/2" coupling	\$0.25
6702	1/4" to 3/8" coupling	.30	6722	1/4" to 3/8" coupling	.30
6703	1/4" to 1/2" coupling	.25	6723	1/4" to 3/16" coupling	.25
6704	3/8" to 1/2" coupling	.30	6724	3/8" to 1/2" coupling	.30
6705	1/4" hole to 1/4" shaft extension	.30	6725	1/4" hole to 1/4" shaft extension	.30
6709	1/4" hole to 3/8" shaft extension and increaser	.30	6731	1/4" hole to 3/8" shaft extension and increaser	.30
6710	3/8" hole to 1/2" shaft extension and reducer	.30	6732	3/8" hole to 1/2" shaft extension and reducer	.30
6711	3/8" hole to 3/8" shaft extension	.30	6733	3/8" hole to 3/8" shaft extension	.30
6712	1/2" x 6" brass shaft	.20	6734	1/2" x 6" fibre shaft	.30
6713	1/2" x 12" brass shaft	.35	6735	1/2" x 12" fibre shaft	.55
6714	3/4" x 6" brass shaft	.35	6736	3/4" x 6" bakelite shaft	.60
6715	3/4" x 12" brass shaft	.60	6737	3/4" x 12" bakelite shaft	1.00
6716	1/4" hole x 1/4" round shaft x 4" long	.35	6738	3/8" x 6" fibre shaft	.45
			6739	3/8" x 12" fibre shaft	.80



G-C REDUCING BUSHINGS

For knobs and shafts. A split bushing that really works. Brass. Easy to use.

No.		List
6751-E	1/4" to 1/8" reduction, 8 in Env.	\$0.40
6751-G	144 No. 6751 (Gross)	6.50



G-C SHAFT EXTENSIONS

Popular 1/4" shaft extension with flat shaft for spring type push-on knobs.

No.		List
6755	1/4" x 4 1/2" Long Flat Shaft Extension	\$0.35
6716	1/4" x 4 1/2" Long Round Shaft Extension	.35



G-C BRASS AND INSULATED SPACERS AND BUSHINGS

Spacers and Bushings needed for insulating and spacing of parts. Needed on chassis, sub-panels, etc.

No.	Assortments	List
6617	Hardware Lab. Jar 12 Assorted Spacers and Bushings	\$0.65
6760-E	Env. 12 Asst. Ins. Spacers	.40
6762	15 Asst. Threaded Brass Bushings 6-32 thread, 1/4" to 3/4" lg.	1.25
6763	15 Asst. Threaded Brass Bushings 8-32 thread, 1/4" to 3/4" lg.	1.25
6775-E	Env. 12 1/4" x 1/4" Ins. Spacers	.40
6776-E	Env. 8 1/4" x 3/8" Ins. Spacers	.40
6779-E	Env. 6 3/8" x 1/4" Ins. Spacers	.40
6761-E	Env. 12 Asst. Metal Spacers	.40
6765-E	Env. 10 1/4" x 1/4" Metal Spacers	.40
6766-E	Env. 8 1/4" x 3/8" Metal Spacers	.40
6769-E	Env. 6 3/8" x 1/4" Metal Spacers	.40

BRASS				INSULATED			
No.	O.D.	Length	List	No.	O.D.	Length	List
6765	1/4"	1/4"	\$0.04	6775	1/4"	1/4"	\$0.04
6766	1/4"	3/8"	.05	6776	1/4"	3/8"	.05
6767	1/4"	1/2"	.05	6777	1/4"	1/2"	.05
6768	1/4"	3/4"	.06	6778	1/4"	3/4"	.06
6769	3/8"	1/4"	.05	6779	3/8"	1/4"	.05
6770	3/8"	1/2"	.06	6780	3/8"	1/2"	.06
6771	3/8"	3/4"	.07	6781	3/8"	3/4"	.07

THREADED BRASS BUSHINGS

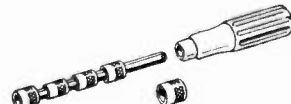
Thread				Thread					
No.	O.D.	Size	Length	List	No.	O.D.	Size	Length	List
6785	1/4"	6-32	1/4"	\$0.05	6790	1/4"	8-32	1/4"	\$0.05
6786	1/4"	6-32	3/8"	.07	6791	1/4"	8-32	3/8"	.07
6787	1/4"	6-32	1/2"	.08	6792	1/4"	8-32	1/2"	.08
6789	1/4"	6-32	3/4"	.09	6793	1/4"	8-32	3/4"	.09



HEX SOCKET



SPLINE SOCKET



G-C ALLEN-HEX WRENCHES AND KITS

Essential key wrenches for every repair man. Made of special alloy steel properly hardened. Used on knobs, dials, phono needles, motors, pulleys, etc.

HEX KEY WRENCHES		
No.		List
5030-E	Env. 4 Asstd. Wrenches	\$0.40
5029-E	Kit 6 Asstd. Wrenches in Leatherette Case	.75
5029-A-E	Env. 3 Hex Key Wrenches for No. 1/4" to 7/16" Set Screws	.40
5031	No. 4	.12
5032	No. 5	.12
5033	No. 8	.12
5034	No. 10	.12
5035	1/4"	.12
5036	5/16"	.13
5037	3/8"	.13
5038	7/16"	.16

G-C BRISTO-SPLINE WRENCHES AND KITS

Very popular "Bristo" or "Spline" type wrenches as used on phono needles, motors, pulleys, knobs, etc. Made of alloy steel, properly hardened.

No.		List
5069-E	Env. 4 Asstd. Wrenches	\$0.40
5070-E	Kit 6 Asstd. Wrenches in Leatherette Case	.75
5071	No. 4	.12
5071-A	No. 5	.12
5072	No. 6	.12
5073	No. 8	.12
5074	No. 10	.12
5075	1/4"	.12
5076	5/16"	.13
5077	3/8"	.13
5078	7/16"	.16

G-C 8-PIECE VEST POCKET SET

Handiest tool! Seven sockets, 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8" hex; 3/8" round knurled, 1/4" square, complete with "L" handle. Ball type socket assembly. Baked enamel box.

No.	List
712	\$1.60



G-C WIRE STRIPPER

5-in-1 tool. Wire stripper, scraper, cutter, screwdriver, and wire winder all in one. Tempered steel, plated.

No.	List
757	\$0.40

G-C 6-PIECE SLIP-ON WRENCH SET

Handle holds five sockets, sizes 1/4", 5/16", 3/8", 1/2", and 5/8". Easily assembled. Tempered steel, plated.

No.	List
715	\$2.00

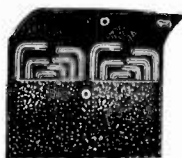


G-C FUSE PULLERS

For cartridge fuses. Heavy duty construction of high dielectric material.

No.		List
5525	Midget size, for fuses 1/4" x 1/2"	\$0.60
5526	Large size, for fuses 1/2" x 1 1/2"	1.25

G-C ALLEN-BRISTO WRENCH KIT



Complete wrench kit for hex and spline type screws used in electronic field. Double snap button case of durable leatherette. Fit No. 2 to 3/8" screws.

No.	List
5028	\$1.65
	Dealer's Net .99*



G-C ELECTRONIC HARDWARE LABORATORIES

Complete assortment of hardware. Rack contains several thousand essential electronic hardware items. Packed in clear jars with screw caps. Assortments as below: Free Steel Rack!

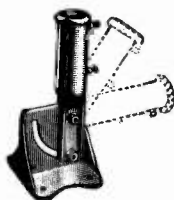
No.		List	Dealer's Net
6604	DeLuxe Hdwe. Laboratory, 40 jars, as in assortments No. 6601 and 6602, as below	\$26.00	\$15.60*
6601	No. 1, 20 jar asst. 1 each jars G-C No. 6605 through 6624 (see hardware pages U-140, U-141, U-142).	13.00	7.80*
6602	No. 2, 20 jar asst. 1 each jars G-C No. 6625 through 6644 (see hardware pages U-140, U-141, U-142).	13.00	7.80*



G-C UNIVERSAL MAST BRACKET

"The best on the market"

Permanent, easy to install and easy to adjust mast bracket that can be used on roofs, chimneys, walls, gables, and most anywhere. Masts 30 to 40 feet and up to 1 3/8" diameter can be assembled down and swung up into position. It's made of best grade of aircraft aluminum.



No.	Universal Bracket	List
8000		\$7.50

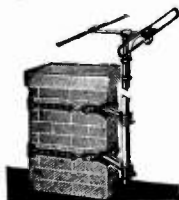
G-C CHIMNEY MOUNT

"Made of Cast Aircraft Aluminum"

Here's a better quality bracket for better installations. One man can install this on any chimney. Only one piece to handle with this "Cast Bracket." It will hold masts up to 1 3/8" diameter.

It is supplied complete with 24 ft. of galvanized strapping and all necessary hardware. It will not rust and mar the appearance of the home. Brackets can also be used for flat wall mounting, angle and gable mounting.

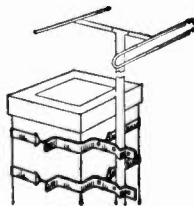
No.	List
8001	Pair of brackets, complete with strapping and all hardware. \$7.50
8002	Pair of brackets only with lag screws. No strapping. 5.00
8003	Straps and hardware only. 2.50



G-C CHIMNEY QUICK MOUNT

"Made of Steel—Heavily Plated—Won't Rust"

Here's a chimney bracket for the inexpensive installation that can be installed in a few minutes. Only one piece to handle with a minimum of loose parts. Heavy steel 1/8" thick heavily plated. Brackets will support masts

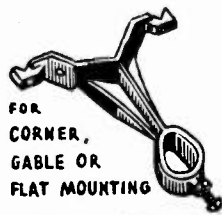


up to 1 3/8" diameter. All straps and hardware included.

No.	Chimney Quick Mount with Straps and Hardware.	List
8005		\$4.25

G-C CORNER AND FLAT MAST BRACKETS

Made of aircraft aluminum this bracket will support all sizes of masts 3/4" to 1 3/8" diameter. They are easy to install, only two screws or bolts necessary for each bracket. The brackets will make a neat, attractive installation that your customer will be proud of. Supplied complete with lag screws.



No.	Brackets, per pair	List
8002		\$5.00

NEW G-C POLYETHYLENE STAND-OFF INSULATORS

G-C REGULAR STAND-OFF

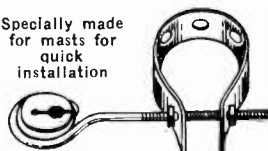


Universal type, can be used for flat 300-ohm twin lead and RG-59 cables. Heavy gauge stand-offs made with genuine polyethylene insulator and Bethanized steel screw hooks that are rust-proof and weather-proof.

No.	Length	Screw Type	List
8027	3 1/2"	Wood Screw	\$0.10
8028	5 1/2"	Wood Screw	.13
8029	7 1/2"	Wood Screw	.14
8030	12"	Wood Screw	.25
8031	3 1/2"	Machine Screw and Nuts	.12
8032	5 1/2"	Machine Screw and Nuts	.15

G-C MAST-STAND-OFF

Specially made for masts for quick installation



This can be used for flat 300-ohm twin lead and RG-590 cables. It is made with genuine polyethylene insulators and with a quick adjustment strap to fit any size mast. One size will fit masts 3/4" to 1 1/2".

No.	Length	List
8033	3 1/2"	\$0.15
8034	7 1/2"	.21

G-C SILICONE COMPOUND



A permanent waterproofing material for TV and FM lead connections. Eliminates electrical and signal leakage due to moisture film. Maintains stability of transmission lines, ignition systems, etc. Non-corrosive and chemically inert. Effective to 400° C. In tubes.

No.	List
8100 1-oz.	\$1.65
Dealer's Net,	.99

G-C CLEAR PICTURE 300-OHM POLYETHYLENE TWIN LINE

Very high grade approved genuine 300-ohm polyethylene twin line specially made for Television and FM work. It is made of brown polyethylene with 2 stranded wires. One tinned and one copper wire makes it easy to trace lines.

No.	Quantity	List
8040	50-ft. Coil	\$2.50
8042	100-ft. Coil	4.50
8043	1000-ft. Spool	42.00



NEW G-C TELEVISION SAF-T-RACK

"Makes it easy to work with"

Here's a very simple and sturdy rack to use in repairing the heavy television chassis. Simply set it on the rack and tilt it on the side. The sturdy hooks will hold the chassis on its side so you can work on the set. It will prevent damage to the tube and make it easy to work on it. Every shop needs several of these G-C Saf-T-Racks.

No.	List
8045	Saf-T-Rack \$3.95



NEW G-C TELEVISION ALIGNMENT KIT

A new kit with new tools specially designed for adjusting and aligning Television Receivers.

Kit contains Special Television Tools:

No.	List
1-5067	Trimmer Tool
1-5018	Tuner Wrench
1-5066	Short TV Tool
1-5080	Television Wrench
1-5087	RF Tuner Tool
1-5091	Trimmer Tool
1-5097	K-Tran Tool
1-5002	Tuning Wand
1-8195	Channel Tuning Tool
1-8196	Special Short Tool
1-	Leatherette Case
No. 8050	Television Alignment Kit \$8.75



G-C 300-OHM FIBRE HEAD WIRING NAILS

These nails are specially made for nailing down 300-ohm twin line on wood work, along base boards, rafters, etc. They make installation easy.

No.	List
8020-E Env., 30	\$0.40
8020-D Display, 20 Env.	8.00
8020-G 144	1.25
8020-M 1000	8.50



G-C CHIMNEY & MAST HOOK

Cadmium-plated steel hook, same as used for chimney straps and masts. Hook is welded for extra strength. Supplied with nut.

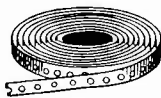
No.	List
8049-E Env., 2	\$0.40
8049-DX Display, 20 Env.	8.00
8049-G 144	20.00



G-C CHIMNEY STRAP

Galvanized annealed strap with 1/4" punched holes. This is the same as used on chimney brackets. This strap is extra strong and yet very flexible to handle.

No.	Coil	List
8051	12-ft.	\$0.75
8052	100-ft.	6.25



G-C FLOATING GUY RING

Galvanized guy washer for supporting masts. Will fit 3/4" mast and 1" masts. Allows mast to be turned.

No.	List
8055-E Env., 3	\$0.40
8055-G 144	15.00
8058	4 1/2" 1 .25



G-C TURNBUCKLES

Extra strong cadmium-plated turnbuckles for guy wires and cables make it easy to install tall masts and towers.

Length	No.	Clsd.	Qun.	List
	8056-E	3"	2	\$0.40
	8057-E	3 1/2"	2	.40
	8058	3 3/4"	1	.25



G-C MAST STRAPS

Made of galvanized steel these straps are used for fastening masts, poles to walls, roofs, chimneys, etc.

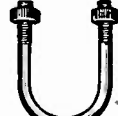
No.	List
8130	Each \$0.06
8130-G Box, 144	8.00



G-C U BOLT

For mounting and extending antenna poles and masts. Ideal for strapping 2 masts together or for fastening masts to buildings, plates, etc. Made of rust-proof Bethanized steel. Supplied with nuts.

No.	List
8123	\$0.30



GENERAL



CEMENT

TELEVISION ACCESSORIES



G-C 1/4-20 BOLTS

Round head, steel, cadmium-plated.

No.	Length	List
7144-G	1/2"	\$2.65
8061-G	3/4"	3.25
8062-G	1"	3.70
7145-G	1 1/4"	4.00
7146-G	2 1/2"	6.90

1000 to Box

No.	Length	List
7144-M	1/2"	15.95
8061-M	3/4"	19.50
8062-M	1"	22.20
7145-M	1 1/4"	24.20
7146-M	2 1/2"	41.25

G-C 1/4-20 NUTS

Steel — cadmium-plated.

No. Square Nuts List

8063-E Env., 25	\$0.40
8063-D Display, 20 Envs.	8.00
8063-G Bx., 144	2.15

Hexagon Nuts

7235-E Env., 25	\$0.40
7235-D Display, 20 Envs.	8.00
7235-G Bx., 144	2.35

G-C 1/4" LAG SCREWS

Steel, cadmium-plated lag screws specially made for Television Antenna, installations and brackets.

No. 1 3/4" Length List

8064-E Env., 4	\$0.40
8064-D Display, 20 Envs.	8.00
8064-G Bx., 144	13.50

2" Length

8065-E Env., 4	.40
8065-D Display, 20 Envs.	8.00
8065-G Bx., 144	13.50

G-C WOOD SCREWS

Round head steel, cadmium-plated screws, for Television work.

No. # 8x1 1/4" Lg. List

8071-E Env., 15	\$0.40
8071-G Bx., 144	3.05

10x1 1/2" Long

8073-E Env., 12	.40
8073-G Bx., 144	4.05

12x1 1/2" Long

8075-E Env., 10	.40
8075-G Bx., 144	4.80

14x1 3/4" Long

8076-E Env., 8	.40
8076-G Bx., 144	6.80

G-C SCREWEYES

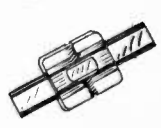
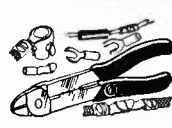
Steel, cadmium-plated screw eyes for Television Antenna installations; for fastening guy wires, etc.

No.	List
8078-E Envlp.	\$0.40
8078-D Display, 20 Envs.	8.00
8078-G Bx., 144	4.90

G-C GUY WIRE CLAMPS

The neatest, quickest way for fastening ends of guy wire cables on towers and masts. Easily adjusted with a screw driver. Galvanized steel.

No.	Wire Size	List
8081	1/8"	\$0.55
8082	3/8"	.55



G-C DRIV-IN ANCHORS

These Driv-Ins are easy to use and are very handy for fastening masts and brackets to masonry and concrete. They carry the load. Will fit 1/4" hole.

No.	List
8083-E Env., 2	\$0.40
8083-D Display, 20 Envs.	8.00
8083-G Bx., 144	20.00

G-C LEAD ANCHORS

Very popular lead anchors for wood screws; will fit 1/4" and 3/8" holes and will take #10, 12, and 14 wood screws.

No. 1" Long List

8084-E Env., 8	\$0.40
8084-D Display, 20 Envs.	8.00
8084-G Bx., 144	12.50

1 1/2" Long

8085-E Env., 2	.40
8085-D Display, 20 Envs.	8.00
8085-G Bx., 144	17.50

G-C LAG SCREW — EXPANSION SHIELD

Will fit 1/4" lag screws. Made of special alloy, 100% rust-proof (supplied without lag screws). Used for Television Masts and Brackets, and other work. The shield is 1" long x 1/2" O.D. 1/2" drill is required.

No.	List
8088 Env., 12	\$3.00
8088-G Bx., 144	32.00

G-C LADDER HOOKS

Every service man needs a hook ladder when installing Television antennas. Make your own hook ladder by fastening these hooks to your ladder. Sold in pairs, complete with bolts for easy installation.

No.	List
8215 Hooks, per pair	\$5.00

G-C SOLDERLESS CONNECTOR KIT

For Television Antenna, Radio and Electrical Work

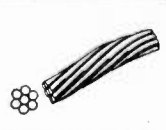
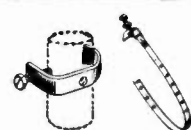
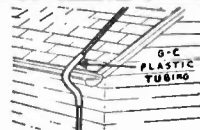
Complete kit of terminals and a handy tool to install solderless terminals on ends of wire. Handy for indoor and outdoor use, as it eliminates soldering.

No.	List
8175 Complete Kit	\$9.95
8176 Tool Only	6.60

G-C 300-OHM CONNECTOR

A handy connector to splice 300-ohm (twin line). Easy to use. Retains characteristics of wire and makes a secure connection.

No.	List
8095-E Env., 2	\$0.40
8095-D Display, 20 Envs.	8.00



G-C CARBIDE-TIPPED MASONRY DRILL

Drill is carbide-tipped and has a spiral fluted body. It makes holes easily and accurately in the hardest masonry.

No.	Size	List
8096	1/4"	\$3.75
8097	3/8"	4.00
8098	1/2"	4.75
8099	3/4"	6.00

G-C 300-OHM LINE PROTECTIVE PLASTIC TUBING

Clear plastic tubing to fit over the 300-ohm twin line and protect the wire from grounding and rubbing on corners of buildings, eaves, etc. Used for lead in protection also.

