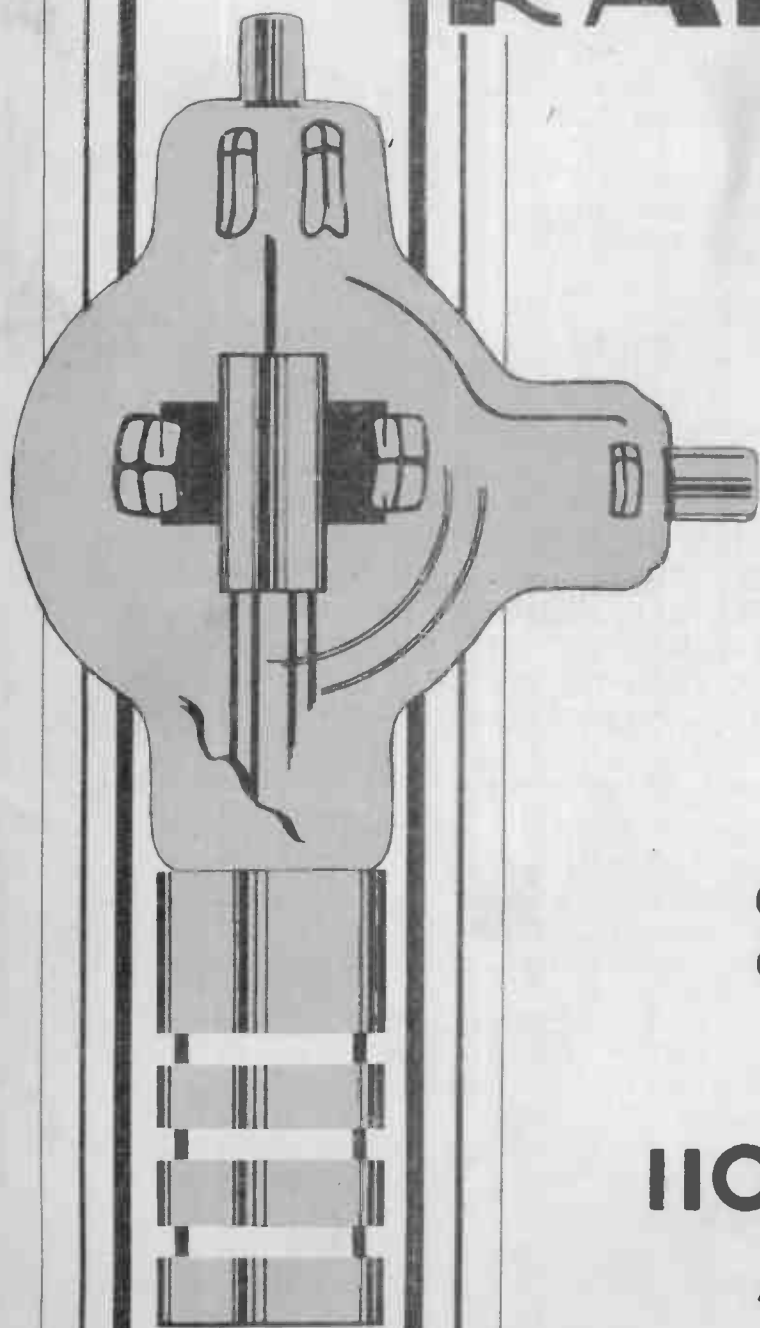


WALTER ASHE RADIO



**SPRING
1934
ISSUE**

PHONES
CHESTNUT 7934
CENTRAL 4039

**1100 PINE ST
ST LOUIS**

WALTER ASHE RADIO CO.

1100 Pine Street - - St. Louis, Missouri

1924



1934

AS MEMBERS OF THE NRA WE WILL CONTINUE IN THE FUTURE AS WE HAVE IN THE PAST TO COOPERATE WITH THE FEDERAL GOVERNMENT AND PRESIDENT ROOSEVELT.

THIS CATALOG WAS PUBLISHED FOR THE SOLE REASON OF BRINGING BEFORE THE EYES OF THE SERVICEMAN, AMATEUR AND EXPERIMENTER NEW PRICES AND NEW APPARATUS WHICH HAVE BEEN DEVELOPED WITHIN THE PAST FOUR MONTHS.

NOTICE FOR MAIL ORDERS

TERMS. CASH WITH ORDERS.

C.O.D. ORDERS MUST BE ACCOMPANIED WITH 25% OF THE TOTAL AMOUNT.

DUE TO RAPIDLY CHANGING PRICES SOME ITEMS IN THIS ISSUE MAY BE EITHER HIGHER OR LOWER WHEN YOU RECEIVE THIS CATALOG. UNDER THE "NRA" CODE WHICH WILL GOVERN THE RADIO BUSINESS ALL PRICES ON STANDARD MERCHANDISE WILL BE THE SAME. YOU ARE THEREFOR ASSURED OF THE SAME PRICES FROM US AS FROM ANY OTHER SUPPLY HOUSE REGARDLESS OF CHANGING PRICES OR WHAT OTHER CATALOGS MAY SHOW.

WE MAINTAIN IN CONNECTION WITH OUR REGULAR BUSINESS A COMPLETE AND MODERN RADIO LABORATORY. THIS DEPARTMENT IS EQUIPPED TO DESIGN AND MANUFACTURE ANY SPECIAL OR "HARD TO GET" PIECE OF APPARATUS WHICH INCLUDES SOUND APPARATUS, RECEIVERS, ANY TYPE OF TRANSMITTER AND ANY OTHER PRECISION EQUIPMENT. NO PROBLEM IS TOO LARGE. THERE IS NO FEE FOR OUR ADVICE OR QUOTATIONS. WRITE OR ASK US.

IF THERE ARE ANY SPECIAL ITEMS WHICH ARE NOT LISTED IN THIS CATALOG, LET US KNOW YOUR REQUIREMENTS, OR SEND IN THE DEFECTIVE PART AND WE WILL EITHER OBTAIN IT OR SUGGEST A CORRECT SUBSTITUTION.

WE DO NOT COMPETE WITH SERVICEMEN FOR RETAIL SERVICE. OUR REPAIR DEPARTMENT IS FOR THE SERVICEMAN AND DEALER WHO HAVE EITHER A SURPLUS OF WORK OR A "STICKER". WE DO NOT TAKE OUTSIDE SERVICE CALLS.

LISTEN FOR W9FIS ON THE AIR EVERY DAY AND OPERATED BY ANY ALIATEUR HOLDING A OPERATORS LICENSE. DROP IN THE SHACK WHEN YOU GET IN TOWN. W9FIS, W9HWD AND W9HWF ARE ALWAYS GLAD TO MAKE THE ROUNDS WITH YOU.



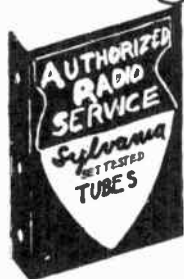
GROUP A*		LIST	NET
01A	Amplifier and Detector.....	\$.60	\$.32
24A	AC Screen Grid Amplifier.....	1.20	.70
26	AC Amplifier.....	.65	.35
27	AC Amplifier and Detector.....	.70	.38
35/51	Variable Mu Tetrode.....	1.30	.70
45	Power Amplifier.....	.75	.41
47	Power Pentode.....	1.30	.70
71A	Power Amplifier.....	.75	.41
80	Full Wave Rectifier.....	.70	.38

GROUP B*		LIST	NET
25Z5	Voltage Doubler.....	2.00	1.08
30	Amplifier and Detector.....	1.30	.70
36	Screen Grid Amplifier.....	1.50	.81
37	Detector-Amplifier.....	1.20	.65
39	R. F. Pentode.....	1.50	.81
42	Cathode Type Power Pentode.....	1.60	.89
43	Cathode Type Power Pentode.....	2.50	1.35
44	Super Control R. F. Amplifier Pentode.....	1.50	.81
56	AC Amplifier and Detector.....	1.20	.65
57	R. F. Pentode.....	1.65	.89
58	R. F. Pentode (Variable Mu).....	1.65	.89
77	Triple-Grid Amplifier and Detector.....	1.80	.97
78	Triple-Grid Super Control Amplifier.....	1.80	.97
183	Power Amplifier.....	1.65	.89
485	Amplifier and Detector.....	1.45	.78

GROUP C*		LIST	NET
1A6	Pentagrid Converter.....	1.75	.95
1V	Half Wave High Vacuum Rectifier.....	1.25	.68
2A3	Power Amplifier Triode.....	4.00	2.16
2A5	Cathode Type Power Pentode.....	1.60	.87
2A6	Double Diode Triode.....	1.60	.87
2A7	Pentagrid Converter.....	2.20	1.19
2B7	Double Diode Pentode.....	2.00	1.19
5Z3	Heavy Duty Full Wave High Vac. Rect.	1.50	.81
6A4/LA	Power Amplifier.....	1.60	.87
6C6	R. F. Pentode.....	1.25	.68

GROUP C*—Continued		LIST	NET
6D6	R. F. Pentode (Variable Mu).....	\$1.25	\$.68
6A7	Pentagrid Converter.....	2.20	1.19
6B7	Double Diode Pentode.....	2.00	1.08
6F7	Pentode Triode.....	1.80	.97
10	Power Amplifier and Oscillator.....	5.00	2.70
12A	Power Amplifier.....	1.30	.70
12Z3	High Vacuum Half-Wave Rectifier.....	1.20	.65
15	2 Volt R. F. Pentode.....	2.85	1.54
18	Output Pentode.....	2.75	1.49
19	Class B Amplifier.....	1.50	.81
20	Dry Cell Power Amplifier.....	3.00	1.62
22	Screen Grid Amplifier.....	2.30	1.08
31	Power Amplifier.....	1.30	.70
32	Screen Grid Amplifier.....	1.90	1.03
33	Power Pentode.....	2.10	1.13
34	R. F. Pentode (Variable Mu).....	2.15	1.16
38	Power Amplifier Pentode.....	1.45	.78
41	Cathode Type Power Pentode.....	1.60	.86
46	Power Amplifier.....	1.55	.84
48	Output Pentode.....	3.00	1.62
49	Power Amplifier.....	1.70	.92
50	Power Amplifier.....	4.00	2.16
53	Class B Amplifier.....	1.80	.97
55	Double Diode Triode.....	1.60	.86
59	Triple Grid Power Amplifier.....	2.00	1.08
75	Double Diode High Mu Triode.....	1.60	.86
76	A. C. Amplifier and Detector.....	1.20	.65
79	Complete Class B Amplifier.....	2.60	1.40
81	Half Wave Rectifier.....	3.50	1.89
82	Full Wave Mercury Rectifier.....	1.20	.65
83	Full Wave Mercury Vapor Rectifier.....	1.55	.84
84	High Vacuum Full-Wave Rectifier.....	1.75	.95
85	Double Diode Triode.....	1.60	.86
89	Triple Grid Power Amplifier.....	1.80	.97
V-99	Dry Cell Amplifier and Detector.....	2.25	1.22
X-99	Dry Cell Amplifier and Detector.....	1.50	.81
182B	Power Amplifier.....	1.65	.89
864	Detector-Amplifier.....	2.10	1.13



Service men and Dealers!



SYLVANIA OFFERS DEALERS AND SERVICEMEN HELPS
 IN THE FORM OF ENAMELED OUTDOOR SIGNS, TUBE
 CHARACTERISTIC CHARTS, SERVICE HINTS,
 ADVERTISING MATS, ETC. ASK US ABOUT THEM.

FREE!

G.E. TUNGAR Tubes

.6 Amp. Net \$3.00
 2. Amp. Net \$3.00

GENUINE KELLOGG A.C. TUBES

The high quality, popular Kellogg A.C. tubes, released only after rigid laboratory tests. Shpg. wt. 1 lb. each.

Type 401 Detector Amplifier. List. \$4.00. **YOUR PRICE..... \$2.35**

Type 403. List. \$5.00. **YOUR PRICE..... \$2.94**

B R Tubes For 1932 Mallory Eliminator




List \$2.50
 Net \$1.50

NEON GLOW LAMPS

Made by General Electric Co., Type G-10. Standard base. 101 uses.

NET ea. \$.40


DURESITE Ballast Tubes



#105 Net \$1.62
 #110 Net 1.62

PILOT LIGHT BULBS

GENUINE G. E. GENUINE MAZDA
 High Quality Bulbs



2.5 Volts | EACH .06
 3.2 Volts | .09
 6.0 Volts | .06
 Per Box of Ten 54

WALTER ASHE RADIO CO.
 1100 PINE STREET * * * * ST. LOUIS, MO.

Centralab Replacements

CENTRAL RADIO LABORATORIES

Separate Radiohm Switch Cover

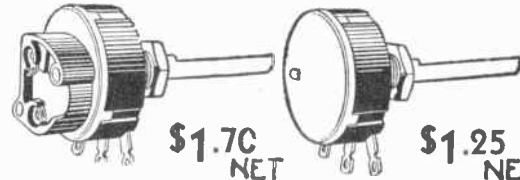


Any plain Radiohm catalogued above may be converted to the switch type by replacing the plain cover with this switch cover.

No. 10 Switch Cover LIST \$0.50
NET .25

Ask for the 1934
Volume Control Guide
FREE

STANDARD RADIOHMS



With Switch \$1.70 NET 85¢
Less Switch \$1.25 NET 62¢

Case diameter 1 3/8 in. Depth 9/16 in.
Shaft 2/4 in. long, milled flat. May be cut to exact length needed.