No.	List
625 Box, 8 ft.	\$0.95

G-C GROUND CLAMPS

Popular C type clamp will fit pipes up to 1 3/8" diameter. Makes a secure ground.

No.	List
8120	\$0.25

Popular strap type ground will fit pipes 3/8" to 2".

No.	List
8121	\$0.10

G-C SPEEDEX STRIPPER for the 300-ohm Twin Cable

Makes stripping of the 300-ohm cable very simple and easy. Just squeeze the handles and the job is done.

No.	Model	List
733-H	Regular	\$6.00
744-H	Automat.	8.00

(For other size Speedex Strippers, see Page U-98)

G-C TELEVISION GUY WIRE

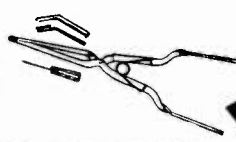
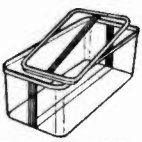
High grade galvanized steel twisted Television guy wire for tall masts and towers. Extra strength steel completely galvanized to prevent rust and corrosion. Available in 2 sizes that will take care of most requirements.

Four Strands No. 20 Wire (approx. 3/32" diam.)

No.	List
8107-C 100-ft. Coil	\$1.30
8107-M 1000-ft. Coil	12.25

Six Strands No. 20 Wire (approx. 1/8" diam.)

No.	List
8109-C 100-ft. Coil	\$1.75
8109-M 1000-ft. Coil	17.20



G-C POPULAR KNOB ASSORTMENTS

No.	List
35 of all Types Popular Knobs	
1120 35 Asstd.	\$1.67
25 of all Asstd. Set Screw Knobs Only	
1149 25 Asstd.	1.67
60 Auto Push-Button Knob Assortment	
8026 60 Asstd.	1.67

G-C AUTO RADIO SHEET METAL SCREWS

Special short sheet metal screws such as used on auto radio chassis covers, etc. No. 8 x 3/4" self-tapping hex head slotted. Steel, cadmium-plated. List

8102-E Env., 30	\$0.40
8102-D Display, 20 Envs.	8.00
8102-G Bx., 144	1.75

G-C PLASTIC STOCK BOXES AND TRAYS

Clear polystyrene boxes for stocking small parts, screws, nuts, bolts, condensers, resistors, etc. See what you have in clear plastic boxes. Boxes supplied with covers.

No.	Depth	List
8022	4x4x3"	\$0.55
8023	4x8x3"	1.10

G-C PHONO DRIVES: Admiral, Crescent

Made of best grade of pure rubber, genuine replacement drives.

No.	List
24-E Env., 1; Crescent, 3 3/4" O.D.	\$0.40
24-AE Env., 1; Admiral, Crescent, 3 1/4" O.D.	.40
24-BE Env., 1; Admiral Part No. 406A18, 3 3/4" O.D.	.40

G-C LONG NOSE PLIERS

Very handy pliers to reach into places and hold parts. Ideal for installing radio dial cords. Available in straight nose and curved nose styles.

No.	Style	List
5192	Straight	\$0.85
5193	Curved	.85

G-C MINI-MAX STRIP

Used for connecting 67 1/2-volt "B" batteries, such as Eveready 455, 466; Burgess XX80, XX45.

No.	List	
8115	Connectors	\$0.30



4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "B" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40¢**

GLASS JARS
For Hardware Racks
List Price **65¢**

BOXES OF 144
(One Gross)
Specify "G" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
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4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "B" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40¢**

GLASS JARS
For Hardware Racks
List Price **65¢**

BOXES OF 144
(One Gross)
Specify "G" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
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G-C ROUND HEAD MACHINE SCREWS
STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Machine Screws	296-E	50					
Assorted Screws and Nuts	6038-E	50					
Assorted 2-56 Screws and Nuts	7129-E	50					
Assorted 4-36 and 6-32 Screws			6610	75			
Assorted 4-36 Screws	6001-E	45					
Assorted 6-32 Screws	6002-E	45					
Assorted 8-32 and 10-32 Screws			6611	60			
Assorted 8-32 Screws	6003-E	40					
Assorted 10-32 Screws	6004-E	30					
Machine Screws, 2-56 x 1/4"				7130-G		7130-M	
Machine Screws, 2-56 x 1/2"				7131-G		7131-M	
Machine Screws, 2-56 x 3/4"				7132-G		7132-M	
Machine Screws, 3-48 x 3/8"	7124-E	60		7124-G		7124-M	
Machine Screws, 4-36 x 3/8"	6005-E	50	6005	100	6005-G	6005-M	
Machine Screws, 4-36 x 1/2"	6006-E	50	6006	100	6006-G	6006-M	
Machine Screws, 4-36 x 3/4"	6007-E	40	6007	80	6007-G	6007-M	
Machine Screws, 4-40 x 1/2"	6005-AE	60	6005-A	100	6005-AG	6005-AM	
Machine Screws, 4-40 x 3/4"	6005-BE	50	6005-B	100	6005-BG	6005-BM	
Machine Screws, 4-40 x 1/2"	6005-CE	40	6005-C	80	6005-CG	6005-CM	
Machine Screws, 6-32 x 1/4"	6008-E	50	6008	90	6008-G	6008-M	
Machine Screws, 6-32 x 1/2"	6009-E	50	6009	85	6009-G	6009-M	
Machine Screws, 6-32 x 3/4"	6010-E	45	6010	75	6010-G	6010-M	
Machine Screws, 6-32 x 1 1/4"	6011-E	35	6011	50	6011-G	6011-M	
Machine Screws, 8-32 x 1/4"	6013-E	45		7141-G		7141-M	
Machine Screws, 8-32 x 3/8"	6014-E	40	6014	70	6014-G	6014-M	
Machine Screws, 8-32 x 1/2"	6015-E	35	6015	65	6015-G	6015-M	
Machine Screws, 8-32 x 3/4"	6016-E	30	6016	60	6016-G	6016-M	
Machine Screws, 8-32 x 1"	6017-E	25	6017	45	6017-G	6017-M	
Machine Screws, 8-32 x 1 1/4"			6020	60	7142-G	7142-M	
Machine Screws, 10-32 x 1/4"	6021-E	25	6021	50	6021-G	6021-M	
Machine Screws, 10-32 x 1/2"	6022-E	20	6022	35	6022-G	6022-M	
Machine Screws, 10-32 x 3/4"			7143-G		7143-M		
Machine Screws, 10-32 x 1"			7144-G		7144-M		
Machine Screws, 10-32 x 1 1/4"			7145-G		7145-M		
Machine Screws, 10-32 x 1 1/2"			7146-G		7146-M		

G-C BINDING HEAD MACHINE SCREWS
STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Binding Head Machine Screws	7151-E	50				7151-M	
Machine Screws, 6-32 x 3/16"				7152-G		7152-M	
Machine Screws, 6-32 x 1/4"	7152-E	50					
Machine Screws, 6-32 x 3/8"				7153-G		7153-M	
Machine Screws, 8-32 x 5/16"				7158-G		7158-M	

G-C OVAL HEAD RACK AND CABINET SCREWS
STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Rack Screws and Washers	6039-E	30	6628	50			
Machine Screws, 6-32 x 1/2"			6540-G		6540-M		
Machine Screws, 6-32 x 3/4"	6541-E	40	6541	50	6541-G	6541-M	
Machine Screws, 8-32 x 3/4"	6542-E	30	6542	45	6542-G	6542-M	
Machine Screws, 10-32 x 3/4"	6543-E	20	6543	45	6543-G	6543-M	

G-C THREADED STEEL RODS

Package	Part No.	Quantity	Part No.	Quantity
6-32 and 8-32 Rods	6665-E			

G-C ORNAMENTAL HEAD SCREWS
STEEL - STATUARY BRONZE PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Ornamental Head Screws	1094-E	15	6631	50			
Ornamental Head Screws, 6-32 x 3/8"	1097-E	20			1097-G	1097-M	
Ornamental Head Screws, 6-32 x 1"	1098-E	20			1098-G	1098-M	
Ornamental Head Screws, 8-32 x 1 1/4"	1099-E	15			1099-G	1099-M	

G-C WOOD SCREWS
ROUND HEAD - STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Wood Screws	6110-E	30	6633	45			
Wood Screws, No. 4 x 1/2"	6114-E	30	6114	45	6114-G	6114-M	
Wood Screws, No. 4 x 3/4"	6115-E	30	6115	40	6115-G	6115-M	
Wood Screws, No. 6 x 3/4"	6116-E	30	6116	40	6116-G	6116-M	
Wood Screws, No. 6 x 1"	6117-E	25	6117	35	6117-G	6117-M	
Wood Screws, No. 8 x 3/4"	6118-E	25	6118	35	6118-G	6118-M	

G-C SHEET METAL SCREWS
HEX HEAD - SLOTTED - SELF-TAPPING - NICKEL PLATED
POINTED TYPE "A"

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Sheet Metal Screws	297-E	25					
Assorted No. 4 and No. 6 Sheet Metal Screws	6608	50					
Assorted No. 8 and No. 10 Sheet Metal Screws	6609	45					
Sheet Metal Screws, No. 4 x 1/2"	6090-E	40	6090	50	6090-G	6090-M	
Sheet Metal Screws, No. 6 x 1/2"	6091-E	35	6091	50	6091-G	6091-M	
Sheet Metal Screws, No. 6 x 3/4"	6092-E	30	6092	50	6092-G	6092-M	
Sheet Metal Screws, No. 6 x 1"	6093-E	30	6093	50	6093-G	6093-M	
Sheet Metal Screws, No. 6 x 1 1/4"	6094-E	25	6094	50	6094-G	6094-M	
Sheet Metal Screws, No. 8 x 3/8"	6095-E	30	6095	50	6095-G	6095-M	
Sheet Metal Screws, No. 8 x 1/2"	6096-E	25	6096	45	6096-G	6096-M	
Sheet Metal Screws, No. 8 x 3/4"	6097-E	20	6097	40	6097-G	6097-M	
Sheet Metal Screws, No. 10 x 3/8"	6098-E	25	6098	40	6098-G	6098-M	
Sheet Metal Screws, No. 10 x 1/2"	6099-E	20	6099	40	6099-G	6099-M	
Sheet Metal Screws, No. 10 x 3/4"	6100-E	20	6100	35	6100-G	6100-M	

G-C ESCUTCHEON PLATE SCREWS
ROUND HEAD - SLOTTED - STATUARY BRONZE PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Escutcheon Screws	1090-E	30	6632	50			
Escutcheon Screws, No. 2 x 1/4"	1091-E	30			1091-G	1091-M	
Escutcheon Screws, No. 2 x 3/8"	1093-E	30			1093-G	1093-M	

G-C SPADE BOLTS OR MOUNTING SCREWS
STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Spade Bolts	6080-E	30					
Spade Bolts, No. 6 x 7/16"	725	6081-E	30	6081-G	6081-M		
Spade Bolts, No. 6 x 9/16"	728	6082-E	30	6082-G	6082-M		
Spade Bolts, No. 8 x 7/16"	2732	6083-E	30	6083-G	6083-M		
Spade Bolts, No. 8 x 9/16"	1-3/16"	6084-E	30	6084-G	6084-M		

CUP POINT
is standard.

G-C RADIO KNOB SET SCREWS
SLOTTED - HEADLESS - HARDENED STEEL

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
No. 1060 Kit 50 Assr Set Screws	1062-E	20	6605	30			
No. 1061 Kit 100 Assr Set Screws	1063-E	20					
Assorted Set Screws	6061-E	20					
Assorted Set Screws, 6-32	6062-E	20					
Assorted Set Screws, 8-32	6063-E	20					
Assorted Set Screws, 10-32	6064-E	20					
Set Screws, 6-32 x 1/8"	6071-E	20	6071	30	6071-G	6071-M	
Set Screws, 6-32 x 1/16"	6072-E	20	6072	30	6072-G	6072-M	

G-C RADIO KNOB SET SCREWS - Continued

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Set Screws, 6-32 x 1/4"	6073-E	20	6073	30	6073-G	6073-M	
Set Screws, 8-32 x 1/8"	6074-E	20	6074	30	6074-G	6074-M	
Set Screws, 8-32 x 3/16"	6075-E	20	6075	30	6075-G	6075-M	
Set Screws, 8-32 x 1/4"	6076-E	20	6076	30	6076-G	6076-M	
Set Screws, 8-32 x 1/2"	6077-E	20	6077	30	6077-G	6077-M	
Set Screws, 10-32 x 3/16"	6078-E	20	6078	30	6078-G	6078-M	
Set Screws, 10-32 x 1/4"	6079-E	20	6079	30	6079-G	6079-M	

G-C BRISTO SET SCREWS
HARDENED STEEL - SPLINE TYPE - HEADLESS
One Wrench Included in Each Envelope Package

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Lengths, 4-36	7175-E	4					
Assorted Lengths, 6-32	7180-E	4					
Assorted Lengths, 8-32	7185-E	4					
Bristo Set Screws, 4-36 x 1/8"				7176-G		7176-M	
Bristo Set Screws, 6-32 x 1/8"				7181-G		7181-M	
Bristo Set Screws, 6-32 x 3/16"				7182-G		7182-M	
Bristo Set Screws, 8-32 x 1/8"				7186-G		7186-M	
Bristo Set Screws, 8-32 x 3/16"				7187-G		7187-M	

G-C ALLEN HEX SET SCREWS
STEEL - HARDENED - HEADLESS
One Wrench Included in Each Envelope Package

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Lengths, 4-36	7190-E	4					
Assorted Lengths, 6-32	7195-E	4					
Assorted Lengths, 8-32	7200-E	4					
Hex Set Screws, 4-36 x 1/8"				7191-G		7191-M	
Hex Set Screws, 6-32 x 1/8"				7196-G		7196-M	
Hex Set Screws, 6-32 x 3/16"				7197-G		7197-M	
Hex Set Screws, 8-32 x 1/8"				7201-G		7201-M	
Hex Set Screws, 8-32 x 3/16"				7202-G		7202-M	

G-C HEXAGON NUTS
STEEL - NICKEL PLATED

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Hex Nuts	293-E	45					
Assorted 4-36 and 6-32 Nuts	6606	60					
Assorted 8-32 and 10-32 Nuts	6607	60					
Thread	Width	Thickness					
2-56	3/16"	1/16"	7225-E	40	7225-G	7225-M	
3-48	3/16"	1/16"	7226-E	40	7226-G	7226-M	
4-36	1/4"	3/32"	6041-E	50	6041-G	6041-M	
4-40	1/4"	3/32"	6041-AE	50	6041-A	6041-AM	
5-40	5/16"	7/64"	6045-B	75	6045-BG	6045-BM	
6-32	1/4"	3/32"	6046-E	45	6046-G	6046-M	
6-32	5/16"	7/64"	6042-E	45	6042-G	6042-M	
8-32	1/4"	3/32"	6043-E	40	6043-G	6043-M	
8-32	5/16"	1/8"			7233-G	7233-M	
10-32	3/8"	5/64"	6044-E	35	6044-G	6044-M	
1/4-20	7/16"	3/16"			7235-G	7235-M	
5/16-32	7/16"	3/32"			7236-G	7236-M	
3/8-32	9/16"	3/32"	6050-AE	20	6050-AG	6050-AM	
7/16-27	9/16"	1/8"			7238-G	7238-M	
15/32-32	9/16"	5/64"	6050-BE	15	6050-BG	6050-BM	

G-C BRASS HEXAGON NUTS

Part No.	Quantity in Env.	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Thread	Width	Thickness					
2-56	3/16"	1/16"	7241-E	45	7241-G	7241-M	
3-48	3/16"	1/16"	7242-E	45	7242-G	7242-M	
4-36							



4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "X" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40c**

GLASS JARS
For Hardware Stocks
List Price **65c**

BOXES OF 144
(One Gross)
Specify "Q" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

G-C METAL WASHERS

Part No.	Quantity in Box	List Price	Part No.	List Price			
Assorted Metal Washers	6150-E	100					
Assorted No. 4 and No. 6 Washers	6612	135					
Assorted No. 8 and No. 10 Washers	6613	100					
Screw Size	Hole Size	O.D.	Thickness				
No. 4	1/8"	9/32"	1/32"	6154-E 100	6154 150	6154-G	6154-M
No. 6	5/32"	3/8"	1/32"	6155-E 80	6155 125	6155-G	6155-M
No. 8	3/16"	7/16"	1/32"	6156-E 80	6156 100	6156-G	6156-M
No. 10	13/64"	3/8"	1/32"			7306-G	7306-M
No. 10	13/64"	7/16"	1/32"			7307-G	7307-M
No. 10	13/64"	1/2"	.049	6157-E 75	6157 100	6157-G	6157-M
No. 12	.228	7/16"	.021			7308-G	7308-M
No. 1/4"	9/32"	5/8"	1/16"	6158-E 75		6158-G	6158-M
No. 1/4"	17/64"	1/2"	1/16"			7311-G	7311-M
No. 5/16"	5/16"	11/16"	1/16"			7312-G	7312-M
No. 3/8"	3/8"	1 1/16"	1/16"			7313-G	7313-M

G-C LOCK WASHERS

Part No.	Quantity in Box	List Price	Part No.	List Price
Assorted Lock Washers, All Types	1717-E	65	6614	90
Assorted Internal Lock Washers	7320-E	60		
Screw Size	O.D.			
Internal Lock Washers, No. 2	7322-E	45	7322-G	7322-M
No. 3			7323-G	7323-M
No. 4			7324-G	7324-M
No. 6	9/32"	7326-E 60	7326-G	7326-M
No. 8	21/64"	7328-E 60	7328-G	7328-M
No. 10	3/8"	7330-E 60	7330-G	7330-M
No. 1/4"	9/16"		7332-G	7332-M
No. 5/16"	19/32"		7333-G	7333-M
No. 3/8"	11/16"	6508 50	7334-G	7334-M
No. 3/8"	9/16"		7335-G	7335-M
No. 15/32"	19/32"		7338-G	7338-M

EXTERNAL LOCK WASHERS

Assorted External Lock Washers	7350-E	60		
External Lock Washers, No. 4			7354-G	7354-M
External Lock Washers, No. 6	7356-E 60		7356-G	7356-M
External Lock Washers, No. 8	7358-E 60		7358-G	7358-M
External Lock Washers, No. 10			7360-G	7360-M
External Lock Washers, No. 1/4"			7361-G	7361-M
External Lock Washers, No. 3/8"			7363-G	7363-M

SPLIT TYPE LOCK WASHERS

Assorted Split Type Lock Washers	6502-E	60				
Screw Size	O.D.	Thickness				
No. 4	3/16"	1/32"	6503-E 65	6503 100	6503-G	6503-M
No. 6	15/64"	1/32"	6504-E 65	6504 100	6504-G	6504-M
No. 8	15/64"	.025	6505-E 55	6505 90	6505-G	6505-M
No. 10	5/16"	.050	6506-E 50	6506 90	6506-G	6506-M
No. 1/4"	7/16"	5/64"	6507-E 50	6507 80	6507-G	6507-M

G-C SPRING FRICTION WASHERS

Assorted Spring Friction Washers	6190-E	25		
A	B	Thickness of Metal		
9/64"	5/16"	.012	7385-G	7385-M
3/16"	3/8"	.008	7386-G	7386-M
3/16"	7/16"	.008	7387-G	7387-M
1/4"	9/16"	.012	7389-G	7389-M

G-C CUP FINISHING WASHERS

Assorted Screws and Washers	6039-E	30	6628	45
Assorted Cup Washers	6159-E	40		
Cup Washers, No. 6	6161-E 40	6161 65	6161-G	6161-M
Cup Washers, No. 8	6162-E 40	6162 65	6162-G	6162-M
Cup Washers, No. 10	6163-E 40	6163 65	6163-G	6163-M

G-C C-WASHERS and RETAINING RINGS

Assorted C-Washers	6180-E	50	6636	85			
Shaft Diam.	A	B	D				
3/16"	.171	.125	.031	6182-E 40	6182 65	6182-G	6182-M
1/4"	.234	.156	.031	6183-E 40	6183 65	6183-G	6183-M
1/2"	.260	.187	.031	6184-E 40	6184 65	6184-G	6184-M
1/4"	9/32"	O.D. Wire Ring	.029	6185-E 50		6185-G	6185-M

G-C COTTER PINS

Assorted Cotter Pins	6440-E	60	6642	90
Diameter	Length Under Eye			
Cotter Pins, 1/16"	1/2"		7301-G	7301-M
Cotter Pins, 1/16"	1"		7303-G	7303-M
Cotter Pins, 1/16"	1-1/4"		7304-G	7304-M
Cotter Pins, 3/32"	1/2"		7305-G	7305-M

G-C HAIR PIN COTTERS

Assorted Hair Pin Cotter	6475-E	50	6637	75
A	B	C		
9/32"	1/16"	.026	7375-G	7375-M
3/8"	1/16"	.026	7376-G	7376-M
13/32"	3/32"	.026	7377-G	7377-M
1/2"	5/32"	.026	7378-G	7378-M
21/32"	3/16"	.032	7379-G	7379-M

G-C FLAT FIBRE WASHERS

Assorted Flat Fibre Washers	1718-E	60	6634	85		
Screw Size	L ₁	O.D.				
No. 6	135	1/4"	6513-E 60	6513 100	6513-G	6513-M
No. 8	11/64"	3/8"	6514-E 60	6514 100	6514-G	6514-M
No. 10	.196	3/8"	6515-E 50	6515 80	6515-G	6515-M
No. 1/4"	1/4"	1/2"	6516-E 40	6516 80	6516-G	6516-M
No. 3/8"	3/8"	5/8"	6517-E 40	6517 70	6517-G	6517-M
No. 15/32"	15/32"	3/4"			6518-G	6518-M



4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "X" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40c**

GLASS JARS
For Hardware Stocks
List Price **65c**

BOXES OF 144
(One Gross)
Specify "Q" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

G-C EXTRUDED FIBRE WASHERS

Extruded and Flat Fibre Washers	6512-E	30						
Assorted Extruded Fibre Washers	6520-E	40						
A	B	C	D	Screw Size				
5/16"	187	140	.039	No. 6	6525-E 40	6525 65	6525-G	6525-M
3/8"	250	169	.031	No. 8	6526-E 30	6526 65	6526-G	6526-M
7/16"	255	198	.032	No. 10	6527-E 30	6527 65	6527-G	6527-M
1/2"	375	250	.032	1/4" Shaft	6528-E 24	6528 50	6528-G	6528-M
5/8"	437	380	.031	3/8" Shaft	6529-E 20	6529 50	6529-G	6529-M

G-C SNAP BUTTON HOLE PLUGS

Assorted Hole Plugs	1716-E	10				
No. 1710 Asst. 50 Plugs in Box	List Price	1709-E	4			
Ventilating Plugs, 1" Hole Size		1709-G		1709-M		
For Hole Dia.	A	B	C			
1/16"	13/32"	1/4"	17/64"	1711-AE 10	1711-AG	1711-AM
5/16"	7/16"	1/4"	21/64"	1711-BE 10	1711-BG	1711-BM
3/8"	17/32"	3/8"	25/64"	1711-CE 10	1711-CG	1711-CM
1/2"	21/32"	17/64"	17/32"	1712-E 8	1712-G	1712-M
5/8"	51/64"	9/32"	41/64"	1713-E 6	1713-G	1713-M
3/4"	15/16"	19/64"	49/64"	1714-E 6	1714-G	1714-M
1"	1-5/32"	19/64"	1-1/32"	1715-AE 4	1715-AG	1715-AM
1-1/8"	1-5/16"	11/32"	1-9/64"	1715-BE 4	1715-BG	1715-BM
1-1/4"	1-7/16"	5/16"	1-17/64"	1715-E 4	1715-G	1715-M

G-C SNAP-IN TRIMOUNTS

No. 1720 Asst. 100 Trimounts	List Price	\$1.20			
Assorted Trimounts	1719-E	25	6620	45	
To Fit Hole	A	B			
1/8"	9/32"	3/16"	1721-E 25	1721-G	1721-M
1/8"	9/32"	13/64"	1722-E 25	1722-G	1722-M
1/8"	11/32"	17/64"	1723-E 25	1723-G	1723-M
1/8"	13/32"	1/4"	1724-E 25	1724-G	1724-M
5/32"	3/16"	1/4"	1726-E 18	1726-G	1726-M
5/32"	3/16"	11/32"	1727-E 18	1727-G	1727-M

G-C DIAL CORD CLIPS

Assorted Dial Cord Clips	6220-E	45	6621	75	
Used on Cord No.	A	B			
75 - 75A	1/8"	7/64"	6221-E 45	6221-G	6221-M
74 - 74A	1/4"	5/32"	6222-E 45	6222-G	6222-M
73 - 73X	3/16"	9/64"	6223-E 45	6223-G	6223-M

G-C SOLDERING LUGS

No. 1020 100 Ass't. Solder Lugs	List Price	\$0.90			
Assorted Soldering Lugs	1019-E	45	6618	75	
Hole Size	Fig.	No. Length			
Solder Lugs, No. 6	M	11/16"	7441-E 30	7441-G	7441-M
Solder Lugs, No. 8	M	11/16"	7442-E 30	7442-G	7442-M
Solder Lugs, No. 10	A	11/16"	1021-AE 30	1021-AG	1021-AM
Solder Lugs, No. 6	B	23/32"	1021-BE 30	1021-BG	1021-BM
Solder Lugs, No. 8	B	23/32"	7445-E 30	7445-G	7445-M
Solder Lugs, No. 6	11/16"	C	1021-CE 30	1021-CG	1021-CM
Solder Lugs, No. 6	9/16"	F	1021-FE 30	1021-FG	1021-FM
Solder Lugs, No. 8	9/16"	F	7451-E 30	7451-G	7451-M
Solder Lugs, No. 6	7/8"	H	7454-E 30	7454-G	7454-M
Solder Lugs, No. 8	7/8"	M	7455-E 30	7455-G	7455-M
Solder Lugs, No. 10	7/8"	H	7456-E 30	7456-G	7456-M
Solder Lugs, No. 4	13/16"	K	7458-E 30	7458-G	7458-M
Solder Lugs, No. 8	13/16"	K	7460-E 30	7460-G	7460-M
Solder Lugs, No. 10	13/16"	K	7461-E 30	7461-G	7461-M
Solder Lugs, No. 6	5/8"	L	7462-E 30	7462-G	7462-M
Solder Lugs, No. 8	5/8"	L	7463-E 30	7463-G	7463-M

G-C CABLE HOLDER CLAMPS

Assorted Cable Clamps	6250-E	25	6644	40		
To Fit Cable	Mounting Hole					
1/8"	to 3/16"	No. 6	6251-E 25	6251 40	6251-G	6251-M
3/16"	to 1/4"	No. 6	6252-E 35	6252 40	6252-G	6252-M
1/4"	to 5/16"	No. 6	7503-E 20	7503 40	7503-G	7503-M
5/16"	to 1/2"	No. 6	6253-E 20	6253 40	6253-G	6253-M
3/4"	No. 10		7505-E 20	7505 40	7505-G	7505-M

G-C GRID CAPS

Assorted Grid Caps	6290-E	16	6635	25
Glass Tube Grid Caps	6291-E	15		
Metal Tube Grid Caps	6292-E	15		

G-C FUSE CLIPS

For 1/4" Glass Fuses, No. 6 Mtg Hole	6311-E	10	6311-G	6311-M
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G-C FAHNE



4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "X" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40c**

GLASS JARS
For Hardware Backs
List Price **65c**

BOXES OF 144
(One Gross)
Specify "G" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

G-C DIAL PULLEYS		Part No.	Quantity in Jar	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Dial Pulleys		6057-E	6	6638	12				
3/8"	120	1/8"	3/32"	6057-AE	8	6057-AC		6057-AM	
7/16"	067	13/64"	1/8"	6057-BE	7	6057-BC		6057-BM	
1/2"	1/8"	3/16"	3/32"	6057-CE	7	6057-CC		6057-CM	
6/20	128	165	1/16"	6057-CE	3	6057-CC		6057-CM	
860	128	5/32"	050	6057-FC	5	6057-FC		6057-FM	

G-C RADIO KNOB SPRINGS

Part No.	Quantity in Jar	Part No.	Quantity in Jar	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Assorted Knob Springs		1049-E	20	6619	35				
No. 1050 Kit of 35 Springs		List Price \$0.70							
No. 1051 Kit of 100 Springs		List Price \$1.35							
Fig. No.	Width	Length	Shaft Diam.						
K1	9/32"	7/16"	1/4"	6460-E	20	6460-G		6460-M	
K2	Heavy 9/32"	7/16"	1/4"	6461-E	20	6461-G		6461-M	
K3	9/32"	5/16"	1/4"	6462-E	20	6462-G		6462-M	
K4	3/8"	5/32"	1/4"	6463-E	15	6463-G		6463-M	
K5	7/32"	13/32"	1/4"	6464-E	10	6464-G		6464-M	
K6	9/32"	3/8"	1/4"	6465-E	10	6465-G		6465-M	
K6-S	9/32"	1/4"	1/4"	6466-E	10	6466-G		6466-M	
K7	9/32"	1/2"	1/4"	6467-E	20	6467-G		6467-M	
K8	9/32"	3/8"	1/4"	6468-E	10	6468-G		6468-M	
K9	11/32"	1/4"	1/4"	6469-E	10	6469-G		6469-M	
K10	3/8"	3/8"	1/4"	6470-E	20	6470-G		6470-M	
K11	3/8"	7/16"	1/4"	6471-E	20	6471-G		6471-M	
K12	3/8"	7/16"	3/16"	6472-E	20	6472-G		6472-M	

(Additional Listings on Knob Springs on Page 25)

G-C DIAL DRIVE TENSION SPRINGS AND PHONO SPRINGS

Asst. Regular Dial Drive Springs		1054-E	10	6616	15				
Asst. Small Dial Drive Springs		1054-SE		10					
No. 1055 Kit of 25 Asst. Springs		List Price \$1.10							
No. 1056 Kit of 100 Asst. Springs		List Price \$4.00							
Asst. Large Tension Springs		6421-E		8					
Asst. Small Tension Springs		6420-E		10					
A	B	C	Wire Stock/ft Price						
1/8"	1/2"	1/4"	.019	\$0.05	6450-E	10	6450-G	6450-M	
1/8"	1"	3/4"	.019	.06	6451-E	8	6451-G	6451-M	
3/16"	1"	5/8"	.020	.06	6452-E	8	6452-G	6452-M	
3/16"	1-3/8"	1"	.020	.06	6453-E	8	6453-G	6453-M	
1/4"	1-1/2"	1"	.026	.08	6454-E	6	6454-G	6454-M	
1/4"	2"	1-1/2"	.026	.10	6455-E	5	6455-G	6455-M	

(Additional Listings on Dial Drive Springs on Page 18)

G-C PHONOGRAPH SPRINGS

No. 6478 Kit of 50 Springs		List Price \$2.25							
No. 6479 Kit of 100 Springs <td colspan="2">List Price \$4.00</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		List Price \$4.00							
Asst. Small Phono Turntable Springs		6480-E		10					
Asst. Large Phono Turntable Springs		6481-E		8					
A	B	C	Wire Size						
9/64"	1/16"	1/8"	.008		7535-G		7535-M		
5/32"	3/4"	1/2"	.016		7537-G		7537-M		
3/16"	19/32"	3/4"	.014		7539-G		7539-M		
3/16"	1/8"	3/4"	.014		7543-G		7543-M		
1/8"	16/32"	11/32"	.006		7544-G		7544-M		
5/32"	1-1/16"	3/4"	.010		7545-G		7545-M		
15/64"	1-3/4"	1-1/4"	.022		7546-G		7546-M		
3/16"	9/16"	1/4"	.033		7547-G		7547-M		
1/2"	1-3/16"	9/8"	.026		7548-G		7548-M		

G-C COMPRESSION SPRINGS

Asst. Small Compression Springs		6430-E	20	6643	30				
Asst. Large Compression Springs <td colspan="2">6431-E</td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td>		6431-E		15					
O.D.	Length	Wire Size							
7/64"	5/32"	012		7476-G		7476-M			
1/21	1/4"	015		7477-G		7477-M			
1/45	19/32"	012		7478-G		7478-M			
1/75	17/16"	016		7479-G		7479-M			
1/95	7/16"	024		7481-G		7481-M			
9/32"	1-1/4"	023		7485-G		7485-M			
5/16"	1"	020		7486-G		7486-M			
3/20	13/32"	016		7488-G		7488-M			
11/32"	5/8"	009		7491-G		7491-M			
3/8"	11/16"	022		7493-G		7493-M			
25/64"	5/16"	048		7494-G		7494-M			
4/91	1"	039		7495-G		7495-M			
19/32" x	1-1/2"	040		7496-G		7496-M			
5/16"	1-1/2"	040		7497-G		7497-M			
1" x	11/16"	13/16"	.079						

G-C BRASS EYELETS

Asst. Rivets and Eyelets		1027-E	55	6622	85				
Asst. Eyelets and Clamps		1028-E		60					
Eyelet Assortment		6900-E		55					
Shank Dia.	Length Under Head								
.087	5/32"			7252-G		7252-M			
.087	7/32"			7253-G		7253-M			
.087	11/32"			7254-G		7254-M			
.123	7/32"			7259-G		7259-M			
.123	1/4"			7260-G		7260-M			
.123	9/32"			7261-G		7261-M			
.125	5/16"			7264-G		7264-M			
.127	15/32"			7265-G		7265-M			
.133	11/64"			7266-G		7266-M			
.150	1/8"			7267-G		7267-M			
.150	5/16"			7268-G		7268-M			
.182	3/16"			7269-G		7269-M			
.182	7/32"			7270-G		7270-M			
.182	11/32"			7271-G		7271-M			
.210	3/16"			7272-G		7272-M			
.213	3/16"			7273-G		7273-M			
.248	7/32"			7274-G		7274-M			

G-C CORD STRAIN RELIEFS

Will Fit P.O.S.J. Cord 6675-E 4 6675-G 6675-M

G-C RADIO KNOB FELTS

3/8" O.D. x 1/4" Hole, Brown 1065-E 45 6641 75 1065-G 1065-M

G-C TERMINAL STRIP ASSORTMENT

Assorted Terminal Strips 6855-E 4



4-IN-1 CARD DISPLAY OR BOX
20 ENVELOPES TO A CARD BOX
When Card is wanted Specify "D" after No.
When Box is wanted Specify "X" after No.

PLASTIC ENVELOPES
Transparent and Unbreakable
List Price **40c**

GLASS JARS
For Hardware Backs
List Price **65c**

BOXES OF 144
(One Gross)
Specify "G" after Part No.

BOXES OF 1000
Specify "M" after Part No.

DESCRIPTION AND SPECIFICATIONS

G-C RIVETS		Part No.	Quantity in Jar	Part No.	Quantity in Jar	Part No.	List Price	Part No.	List Price
Asst. Rivets and Eyelets		1027-E	55	6622	85				
Rivet Assortment		6850-E		60					
Shank Diameter	Length Under Head								
Rivets .059	5/32"			7276-G		7276-M			
Rivets .059	3/16"			7277-G		7277-M			
Rivets .059	1/4"			7278-G		7278-M			
Rivets .088	3/16"			7280-G		7280-M			
Rivets .098	3/16"			7283-G		7283-M			
Rivets .121	1/8"			7286-G		7286-M			
Rivets .121	5/32"			7287-G		7287-M			
Rivets .121	3/16"			7288-G		7288-M			
Rivets .121	7/32"			7289-G		7289-M			
Rivets .121	1/4"			7290-G		7290-M			
Rivets .121	5/16"			7291-G		7291-M			
Rivets .121	3/8"			7292-G		7292-M			
Rivets .127	1/2"			7293-G		7293-M			
Rivets .121	5/8"			7294-G		7294-M			
Rivets .146	5/16"			7296-G		7296-M			
Rivets .146	17/32"			7297-G		7297-M			

G-C ESCUTCHEON PINS

Asst. Escutcheon Pins		6670-E	100						
Length	Diam.	Finish							
1/4"	No. 18	Star Bronze		7526-G		7526-M			
1/4"	No. 19	Star Bronze		7527-G		7527-M			
1/4"	No. 20	Star Bronze		7528-G		7528-M			
1"	No. 15	Nickel Plated		7529-G		7529-M			

G-C VOICE COIL DUST FELTS

Assorted Dust Felts		1079-E	25	6640	50				
Dust Felts 1/2"		1080-E	25	1080-G		1080-M			
Dust Felts 3/4"		1081-E	25	1081-G		1081-M			
Dust Felts 1"		1082-E	25	1082-G		1082-M			
Dust Felts 1-1/4"		1083-E	20	1083-G		1083-M			
Dust Felts 1-1/2"		1084-E	20	1084-G		1084-M			
Dust Felts 1-3/4"		1085-E	20	1085-G		1085-M			
Dust Felts 2-1/4"		1085-AE	20	1085-AG		1085-AM			

G-C RUBBER GROMMETS

Assorted Soft Grommets		1039-E	15	6626	20				
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Thank You!

When writing for additional
information or when ordering
from sources of supply listed
in this book, please mention

RADIO'S MASTER

RADIO'S MASTER

GENERAL INDEX

— A —

	Section & Page
AC Cord and Antenna Wire Combination	U-80
AC-DC Antenna Wire	S-9, 26, 31
AC-DC Chokes	N-11
AC-DC Power Inverters	M-37, 38
AC-DC Resistance Cords	S-24, 34; U-61, 80, 81
Adapter, FM—for AM Receivers	J-60
Adapter Plugs, Foreign, Export	U-74, 79
Adapter Line Voltage Adjusters, Foreign, Export	N-53
Adapter Resistance Ballasts, Foreign, Export	U-79
Adapters, Magnetic Pickup	B-36
Adapters, Phone Plug	T-7; U-51, 65
Adapters, Tube and Analyzer	F-86; T-5
"Adjust-A-Cone" Speaker Feature	C-15, 16
"Adjust-A-Volt" Variable Transformers	N-78
Advance Electric & Relay Co.	L-11 to 14
Aerial—See "Antenna"	
Aerovox Corporation	P-97 to 110
Aircraft Dynamotors, Magmotors	M-44, 46, 51
Aircraft Fuses	G-27
Aircraft Wires and Shielding	S-6, 7, 15, 20
"Akra-Ohm" Resistors	R-56, 57
Alarm Relays	L-8 to 32
Alarms—Burglar	L-31, 32
Alignment, Neutralizing Tools	U-25, 27, 46, 53 to 55, 73, 95, 96; also T-3
Alliance Manufacturing Co., The	
Antenna Rotator	S-75
Phono Motors	E-25, 26
Alligator Clips	J-79; M-21; S-34; U-52, 68, 69, 93
Alpha Metals, Inc.	U-28
Alpha Wire Corporation	S-1 to 12
Altec Lansing Corporation	
Amplifiers	B-1 to 3
Speakers	C-3, 4
Transformers (Peerless Division)	N-80 to 84
Aluminum Paint	U-84
AMATEUR EQUIPMENT—See specific headings, such as Frequency Calibrators, Communication Receivers, Transmitters, etc.	
Amateur Type Tubes	A-3 to 6, 25 to 36
"American Beauty" Soldering Irons	U-1
American Electrical Heater Co.	U-1
American Microphone Co.	D-1 to 6
American Phenolic Corp. (Amphenol)	T-1 to 10
American Radio Relay League (ARRL)	H-11, 12
American Television & Radio Co.	M-35 to 38
Ammeters	F-27, 28, 39, 43, 44, 53, 65 to 71, 92
Amperex Electronic Corp.	A-27, 28
Amperite Company, Inc.	
Ballasts (Resistor Tubes)	R-63, 64
Microphones and Stands	D-25, 26
Thermostatic Delay Relays	L-25
"Amphenol" (American Phenolic Corp.)	T-1 to 10
AMPLIFIERS AND SYSTEMS	Section B; also J-61
Cases, Cabinets, Racks	J-69 to 74, 90 to 94
Foundation Chassis	J-72, 74, 90 to 94
Industrial and School Systems	B-15, 18, 19, 29, 30, 36
Mixers	B-2, 13, 36
Mobile Amplifiers	B-6, 10, 14, 27, 33
Musical Instrument Amplifiers	B-20, 34
Noise Level Meters, Indicators	B-23; E-7; F-10, 43
Noise Suppressors	B-23, 24
Phono Amplifiers, Systems	B-7, 8, 10, 11, 12, 14, 26, 28, 33
Portable Amplifiers	B-4, 7, 11, 12, 31 to 34
Pre-amplifiers, Boosters	B-2, 15, 19, 24, 31
Recording Amplifiers	B-18; E-3, 5
Remote Control Boxes	B-13, 14, 36
Tone Equalizers	D-9, 12, 19; E-11; N-48
Transmitter & Amateur Power Amplifiers	J-46
Analyzer Adapters	F-86; T-5
ANALYZERS (See also Testing Instruments)	Section F
Angles and Brackets	J-69 to 72, 95; U-37, 63, 75, 105
Annunciator (Bell) Wire	S-31
ANTENNA ACCESSORIES	K-12; M-22; S-8, 11, 28 to 30, 39, 48, 58, 62; U-76a, 76b, 102, 103
Aerial Eliminators	U-61
Bolts, Pipe Straps, etc.	K-12; M-22; S-28 to 30, 56, 62, 76 to 78; U-76a, 102, 103
Coils	T-27, 59, 60
Insulators	S-8, 13, 30, 38, 40, 48, 51, 62, 74 to 78; T-8; U-76a, 76b, 102, 103
Lead-in Strips, Ground Clamps	M-22; S-11, 13, 30
Lightning Arresters	S-11, 13, 30, 39, 62; T-8
Mounting Accessories	S-28 to 30, 39, 48, 51, 56, 62, 76, 77, 78
Spring Adjusters	S-30
Spring Wire Clips	S-33; U-37, 62, 66, 73, 93, 105
Tuning Units	F-44b; U-61
Turnbuckles	K-12; S-30; U-76b, 102
Wire and Cable	S-8, 9, 14, 15, 26, 32, 40, 51, 58; T-7
Antenna Adaptor (Selector) for Ham Rigs	J-31
Antenna Changeover Relays	L-12, 16, 21, 24; N-26
Antenna Manuals	H-12, 14, 15
ANTENNAS AND SYSTEMS	S-13, 29, 39 to 80; T-7; U-64
Automobile Antennas	S-47, 53, 54, 60, 63, 79; U-100
Conical Antennas	S-71, 72
F-M Dipole Antennas, Reflectors	S-13, 29, 44, 46, 51, 59 to 79; T-7