Catalog With Switch	Number Without Switch	Usual Circuit Location	RESISTANCE Ohms
62-118	72-118	Voltage Divider	500
62-107	72-107	Voltage Divider	1000
62-101	72-101	Voltage Divider	2000
62-108	72-108	Voltage Divider	3000
62-109	72-109	Voltage Divider	4000
62-110	72-110	Voltage Divider	5000
52-204	70-204	Antenna Shunt	5000
62-114	72-114	Antenna, C-bias	10000
62-113	72-113	Antenna, C-bias of One Tube	10000
52-205	70-205	Antenna, C-bias of Two Tubes	10000
62-100	72-100	Antenna Shunt	10000
62-115	72-115	Antenn, C-bias	15000
99-006	79-006	Antenna, C-bias	15000
62-119	72-119	Antenna, C-bias	20000
62-111	72-111	Voltage Divider	25000
62-133	72-133	C-bias	25000
52-206	70-206	C-bias	25000
62-102	72-102	Antenna Shunt	25000
62-103	72-103	Voltage Divider	50000
62-117	72-117	Tone Control	50000
62-123	72-123	Tone Control	75000
52-202	70-202	C-bias	75000
62-104	72-104	Voltage Divider	100000
62-122	72-122	Audio Grid or Tone	100000
62-120	72-120	Audio Grid or Tone	200000
62-131	72-131	C-bias	200000
62-121	72-121	Audio Grid or Tone	250000
62-105	72-105	Audio Grid or Tone	500000
62-106	72-106	Voltage Divider	500000
52-203	70-203	Series in R. F. Plate	500000
62-116	72-116	Audio Grid or Tone	1 Meg
62-132	72-132	Audio Grid or Tone	3 Megs

Centralab Suppressors for all Cars!



No. 320—Special cable type for Buick
Price \$.40
NET .20



No. 322—Plug type
Price \$.40
NET .20



No. 323—Distributor type
Price \$.40
NET .20

Centralab Power Rheostats

Heavy duty type
Air-Cooled



50 Watt Rheostat

50 Watt Rheostat	48-025	25 Ohms	\$ 1.25
	48-060	60 Ohms	1.25
	48-151	150 Ohms	1.25
	48-501	500 Ohms	1.25
	48-811	1,000 Ohms	1.25
	48-851	5,000 Ohms	1.38

Centralab Controls^F Sound Projection^R

Order by line Impedance



Impedance Matching Resistance	1 Watt "L" Pad \$3.00 Part No.	4 Watt "L" Pad \$4.00 Part No.	10 Watt "L" Pad \$5.00 Part No.	25 Watt "L" Pad \$5.00 Part No.	"T" Pad \$7.00 Part No.	C. I. Fader \$8.00 Part No.
10,000 Ohms	74-544	96-003	—	—	—	—
5,000 "	74-543	96-002	94-006	—	93-008	83-006
1,500 "	—	—	—	—	93-001	83-002
500 "	—	96-007	94-005	—	93-002	83-003
200 "	—	96-006	94-004	—	93-003	83-004
100 "	—	—	94-003	—	93-004	—
50 "	—	96-005	94-002	47-209	93-005	83-005
15 "	—	96-001	94-001	47-208	93-006	—
NET PRICE	\$ 1.50	\$ 2.00	\$ 2.50	\$ 2.50	\$ 3.50	\$ 4.00

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

Special Replacement Controls

Exact duplicates of the original in mechanical and resistance specifications, but not necessarily in appearance