	Section & Page
Antennas and Systems (con.)	
Home Receiver Antennas, A-M	S-54; U-64
Impedance Transforming Devices	D-33; S-58
Indoor Aerials, Eliminators	S-9, 26, 31; U-61
Kits	S-9, 13, 30, 44, 64
Loop Antennas	J-27; U-61
Masts, Radiators, Towers	S-45, 51, 56, 67, 73, 77; T-8
Mobile Transmitter, Police Antennas	S-47, 52
Motorcycle Antennas	S-47, 52
Q-Beam Antenna System	S-40
Rotating, Rotary Beam Antennas	S-40, 46, 70, 73, 75
Telescoping Antennas	S-46, 47
Television Antennas & Accessories	J-10; K-2, 12; S-28 to 30, 39 to 80; T-7, 8; U-64, 76a, 76b, 102, 103
Appliance Noise Filters	J-25; P-22, 23, 36, 37, 59, 104; R-13
Appliance Testers	F-25, 41, 51, 56, 69
Arco Electronics, Inc. (El-Menco Capacitors)	P-91 to 96
Arcturus Receiving Tubes	A-18
Astatic Corporation, The	D-7 to 12
Atlas Sound Corporation	C-35 to 38
"Atoms" (Sprague Capacitors)	P-49, 52
ATR (American Television & Radio Co.)	M-35 to 38
Attenuators, Audio	R-5, 30, 55
Audak Co., Inc. (Audax)	E-13, 14
Audio Attenuators	R-5, 30, 55
Audio Chokes	Section N
Audio Devices, Inc. ("Audiodescs", "Audiopoints")	E-35, 36
Audio Oscillators	F-2, 6, 30, 32, 76; J-43; U-61
Audio Reactors	Section N
Audio Transformers	Section N
Automatic Line Voltage Regulators, Plug-in (Ballasts)	R-6, 17, 62; U-61
Automatic Voltage Regulators, Controls, Reducers	M-52 to 56; N-21, 30, 34, 45, 49, 53, 72, 76 to 82
AUTO RADIO ACCESSORIES:	
Antenna Accessories	S-34, 64; U-76b, 92
Antenna and Fuse Connectors	S-35, 64; U-38, 76b, 92
Auto Antennas	S-47, 53, 54, 60, 63, 66; U-100
Battery Eliminators	M-36 to 42
Cable Fittings, Gear, Couplers	U-77
Capacitors, Filters	P-13, 33, 34, 56, 86, 104; R-14; S-64
Knobs	U-89
Panel Lamps	A-12, 14, 20
Pin Plug and Jack Sets	J-79; S-64; U-37, 52, 66, 74, 92, 94
Power Supplies, Packs	M-29, 49; N-12
Shaft Cutting and Fitting Machine	U-77
Shafting, Casing for Remote Controls	U-77
Shielding	S-5, 15
Suppressors, Ignition	R-14, 18, 40, 48; S-35, 64; U-100
Tire Static Neutralizing Kits	U-46, 100
Vibrators	M-26 to 28, 35, 49, 50, 54
Vibrator Transformers, Exact Duplicate	N-5
Volume and Tone Controls	Section R
Wheel and Hood Static Eliminators	S-35, 64; U-100
Wire and Cable	S-5, 7, 15, 36
Autotransformers, Autoformers	Section N
— B —	
Baffles, Enclosures for Speakers	C-4, 11, 29, 30, 34, 36, 72, 74
Ballasts (Plug-in Automatic Line Voltage Regulators)	R-6, 17, 62 to 64; U-61, 78, 79
Banana Plugs, Jacks	J-11, 38, 81; S-36; U-51, 52, 67, 69, 70, 94
Band Expanders for Communication Receivers	J-7, 8, 31
Band Switches and Assemblies	J-23, 28, 41, 42, 80; L-4
Band-Switching Relays	L-24
Barker & Williamson, Inc.	J-41 to 43
Barrier Type Terminal Strips	T-23 to 25; U-71
Bases, Bottom Plates for Metal Chassis	J-71, 90, 91, 95
BATTERIES, DRY	M-1 to 20
Battery Cable	S-25, 32
Battery Chargers, Boosters	M-30, 31, 42; N-12
Battery and Test Clips	M-21, 22; S-34; U-93
Battery Eliminators	M-36, 39, 40, 41, 42; P-20
Battery Mini-Max Strips	U-70, 103
Battery Plugs	T-30; U-97
Battery Testers	F-13, 16, 37, 60, 68, 69
Beam Bender for 10" Television Tubes	R-4
Beat Frequency Generator	F-80
Belden Manufacturing Co.	S-13 to 24a
"BELFONE" Intercommunicating Systems	B-8
Bell Sound Systems, Inc.	B-5 to 8
Bell Wire	S-31
Binding Posts	J-11, 49; M-56; T-30; U-51, 69, 70
Birnbach Radio Co., Inc.	S-28 to 38
Bleed Resistors	R-48
"Blue Ribbon" Resistors	R-69
Biley Electric Co.	K-14
Bogen Co., Inc., David	B-25 to 29
Boland & Boyce, Inc.	H-20
Bond Electric Corp.	M-19, 20
BOOKS AND MANUALS	Section H; also E-36; J-60; N-34; P-4; R-46
Boonton Radio Corp.	F-77 to 80
Boosters and Pre-amplifiers for Amplifiers	B-2, 15, 19, 24, 31
Boosters for Television Reception	K-1, 8, 9; S-65
Box Shields, Metal	J-73, 75
Brackets and Angles	J-69 to 72, 95; U-37, 63, 75, 103
Bradley Laboratories, Inc.	G-30
Bradshaw Instruments Co.	F-72
Break-in Relays	L-15, 16, 17, 24, 26

GENERAL INDEX (Continued)

	Section & Page
BRIDGES:	
Capacitor	P-21
Capacitor-Resistor	F-73; P-109
Fault-Location	R-58
Incremental Inductance	F-52
Megohm	F-73
Wheatstone	F-73; R-58
Broadcast Equalizers and Filters	N-44
Browning Laboratories, Inc.	F-19 to 22
Brush Development Co., The	
Microphones, Headphones	D-35, 36
Recording Equipment	E-47, 48
Bud Radio, Inc.	J-69 to 81
Burgess Battery Company	M-1 to 4
Burglar Alarms, Photo Electric	L-32
Burlington Instrument Co.	F-91, 92
Bus Bar Wire	S-9, 14, 33
Bushings, Spacers	U-38, 59, 64, 76, 101
Bussmann Manufacturing Co. (Buss Fuses)	G-24, 25
Buzzers for Telegraph Keys	L-27, 28
Bypass (Bathtub) Capacitors	P-10, 11, 30, 57, 67, 73, 90
- C -	
Cabinet Mouldings, Handles, etc.	J-18, 72, 94
Cabinet Patching & Finishing Materials, Kits	U-43, 44, 86, 86
Cabinet Rack Dollies	J-72, 88
Cabinets & Cases, Amplifier, Receiver, etc.	J-69, 72, 73, 74, 90 to 94
Cabinets & Cases, Instrument	J-72, 88, 94
Cabinets & Cases, Speaker	C-4, 11, 30, 34; J-72, 74, 88, 94
CABINETS, RACKS, PANELS, ETC., METAL	J-40, 69 to 74, 85 to 95
Cabinets, Sloping Front	J-72, 73, 88, 92, 93, 94
Cabinets, Stock	U-97
Cabinets, Utility	J-73, 74, 88, 92, 94; R-17
Cabinets, Wood (Receiver)	K-6
CABLE—See "Wire"	
Cable Clamps	U-37, 62, 75, 105
Cable Connectors	G-10; J-38, 79; S-58; T-3
Cable Fittings, Gear, Coupler for Auto Radios	U-77
Calculators and Calculation Charts	H-5; R-54
Calibrators—Frequency, Signal, Sweep	F-1, 20, 22; J-44
Call and Paging Systems	B-8, 18, 19, 39, 40; L-32
"Calrod" Soldering Irons	U-5
Cam-Lever Switches	L-9
Cannon Co., C. F.	D-28
Cannon Electric Development Co.	T-11 to 18
Capacitance Bridges & Decades	F-73, 74; P-21
Capacitance Relay	F-21
Capacitor Analyzers	F-74; P-21, 54, 109
Capacitor Color Codes	P-38, 103
Capacitor Mounting Hardware	J-55; P-7, 41, 62
Capacitor Selectors, Motor-Starting	P-31
CAPACITORS, FIXED	Section P
Auto Radio	P-13, 33, 34, 56, 86, 104; R-14; S-64
Bypass, Bathtub	P-10, 11, 30, 57, 67, 73, 90
Ceramic	P-35, 94; R-38; U-57
Electrolytic, Dry	P-1 to 7, 27 to 31, 44 to 52, 69 to 71, 84 to 87, 97 to 101; R-13
Filters, Noise, Interference	J-25, 26; P-22, 23, 36, 37, 59, 86, 104; R-13; U-61
Fluorescent Lighting	P-12, 32, 75, 86
Frequency Meter	J-54
High Voltage Vacuum Tube Types	A-28 to 30; P-88, 89
Mica	P-17 to 20, 38, 39, 59 to 62, 76 to 78, 92, 93, 102, 103, 110
Mica, Silvered	P-17, 59, 76, 91, 92, 103; R-37
Motor-Starting	P-24, 31, 68, 75, 84
Networks	P-65
Padder	J-29, 77; P-95; U-57
Photoflash, Energy Storage	P-65, 79, 105
Plastic Molded	P-8, 72, 97
Plug-in & Twist-Prong Electrolytic	P-2, 3, 28, 46, 47, 50, 52, 85, 100, 101
Selenium Rectifier	P-51
Television	K-4, 20; P-14, 15, 16, 35, 40, 52, 86, 90 to 94, 97, 110
Transmitting	P-14 to 20, 39, 40, 57, 58, 74, 79, 93, 103, 107
Trimmer	P-35, 96; R-40
Wet Electrolytic Capacitor Replacements	P-4, 51, 86, 100
CAPACITORS, VARIABLE	J-20 to 24, 33 to 58, 76 to 78, 101
Neutralizing, Padding, Trimmer	J-22, 35, 42, 50, 52, 54, 57, 58, 77, 78, 101; P-95, 96; U-57
Receiving, Tuning	J-23, 24, 33, 34, 51, 57, 58, 76, 77, 78; U-57
Transmitting	J-20 to 24, 33, 34, 43, 50 to 58, 75
Carbon Brush Replacement Kit	U-88
Carbon Granules for Microphones	U-84
Carbon Microphones	D-14, 19, 20
Carbon Resistors	P-108; R-11
Cardioid Microphones	D-13, 17, 22
Cardwell Mfg. Corp., Allen D.	J-51 to 55
Carrying Cases	J-72, 73, 88, 94
Carter Motor Company	M-43 to 48
Cartridge Replacements for Pickups	Section D; also E-4, 10, 12
Casters for Heavy Relay Racks	J-72
Cathode Ray Oscillographs, Oscilloscopes	F-2 to 6, 11, 20, 21, 28a, 29, 30, 49, 61, 85, 87, 94; J-44
Cathode Ray Tube Mounting Accessories	J-47; K-2; T-1
Cathode Ray Tubes	Section A; also F-62
Cements—Radio Repair, Coil, Speaker, etc.	T-10; U-41, 82, 83
Ceramic Capacitors	P-35, 94; R-38; U-57
"Ceramicom" Capacitors	R-38 to 40
"Cetron" Tubes	A-35, 36
"Challenger" Sound Equipment	B-30
Chanalyst, Rider	F-5
Chart Frames	J-18
Chassis, Brackets, Panels—Metal	J-40, 69 to 71, 74, 90 to 95
Chassis Mounts, Rubber	U-36, 106
Chassis Punches for Cutting Holes	T-1; U-29, 52
Chassis Supports for Service Work	U-99
Chemical Kits and Chemicals	U-41 to 44, 83
Chicago Condenser Corp.	P-80
Chicago Industrial Instrument Co.	P-89
Chicago Transformer Div.—Essex Wire Corp.	N-17 to 22
Chisholm-Ryder Co., Inc., Premax Division	S-45 to 48
CHOKES—AC-DC, Audio, Filter, Swinging	Section N
Chokes, High Q—for Dynamic Noise Suppression	N-18, 48, 60
Chokes—R. F. Plate, Power Line, etc.	J-16, 25, 26, 32, 35, 48, 60, 78, 79; P-36; R-10, 54, 66; U-56
Cinaudagraph Speakers—Div. Aircon Mfg. Corp.	C-5, 6
Cinch-Jones Sales	T-19 to 28
Circle-Cutting Tools	U-25, 29, 52
Circuit and Industrial Control Relays	L-8 to 26
Circuit Opening Switch	L-4
Circuit Testers, Analyzers	Section F
Clarkston Corporation	E-15
Clarostat Mfg. Co., Inc.	R-1 to 8
Cleaning Fluids, Materials	U-42, 43, 83, 85
"Cletron" Speakers	C-25, 26
Cleveland Electronics, Inc.	C-25, 26
Clips:	
Alligator	J-79; M-21; S-34; U-52, 68, 69, 93
Battery and Test	M-21, 22; S-34; U-93
Dial Cord	U-35, 87, 105
Fuse	G-25, 28; U-37, 60, 66, 74, 105
Inductor	J-35, 55
Spring Wire (Fahnestock)	S-33; U-37, 62, 66, 73, 93, 105
Tube Grid and Cap.	J-15, 36, 49; S-38; T-5; U-37, 58, 60, 76, 105
Coastwise Electronics Co., Inc. ("Ferret")	F-75, 76
Coaxial Cable	G-33; S-8, 25, 32, 58, 62; T-9
Coaxial Cable Connectors & Plugs	T-16
Coaxial Relays	L-11
Coaxial Speakers	C-10, 31, 44
Code Practice Oscillators	J-8, 73; U-61
Code Practice Telegraph Sets	L-27 to 30
Code Phono Records for Learners	U-61
Coil Assemblies	J-41, 42
Coil Dope, Cement	J-17; T-10; U-41, 83
Coil Forms and Mountings	J-17, 18, 45, 49, 80; T-10; U-59
Coil Kits	J-29, 30
Coil Replacement Windings, Primaries	J-59, 99
Coil Shields	J-18; U-58
COILS:	
Antenna	J-27, 59, 60
Broadcast, S.W., Transmitting	J-18, 25 to 32, 36, 41, 47, 80; U-59
Choke	J-15, 25, 26, 32, 35, 48, 60, 78, 79; P-36; R-10, 54, 66; U-56
Exciter, Inductor, Tank	J-18, 19, 23, 36, 41, 47, 80; N-42, 43, 60
F-M	J-32, 60
High Voltage	J-32
Hybrid and Repeat	N-39
I.F. Transformers	J-17, 25 to 30, 50, 59, 60
Oscillator	J-17, 26 to 29, 59, 60
Plug-in	J-80; U-59
R.F.	J-27 to 30, 59, 60
Television	J-32; K-4, 10, 20; N-1, 3, 64
Wave Traps	J-28; U-61
Cold Zone Temperature Testers	F-56
Color Codes	P-38, 103
Color Coding Kit	U-84
Coloring Lacquer for Light Bulbs	U-43, 84
COMMUNICATION RECEIVERS	J-1 to 10d, 56
Compression Springs	U-40, 106
Connat Laboratories	G-29
Condenser Products Co. ("Plasticon")	P-79
CONDENSERS—See "Capacitors"	
Cone Patches, Speaker	U-36
Conical Antennas	S-71, 72
CONNECTORS	Section T
Army-Navy, Aircraft	T-17, 18
Auto Antenna, Fuse	S-35, 64; U-38, 76b, 92
Cable	G-10; J-38, 79; S-58; T-3
Chassis	G-10; J-79; S-58; T-3; U-65, 74, 93
Cord	Section T; U-90, 92
Couplings, Extenders, Reducers, etc., for Shafts	J-15, 35, 47, 55, 58, 81; R-33, 46; S-36, 37; U-38, 59, 64, 68, 76, 101
Heat Radiating, for Transmitting Tubes	A-30; J-74
Heavy Duty Power and Radio	Section T
Microphone	G-10; T-6, 12, 16; U-51, 65, 74, 93
Constant Impedance Controls, Attenuators	R-5
Constant Voltage Transformers	M-52, 53, 56
Contact Cleaning Fluids	U-42, 83
Contact Pickups, Mikes, for Musical Instruments	D-18, 24, 26, 35
Continental Carbon, Inc.	R-11 to 14
Continental Electric Co. (Cetron)	A-35, 36
Converters, Bandsread and VHF	J-7, 8, 10
Converters, Power Packs	F-5; J-44, 46, 96; M-29, 36 to 56; N-12; P-20
Converters, Rotary Power	M-43 to 48, 51
Copper Oxide Rectifiers	G-29 to 31
Copper Sulfide Rectifiers	M-31, 32
Cord Connectors	Section T; U-90, 92
Cord Plugs	T-12 to 16
Cord Strainreliefs	U-36, 106
Cornell-Dubilier Electric Corp.	
Capacitors	P-1 to 24
Vibrators	M-54
Cornish Wire Co., Inc.	S-25, 26
Cotter and Hairpins	U-36, 105

GENERAL INDEX (Continued)

	Section & Page
Couplings, Extenders, Reducers—for Shafts	J-15, 35, 47, 55, 58, 81; R-33, 46; S-36, 37; U-38, 59, 64, 68, 76, 101
Couplings, Insulated, Flexible	J-15, 35, 47, 55, 58, 81; S-37
Couplings, Insulated, Non-Flexible	J-15, 35, 55; R-46; U-76
Crescent Industries, Inc.	
Recorders, Changers	E-16 to 20
Speakers	C-39 to 42
Crest Transformer Corp.	N-75, 76
Crossover Networks, Speaker	C-10, 23, 33, 46
Crystal Microphones, Pickups, Cartridges	Section D; also F-62
Crystal Oscillators	K-14
Crystal Research Laboratories, Inc.	K-18
CRYSTALS	K-13 to 18
Crystal Sockets	J-18; T-4, 29
Cube Taps, Electrical	U-92
Cunningham Receiving Tubes	A-1
Cup Washers	U-39, 62, 75, 105
Cutting Heads, Recording	D-36; E-9, 14
Cutting Needles	E-2, 31 to 42; U-90
Cutting Pliers	U-13 to 21
Cutting Tools, Circle	U-25, 29, 52

— D —

Davies Molding Co., Harry	U-30
DC-AC and DC-DC Power Converters	M-29, 36 to 54
Decades, Capacitance	F-74; P-21
Decades, Inductor	F-52
Decades, Resistance	F-74; R-3, 57
Decals for Electronics	J-31, 46
Decimeter, Inc.	J-31
Desk Panels, Metal	J-89
Detrola Turntable Spring Drive	U-90
"Diactor" Impregnated Capacitors	P-74, 75
"Diacone" Speakers	C-3
Dial Cable, Cords, Belts	S-10, 33; U-33, 34, 87, 88
Dial Cable Adjuster Tools	U-54, 87, 95
Dial Cable Clips	U-35, 87, 105
Dial Crystals, Replacement	U-45, 88
Dial Drive Accessories	J-47; U-40, 87, 97, 107
Dial Drive Cements, Compounds	U-42, 84, 87
Dial Drive Springs	U-40, 87
Dial Knobs, Pointers	J-12, 13, 35, 46; M-34; U-30, 32, 56, 66, 89, 100, 103
Dial Knob Springs	U-40, 97
Dial Lamps, Bulbs	A-12, 14, 20; G-23
DIAL LIGHT ASSEMBLIES, JEWELS	Section G; also U-72, 93
Dial Light Coloring Lacquers, Kits	U-43, 84
Dial Light Co. of America, Inc. (Dialco)	G-1 to 10
Dial Light Installer & Remover Tools	G-10; U-93
Dial Light Sockets, Brackets	G-8, 17 to 22; U-72, 93
Dial Locks	J-12, 47
Dial Oil	U-42, 84
Dial Plates	M-34; R-33; U-56
Dial Pulleys	U-106
DIALS, INSTRUMENT, TUNING, VERNIER, ETC.	J-12, 13, 28, 46, 73; U-56
Diaphragm Replacements for Horns	C-19
Diathermy Cable	S-9, 82
Diathermy Tubes	Section A
Diffusion Vacuum Pump	A-30
Diheptal, Duodecal Type Television Sockets	T-1, 29
"Di-Loop" Antennas	S-69
Dipole Antennas	S-13, 29, 39 to 77
Disks, Recording	E-2, 31, 33, 35, 37, 40
Distortion Meter	J-43
Distributor Suppressors, Auto	R-14, 18, 40, 48; S-35, 64; U-100
Dome Light Filter Capacitors, Auto	P-34, 56; S-35, 64
Drake Electric Works, Inc. (Soldering Irons)	U-3, 4
Drake Manufacturing Co. (Dial Lights)	G-11 to 20
Drills, Masonry	U-76b, 103
Drives for Radio and Phono, Rubber	U-35, 88, 90, 103
Dry Batteries	M-1 to 20
Dumont Laboratories, Inc., Allen B.	F-61, 62
Duotone Company, Inc.	E-40 to 42
"Durantite" Capacitors	P-97
Dust Cap-and-Chains for Connectors, etc.	T-7, 15; U-65, 74
Dust Felts for Speaker Voice Coils	U-36, 106
"Dykanol" Capacitors	P-10 to 16
Dynamic Demonstrator AM-FM (Working Schematic)	F-5
Dynamic Microphones	Section D
Dynamotors	M-45, 51

— E —

Earphones	D-28 to 36; U-61
Earphone Cords	S-24, 34; U-45, 61
Earphone Cushions	D-34; U-61
Eby Sales Co.	T-29, 30
Eckstein Radio & Television Co. ("Karadio" Receivers)	J-9
Editors & Engineers, Ltd. (Books, Manuals)	H-15, 16
"Eico" Test Equipment	F-97 to 99
Eitel-McCullough, Inc. (Eimac Tubes)	A-29, 30
Electrical Connecting Devices	Section T; U-74, 92
Electrical Extension Cords, Sets	S-8, 24; U-92
Electric Eye Units	L-31, 32
Electric Soldering Iron Co., Inc. (Esico)	U-2
Electro-Dynamic Speakers	Section C
Electrodynamometers	F-25, 27, 43
Electrolytic Capacitors, Dry	Section P
Electro Mechanical Instrument Co. (Emico)	F-60
"Electronamic" Test Instruments	F-13, 14
Electronic Control Relays	L-9, 13, 17, 18, 23
Electronic Instrument Co., Inc. (Eico)	F-97 to 99

	Section & Page
Electronic Measurements Corp.	F-81, 82
Electronic Switch for Oscilloscope	F-62
Electrons, Inc.	A-33
Electro Products Laboratories, Inc.	M-39, 40
Electro-Voice Inc.	D-17 to 20b
Electrovox Co. Inc. (Walco)	E-46
"Electrox" Rectifiers, Battery Eliminators	G-31; M-42
El-Menco Capacitors	P-91 to 96
"Emico" Panel and Test Meters	F-60
Enamels, Lacquers, Paints	U-43, 44, 83 to 86; also J-18
Energy Storage (Photoflash) Capacitors	P-9, 65, 79, 105
Erie Resistor Corporation	R-37 to 40
"Ersin Multicore" Solder	U-31
Esutechon Pins	U-40, 106
"Esico" Soldering Irons	U-2
Espey Mfg. Co., Inc.	K-5, 6
Essex Wire Corp.—Chicago Transformer Div.	N-17 to 22
"Eveready" Batteries	M-7 to 10
Exciter Coils, Tanks, Forms	J-18, 19, 36, 41, 47, 80; N-42, 43, 60
Expansion Springs	U-40, 106
Extension Cord Sets	S-8, 24; U-92
Eyelets, Rivets	U-36, 62, 62, 106
Tool and Punch Sets for Eyelets, Rivets	U-52, 95

— F —

Fabric for Cabinets and Instruments	U-86
Fabric Cement	U-41, 82
Fahnestock Spring Wire Clips	S-33; U-37, 62, 66, 73, 93, 105
Fault Location Bridge	R-58
Federal Telephone & Radio Corp.	G-33
Feeder Line Spreader Insulators	J-11, 42; S-38; T-8
Felt Feet	U-74, 106
Felts for Phono Turntables	U-44, 90
Felt Washers for Knobs, etc.	U-38, 89, 106
"Ferret" Test Equipment	F-75, 76
Fibre Insulating Washers	U-38, 62, 63, 76, 105
Field-Coil Speakers	Section C
Filament Transformers	Section N
Filter Capacitors	Section P
Filter Chokes, Line, R.F., etc.	J-16, 25, 26, 32, 35, 48, 60, 78, 79; P-36; R-10, 54, 66; U-56
Filter Chokes, Reactors, Audio	Section N
Filter Selector Analyzer	P-104
"Filternoys" Filters	R-13
"Filterol" Filters	P-59
FILTERS, INTERFERENCE, NOISE	J-25, 26, 60; P-22, 23, 36, 37, 59, 86, 104; R-13; U-61
Automotive Noise Suppression	P-13, 33, 34, 66
Fluorescent Lighting	J-97; P-23, 37, 59, 86, 104; R-62
Sound Effects	N-44
Filters, Television Glare	K-2, 9, 12; S-29
Fixture Wire, Lamp Cords	S-4, 8, 24, 26, 31, 33
Flashlight Batteries	M-4, 6, 7
Flash Tubes	A-12
Flexible Couplings, Insulated	J-15, 35, 47, 55, 58, 81; S-37
Flexible Resistors	M-33; R-6
Flexible Screw-Drivers	U-53, 95
Flexible Shafts	J-35, 81; R-33; S-38
Flexible Varnished Tubing and Spaghetti	S-11, 33; U-45, 57, 91
Flexo International Corp.	D-27
Flock Finishing Spray Kits and Materials	U-45, 86
Floor Wax	U-85
Fluorescent Lighting Capacitors, Suppressors	J-25; P-12, 23, 37, 59, 86, 104; R-62
FM Adapter for AM Receivers ("Receptor")	J-61
FM Antennas	S-13, 23, 44, 46, 51, 59 to 79; T-7
FM Books, Manuals	Section H
FM Coils	J-32, 60
FM Radio Kits and Units	K-5, 6
FM-AM Tuners	F-19; J-61; K-2, 5, 6, 8
Foot Switch	L-9
Foundation Chassis for Amplifiers	J-72, 74, 90 to 94
Fractional Horsepower Motors	E-26
Freed Transformer Co., Inc.	
Laboratory Test Equipment	F-52
Transformers	N-54 to 60
Frequency Calibrators	F-1, 20, 22; J-44
Frequency Controls, Equalizers	N-44, 48
Frequency Markers	F-28b
Frequency Meter Capacitor	J-54
Frequency Meters, Testers	F-22, 27, 58, 59; J-43, 44
Frequency Multiplier	J-43
Frequency Record to Check Response Characteristics	U-34
Frequency Shifter	J-45
Friction Tape	U-91
Fungus Varnish	U-41, 83
Furniture Polishers, Varnishes, Oils, etc.	U-43, 44, 85, 86
Fuse Insulators, Fibre—for Auto Radios	U-38
Fused Plug	P-96
Fuse Pullers	U-101
FUSES	G-24 to 28; P-96
Mountings, Connectors, Clips	G-25 to 28; U-60, 66, 74, 76b, 92, 105

— G —

Gain and Fader Controls, P.A.	Section R
Garrard Sales Corporation	E-23, 24
Gas and Oil Gauge Filter Capacitors, Auto	P-34, 56, 104
Gas Pressure Measuring Tubes	A-12
Generators	M-43
General Cement Mfg. Co.	U-82 to 106

GENERAL INDEX (Continued)

	Section & Page
General Control Co.	L-9
General Dry Batteries, Inc.	M-11, 12
General Electric Company	
Capacitors ("Pyranol")	P-65 to 68
Indicating Instruments	F-18
Phono Transcription Pickups and Preamplifiers	E-4
Radio Dial Lamps	G-23
Receiving Tubes, GE	A-2
Receiving Tubes, Ken-Rad	A-8
Soldering Irons	U-5, 6
Speakers	C-2
Switches and Relays	L-8
Transformers and Reactors	N-1
Transmitting and Industrial Tubes	A-3, 4
General Electronics, Inc.	A-34
General Industries Co., The	E-27 to 29
General Purpose Relays	L-8, 13, 19, 26
General Transformer Corp.	M-41
Generator Capacitors, Suppressors—Auto.	P-13, 34, 56, 86, 104;
	R-14; S-35, 64
Generators, Rotary Power	M-43 to 48, 51
Generators, Signal	Section F
Germanium Crystal Diodes	A-12
Ghirardi Books, Manuals	H-7, 8
"Glasohm" Glass-Insulated Flexible Resistors	R-6
Glass and Porcelain Insulators—Antenna	S-8, 13, 30, 78
Glass Jars for Hardware, etc.	U-35, 63
"Glassmikes" Capacitors	P-79
Glow Modulator Tubes	A-12
Glue, Cabinet Repair, Wood	U-41, 82
Gon-Set Company	J-10
Gothard Manufacturing Co.	M-51
Greenlee Tool Company	U-29
"Greenohm" Resistors	R-7, 8
Grid Bias Cells	M-33
Grid Caps and Clips, Tube	J-15, 36, 49; T-5; U-37, 60, 76, 105
Grille Cloth and Screening	U-33, 86
Grommets, Rubber, etc.	U-36, 63, 72, 92, 106
Ground and Lead-in Wire	S-5 to 31
Ground, Pipe and Strap Clamps	M-22; S-11, 13, 30, 56, 62, 76, 77; U-76a, 102, 103
Ground Rods	S-30
Guardian Electric Mfg. Co.	L-15, 16
Guy Wire	S-8, 30, 62; U-76b, 103

— H —

Halldorson Co., The	N-35, 36
Hallcrafters Co., The	J-1 to 4
Hamilton Electronics	B-4
Hammarlund Mfg. Co., Inc., The	J-56 to 58
"Hammmeters"	F-38
"Hamswitch"	L-4
HARDWARE, SMALL	J-47; M-34; R-32; U-35 to 40, 59 to 63, 97, 101 to 107
Hardwick, Hindle, Inc.	R-67 to 69
Harvey-Wells Electronics, Inc.	J-96
HEADPHONES	D-28 to 36; U-61
Ear Cushions	D-34; U-61
Headphone Cords	S-24, 34; U-45, 61
HEARING AID ACCESSORIES:	
Batteries	M-3, 6
Battery Testers	F-60, 68
Capacitors	P-1, 33
Earphones and Headsets	D-34
Group Hearing-Aid Components	D-34
Microphones and Cartridges	D-24
Plugs, Jacks	U-37
Transformers	N-47
Heat Dissipating Connectors	A-30; J-74
Hexacon Electric Company	U-7, 8
Hickok Electrical Instrument Co.	F-45 to 51
High Frequency Relays	L-12, 16, 21, 22, 26
High Frequency Speakers and Horns	Section C
High Voltage "Tattelite" Neon Testers	G-26
Home Recording Products Corp.	E-37
Hookup Wire	S-5, 6, 7, 20, 21, 26, 31
HORNS, PROJECTORS, TRUMPETS	Section C
Adapters, Connectors, Diaphragms	C-19, 21, 36
Driver Units	C-9, 19, 33, 35, 43
Stands, Brackets, Mounting Fixtures	C-21, 36
"Hushatone" Pillow Speaker	D-36
Hybrid and Repeat Coils	N-39
"Hypex" Speaker Projectors	C-9
Hytron Radio & Electronics Corp.	A-31
"Hyvol" Capacitors	P-105 to 107

— I —

Idle Pulleys	U-59, 106
I.F. Transformers	J-17, 25 to 30, 50, 59, 60
Ignition Batteries	M-4, 10, 12
Ignition Cable, Shielded	S-7, 35
Ignition Pliers	U-13, 18
Ignition Suppressors	R-14, 18, 40, 48; S-35, 64; U-100
Ignitrons (Pool-Cathode Tubes)	A-4, 5, 24
Illinois Condenser Co. ("Illini-Hycaps")	P-44 to 48
Impedance Transforming Device for Antennas	D-33
Incremental Inductance Bridge	F-52
Indicating Instruments, Meters	F-18, 28, 32, 39 to 44, 53, 58 to 71
Indicators, Panel, Signal	Section G; also U-72
Indicators, Temperature	F-41, 56, 57
Indicators, Volume Level	B-23; E-7; F-10, 43

	Section & Page
Indoor Aerial Wire	S-9, 26, 31
Inductors—Coils	J-18, 19, 23, 36, 41, 47, 80; N-42, 43, 60
Clips for Inductors	J-35, 55
Inductors, Variable	N-42
"Inductuner" Variable Tuning Device	M-33; R-33
"Inputuner" Variable Tuning Device	K-2
Industrial Circuit Testers	Section F
Industrial Condenser Corp.	P-83 to 87
Industrial Instruments, Inc.	F-73, 74
Input Transformers	Section N
Instrument Rectifiers	A-12; G-29 to 33
Instruments and Meters, Panel	F-18, 28, 32, 43, 44, 53, 58 to 71, 91, 92
Insulated Staples	U-97
Insulated Synthetic Tubing for Tool Handles	U-34, 100
Insulated Wiring Nails	S-29; U-40
Insulating Fibre Washers	U-38, 62, 80, 114
Insulating Materials, Sheets	T-10; U-45, 64, 92
Insulating Tubing, Spaghetti	S-11, 33; T-10; U-45, 57, 91
Insulating Varnish	U-43, 83
INSULATORS:	
Antenna	S-8, 13, 30, 38, 40, 48, 51, 62, 74, 77, 78; T-8; U-76a, 76b, 102, 103
Beads	U-57
Bowls, Bushings	J-11, 39
Cone and Standoff	J-11, 39; S-30, 37, 62, 74; T-8; U-57
Feeder Spreader	J-11, 42; S-38; T-8
Nail-it Knobs and Screw-eye	S-8, 13, 30, 62, 74, 77, 78; T-8; U-76a, 76b, 102, 103
Strain, Airplane	J-11; S-37; U-57, 76b
Thru-Panel, Feed-Thru	J-39; S-37; U-57
Tubes, Rods, Pillars	J-39; S-30, 38, 78; T-10; U-57
Insuline Corporation of America	
Antennas	S-61 to 64
Cabinets, Racks, Panels	J-93 to 95
Hardware, Tools, Service & Amateur Aids	U-51 to 64
Television Accessories	K-12; S-62
Interchangeable Relays	L-15
INTERCOMMUNICATION SYSTEMS	B-8, 18, 19, 29, 30, 36, 39, 40; L-32
Interference Filters	J-25, 26, 60; P-22, 23, 36, 37, 59, 86, 104; R-13; U-61
Interference Filter Selector	P-104
International Resistance Co.	R-41 to 50
Interstage Coupling Unit	M-33
Inverters, Power	M-37, 38
Iron Testers	F-56, 57
Isolation Transformers	N-10, 21, 30, 36, 53, 57, 72, 76, 78, 79, 81

— J —

Jack Shields	J-18
Jack Switches	L-5, 9, 10
JACKS AND PLUGS	J-11, 38, 49, 79, 81; L-7, 10; S-36; T-4, 30; U-37, 51, 62, 65 to 70, 94
Jacks, Extension	L-7
Jacks—Long, Short, Midget, etc.	J-79; L-6, 7; U-51, 70
Jars, Glass and Plastic	J-38; S-34; T-4, 30; U-51, 67 to 70, 94
J-B-T Instruments, Inc.	U-35, 63, 97
Jennings Radio Mfg. Co.	F-54 to 59
Jensen Industries, Inc. (Needles)	P-88, 89
Jensen Manufacturing Co. (Speakers)	E-43, 44
Jerrold Electronics Corp.	C-7 to 12
Jewel Lights and Assemblies	S-65
JFD Manufacturing Co., Inc.	Section G; also U-72, 93
Johnson Co., E. F.	U-77 to 81
Amateur Gear	J-33 to 40
Antennas and Accessories	S-40
Dial Light Assemblies, etc.	G-21, 22
Speed-X Telegraph Keys	L-27, 28
Jones Plugs and Sockets (Cinch-Jones Sales)	T-19 to 28

— K —

"Knradio" Receivers	J-9
Ken-Rad Receiving Tubes	A-8
Kenotrons (Vacuum Rectifier Tubes)	A-4, 23
Kenyon Transformer Co., Inc.	N-23 to 26
Kester Solder Co.	U-12
Keying Break-Ins and Monitors	J-8, 73; U-61
Keying Relays	L-12, 16, 24, 26
Keys and Practice Sets, Telegraph	L-27 to 30
Keystone Electronics Co.	U-107
Kinescopes (Television Tubes)	A-1, 5 to 7
Klystrons (Reflex Tubes)	A-16
Knife-Throw Switches	S-29; U-58, 76b
Knob Puller Tool	U-89
KNOBES AND POINTERS—Dial, Instrument, etc.	J-12, 35, 46; M-34; U-30, 32, 56, 66, 89, 100, 103
Knob Felt Washers	U-38, 89, 106
Knobs for Auto Radios	U-89
Set Screws and Springs	U-39, 40, 89, 104, 106
"Koolohm" Resistors	P-63, 64
Krauter & Co., Inc.	U-13 to 16
"KVO" Capacitors	P-58
Kwikheat Mfg. Co.	U-9

GENERAL INDEX (Continued)