Make and Model No.	Part No.	Price	Make and Model No.	Part No.	Price
All American 70, 73-75	70-501	\$ 1.50	Grigsby-Grunow 400	37-006	\$ 1.00
All American DC	74-615	1.50	Grigsby-Grunow Midget Super	74-603	1.50
American Bosch 28, 29	72-207	1.25	Gulbransen WG24 291, CG, 9 in Line, Club	74-509	1.50
American Bosch 80 Auto	70-017	1.00	Gulbransen 80-8 Tube	25-423	1.50
American Bosch 48, 49	74-510	1.50	Gulbransen 40	41-084	.75
American Bosch 58, 62	72-167	1.00	Gulbransen 092, Tone	41-096	.75
American Bosch 54 D.C.	74-557	1.50	Gulbransen 092	72-173	1.25
American Bosch 60, 61, 63	72-166	1.00	Gulbransen 10, 13 Series, Phono.	55-005	1.00
American Bosch 48, 49 Early	74-501	1.50	Gulbransen 90 Series	74-556	1.50
Atwater Kent Co. 37, 38, 40, 41, 42, 43, 44, 45, 47, 52, 53	72-112	.75	Gulbransen 5 Tube DC	74-555	1.50
Atwater Kent Co. F. Series, L2, P 75, Q2	74-521	1.50	Gulbransen 072	51-051	.75
Atwater Kent Co. 61, 61C, H1, H2, 72	25-426	1.50	Gulbransen 122	72-174	1.00
Atwater Kent Co. 80, 83	2011905	1.00	Gulbransen 122 Tone	51-058	.75
Atwater Kent Co. 636	51-122	.75	Gulbransen 122	41-099	.75
Bremer-Tulley 7-70, 7-71	72-169	1.00	Gulbransen Y6X	33-083	1.00
Brunswick-Balke 10, Midget	55-004	1.00	Gulbransen 06A	306-002	1.00
Canadian Westinghouse 80	74-524	1.25	Gulbransen 00A, Tone	41-148	.75
Clearstone Radio Corp. 110 Compact	74-608	1.50	Gulbransen 00A	51-163	.75
Colonial Radio S.G.-32 AC	25-417	1.75	Gulbransen 17A	1010033	.75
Colonial Radio 40, 43, 44, 47	41-074	.75	Gulbransen 7 Tube Arcadia	1220001	.75
Columbia Radio Oxford	80-012	1.25	Howard 134, 395, 445, 495	74-620	1.50
Columbia Radio C-31-101	55-004	1.00	Jackson Bell Jewell 547	55-014	.90
Columbia Screen Grid 8	82-028	1.25	Jesse French & Sons G, Jr. H-1	75-507	1.75
Crosley Radio Corp 41-A, 42, 61, 602, 608, 609, 610, 704, 705, 706	51-037	.75	Kennedy, Colin B. 12 S.G., 10, 20	76-008	1.50
Crosley Radio Corp. 40S, 41S, 42S, 82S, 71A	70-503	1.25	King Mfg. Co. 109	51-001	.75
Crosley Radio Corp. 28, 30-31, 33, 34, 40, 41, 42, 82-S, 315	72-019	.75	King Mfg. Co. 112	98-003	1.00
Crosley Radio Corp. 55, 126	72-055	.75	Kolster Radio Corp. K42 to 45	76-006	1.50
Crosley Radio Corp. 52, 26	72-045	.75	Kolster Radio Corp. 930 Phono. Comb.	75-525	1.75
Crosley Radio Corp. 75, 76DC, 77, 84	72-047	.75	Montgomery-Ward & Co. AE-10	74-509	1.50
Crosley Radio Corp. 143-1	2013901	1.00	Montgomery-Ward & Co. Monarch, Air Line	79-014	1.00
Crosley Radio Corp. 40S, 41S, 42S, 82S, 71A, Late Models	74-511	1.25	National Carbon Co. 50 Series	74-503	1.50
Crosley 128	2115900	1.00	Ozarka V-16-16 Tubes	76-009	1.50
DeForest Radio 705	91-001	1.50	Ozarka Oxford	82-034	1.25
DeForest Radio 707-A	82-042	1.25	Philco 510-582, 82, 86, 87	24-016	.75
Earl Radio 21, 22 A.C.	25-416	1.50	Philco 95	24-264	.75
Earl Radio 271	76-006	1.50	Philco Eaby Grand, 20, 20A, 220, 30, 70, 270	74-579	.95
Edison Radio C-1, SRC3, R1	26-021	1.00	Philco 41, 42-220A	74-560	.95
Edison Radio R2, C2, M-5-6	24-008	1.00	Philco 30, 96, 96A, 211A, 296, 111, 112 A	72-177	.65
Edison Radio R-12, Abbey Jr., R4, R5, C4, R6, R7	74-512	1.50	Philco 51, 52, 551	51-076	.50
Edison Radio R-6, R7, Early Model	64-306	1.50	Philco 71, 91, 121, 75	51-095	.50
Edison Radio Phono. Comb., 8-P	76-003	1.50	Philco 50, 50A	74-559	.95
"Erla," Electrical Research 225, 271, 271-A	75-506	1.75	Philco 14, 16, 17, 18	2211900	1.00
"Erla," Electrical Research 602	2011045	1.25	Pilot Radio & Tube Corp. K-117	74-526	1.25
Fada, F.A.D. Andrea 30, 30A, 31, 10, 11	70-017	1.00	R.C.A. Victor R-37P, 38P	1210901	.88
Fada, F.A.D. Andrea 50, 70, 71, 72	70-059	1.00	R.C.A. Victor RC-78A 2Tpped	1210902	.88
Fada, F.A.D. Andrea 16, 17, 32, 18 DC	72-801	1.00	R.C.A. Victor RC-78 Twin	4220900	1.50
Fada, F.A.D. Andrea 35C	74-513	1.50	R.C.A. Victor R-32, RE-45, 52, 75, 145	74-600	1.25
Fada, F.A.D. Andrea 25, 15M, 15MZ	79-019	1.00	R.C.A. Victor 21, 22	72-013	.75
Fada, F.A.D. Andrea 20, 202	99-019	1.00	R.C.A. Victor 4 Circuit RC3, 48, R15, RE17, R42	74-526	1.25
Fada, F.A.D. Andrea 35, 35Z, 75, 77	72-168	1.00	R.C.A. Victor FE-57, RE-73, R-14, RE-34, 42	74-524	1.25
Fada, F.A.D. Andrea 35B, 40 AC	74-513	1.50	R.C.A. Victor RC-38	72-087	.75
Fada, F.A.D. Andrea 43, 76Z, KF, KG	74-541	1.50	R.C.A. Victor RC-29	52-024	1.00
Federal Radio Corp. F-10, 11	24-052	1.00	R.C.A. Victor R-8, R-12, R-11, R-26, R-30, RE-18, RE-18A, RE-19, R-21, R-37, R-38	1210900	.75
Federal Radio Corp. L	74-514	1.50	Sears Roebuck Co. 112	98-003	1.00
Freed-Eiseman Radio NR-90S, 657, 879	74-506	1.00	Sentinel (United Air Cleaners) Portola 3	44-059	1.00
Freshman Radio 3Q, 15, 16, N12 17, 2M, QD, 16-S	41-200	.75	Sparks-Withington (Sparton) 750D, 870, 931, 410-20-30	75-543	1.50
Freshman Radio 21 AC, 32	25-416	1.50	Sterling Radio 3A, 4, B, A2	44-059	1.00
Galvin Motorola	70-036	1.00	Sterling Radio F-1-60, 8 Tube, G	75-507	1.75
General Electric T-41, RC3	74-526	1.25	Stewart-Warner Corp. 900 Series	28-031	.75
General Electric J-80, J-85, S-132, K-62	1210900	.75	Stewart-Warner Corp. R-100 Series, 950, 935, 110 Series	30-010	.75
General Motors Delco, 3010, 3002	70-028	1.50	Stromberg-Carlson Tele. 635, 636	72-161	.75
General Motors A, B, 150, 160	74-514	1.50	Stromberg-Carlson Tele. 635, 636	72-162	.75
General Motors A, B, 150, 160, 1001	70-019	.75	Stromberg-Carlson Tele. 641, 42, 52, 54	72-159	.75
General Motors 1001, 160	74-517	1.50	Stromberg-Carlson Tele. 641, 42, 52, 54	72-160	.75
General Motors R-1-A (Converter) 281	74-552	1.50	Stromberg-Carlson Tele. 846, 848	72-205	.75
Graybar Electric Co. 678	74-526	1.25	Stromberg-Carlson Tele. 846, 848	72-206	.75
Graybar Electric Co. 989	1210900	.75	Stromberg-Carlson Tele. 12, 14	72-042	.75
Grebe A. H. Early SK4, AC	74-515	1.50	Stromberg-Carlson Tele. 22, 24	72-082	.75
Grigsby-Grunow 60, 70, 70-B	72-180	.75	Stromberg-Carlson Tele. 48	52-041	1.00
Grigsby-Grunow 180, 181	74-561	1.50	Stromberg-Carlson Tele. 38, 39, 40	75-545	1.75
Grigsby-Grunow Series 50	74-523	1.25	Temple Corp. 8-61-81-91, 5-55	74-515	1.50
Grigsby-Grunow 90, 91, 92, 180, 321	78-007	1.00	Transformer Corp. 40	55-004	1.00
Grigsby-Grunow 90, 91, 92, 180, 321 Twin	25-421	1.50	Transformer Corp. 55	51-005	.75
Grigsby-Grunow 90 Series	76-063	.75	Transformer Corp. 300	306-001	.88
Grigsby-Grunow 30, 31, 131-2-3, 230 A Twin	75-537	1.50	Westinghouse Electric WR-4	74-526	1.25
Grigsby-Grunow 100 Series	74-562	1.25	Westinghouse Electric WR-2	72-013	.75
Grigsby-Grunow 60 Series, 160	72-073	.75	Wholesale Radio Great Duo-Symphonic	74-607	1.50
Grigsby-Grunow 120 Series	74-548	1.25	Zenith Radio 50, 60, 70-1-2-3-7, 712-22-37-72, 70 Series, 41, 42, 412, 422	75-614	1.50
Grigsby-Grunow 15, 15B, 150 Series	55-010	.90	Zenith Radio 52, 53, 54, 57, 522-32-42, 70, 102, 112, 212, 11, 12	62-042	1.00
Grigsby-Grunow 25 Series	55-014	.90	Zenith Radio 2017	75-503	1.50
Grigsby-Grunow 15, 15B, 150, 25	41-060	.75	Zenith Radio 2014, 2017	51-039	.75
Grigsby-Grunow 110 Auto	72-088	1.00			
Grigsby-Grunow 111 Auto	30-017	1.00			
Grigsby-Grunow 130, 131, 132	72-181	.75			
Grigsby-Grunow 230	74-563	1.25			

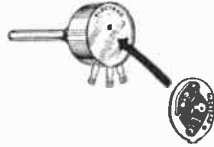
... See the Centralab Volume Control Guide for Details of these and other Replacement Controls

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

COMPLETE LINE OF ELECTRAD REPLACEMENT CONTROLS

LONG ALUMINUM SHAFTS

Easily cut to any desired length



Plain covers and covers with switch attached are instantly interchangeable. Just snap one out and the other in, without disturbing the control connections.