— L —

	Section & Page
Laboratory Test Equipment.....	Section F; also J-43, 44
Lacquers, Enamels, Paints, Varnishes.....	U-43, 44, 83 to 86
Laminated Switches.....	F-54
Lamp Cords and Fixture Wire.....	S-4, 8, 24, 26, 31, 33
Lamps, Dial and Panel.....	A-12, 14, 20; G-23
Lamps, Fluorescent, Adjustable.....	D-27
Lansing Sound, Inc., James B.....	C-30
Lapel Microphones.....	D-6, 8, 14, 24, 26, 35
LaPointe Plascomold Corp. ("Vec-D-X").....	S-73
Leach Relay Company.....	L-19 to 22
Latching Impulse Relays.....	L-12, 14, 15, 18, 22, 24, 26
Lead-in and Ground Wire.....	S-5 to 31
Lead-in Strips.....	S-11, 13, 30, 64
Lectrohm, Inc.....	R-9, 10
Lever-Action Switches.....	L-3, 9, 10
Lightning Arresters.....	S-11, 13, 30, 39, 62; T-8
Limit Switches.....	L-8
Line Cord Resistors.....	S-24, 34; U-61, 80, 81
Line Cords, AC-DC, for Fluorescents.....	U-81
Line Cords, Stepdown, for Radios, Razors.....	U-81
Line Voltage Regulators, Automatic (Ballasts).....	R-6, 17, 62; U-61
Link Coils.....	J-19, 36, 41 to 43, 80
Littelfuse, Inc.....	G-26 to 28
Litz Wire.....	S-13
Lock Washers.....	M-34; U-38, 62, 75, 105
Locks for Dials.....	J-12, 47
Loop Antennas.....	J-27; U-61
Lowell Metal Products Corp.....	C-29
Low Voltage "Tattelite" Neon Testers.....	G-26
L-Pad Attenuators.....	R-5, 30
Lubricants.....	E-31; U-42, 83
Luggage Fabric.....	U-86
Lugs—Terminal, Soldering, Tinned.....	J-35; S-14, 36; U-37, 60, 63, 71, 75, 76b, 103, 105, 107
Luminous Paints, Powders, etc.....	U-84
"Luxtron" Photocells.....	G-30

— M —

"Magic Eye" Assemblies & Accessories.....	J-47; K-2; T-1
Magnmotors.....	M-44
Magnecord, Inc.....	E-49, 50
Magnesium—Copper Sulfide Rectifiers.....	M-31
Magnetic Tape Recorders.....	B-21; E-47 to 50
Magnetic Relays.....	L-8, 23
Magneto Varnished Tubing.....	S-11
Magnet Wire.....	S-23, 33
Maguire Industries	
Meissner Mfg. Division.....	J-59 to 61
Thordarson Electric Mfg. Div.....	B-9, 10; N-31 to 34
Mallory & Co., Inc., P. R.	
Capacitors.....	P-25 to 41
Controls, Rheostats, Resistors.....	R-19 to 36
Service Manuals, Books.....	H-18, 19
Switches, Jacks, Plugs.....	L-1 to 7
Vibrators, Rectifiers, Battery Chargers.....	M-25 to 34
Manuals, Service and Instruction.....	Section H; E-36; J-60; N-34; P-4; R-46
Marine Speakers, Horns.....	Section C
Marine Receivers.....	J-4
Marion Electrical Instrument Co.....	F-63 to 66
"Masco" Sound Systems.....	B-11 to 21
Masonry Drills.....	U-76b, 103
Masts and Towers, Antenna.....	S-45, 51, 56, 67, 73, 77; T-8
Measurements Corporation.....	F-7 to 10
MEASURING INSTRUMENTS.....	Section F
Megacycle Meter.....	F-10
Megohmmeters and Bridges.....	F-12, 52, 73
Meissner Mfr. Division, Maguire Industries.....	J-59 to 61
"Melodic" Recording Blanks.....	E-37
Mercury-Switch Relay.....	L-26
Merit Coil & Transformer Corp.....	N-67 to 74
Metalace Corporation.....	S-76
Metal Cabinets, Racks, Panels.....	J-40, 69 to 74, 85 to 95
Metal Ornamental Grille.....	U-33
Metal Trim, Moulding.....	J-94
Meter Cases.....	J-74, 92, 94
Metered Transformers.....	N-53, 78, 79
METERS AND INSTRUMENTS.....	Section F
Meters, Frequency.....	F-22, 27, 58, 59; J-43, 44
Meters, Panel.....	F-18, 28, 32, 43, 44, 53, 58 to 71, 91, 92
Meters, Pocket.....	F-53, 68
Meters, Recording Level.....	B-23; F-10, 43
Meter Testers.....	F-64
Mica Capacitors.....	P-17 to 20, 38, 39, 59 to 62, 76, 77, 78, 92, 93, 102, 103, 110
Mica Capacitors, Silvered.....	P-17, 59, 76, 91, 92, 103; R-37
Microammeters.....	F-3, 28, 40, 44, 65 to 71, 92
MICROPHONES—Crystal, Dynamic, Velocity,	
Contact, Lapel, etc.....	Section D
Adapters, Connectors, Swivels.....	C-38; D-8; N-46; T-6, 12, 15, 16
Base Flanges & Extension Rods.....	U-68
Cable and Wire.....	S-1, 16, 25
Carbon Granules.....	U-84
Plugs and Jacks.....	L-7; U-51, 52
Stands.....	Section D; also C-23, 37, 38
Switches.....	D-16; T-7
"Third Hand".....	D-24, 40
Transformers.....	Section J; D-16, 20, 26
Middletown Mfg. Co.....	J-91, 92

	Section & Page
Midget Relays.....	L-11, 13, 14, 18, 20, 23, 26
"Midgetrol" Volume and Tone Controls.....	R-22
Millen Mfg. Co., Inc., James.....	J-44 to 50
Miller Company, J. W. (Coils).....	J-25 to 30
Miller Mfg. Co., Inc., M. A. (Needles).....	E-38, 39
Milliammeters, Millivoltmeters.....	F-23, 39, 40, 43, 44, 53, 65 to 71
Miniature Lamps.....	A-12, 14, 20; G-23
Miniature Lamp Tester & Tube Socket.....	T-5
Mini-Max Strips for Batteries.....	U-70, 103
Modulation Monitors, Meters.....	F-6, 27; J-10
Molded Switches.....	F-55
"Monoset" Earphones.....	D-29
Morse Code Learner's Phonograph Records.....	U-61
Motor Brush Noise Filters.....	P-36
Motorcycle Antennas.....	S-47, 52
Motorola Replacement Line Cord.....	U-80
Motorola Vibrator Capacitor Units.....	P-13, 56, 104
Motors, Fractional Horsepower.....	E-26
Motors, Turntables for Phonos & Recorders.....	E-2 to 7, 23 to 29
Motor-Starting Capacitors.....	P-24, 31, 68, 75, 84
Motor-Starting Capacitor Selector.....	P-31
Motor-Starting Relays.....	L-8, 13, 14, 17
Mueller Electric Company.....	M-21, 22
Multicore Sales Corp.....	U-31
Multimeters, Multitesters.....	Section F
Multiple Conductor Cable.....	S-1, 4, 16, 17, 25, 26, 32
Multiple Leaf Relays.....	L-18
Murray Hill Books, Inc., Technical Div.....	H-7 to 10
Musical Instrument Amplifiers, Microphones.....	B-20, 34; D-18, 24, 26
Mutual Conductance Tube Testers.....	G-14, 34, 45, 46, 81

— N —

Nail-it Knobs.....	S-8, 13, 30
Nails, Insulated Wiring.....	S-29; U-40, 97, 102
Name Plates.....	U-56
National Carbon Co., Inc. (Eveready).....	M-7 to 10
National Company, Inc.....	J-10a to 24
National Union Radio Corp.....	A-19, 20
Needle Cups for Phonographs.....	U-90
Needle Point Nose Pliers.....	U-14, 16, 17, 21
Needles—Cutting, Recording.....	E-2, 31 to 42; U-90
Needles—Playback, Phone.....	D-10, 12, 16a; E-2, 32 to 46; U-90
Neon Pocket Testers.....	G-26
Networks, Capacitor.....	P-65
Networks, Crossover—for Speakers.....	C-8, 10, 23, 33, 46
Neutralizing, Aligning Tools.....	U-25, 27, 46, 53, 54, 55, 73, 95, 96; also T-3
Neutralizing Capacitors.....	J-22, 35, 42, 50, 52, 54, 58, 78
Newcomb Audio Products Co.....	B-31 to 38
"Nobleby" Metallic Film Resistors.....	R-12
Noise Filters, Silencers.....	J-25, 26, 60; P-22, 23, 36, 37, 59, 80, 104; R-13; U-61
Noise Level Indicators.....	B-23; E-7; F-10, 43
Noise Suppressors, Amplifier & Phone.....	B-23, 24
Noise Suppressors, Auto Ignition.....	R-14, 18, 40, 43; S-35, 64; U-100
Null Indicators.....	F-52, 65
Nut Drivers, Wrenches.....	U-21 to 27
Nuts, Screws, Washers.....	M-34; U-35 to 40, 62, 63, 75, 89, 90, 103, 104

— O —

Oak Ridge Antenna Co.....	S-74
Ohmite Manufacturing Co.....	R-51 to 54
Ohmmeters.....	Section F
Ohm's Law Calculator.....	R-54
Oil and Gas Gauge Filter Capacitors, Auto.....	P-34, 56, 104
Oil Burner Suppressor.....	R-13
Olin Industries, Inc.....	M-15 to 20
Oscillator Coils.....	J-17, 26 to 29, 59, 60
OSCILLATORS, AUDIO.....	F-2, 6, 30, 32, 76; J-43; U-61
Code Practice.....	J-8, 73; U-61
Test.....	F-2, 26
Variable Frequency.....	J-4, 45
OSCILLOGRAPHS, OSCILLOSCOPES.....	F-2 to 6, 11, 20, 21, 28a, 29, 30, 49, 61, 85, 94, 97; J-44
Accessories.....	F-62; J-44
Cathode Ray Tubes.....	Section A; also F-62
Outlet Boxes, Covers, etc.....	J-79
Output Meters.....	B-23; F-10, 43
Output Transformers.....	Section N
Oven Temperature Testers.....	F-56
Overload and Underload Relays.....	L-13 to 26

— P —

P. A. Controls.....	Section R
P. A. Systems, Units.....	Section C
P. A. Wire and Cable.....	S-1 to 5, 22, 23, 32
Padding Capacitors.....	J-22, 29, 77; P-95; U-57
Paging and Call Systems.....	B-8, 18, 19, 29, 34, 39, 40; L-32
Paging and Talkback Speakers.....	C-9, 35, 44
Paints, Enamels, Lacquers, Varnishes.....	U-43, 44, 83 to 86
Panel Bearings, Assemblies.....	J-35, 79; S-37; U-59, 68, 76
Panel Boring Tools.....	U-25, 29, 52
Panel Indicators.....	Section G; also U-72
Panel Instruments.....	Section F
Panel Lamps.....	A-12, 14, 20; G-23
Panel Marking Transfers.....	J-46
Panel Meters.....	F-18, 23, 32, 43, 44, 53, 58 to 71, 91, 92
Panels, Aluminum.....	U-64
Panels, Bakelite.....	U-64, 92

GENERAL INDEX (Continued)

	Section & Page
Panels—Desk, Door and Grille.....	J-69, 70, 89
Panels, Masonite.....	J-70, 95
Panels, Metal Rack.....	J-40, 69, 70, 89, 92, 95
Panels, Meter.....	J-70, 89, 92, 95
Panels, Plastic.....	T-10
Panels, Speaker.....	J-89
Parasitic Suppressors.....	R-48
Park Metalware Co., Inc. (Xcelite).....	U-19 to 22
Par-Metal Products Corp.....	J-85 to 90
Peerless Electrical Products Div., Altec Lansing Corp.....	N-80 to 84
Penn Boiler and Burner Mfg. Corp.....	S-67
Permanent Magnet Speakers.....	Section C
Permoflux Corporation.....	C-17, 18
Petersen Radio Co., Inc.....	K-15 to 17
Phanotrons (Rectifier Tubes).....	A-4, 23
Philmore Mfg. Co., Inc.....	K-3, 4
Phone Cords.....	S-24, 34; U-45, 61
Phone Headsets.....	D-28 to 36; U-61
Phone Plug Adapters.....	T-7; U-51, 65
Phone Plugs, Connectors, Jacks.....	J-79; L-7, 10; S-36; T-4; U-37, 51, 65 to 70, 92, 94
Phone Tips, Jacks.....	S-34; T-30; U-37, 56, 67 to 70, 74, 94
PHONOGRAPHS, TRANSCRIPTION PLAYERS.....	B-18, 28, 35; E-2, 3, 7
Cabinets, Cases.....	E-24
Motors, Turntables, Assemblies.....	E-7, 23 to 29
Needle Cups.....	U-90
Needles, Playback.....	D-10, 12, 16a; E-2, 32 to 46; U-90
Parts, Accessories.....	U-35, 43, 44, 90, 92
Phono Wire, Shielded.....	S-5, 23, 35; U-45, 90
Pickups—See "Pickups"	
Record Changers.....	E-18 to 30
Rubber Drives.....	U-35, 88, 90, 103
Scratch Filters.....	B-36; J-98
Springs and Set Screws.....	U-35, 90, 92, 106
Stop Switch, Automatic.....	E-29
Stroboscope Discs.....	E-31, 45
Switches.....	U-61
Turntable Felts.....	U-44, 90
Phono Turntable Repair Stand.....	U-99
Phosphor Bronze Aerial Wire.....	S-9
Phosphor Bronze Dial Cable.....	S-10; U-87
Photo Cell.....	S-1, 23
Photo Electric Cells.....	G-30
Photo Electric Relays.....	L-9, 11, 17, 23
Photo Electric Units, Alarms.....	L-31, 32
"Photofact" Radio Data Service.....	H-13
Photoflash Capacitors.....	P-65, 79, 105
Photoflash Relays.....	L-17
Photoflash Power Transformers.....	N-53, 71
Phototubes.....	A-5, 6, 21, 35
Pickering & Co., Inc.....	E-11, 12
PICKUPS, PHONO AND TRANSCRIPTION.....	C-1; D-5, 9, 10, 11, 16a; E-4, 9 to 15
Adapters for Variable Reluctance Pickups.....	B-36
Replacement Cartridges.....	Section D; also E-4, 10, 12
Springs, Set and Mounting Screws.....	U-35, 90, 106
Tone Equalizers.....	D-9, 12, 19; E-11; N-48
Pillow Speakers.....	D-32, 36
Pilot Lamps, Bulbs.....	A-12, 14, 20; G-23
Pilot Light Contact.....	U-63
Pilot Light Installer & Remover Tools.....	G-10; U-93
PILOT LIGHTS AND ASSEMBLIES.....	Section G; also U-72, 93
Pin Plug & Jack Sets for Auto Antennas, etc.....	J-79; S-64; U-37, 52, 66, 74, 92, 94
Pin Straightener Tool for Tubes.....	U-99
Plaque, Vitrohm Resistors.....	R-59
Plastic Cement.....	U-41, 82
Plastic Dial Crystals.....	U-45, 88
Plastic Jars and Boxes for Hardware, etc.....	U-35, 97, 103
Plastic Molded Paper Tubular Capacitors.....	P-8, 72, 97
"Plasticon" Capacitors.....	P-79
Plastic Tubing.....	T-10; U-91
Plastic Window Pane.....	T-10
Plate Conductance Tube Testers.....	F-16, 34
Plate Transformers.....	Section N
Pliers.....	U-13 to 21, 103
Plotrons (High Vacuum Tubes).....	A-3, 22, 23
Plug Caps.....	T-4, U-74, 92
Plug-in Coils and Forms.....	J-49, 80; T-10; U-59
Plug-in Input Transformers.....	B-33; N-47
Plug-in Relays.....	L-11
Plug-in Resistors, Tube Type.....	A-5, 6, 9, 11, 18, 24; R-6, 63, 64; U-73, 79
Plug-in, Twist-Prong Capacitors.....	P-2, 3, 28, 46 to 52, 86, 100, 101
PLUGS AND JACKS.....	J-11, 38, 49, 79, 81; L-7, 10; S-36; T-4, 30; U-37, 51, 52, 65 to 70, 94
Plugs, Bakelite and Rubber-handle.....	U-74
Plugs, Battery.....	T-30; U-97
Plugs, Cord.....	T-12 to 16
Plugs, Fused.....	P-96
PLUGS, RECEPTACLES, SOCKETS.....	Section T; also J-37, 48; S-38
Plugs, Snap Button Hole.....	U-37, 105
Plugs, Soft Rubber.....	S-11
Plugs, Solderless.....	U-51, 67 to 70
Plugs, Speaker.....	T-5, 30
Plugs, Ventilating Hole.....	U-37, 97
Pocket Meters.....	F-53, 68
Polysterene Cement and Coil Dope.....	J-17; U-41
Polysterene Coil Forms, Insulators.....	J-11, 17; T-8, 10
Polysterene Sheet Stock, Window Pane.....	T-10
Porcelain Products, Inc.....	S-78
Potentiometers, Rheostats.....	Section R
Potter & Brumfield.....	L-17, 18

	Section & Page
POWER CONVERSION EQUIPMENT.....	Section M
Power Cords.....	S-24, 34; U-61, 80, 81
Power Level Indicators.....	B-23; E-7; F-10, 43
Power Plugs, Connectors, Receptacles.....	T-5
Power Relays.....	L-11 to 26
Power Resistors.....	Section R
Power Rheostats.....	R-5, 48, 51, 59, 67
Power Speakers.....	Section C
"Powerstat" Variable Transformers.....	M-55
Power Supplies, Packs.....	F-5; J-44, 46, 96; M-29, 36 to 56; N-12; P-20
Power Supplies, Rotary.....	M-43 to 48, 51
Power Supply and Square Wave Modulator.....	F-21
Power Switches.....	U-58, 70, 91
Power Transformers.....	Section N
Practice Sets, Telegraph.....	L-27 to 30
Pre-amplifiers, Boosters—for Amplifiers.....	B-2, 15, 19, 24, 31
Pre-amplifiers, Boosters—for TV Reception.....	K-1, 8, 9; S-65
Pre-Amplifiers, for Pickups, Cartridges.....	E-4, 11, 12
Pre-Amplifiers, for Receivers.....	J-45
Precision Apparatus Co., Inc.....	F-11 to 17
Precision Capacitors.....	J-23, 54
Precision Resistors.....	R-48, 53, 56, 57
Premax Products Div. Chisholm-Ryder Co., Inc.....	S-45 to 48
Premier Crystal Laboratories, Inc.....	K-13
Preselectors, Signal Boosters.....	J-8
Presto Recording Corporation.....	E-1 to 3
Probes for Electronic Meters, VTVM's, Oscilloscopes, etc.....	F-4, 15, 25, 35, 37, 42, 44b, 75, 98, 99
Projectors, Horns.....	Section C
Pulleys.....	U-59, 106
Pulse Generator.....	F-9
Pump, Vacuum Diffusion.....	A-30
Punches—Chassis, Panel.....	T-1; U-29, 52
Punches—Rivet, Eyelet.....	U-52, 95
Punches, Socket.....	T-1; U-29, 52
Push and Push-Button Switches.....	L-5, 10; U-58, 91
Pushback, Hookup Wire.....	S-5, 6, 7, 20, 21, 26, 31
"Pyranol" Capacitors.....	P-65 to 68
Pyrometers.....	F-57

— Q —

"Quad-Loop" Antennas.....	S-60
Quam-Nichols Company.....	C-15, 16
Q-Beam Antenna System.....	S-40
Q-Meters.....	F-52, 77, 78
"Quietone" Interference Filters.....	P-22, 23