THE new Electrad line of Replacement Volume Controls is the most complete now available. Economical, too—for just five types (RI-201, RI-202, RI-203, RI-204, RI-205) will fit the replacement requirements for 1,000 modern and obsolete receiver models. Think what that means in convenience, and saving in time, labor and stock investment. All standard types are now instantly convertible to use a power-switch attached, in its place.

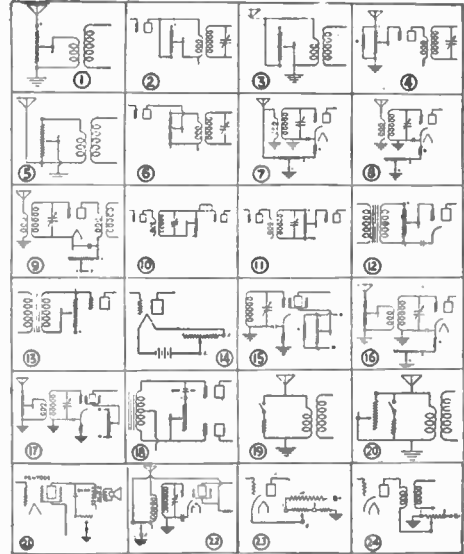
All Electrad Standard Replacement Volume Controls are now equipped with long aluminum shafts—easy to cut to any desired length. Less time—less trouble. The controls listed below are standard, and are available from stock at all times.

ELECTRAD STANDARD REPLACEMENT CONTROLS

Our Spec. No.	Circuit No.	Start	Taper Indicated by Readings in Sections			Finish
			1/4	1/2	3/4	
RI-204 Rheostat	14	Open-10	8	5	2.5	0
RI-269	14	0	Uniform	Uniform	Uniform	20
RI-270	14	0	Uniform	Uniform	Uniform	30
RI-271		0	Uniform	Uniform	Uniform	50
RI-272		0	Uniform	Uniform	Uniform	100
RI-273	8, 23	0	Uniform	Uniform	Uniform	200
RI-274	8, 23	0	Uniform	Uniform	Uniform	400
RI-282	14	0	Uniform	Uniform	Uniform	600
RI-275	8, 23	0	Uniform	Uniform	Uniform	800
RI-276	8	0	Uniform	Uniform	Uniform	1,000
RI-232	1, 4, 8, 15	0	Uniform	Uniform	Uniform	2,000
RI-233	8, 15	0	Uniform	Uniform	Uniform	3,000
RI-277	8, 23	0	Uniform	Uniform	Uniform	4,000
RI-234	18, 23	0	Uniform	Uniform	Uniform	5,000
RI-278	4, 7	0	300	1,200	2,500	5,000
RI-560	4, 7	0	350	1,500	3,750	7,500
RI-283	23	0	Uniform	Uniform	Uniform	10,000
RI-240	7	0	30	2,000	9,000	10,000
RI-573	8	12,000	5,000	1,000	200	0
RI-201	1, 2, 3, 4, 5, 6, 7	0	100	2,000	10,000	15,000
RI-279	15	0	Uniform	Uniform	Uniform	25,000
RI-280	21	0	1,500	6,000	12,500	25,000
RI-241	21	0	800	2,000	15,000	30,000
RI-205	15	0	Uniform	Uniform	Uniform	50,000
RI-202	8, 9	75,000	25,000	2,000	200	0
RI-242	12, 13, 18	0	6,000	25,000	50,000	100,000
RI-281	18	0	Uniform	Uniform	Uniform	200,000
RI-208	11, 12, 13, 18	0	15,000	60,000	125,000	250,000
RI-203	10, 11, 12, 13	0	2,000	20,000	200,000	500,000
RI-206	18	0	60,000	250,000	500,000	1,000,000

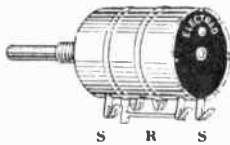
All above controls except RI-201 are potentiometer type. Where rheostat is wanted use center and one outside terminal. Uniform controls in values to 5,000 ohms are wire wound.

All "RI" units with standard insulated shaft **YOUR COST—\$8.60**
 Separate "Snap-on" Switch Assembly complete **YOUR COST— .29**

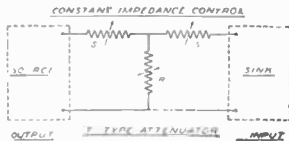


SPECIAL REPLACEMENT CONTROLS— BESIDES THE STANDARD CONTROLS LISTED ABOVE ELECTRAD MANUFACTURERS HUNDREDS OF SPECIAL REPLACEMENT CONTROLS. THESE CONTROLS ARE OF EXACT RESISTANCE SPECIFICATIONS AND MECHANICAL DIMENSIONS TO FIT RECEIVERS LISTED. WRITE FOR FREE COMPLETE CONTROL BOOKLET.

ELECTRAD T-PADS AND LINE-ATTENUATORS



Electrad Royalty T Pad Attenuator

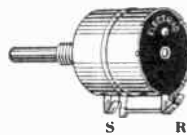


Electrad Constant Impedance "T" pad controls are useful for the volume control of microphones, electrical phonographs, talking picture amplifiers and other sound amplifying and distribution systems. Constant impedance is maintained throughout the adjustment of knob.

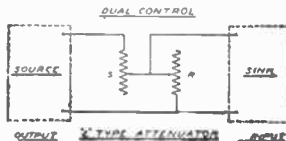
Type	Line Impedance in Ohms
Type TR15	15
Type TR200	200
Type TR500	500
Type TR3000	3000
Type TR5000	5000

YOUR COST (All Sizes)\$2.10

Note: The panel and rear units are series resistors (S, & S.) and the center unit is the shunt resistor (R).



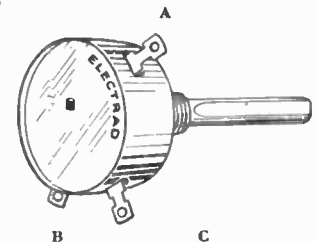
Electrad Royalty L Pad Attenuator



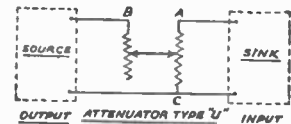
Type	Line Impedance in Ohms
Type LR15	15
Type LR200	200
Type LR500	500
Type LR3000	3000
Type LR5000	5000

YOUR COST (All Sizes).....\$1.50

Note: The panel unit is the series resistor (S) and the rear unit is the shunt resistor (R)



Electrad Royalty Attenuator Type U



Type	Line Impedance in Ohms
Type U500	500
Type U1000	4000
Type U10000	10000

YOUR COST (All Sizes)\$1.20

ELECTRAD VOLUME CONTROLS

Table listing various electronic components and their prices, including items like 'ALL AMERICAN BATTERY CO.', 'ECHOPHONE RADIO MFG. CO.', and 'EDISON GOLF, THOMAS A.'.

Table listing electronic components and their prices, including items like 'ELECTRAD VOLUME CONTROLS', 'GENERAL ELECTRIC CO.', and 'HARRIS ELECTRIC CO.'.

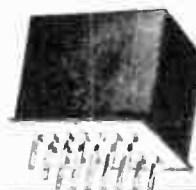
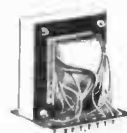
Table listing electronic components and their prices, including items like 'MILWAUKEE RADIO CORP.', 'NATIONAL CARBON CO.', and 'NATIONAL TRANSFORMER CO.'.

Table listing electronic components and their prices, including items like 'PARAVOX WASHINGTON', 'STANTON', and 'STANTON-WARNER CORP.'.

WALTER ASHE RADIO CO. 1100 PINE STREET ST. LOUIS, MO.



REPLACEMENT EXACT DUPLICATE TRANSFORMERS



MODEL	STANCOR NUMBERS	PRICE LIST
ALL AMERICAN MCHAMT		
D & H Lyric	P-1134	5.14
Lyric	P-1400	3.08
S6	P-1410	3.08
50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70	P-1443	4.34
71	-1000	4.33
AREX		
7 (Series)	P-1441	4.35
10 (Series)	P-1010	4.28
20 (Series)	P-1070	2.43
26 Gloritone	P-1402	2.33
26-P Gloritone	P-1350	2.33
32 (Series)	P-1291	3.30
8, 8A, B	P-1370	4.11
36, 37	P-340	5.39
ATLANTER-KENC		
37, 38	P-716	3.17
55, 56C (Late)	P-917	5.47
55, 55C (Early)	P-1110	5.43
60, 60C	P-1060	5.43
66	P-1113	4.39
H-1, H-2, L-1, L-2	P-1070	3.53
80, 83	P-1030	3.58
82, 85	P-1034	3.30
84 (Early & Late)	P-1080	3.58
87, 89, 89P	P-1009	3.37
BEACON (Navigator)		
51	P-453	2.33
51A, 51B	P-377	2.34
41, 47	P-1000	2.49
71	P-557	3.16
71	P-859	4.40
BOSCH 29, 29B	P-859	4.40
BREMER-TULLY		
81, 82, 391, 382	P-1112	4.34
BRUNSWICK		
2KRO, 3KRO, 5KRO, 3KR6, 5KR6, 5KR	P-791	4.99
3K38, 5K38	P-710	4.45
10	P-1499	2.58
(Chassis D) 12, 12A, 16, 14A, 18, 18A, 33, 33A, 1136		
14, 21, 31, 32, 31A, 321, 301, 382	P-1112	4.34
CLARION		
AC70	P-1438	4.61
AC61, AC70	P-1429	4.96
AC90, AC70A, AC91	P-1156	3.67
COLUMBIA		
AC5 Knight	P-377	3.22
AC7 Knight	P-391	3.22
893 Knight	P-230	5.87
809 Knight	P-1436	5.28
CROSBLEY		
(Chassis 7) 1403, 413, 423, 825	P-1015	4.11
41, 41A, 42, 7043, 705	P-1472	4.11
EARL		
31, 32, 32B, 41	P-391	4.11
EDISON		
(Unmounted) Chassis, R7 C, (Plate) R1, R2, C2	P-951	3.66
(Type 8P) R1, R5, C4	P-1143	5.59
ERLA		
51, 70, 71, 271, 2712	P-1464	4.55
51, 80, 245	P-1465	4.99
224	P-1465	5.43
EVEREADY		
30 (Series)	P-1030	5.28
30C	P-1430	4.11
40 (Series)	P-956	4.40
50 (Series)	P-901	4.40
FREED		
55, 78, 79, 79S, 90, 95	P-893	4.11

MODEL	STANCOR NUMBERS	PRICE LIST
FREED-EISELMAN		
NR 55	P-1471	4.40
NR 85	P-1101	4.99
FRESHMAN		
215, Q16, 3Q15, 3Q16	P-910	4.70
2D168	P-919	4.70
41, 47	P-1000	3.49
51	P-463	2.93
51A, 51B	P-597	2.64
GENERAL ELECTRIC		
H31, 51, 71	P-713	4.90
H41	P-927	4.31
K62	P-1474	4.70
322, 322X, 342	P-1481	4.40
322A	P-1482	4.11
80, 785, 3132	P-1483	4.05
770, 775	P-1487	3.05
GENERAL MOTORS		
39A	P-1271	3.40
110 Little General	P-1485	3.37
GRAYBAR		
J88	P-1481	4.40
J88A	P-1482	4.11
J89	P-1474	4.69
J8310-311	P-791	4.99
J8340	P-715	4.55
J8500, 5.0	P-714	4.64
J8700	P-383	4.40
J8670	P-927	4.31
J8700, 770, 900	P-715	5.19
J8989, 3C14, 3T8	P-1483	4.05
J77, 7C14	P-1487	3.05
HERBE		
AC6, AC7	P-1476	4.11
H84	P-1476	3.52
H84 Models 1 & 2	P-1477	3.52
KENNEDY 10, 20	P-792	4.69
KELSTER BRANGES		
K20, 22, 25, 27, 37	P-1190	4.84
K24, K36	P-1191	5.87
K43	P-1192	5.28
315, 316	P-1193	5.58
KELSTER-COLUMBIA		
950	P-1194	6.61
961	P-1437	6.31
MAESTRO		
15A (Unmtd.)	P-906	2.17
21, 21, 23 (Jmtd.)	P-954	3.40
130, 131, 132, 133	P-1102	4.70
25, 25B (Unmtd.)	P-1168	3.22
50 (Unmtd.)	P-905	3.05
70, 7P6 (Plate)	P-790	2.35
70, 7P6 (Filament)	P-798	2.35
70, 7BP6 (Plate)	P-1486	2.35
90B, 100B	P-939	4.11
90, 9P6	P-757	3.64
180, 8P6 (Filament)	P-605	2.52
10, 8P6 (Plate)	P-780	3.40
PHILCO		
60B--Gen. Ex. Dup.		2.20
80		1.75
89		2.20
57C		1.75
81		1.75
20, 220	P-762	3.82
55	P-711	4.49
75, 77	P-785	4.49
50, 51, 52, 551	P-1460	2.63
86	P-786	4.49
87	P-783	4.31
90, 490 (Using 1.47)	P-1464	3.66
90 (Using 2.45 Tube)	P-1464	4.37
59, 96, 296	P-787	4.20
111, 211	P-785	4.20
112, 212 (For -46's)	P-788	4.20
112, 212 (For -47's)	P-882	4.49
511	P-784	4.20
70, 270, 370, 470, 570	P-1119	3.82