— R —

Racks—Relay, Cabinet.....	J-69, 85 to 93
Racon Electric Co., Inc.....	C-19 to 23
Rad-El-Co Manufacturing Co.....	S-79, 80
Radiart Corporation, The.....	
Antennas.....	S-59, 60
Vibrators.....	M-49, 50
Radio Amateur's Handbook (ARRL).....	H-11
Radio City Products Co., Inc.....	F-83 to 86
Radio Corporation of America.....	
Amateur-Type Tubes.....	A-5, 6
Antennas and Accessories, TV.....	S-39
Batteries.....	M-5, 6
Cunningham Receiving Tubes.....	A-1
Non-Receiving Type Tubes.....	A-5, 6
Pickups, Crystal Replacement.....	C-1
RCA Receiving Tubes.....	A-7
Speakers.....	C-1
Television Components.....	K-10
Test and Measuring Equipment.....	F-1 to 5
Tube Manuals, Technical Literature.....	H-17
Radio Handbook (Editors & Engineers).....	H-15
Radio Manufacturing Engineers, Inc.....	J-7, 8
Radio Merchandise Sales, Inc.....	K-9; S-77
Radio Receptor Co., Inc. Seletron Div.....	G-32
Radio Service Encyclopedia (Mallory).....	H-18
Rauland Corporation.....	A-32
Ray-O-Vac Company.....	M-13, 14
Raytheon Mfg. Co., Receiving Tube Div.....	A-15 to 17
Reactors, Audio.....	Section N
Reamer Tools.....	U-20
RECEIVERS, COMMUNICATION.....	J-1 to 10d, 56
Receivers, Marine.....	J-4
Receivers Mobile, Auto.....	J-9, 10
Receiving Kits, AM-FM.....	J-61; K-5, 6
Receiving Kits, Television.....	K-2, 3, 7, 19
RECEIVING TUBES.....	Section A
Receptacles, Sockets, Plugs.....	Section T; also J-37, 48; S-38
Record-Changers.....	E-18 to 30
Record Cleaners, Preservers.....	E-31, 40; U-43, 90
RECORDERS.....	B-18; E-1 to 7, 16 to 22, 47 to 50
Disks and Needles.....	E-2, 31 to 42; U-30
Cutting Heads.....	D-36; E-9, 14
Frequency Record, for Checking Response.....	U-34
Mechanisms, Assemblies, Chassis.....	E-6, 18, 19, 29
Meters, Volume.....	B-23; E-7; F-10, 43
Motors, Turntables.....	E-2 to 7, 27, 29
Recording Amplifiers.....	B-18; E-3, 5
Stroboscope Discs.....	E-31, 45
Tape for Recording.....	E-48
Tape Recorders.....	B-21; E-47 to 50
Transcription Pickups.....	C-1; D-5 to 11; E-4, 9 to 15
Transcription Record-Players.....	B-18, 28, 35; E-2, 3, 7
Transformers, Crystal Recorder Output.....	N-6, 39, 46
Wire and Tape Recorder Units.....	E-16, 17, 20, 21, 47 to 50
Wire, Stainless Steel.....	E-32; U-100

GENERAL INDEX (Continued)

— S —

	Section & Page
Recording Equalizers—Filters.....	N-44, 48
Recordise Corp., The.....	E-31, 32
Record Players, Phono and Transcription.....	B-18, 28, 35; E-2, 3, 7
Record Player Switches.....	U-61
Rectangular Plugs and Sockets.....	T-5, 11, 19 to 21
Rectifiers, Instrument-Dry Disc.....	A-12; G-29 to 33; M-31, 32
Rectifiers, Replacement.....	M-32
Rectifier Tubes.....	Section A
Re-entrant Speakers, Trumpets.....	C-19, 20, 22
Reeves Soundcraft Corp.....	E-33, 34
Refrigerator Cabinet Patch Kits.....	U-85, 86
Regulators, Automatic Line Voltage, Plug-in (Ballasts)	R-6, 17, 62; U-61
Regulator Transformers and Controls.....	M-52 to 56;
	N-21, 30, 34, 45, 49, 53, 72, 76 to 82
Rek-O-Kut Co., Inc.....	E-5 to 7
Relay Racks, etc.....	J-69, 85 to 93
RELAYS	L-8 to 32
Antenna Changeover for Transmitters.....	L-12, 16, 21, 24, 26
Band Switching.....	L-24
Break-in.....	L-15, 16, 17, 24, 26
Capacitance.....	F-21
Circuit and Industrial Control.....	L-11 to 20
Coaxial.....	L-11
Electronic Control.....	L-9, 13, 17, 18, 23
General Purpose.....	L-8, 13, 19, 26
High Frequency and R.F.....	L-12, 16, 21, 22, 26
Interchangeable.....	L-15
Keying.....	L-12, 16, 24, 26
Latching, Impulse.....	L-12, 14, 15, 18, 22, 24, 26
Magnetic.....	L-8, 23
Mercury-Switch.....	L-26
Midget.....	L-11, 13, 14, 18, 20, 23, 26
Motor-Starting and Control.....	L-8, 13, 14, 17
Multiple Leaf.....	L-18
Overload and Underload.....	L-13, 15, 16, 18, 22, 24, 26
Photo Electric, Sensitive.....	L-9, 11, 17, 23
Photoflash.....	L-17
Plug-in.....	L-11
Power.....	L-11 to 26
Remote Control.....	L-15, 16, 18, 23, 26
Safety—for Amateur Rig.....	L-24
Telephone.....	L-11, 15, 26
Time Delay, Thermostatic Delay.....	L-12, 15, 22, 24, 25, 26
Remote Control Box for Amplifiers.....	B13,14
Remote Control Cables, Shafting—for Autos.....	U-77
Remote Control Relays.....	L-15, 16, 18, 23, 26
"Remote-O-Cable Replacer" Machine.....	U-77
Repair Cements.....	U-41, 82, 83
Repair Kits for Cabinets.....	U-44, 85, 86
Reproducers, Speaker.....	C-11, 23
Reproducers, Transcription.....	E-4 to 15
Resistance Analyzers, Indicators, Meters.....	F-53, 67, 74;
	P-54, 108; R-3, 57
RESISTORS, FIXED & ADJUSTABLE	Section R; also P-63, 64
Bleeder.....	R-48
Carbon.....	P-108; R-11
Disc ("Discohm").....	R-62
Flexible.....	M-33; R-6
Fluorescent Lamp.....	R-62
Line Cord.....	S-24, 34; U-61, 80, 81
Plaque Vitrohm.....	R-59
Plug-in Tube Type (Ballasts).....	A-5 to 11, 18, 24;
	R-6, 17, 62 to 64; U-61, 78, 79
Precision.....	R-48, 53, 56, 57
Strip.....	R-62
Vitrohm Enamel.....	P-108; R-34, 35, 36, 52, 53, 59 to 62, 68, 69
Wire Wound.....	P-63, 64, 108; R-7 to 10, 15, 41, 42, 53, 56, 65, 66
Resistors, Inc.....	R-65, 66
Restaurant Amplifier.....	B-34
Retainer Ring Tools for Socket Assembly.....	T-1
Retaining Rings and "C" Washers.....	U-38, 105
R.F. CHOKES, COILS.....	J-15, 25, 26, 32, 35, 48, 60, 78, 79;
	P-36; R-10, 54, 66; U-56
RHEOSTATS—POTENTIOMETERS	Section R
Rheostats, Power.....	R-5, 48, 51, 59, 67
Rider Publisher, Inc., John F.....	H-1 to 6
Right Angle Drives for Switches, Potentiometers, etc.....	J-15, 47
Rivets, Eyelets.....	U-36, 52, 62, 106
Punches for Rivets, Eyelets.....	U-52, 95
"RME" Receivers.....	J-7, 8
Rogan Brothers.....	U-32
Roller-Smith Instruments.....	F-71
Roller Trucks, Dollies—for Cabinets.....	J-72, 88
Rotary Power Supplies.....	M-43 to 48, 51
Rotary Switches.....	F-54, 55; L-2, 3, 10; R-3, 18, 57; U-58, 91
Rotator and Rotary Beam Antennas.....	S-40, 46, 70, 73, 75
Rotator TV-FM Cable.....	S-8
"Roto Ranger" Set Analyzer.....	F-42
Rubber and Bakelite Plugs.....	U-74
Rubber Cement.....	U-41, 82
Rubber Chassis Mounts.....	U-36, 106
Rubber Drives for Radios, Phonos.....	U-35, 88, 90, 103
Rubber Feet.....	U-36, 74, 106
Rubber Grommets, Gaskets, etc.....	U-36, 64, 72, 92, 106
Rubber Plug Handle.....	T-3
Rubber Plugs, Unbreakable.....	S-11
Rubber Standoff Insulators.....	S-30, 62, 77; U-76b
Rubber Washers, Bumpers.....	U-36, 74, 106

	Section & Page
Safety Relay for Amateur Rig.....	L-24
Sams & Co., Inc., Howard W.....	H-13, 14
Sangamo Electric Co.....	P-69 to 78
Schauer Manufacturing Corp.....	M-42
Battery Eliminators, Chargers.....	G-31
Rectifiers.....	U-33 to 50d
Schott Co., Walter L. (Walsco).....	B-36; J-26
Scott, Inc., Herman Hosmer.....	B-23
Scratch Filters for Pickups, Records.....	U-43, 84, 85, 86
Scratch Removers, Polishes.....	U-19 to 27, 53
SCREW DRIVERS.....	U-53, 95
Flexible.....	U-53, 95
Neutralizing, Alignment.....	U-46, 54, 73, 95, 96
Screw-Holding.....	U-22, 87
Screw-Eye Insulators.....	S-13, 30, 62, 74, 77; T-8; U-76a, 102
SCREWS, NUTS, WASHERS.....	M-34; U-35 to 40, 62, 63, 75,
	89, 90, 103, 104
Escutcheon Plate Screws.....	U-39, 62, 104
Machine Screws.....	U-39, 62, 75, 104
Ornamental Head Screws.....	U-39, 75, 104
Rack Screws.....	U-39, 62, 75, 104
Self-Tapping, Parker-Kalon Screws.....	U-39, 62, 103
Set Screws for Knobs, Pickups, etc.....	U-35, 39, 89, 90, 104
Wood Screws.....	U-39, 103, 104
Selector Switches.....	F-54, 55; L-2, 3; R-57
Selenium Rectifiers.....	A-12; G-30, 32, 33
Electrolytic Rectifiers.....	F-51
"Seletron" Rectifiers.....	G-32
SERVICE AIDS, MISCELLANEOUS	Section U
Service and Instruction Manuals.....	Section H; also E-36; J-60;
	N-34; P-4, 20; R-46
Set Analyzers.....	Section F
Shaft Couplings, Extenders, Reducers.....	J-15, 35, 47, 55, 58, 81;
	R-33, 46; S-36, 37; U-38, 59, 64, 68, 76, 101
Shaft Cutting-and-Fitting Machine for Auto Controls.....	U-77
Shaft Locks.....	J-47, 55
Shafting and Casings for Auto Remote Controls.....	U-77
Shafts, Extension.....	R-33, 46; S-36
Shafts, Flexible.....	J-35, 81; R-33; S-38
Shalleross Mfg. Co.....	R-55 to 58
Shielding, Copper, Braided.....	S-5, 15
Shields and Shield Cans:	
Box Shields.....	J-73
Coil Shields.....	J-18; U-58
Interstage Shields.....	J-71
Jack Shields.....	J-18
Tube Shields.....	J-18, 45, 47; T-2; U-58, 76
Shims, Speaker.....	U-35, 99
Shure Brothers, Inc.....	D-13 to 16b
Shurite Meters.....	F-53
Signal Calibrators.....	F-1, 20, 22; J-44
Signal Corps Phone Jacks, Plugs.....	L-7; U-51, 65, 66
Signal Generators.....	Section F
Signal Indicator Corp. (Dial Light Co. of America).....	G-1 to 10
Signal Indicators.....	Section G; also U-72
Signal Tracer Testers.....	F-10, 47, 75, 84, 93, 96, 99; J-60
Silicon Crystal Diodes.....	A-12
Silicone Compound.....	U-83, 102
Silver Mica Capacitors.....	P-17, 59, 76, 91, 92, 103; R-37
Simpson Electric Company.....	F-33 to 44b
Simpson Mfg. Co., Inc., Mark (Masco).....	B-11 to 21
Sine Wave Clipper.....	J-43
Single Side Band Selector.....	J-45
Sleeving, Coated, Saturated, etc.....	S-11; U-59, 91
Slide Rule Dials.....	J-28
Slide-Type Switches.....	R-18; U-58, 66, 70, 91
Smith, Inc., Herman H.....	U-69 to 76b
Snap-Action Switches.....	L-8
SNC Mfg. Co., Inc.....	N-27 to 30
Socket Punches.....	T-1; U-29, 52
SOCKETS AND PLUGS	Section T; also J-14, 37, 48; S-38;
	U-57, 58, 66, 92
For Crystal Holders.....	J-18; T-4, 29
For Dial Lights.....	G-8, 17 to 22; U-72, 93
For Panel and Sub-Panel Assemblies.....	T-2; U-57, 92
For Receiving Tubes.....	T-1, 2, 29; U-57, 66, 92
For Television and Cathode Ray Tubes.....	T-1, 6, 29
For Transmitting, Acorn, Industrial, Special Purpose Tubes.....	J-14, 37, 48; S-38; U-57, 58
Socket Wrenches.....	U-22, 26, 53, 101
Sola Electric Company.....	M-52, 53
Solder, Solder Flux, Solder Paste.....	U-12, 28, 31, 42, 83, 84
Soldering and Terminal Lugs.....	J-35; S-14, 36; U-37, 60, 63,
	71, 75, 76b, 103, 105, 107
SOLDERING IRONS, GUNS, PENCILS	U-1 to 11, 53; also K-2
Coolant and Flux Attachment.....	U-97
Replacement Elements.....	U-53
Replacement Tips.....	J-79; M-34; U-1 to 9, 53, 98
Stands, Pots, Heat Controls.....	U-1 to 4
Tip Compound.....	U-84
Soldering Wire Couplers.....	U-97
Solvents, Thinners.....	U-41, 82
Somerset Laboratories, Inc.....	B-24
Sound Level Indicators.....	B-23; E-7; F-10, 43
Sound System Cable.....	S-1 to 5, 22, 23, 32
SOUND SYSTEMS	Section B
Spacers, Metal and Insulating.....	U-38, 64, 101
Spade Lugs, Bolts.....	U-36, 52, 69, 76, 104
Spaghetti Tubing.....	S-11, 33; U-45, 57, 91
Spark Plug Suppressors, Auto.....	R-14, 18, 40, 48;
	S-35, 64; U-100

GENERAL INDEX (Continued)

- T -

	Section & Page
SPEAKERS, HORNS, PROJECTORS, TRUMPETS	Section C
Baffles, Cabinets, Enclosures.....	C-4, 11, 29, 30, 34, 36, 72, 74
Cable, Wire.....	S-2, 25, 32
Carrying Cases.....	J-72, 88, 94
Cement, Repair.....	U-41, 82
Cone Patches.....	U-36
Cone Reconditioning Fluid.....	U-85
Cords, Extension.....	S-34
Dust Felts.....	U-36, 106
Field Substitute Choke.....	N-10
Grille Cloth and Screening.....	U-33, 86
Moisture-Repellent Fluid.....	U-41, 83
Networks, Crossover.....	C-8, 10, 23, 33, 46
Panels.....	J-89
Plugs.....	T-5, 30
Reproducers.....	C-11, 23
Shims.....	U-35, 99
Stands, Supports.....	C-21, 36
Test Speakers.....	F-76, 93
Transformers.....	Section N
Volume Controls, Power.....	C-10, 36
"Speed-X" Telegraph Keys.....	L-27, 28
"Spintite" Wrenches.....	U-23 to 26
Spirling Products Co., Inc.....	S-68
Sprague Products Company.....	P-49 to 64
Spring, Friction Washers.....	U-38
Spring Maker Machine.....	U-100
Springs, Expansion and Compression.....	U-40, 106
Square Roof Mfg. Corp.....	S-69, 70
Square Wave Generators.....	F-9, 21, 76, 94; J-43
"Stabiline" Automatic Voltage Regulators.....	M-56
"Staco" Relays & Transformers.....	L-26; N-77 to 79
"Stanco" Transformers.....	N-3 to 16
Standard Arceturus Corp.....	A-18
Standard Electrical Products (Staco).....	L-26; N-77 to 79
Standard Transformer Corp. (Stanco).....	N-3 to 16
Stands, Microphone.....	Section D; also C-23, 37, 38
Stands, Supports-Speaker.....	C-21, 36
Stanwyck Winding Co.....	J-32
Staple Driver Tool.....	U-33
Staple Driver Staples.....	U-33, 97
Staples, Insulated.....	U-97
Star Measurements Co.....	F-90
Stepdown Line Cords.....	U-81
Stepdown Resistor Ballasts.....	U-79
Stepdown Transformers.....	M-41; N-10, 36, 53, 64, 72 to 81
Stephens Mfg. Corp. (Tru-Sonic).....	C-31 to 34
Sterling Manufacturing Co., The.....	F-67, 68
Stevens-Walden, Inc. (Spintite).....	U-23 to 26
Stock Cabinets, Metal.....	U-97
Strip Resistors.....	R-62
Stroboscopes for Phono Turntables.....	E-31, 45
Stroboscopes (Tubes).....	A-12
Subminiature Radio Tubes.....	A-17
Superior Electric Company (Seco).....	M-55, 56
Superior Instruments Co.....	F-95, 96
SUPPRESSORS, NOISE	J-25, 26; P-22, 23, 36, 37, 59, 86, 104; R-13; U-61
Auto Ignition.....	R-14, 18, 40, 48; S-35, 64; U-100
Oil Burner.....	R-13
Parasitic.....	R-48
Supreme, Inc.....	F-29 to 32
Sweep Calibrators for Oscilloscopes.....	F-1, 20, 22; J-44
Sweep Frequency Generators.....	E-15; F-28a, 28b, 75; K-1, 8
Swinging Input Chokes, Reactors.....	N-11, 25, 34, 42, 49, 51, 58, 72, 74, 76, 81
Switchcraft, Inc.....	L-10
SWITCHES	A-30; D-16; F-54, 55, 62; J-28, 41, 42, 80; L-2 to 10; R-3, 18, 54, 57; T-5, 7; U-58, 66, 70, 76b, 91
Band, Band Selector.....	J-28, 41, 42, 80; L-4
Cam-Lever.....	L-9
Circuit-Opening.....	L-4
Electronic, for Oscilloscope.....	F-62
Foot.....	L-9
Jack.....	L-5, 9, 10
Knife-Throw.....	S-29; U-58, 76b
Lever Action.....	L-3, 9, 10
Limit.....	L-8
Microphone.....	D-16; T-7
Power, Heavy Duty.....	U-58, 70, 91
Push, Push-Button, Single.....	L-5, 10; U-58, 91
Push-Button, Multiple.....	L-4, 9
Record-Player, Phono.....	U-61
Rotary Selector.....	F-54, 55; L-2, 3; R-57
Rotary Snap.....	L-10; R-3, 18; U-58, 91
Rotary Tap.....	R-54
Slide Type.....	R-18; U-58, 66, 70, 91
Snap-Action, Spring-Return.....	L-8
Tap, Tap-Change.....	L-3; T-5
Toggle.....	U-58; 70, 91
Vacuum.....	A-30
Sylvania Electric Products, Inc.....	
Non-Receiving Tubes.....	A-11, 12
Panel Lamps.....	A-12
Receiving Tubes.....	A-9, 10
Test Equipment.....	F-6
Synchroscopes.....	F-20, 21; J-44

	Section & Page
"Taco" Antenna Equipment.....	S-41 to 44
Talk-A-Phone Company.....	B-39, 40
Tap Switches.....	L-3; T-5
Tape, Friction.....	U-91
Tape Recorders.....	B-21; E-47 to 50
Taylor Tubes, Inc.....	A-25, 26
Tech-Master Products Co.....	K-19, 20
Technical Appliance Corp. (Taco).....	S-41 to 44
Techno-Scientific Co. (Square Root Mfg. Co.).....	S-69, 70
Tektronix, Inc.....	F-94
Telegraph Apparatus Co.....	U-65 to 68

TELEGRAPH KEYS AND PRACTICE SETS	L-27 to 30
Accessories, Parts.....	L-27
Buzzers.....	L-27, 28
Monitors.....	J-8, 73; U-61
Morse Code Linguaphone Records.....	U-61
Oscillators, Code Practice.....	J-8, 73; U-61
Relays.....	L-12, 16, 24, 26