MODEL	STANCOR NUMBERS	PRICE LIST
RCA RADIOLA		
17, 18, 33, 50, 51	P-791	4.39
42, 48	P-927	4.31
44, 46, 47	P-714	4.64
60, 62	P-715	4.55
64, 67	P-827	13.22
68	P-883	4.40
88, 82, 86	P-713	4.90
Superette	P-1481	4.40
AP736 Power Amp.	P-1473	10.13
AP735-B Power Amp.	P-1430	2.54
AP777-0 Power Amp.	P-827	13.22
RCA VECTOR		
7-11, 7-25	P-791	4.99
9-18, 9-54	P-827	13.22
R4, R6	P-1487	3.05
R7, R9	P-1481	4.40
R7A	P-1482	4.11
R3, R10, R12, R19, R23, Longwave	P-1483	4.05
R11, R21, R18, R16A	P-1474	4.70
R14, R15, R17	P-927	4.31
R32, R52, R45, R7E	P-717	4.99
R35, R39, R57, P-713	P-718	4.70
9-15 Power Amp.	P-1430	9.34
SILVER-MARSHALL		
750 (Sheridan)	P-1272	2.33
D, E, & F	P-1439	4.70
Q DeLuxe	P-1480	4.70
SONORA		
2RP25, 3R, 4R, A30		
A32, A40,	P-1360	5.23
A31, A33, A35,	P-1412	4.70
SPARTAN		
AC7, 62, 63	P-1373	3.37
Z5, 26, 26A, 30, 45	P-1204	4.70
69A	P-521	4.37
101, 110, 111, 111A, 370P-1412		6.02
103, 301A, 578, 740, 750P-1373		6.02
109, 99 DeLuxe Ensemble-1411		5.28
301	P-1372	6.02
410, 420	P-119	4.70
899	P-908	4.70
891, 593, 931	P-864	4.70
STEINITE		
40, 40A, 45A, 50, 102	P-965	5.87
400, 410, 500, 1020	P-1113	5.74
STEWART-WARNER		
801, 801A, 802 A&B	P-110	4.66
901, 902, 903, 951		
952, 953, 1000A	P-147	3.81
STROMBERG-CARLSON		
1D, 11	P-1204	5.20
641, 642, 652, 654	P-834	5.14
846, 848	P-1087	5.28
SENTINEL (See United Air Cleaner)		
SILVERTONE (See United Air Cleaner)		
TEMPLE		
8-50, 8-80, 8-90,		
8-51, 8-81, 8-91	P-219	7.30
TRAVELER		
"B"	P-130	4.78
"C"	P-187	2.78
UNITED AIR CLEANER		
1D4 (Sentinel)	P-1287	4.99
1D8, 108B, 108A, 110	P-420	2.91
WESTINGHOUSE		
WR4,	P-527	4.31
WR-5-6-7-8, 5R, 7R, 3R, P-713		4.00
WR10, WR12	P-1474	4.40
WR10A	P-148	4.11
WR15	P-1474	4.70
ZENITH		
1D, 11, 12 (Super)	P-551	4.70
SD, 60, 70,	P-712	4.70

YOUR ATTENTION PLEASE.

Special Rewinding Service

UNDoubtedly there are types of transformers which cannot be duplicated and for this reason we are offering you the opportunity of getting the exact replacement by having the old unit rewound so as to fit just where it came from. We will be more than pleased to quote you the best price on rewound transformers. Just send us the model number of the set from which it came and let us know whether it is cased in pitch or not.

WALTER ASHE RADIO CO.

1100 PINE STREET « « » » ST. LOUIS, MO.

MICA

CONDENSERS

PAPER

ELECTROLYTIC

Service men and Dealers know that all licensed Electroletic Condenser Manufacturers will sell large users their best condensers less their trade mark at an extra discount. We believe our customers are intelligent enough to read between these lines and save money??

CARDBOARD CONTAINER CONDENSERS

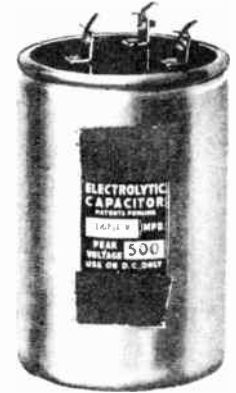
—525 Volts D.C. Surge— 450 Volts D.C. Working



Cap. Mfds.	List Price	Your cost
2	\$.65	\$.36
4	.75	.42
6	.90	.50
8	.95	.54
4-4	1.20	.68
4-8	1.35	.75
8-8	1.50	.83

Round Aluminum Can Dry Electrolytic Type

Screw Terminals fitted with soldering lugs mounted in a 3/4 inch hole



CAP.	NET.
8	.60
8-8	1.03
8-8-8	1.54
9-9-18	2.14
8-8-8-8	2.06
9-9-18-18	3.00



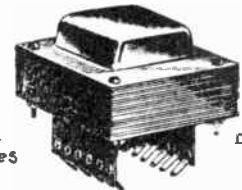
200 VOLT	NET
.5 MFD.	.22
400 VOLT	
1.	.32
2.	.52

CARTRIDGE CONDENSERS

400 VOLT	
.01	.09
.02	.09
.05	.09
.1	.12
.25	.15
.5	.21
1.	.30



Midget Set Replacement



Will Handle 5 Tubes

Dimensions: 2 1/2" x 2 1/2"

For: 3-24, 27, 35, 56, 57, 58, 1-45, 47 or 2A5 and 1-80.
 Primary: 110 volts, 50-60 cycles.
 Secondaries:
 (1) 700 volts C.T. 50 M.A. (plate)
 (2) 5 volts 2 amps. (1-80 filament)
 (3) 2.5 volts C.T. 7 amps. (two or three heaters and one power tube).

Your Cost **98¢**

SANGAMO

.00005	.24
.0001	.24
.00015	.24
.0002	.24
.00025	.24
.0005	.24
.001	.30
.0015	.30
.002	.30
.003	.36
.004	.36
.005	.42
.006	.51
.008	.60
.01	.69
.012	.72
.015	.75



Mica Condensers



Resistor Clips--Pr. .06

.00005	.09
.0001	.09
.00015	.12
.0002	.12
.00025	.12
.0005	.12
.001	.15
.0015	.18
.002	.21
.003	.24
.004	.24



"SOLAR" MIDGET MICA

ATWATER KENT SPEAKER FILTER CONDENSER

Speaker Bypass condenser. Models 37, 38, 40, 42, 44, 46

NET

57¢



FEED THRU STANDOFF INSULATOR

The most handy insulator ever produced. Brass, nickel plated hardware Brown color same as Beehive and other standoff insulators used.



- * 478- 7/8" high, 1/2" screws, 1/16" hole for mounting --- NET 12¢
- * 4125- 1 1/4" high same as # 478 --- NET 15¢
- * 478d- 7/8" high, has G.R. jack instead of screws --- NET 15¢
- * 4125J- 1 1/4" high, same as # 478J --- NET 18¢

WALTER ASHE RADIO CO.
 1100 PINE STREET * * * * ST. LOUIS, MO.