Telescoping Vertical Antennas.....	S-45, 47
Television Assembly Co.....	K-7

TELEVISION COMPONENTS, ACCESSORIES:	
Antennas and Accessories.....	J-10; K-2, 12; S-28 to 30, 39 to 80; T-7, 8; U-64, 76a, 76b, 102, 103
Ballasts.....	R-6
Beam Bender for 10" Tubes.....	R-4
Boosters, Amplifiers, Pre-amplifiers.....	K-1, 8, 9; S-65
Cable for Antenna Rotators.....	S-8
Capacitors.....	K-4, 20; P-14 to 16, 35, 40, 52, 86 to 97, 110
Coaxial Cable.....	G-33; S-8, 25, 32, 58, 62; T-9
Coaxial Switch.....	S-58
Coils, Chokes.....	K-4, 10, 20; N-1, 3, 64
Compass for Antenna Installation.....	F-44b
Field Strength Meter.....	K-1
Hardware Items.....	K-4, 8, 12, 20
Kits, Chassis.....	K-3, 4, 7, 19, 20
Manuals.....	H-2, 7, 9, 14, 18, 20
Magic Eye Kits.....	K-2
Picture Magnifiers, Lenses.....	E-40; K-2, 9
Power Connector Cord.....	S-8
Power Converters DC to AC.....	M-47
Remote Control Unit.....	K-1
Resistors, Voltage Dividers.....	K-4, 20; M-33
Testing Equipment.....	Section F; K-1, 8
Tools, Service Kits.....	K-12; U-46, 55, 96, 102, 103
Transformers.....	Section N; also J-26; K-4, 10, 20
Tubes (Picture).....	A-1, 5, 6, 7, 11, 20, 32; K-2
Tube Sockets.....	T-2, 6, 29
Tuning Units.....	F-44b; K-1, 4, 8, 10, 20; M-33; R-33
Turntable for Receivers.....	K-12
Twin Lead Wire.....	S-8, 25, 32, 62; T-8; U-102
Vision Filters.....	K-2, 9, 12; S-29
Volume and Focusing Controls.....	K-4, 10, 20; R-46
Wire and Cable.....	G-33; S-5, 8, 25, 26, 32
Yokes.....	K-4, 10, 20; N-1, 3

Television Receiving Kits, Chassis.....	K-2, 3, 7, 19
Telex, Inc.....	D-29 to 32
Telrex, Inc.....	S-71, 72
Temperature Indicators, Testers.....	F-41, 56, 57
Terminal and Soldering Lugs.....	J-35; S-14, 36; U-37, 60, 63, 71, 75, 76b, 103, 105, 107
Terminal Clips, Plates, Strips.....	J-11, 28, 49; T-23 to 28; U-37, 60, 71, 92, 106
Terminal Strips, Barrier Type.....	T-23 to 25; U-71
Terminal Posts.....	J-49; T-30; U-51, 69, 70
Test Adapters.....	F-86; T-5
Test Clips.....	J-79; M-21, 22; S-34
Test Craft Instrument Co.....	F-93
Test Leads, Prods, Handles.....	J-81; S-34; U-54, 55, 68, 73, 94, 107
Test Lites.....	U-54, 98
Test Oscillators.....	F-2, 26
Test Prod Wire.....	S-5, 23, 26, 31, 34; U-55, 94
Test Records for Adjusting Phones, etc.....	U-34

TESTING INSTRUMENTS AND ANALYZERS	Section F
Appliance Testers.....	F-25, 41, 51, 56, 69
Battery Testers, Meters.....	F-13, 16, 37, 60, 68, 89
Capacitor Analyzers.....	F-74; P-21, 54, 109
Capacitor-Resistor Analyzers.....	F-74; P-54, 109
Complete Lab. Bench and Rack Units.....	F-35, 85
Demonstrator, Working Schematic.....	F-5
Meter Testers.....	F-64
Multimeters, Multitesters.....	F-6, 31, 66, 72, 83 to 99
Neon Glow Testers.....	G-26; U-99
Oscillators, Signal Generators.....	F-1, 5 to 12, 26, 28a, 30, 36, 44a, 47, 48, 72 to 80, 84, 93, 95, 99
Oscillographs, Oscilloscopes.....	F-2 to 6, 11, 20, 21, 28a, 29, 30, 49, 61, 85, 87, 94; J-4
Signal Tracers.....	F-10, 47, 75, 84, 93, 96, 99; J-60
Television Testers.....	F-1, 2, 3, 6, 9 to 15, 24, 28a, 28b, 33, 44a, 44b, 47, 72, 75, 76, 85, 90, 95; K-1, 8
Temperature Testers.....	F-41, 56, 57
Test Speakers.....	F-76, 93
Tube Testers, Checkers.....	F-6, 13, 14, 16, 24, 29, 34, 35, 45, 46, 69, 81 to 96
Voltage Breakdown Testers.....	U-98

GENERAL INDEX (Continued)

	Section & Page
Test Switches.....	Section L
Tetrachloride Cleaning Fluid.....	U-42, 83
Thermador Electrical Mfg. Co., Inc.....	N-61 to 66
Thermostatic Delay Relays.....	L-24, 25
Thordarson Electric Mfg. Div., Maguire Industries	
Amplifiers.....	B-9, 10
Transformers.....	N-31 to 34
Threaded Brass and Steel Rods.....	U-39, 76, 104
Thyratrons (Rectifier Tubes).....	A-3, 5, 12, 21, 33
Time Delay Relays.....	L-12, 15, 22, 24, 25, 26
Timers, Electronic.....	L-9, 17
Tip Jacks, Plugs.....	J-38; S-34; T-4, 30; U-51, 67 to 70, 94
Tire Static Neutralizing Kits.....	U-46, 100
Toggle Switches.....	U-58, 70, 91
Tone Controls.....	Section R; also N-9
Tone Equalizers—Pickup, Amplifier.....	D-9, 12, 19; E-11; N-48

TOOLS AND TOOL KITS.....	Section U; also T-2, 6
Neutralizing, Alignment.....	T-6; U-25, 27, 46, 53, 54, 55, 73, 95, 96
Television.....	K-12; U-46, 55, 96, 102, 103
Toroid Coil Filters.....	N-45
Toroid Inductors.....	N-43, 60
T-Pad Attenuators.....	R-5, 30
Transcription Players.....	B-18, 28, 34; E-2, 3, 7

TRANSFORMERS:

Audio, Input, Output.....	Section N; also Section C
Auto.....	M-55; N-10, 25, 34, 36, 45, 49, 53, 57, 72 to 82
Bias.....	N-12, 17, 49, 51
Blocking Oscillator.....	N-68, 73
Cathode Ray Tube.....	N-80
Constant Voltage.....	M-52, 53, 56
Crystal Recorder Output.....	N-6, 39, 46
Driver.....	N-8, 15, 19 to 23, 31, 35, 40, 49, 66, 69, 73, 75, 83
Filament.....	N-13 to 41, 49 to 52, 62, 71 to 81
Filter, Audio, Swinging Chokes.....	Section N
High Fidelity Audio.....	N-7, 16, 18, 20, 35, 47, 60, 65, 66
Input, Plug-in.....	B-33; N-47
Interstage Audio.....	N-1, 8, 16, 21, 31, 35, 39, 46, 48, 63, 69, 75, 82, 83
Isolation.....	N-10, 21, 30, 36, 53, 57, 72, 76, 78, 79, 81
Isotop Isolation.....	F-4
Microphone and Line.....	N-9, 23, 35, 38, 39, 40, 46, 69, 75
Mixing.....	N-16, 35, 39
Modulation.....	N-14 to 39, 49, 50, 70, 73, 75, 83
Photoflash Power.....	N-53, 71
Plate Supply.....	N-12, 20, 30, 39, 41, 49, 51, 71, 74, 80
Plate-Filament Combined.....	N-17, 25, 36, 41, 51, 80
Power.....	Section N
Reactors.....	N-1, 11, 17 to 27, 34, 45, 57, 58, 72 to 83
Speaker Matching.....	N-22, 35, 82
Stepdown, Stepup.....	M-41; N-10, 36, 53, 64, 72, 74, 76, 79, 81
Television.....	J-26; K-4, 10, 20; N-1, 3, 22, 36, 53, 54, 64, 76, 80
Transceiver.....	N-9, 53
Tube-Checker.....	N-4
Variable.....	M-55; N-78
Vibrator Power.....	N-4, 29, 33, 36, 56, 71, 74, 77, 80
Voltage Adjuster, Control.....	M-52 to 56; N-21, 30, 34, 45, 49, 53, 72, 76, 78, 79, 82
Transmission Line Cable.....	S-2, 3, 10, 18, 19, 32, 51; T-8

TRANSMITTERS.....	J-45, 46, 96
Kits.....	J-96
Metal Racks, etc.....	J-69, 85 to 93
Power Amplifiers.....	J-46
Variable Frequency Oscillator.....	J-4

Transmitting Capacitors, Fixed.....	Section P
Transmitting Capacitors, Variable.....	J-20 to 24, 33, 34, 43, 50 to 58, 75

Transmitting Chokes.....	Section N; also J-16, 25 to 35, 48, 60, 78, 79; P-36; R-10, 54, 66; U-56
--------------------------	--

Transmitting Coils and Forms.....	J-18, 25 to 49, 80; T-6; U-59
Transmitting Relays.....	L-12, 14, 16, 21, 23, 24
Transmitting Tubes.....	A-3 to 6, 11, 14, 16, 20 to 34

Transvision, Inc.....	K-1, 2
Trim for Metal Cabinets.....	J-94
Trimm, Inc.....	D-33, 34
Trimmer Capacitors.....	J-57, 58, 77, 78; P-35, 96
Trimount Fasteners, Snap-in.....	U-38, 105
Triplet Electrical Instrument Co.....	F-23 to 28b

Trumpets and Horns.....	Section C
"TruSonic" Speakers.....	C-31 to 34
Tube Adapters.....	F-86; T-5
Tube Clips, Caps, Grips, Clamps.....	J-15, 36, 49; S-38; T-5; U-37, 58, 60, 76, 105

Tube Extractor Tools.....	U-33, 99
Tube Heat Radiating Connectors.....	A-30; J-74
Tube Mounting Accessories for 16" TV.....	T-4
Tube Pin Straightener Tool.....	U-99
Tube Puller Tools.....	U-33

TUBES.....	Section A
Cathode Ray.....	A-5, 6, 11; F-62
High Vacuum Capacitor Type.....	A-28 to 30; P-88, 89
Phototubes.....	A-5, 6, 21, 35
Receiving.....	A-1 to 31
Rectifier.....	A-3 to 6, 12, 16, 21 to 36
Resistor, Voltage Regulating.....	A-5, 6, 9, 11, 18, 24; R-6, 63, 64; U-78, 79

Subminiature.....	A-17
Television Picture.....	A-1, 5 to 7, 11, 20, 32; K-2
Transmitting, Industrial, Amateur.....	A-3 to 6, 11, 14, 16, 20 to 34

Tube Shields.....	J-18, 45, 47; T-2; U-58, 76
Tube Sockets, Receiving.....	T-1, 2, 29; U-57, 66, 92
Tube Sockets, Television & Cathode Ray.....	T-1, 2, 6, 29
Tube Sockets, Transmitting, Industrial.....	J-14, 37, 49; S-38; T-1, 2; U-57, 58

Tube Testers, Checkers.....	Section F
Tube Tester Transformers.....	N-4

Tubing—Flexible, Varnished (Spaghetti).....	S-11, 33; U-45, 57, 91
Tubing—Plastic, Bakelite, Fibre.....	T-10; U-59, 73, 91

Tubular Cardboard, Paper and Metal Capacitors.....	Section P
Tuner Kits, P.A., Receiver.....	J-29, 30, 61; K-2, 6
Tuners—FM, AM, TV.....	F-19; J-61; K-2, 5, 6, 8

Tung-Sol Lamp Works, Inc.....	A-13, 14
Tuning Dials.....	J-28, 46, 73; U-56
Tuning Units, Assemblies.....	K-1, 4, 8, 10, 20; M-33

Tuning Wands.....	U-46, 96
Turnbuckles for Guy Wires.....	K-12; S-30; U-76b, 102
Turner Company, The.....	D-21 to 24

Turntable Felts.....	U-44, 90
Turntable Repair Stand.....	U-99
Turntables and Motors, Phonograph.....	E-7, 23 to 29

Turret Assemblies for Band Switching.....	J-41, 80
Tweeter Speakers.....	C-23, 46
Tweezers and Tweezer Kits.....	U-46, 100

Twin Lead Wire for Television and FM.....	S-8, 25, 32, 62; T-8; U-102
Twin Lead Wiring Nails.....	S-29; U-40
"Twist-Lok" Capacitors.....	P-50 to 52

— U —

Underload and Overload Relays.....	L-13 to 26
Ungar Electric Tools, Inc.....	U-10
United Transformer Corp.....	N-37 to 53
University Loudspeakers, Inc.....	C-43 to 46
Utah Speakers.....	C-27, 28
Utica Drop Forge & Tool Corp.....	U-17, 18

— V —

Vaco Products Company.....	U-27
Vacuum Cleaner Belts.....	U-100
Vacuum Tube Frequency Meters.....	F-59
Vacuum Tube-Type Capacitors.....	A-28 to 30; P-88, 89
Vacuum Tube Voltmeters.....	F-10, 12, 37, 52, 81, 97, 98
Variable Frequency Oscillator.....	J-4
Variable Inductors.....	N-42
Variable Receiving and Tuning Capacitors.....	J-22, 23, 24, 33, 34, 51, 57, 58, 76, 77, 78; U-57

Variable Reluctance Cartridges.....	E-4
Variable Resistors, Rheostats.....	Section R
Variable Transmitting Capacitors.....	J-20 to 24, 33, 34, 43, 50 to 58, 75

Variable Voltage Transformers.....	M-55; N-78
Varnished Tubing, Spaghetti.....	S-11, 33; T-10; U-45, 57, 91
Varnishes, Lacquers, Paints, Enamels.....	U-43, 44, 83 to 86

"Vee-D-X" Antennas.....	S-73
Velocity Microphones.....	D-19, 22, 26
Vernier Dials.....	J-12, 13, 46, 73

VHF Converter for Communication Receivers.....	J-7
VHF Oscillator Kit.....	J-54
"Vibrapak" Power Supplies.....	M-29

Vibrating Reed Frequency Meters.....	F-58, 59
Vibration Pickups, Microphones.....	D-18, 24, 26, 35
Vibrator Buffer Capacitors, Auto.....	P-13, 34, 56, 104
Vibrator Power Supplies, Packs, Converters.....	M-29, 49; P-20

VIBRATORS, AUTO RADIO.....	M-26 to 28, 35, 49, 50, 54
Vibroplex Co., Inc., The.....	L-29, 30
"Vidocoupler".....	M-33

Viewing Hood for Oscillograph.....	F-62
Vinylite Cement.....	U-41, 82
Vision Research Laboratories, Inc.....	K-8
"Vitrohm" Resistors and Rheostats.....	R-59 to 62

V-M Corporation.....	E-30
Voice Coil Dust Felts.....	U-36, 106
Voice Coil Lead Wire.....	S-14
"Volometer" Test Instruments.....	F-82

Voltage Adapters, Foreign, Export.....	N-53
Voltage Breakdown Tester.....	F-74
Voltage Calibrator.....	F-62
Voltage Dividers, Resistors.....	Section R
Voltage Regulators (Ballasts).....	R-6, 17, 62 to 64; U-61, 78, 79
Voltage Regulator Transformers, Controls.....	M-52 to 56;

N-21, 30, 34, 45, 49, 53, 72, 76 to 82	
Voltage Transformers, Constant.....	M-52, 53
Voltmeters, Voltohmmeters, etc.....	Section F
Voltohmysts.....	F-3, 4

Volume and Tone Controls.....	Section R
Volume Control Hardware.....	R-32, 33, 46
Volume Control Wrenches.....	R-32; U-53
Volume Level Indicators.....	B-23; E-7; F-10, 43

GENERAL INDEX (Concluded)

— W —

	Section & Page
Wafer Sockets	J-14, 37; T-29; U-57, 92
"Walco" Needles	E-46
"Walden Worcester" Tools	U-23 to 26
Wall Plates, Receptacles	T-12 to 16; U-66
"Walseo" Service Aids	U-33 to 50d
Ward Leonard Electric Co.	
Relays	L-23, 24
Resistors and Rheostats	R-59 to 62
Ward Products Corp., The	S-49 to 54
Washers, Nuts, Screws	M-34; U-36 to 40, 62, 63, 75, 89, 90, 103 to 105
Waterproof Electric Co. (Gon-Set Co.)	J-10
Wattmeters	F-27, 41, 43, 51
Wave Meters	F-37; J-31, 44
Wave Traps	J-28, 60; U-61
Wax, Floor	U-85
Webster-Chicago Corporation	E-21, 22
Webster Electric Co.	E-9, 10
Weller Mfg. Co.	U-11
Westinghouse Electric Corp.	A-21 to 24
Weston Electrical Instrument Corp.	F-69, 70
Wet Electrolytic Capacitor Replacements	P-4, 51, 86, 100
Wheatstone Bridges	F-73; R-58
Wheel and Hood Static Eliminators, Auto.	S-35, 36; U-100
Winchester Repeating Arms	M-17, 18
Window Antennas	S-54, 69, 72, 77; U-64
"Windo-Loop" Antennas	S-69
Window Pane, Clear Plastic—for Lead-ins	T-10
WIRE AND CABLE	Section S
Aircraft Cable	S-6, 7, 15
Antenna Wire and Cable	S-8, 9, 14, 15, 26, 32, 40, 51, 53
Antenna Wire for AC-DC Sets	S-9, 26, 31
Auto Radio Wire and Cable	S-5, 7, 15, 35
Battery Cable	S-25, 32
Bell Wire	S-31
Bus-Bar Wire	S-9, 14, 33
Cathode Ray Tube Cable	S-23
Coaxial Cable	G-33; S-8, 25, 32, 58, 62; T-9
Dial Cable, Cords	S-10, 33; U-33, 34, 87, 88
Diathermy Cable	S-9, 32
Electrical Extension Cords, Sets	S-8, 24; U-92
Fixture Wire, Lamp Cords	S-4, 8, 24, 26, 31, 33
Guy Wire	S-8, 30, 62; U-76b, 103
Headphone Cords	S-24, 34; U-45, 61
Hookup, Pushback Wire, etc.	S-5, 6, 7, 20, 21, 26, 81
Ignition Cable, Shielded	S-7, 35
Indoor Aerial Wire	S-14

	Section & Page
Intercommunication System Cable	S-2, 3, 10, 22, 26, 32
Lead-in and Ground Wire	S-5, 6, 9, 14, 20, 21, 25, 26, 31
Litz Wire	S-13
Magnet Wire	S-23, 33
Microphone Cable	S-1, 16, 25, 32; T-7
Multiple-Conductor Cable	S-1, 4, 16, 17, 25, 26, 32
Phono Pickup and Grid Wire, Shielded	S-5, 23, 35; U-45, 90
Phosphor Bronze Aerial Wire	S-9
Photo Electric Cell Cable	S-1, 23
Recording Stainless Steel Wire	E-32; U-100
Resistance Cords, AC-DC	S-24, 34
Rotator TV-FM Cable	S-8
Shielding—Copper, Braid	S-5, 15
Solid Tinned Copper Wire	S-9, 14, 31, 33
Sound System Cable	S-1, 2, 4, 5, 22, 23, 32
Speaker Cable	S-2, 25, 32
Speaker Cords, Extension	S-34
Television Cable	G-33; S-5, 8, 25, 26, 32
Test Prod Wire	S-5, 23, 26, 31, 34; U-55, 94
Transmission Line Cable	S-2, 3, 10, 18, 19, 32, 51; T-8
Tubing, Spaghetti—Flexible Varnished	S-11, 33; U-45, 57, 91
Twin-Lead for Television and FM	S-8, 25, 32, 62; T-8; U-102
Voice Coil Lead Wire	S-14
Wire Couplers, Soldering	U-97
Wire Measuring Outfit	U-79
Wire and Tape Recorder Units	B-21; E-16, 17, 20, 21, 47 to 50
Wire Recording Heads	D-16
Wire Recording Wire	E-32
Wire Spring Clips (Fahnestock)	S-33; U-37, 62, 66, 73, 93, 105
Wire Stripping Tools and Pliers	U-15, 18, 34, 98, 101, 103
Wire Wound Resistors	P-63, 64, 108; R-7 to 10, 15, 41, 42, 53, 56, 65, 66
Wiring Nails, Insulated, Twin Lead	S-29; U-40, 97, 102
Wirt Company	R-15 to 18
Workshop Associates, Inc., The	S-55 to 58
Worner Electronic Devices	L-31, 32
WRENCHES	
Hexagon Key, Socket	U-22, 26, 35, 53, 101
Neutralizing, Alignment	U-25, 46, 54, 55, 73, 95, 96
Nut	U-21 to 27
Steel	U-18, 98
Volume Control	R-32; U-53
WVV Standard Frequency Calibrator	F-22

— X —

"Xcelite" Tools	U-19 to 22
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