INVERTED UNITS—SCREW TYPE

Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts



Cat. No.	Capacity Mfd.	List Price	Your Price
SC-4	4	\$1.25	\$.75
SC-6	6	1.45	.87
SC-8	8	1.50	.90

MULTIPLE UNITS

Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts

Cat. No.	Capacity Mfd.	List Price	Your Price
AC-88	8 8	\$2.40	\$1.44
AC-888	8 8 8	4.00	2.40
AC-515	5 15	3.35	2.00
AC-9918	9 9 18	5.80	3.48
AC-9936	9 9 18 18	8.15	4.89
AC-8888	8 8 8 8	5.35	3.21



TUBULAR CONDENSERS

Cartridge By-Pass Type

HIGH VOLTAGE—600 VOLTS

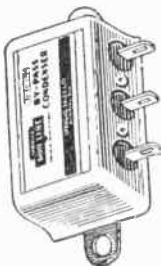


Cat. No.	Capacity Mfd.	List Price	Your Price
TC-31	.0001	\$.25	\$.15
TC-325	.00025	.25	.15
TC-34	.0004	.25	.15
TC-35	.0005	.25	.15
TC-21	.001	.25	.15
TC-22	.002	.25	.15
TC-23	.003	.25	.15
TC-24	.004	.25	.15
TC-25	.005	.25	.15
TC-26	.006	.25	.15
TC-11	.01	.25	.15
TC-12	.02	.30	.18
TC-15	.05	.30	.18
TC-16	.06	.35	.21
TC-1	.1	.35	.21
TC-2	.25	.45	.27
TC-5	.5	.60	.36

BY-PASS CONDENSERS

Bathtub Type

HIGH VOLTAGE—600 VOLTS



Cat. No.	Capacity Mfd.	List Price	Your Price
BP-1	1	\$.50	\$.30
BP-25	.25	.60	.36
BP-50	.5	.75	.45
BP-10	1 0	1.00	.60
BP-21	1-.1	.65	.39
BP-225	.25-.25	.80	.48
BP-250	.5-.5	1.00	.60
BP-31	1-1-1	.85	.51



INDIVIDUAL EMERGENCY UNITS



Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts

Cat. No.	Capacity Mfd.	Dimensions	List Price	Net
EC-50	5	2 1/2 x 1 x 3/8	\$.79	\$.47
EC-75	75	2 1/2 x 1 x 3/8	.83	.50
EC-1	1	2 3/8 x 1 1/2 x 3/8	.86	.51
EC-2	2	2 3/8 x 1 1/2 x 3/8	.94	.58
EC-4	4	2 3/8 x 1 1/2 x 3/8	1.13	.68
EC-6	6	2 3/8 x 1 1/2 x 3/8	1.31	.79
EC-8	8	2 3/8 x 1 1/2 x 3/8	1.35	.81

CARDBOARD TYPE

Continuous Working Voltage—475 Volts
Maximum Surge Voltage—600 Volts



Cat. No.	Capacity Mfd.	List Price	Your Price
DC-2	2	\$.95	\$.57
DC-4	4	1.15	.69
DC-6	6	1.30	.78
DC-8	8	1.35	.81
DC-24	2-4	1.65	.99
DC-44	4-4	1.80	1.08
DC-46	4-6	1.95	1.17
DC-48	4-8	2.00	1.20
DC-66	6-6	2.15	1.29
DC-68	6-8	2.20	1.32
DC-88	8-8	2.20	1.32

HIGH CAPACITY—LOW VOLTAGE

Cardboard Type

ELECTROLYTICS



Cat. No.	D.C. Voltage	Capacity Mfd.	List Price	Your Price
HC-10	25	10	\$.60	\$.36
HC-510	50	10	.80	.48
HC-25	25	25	.85	.51
HC-525	50	25	1.10	.66
HC-44	150	3-4	1.05	.63
HC-55	50	5-5	.85	.51

AUTO-RADIO CONDENSERS

TEST VOLTAGE—600 VOLTS
WORKING VOLTAGE—400 VOLTS



Cat. No.	Capacity Mfd.	List Price
AR-1	1.0	.80

Net \$.48

COLLINS 4A C.W. TRANSMITTER

25 Watts Output—Crystal Controlled



Uses a 47 crystal oscillator and parallel 46's in the power amplifier, permitting an output of 25 watts on 1.7, 3.5 or 7 mc. The power amplifier is operated on the crystal frequency in each case. Despite its low cost, the 4A embodies the mechanical and electrical refinements found in the larger Collins transmitters.

A separate power supply is used for the oscillator to reduce frequency "chirp". Two bakelite coils (1 set) are furnished with this transmitter for any band specified. Extra set of coils for the other bands, \$3.00 per set.

A single Weston meter is provided with a switching arrangement to read plate and grid currents.

4A transmitter is ideal for an amateur who wants to start out with a minimum investment and yet have a transmitter which will deliver a high quality C.W. signal. Can also serve as a stand-by transmitter in a high powered station to be used when full power is not required.

Has two power supplies, using an 80 rectifier for the crystal oscillator and an 83 for the power amplifier. Operates from 110 to 120 volts, 50 or 60 cycle A.C.

Stock No. TR-59—**\$56.00**
Less tubes and crystal

MOUNTED CRYSTAL CAN BE SUPPLIED FOR ANY SPECIFIED FREQUENCY. **\$7.50**

WALTER ASHE RADIO CO.

1100 PINE STREET * * * * ST. LOUIS, MO.

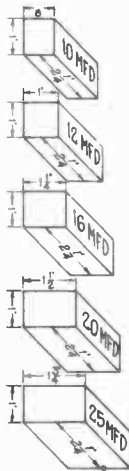
Potter Condenser Replacements



SET AND MODEL	CODE NO.	NET					
APEX 36	4387	\$3.70	PADA			SILVER MARSHALL	
" 37	4322	2.85	16-1473MS	5554	5.10	30 Filter	SM30F 5.70
" 41	733	2.25	25-1780X	5951	3.75	30 Bypass (3316)	4601 .66
" 46-46A	975	2.25	35-35Z 1790X	7425	4.30	37	6258B 3.90
" 47-47A	975	2.25	25-35 Late-1801X	7424	3.75	Sheridan	4632 2.40
" 48-48A	5773	2.25	42-44-46-47 1830X	7414	3.75	726	6260B 1.80
ATWATER KENT			50-70-71-72-75-77-1492MS	1492MS	4.55	726 Bypass (3316)	4601 .66
37-38 COND. AND CHOKE	5100	3.50	JACKSON BELL			72 Bypass (13140)	5916 1.15
37-38 COND. ONLY	8247	1.75	Midget 62	6235B	2.70	SPARTON	
40-42-52-56 COND. ONLY	8248	1.95	KENNEDY			AC5	AC5 4.10
43-46-47-53 "	5824	3.50	22-36-38-40 D.C.	5133	4.20	AC6	AC6 7.60
55-55C-60-60C Cond. Only	5796	3.50	22-36 A.C.	4606B	3.60	AC7-AC62-AC63	AC62 4.50
66 COND. ONLY	7859	4.80	22-36 A.C. Bypass Assem.			AC69-79-89	AC79 4.75
PREMER TULLY			14 Terminals	7211	2.55	88	AC88 6.00
8-20A 8-21A	7362	7.75	MAJESTIC			89A	AC89A 10.10
640-641	7383	4.80	70 Series 7BP6	7P6	3.25	109	5193 7.25
770-771	7746	5.40	80 Series 8BP6	8P6	4.75	AC110	AC110 7.60
BRUNSWICK			90 Series 9BP6	9P6	4.75	301	7365 6.25
S14-S21-S31	5706	5.40	90B-100B	MJ90B	4.50	930	7290 4.50
CLARION			50	7378	3.50	410 Jr.	6544B 3.25
51-53-55	7504	9.00	21-22-23	7546	6.00	STEINITE	
60	7495	9.00	OTARKA			12	5371 4.25
COLUMBIA			90	5865	5.60	40 P.P.	5453 4.80
S.G.8	7382	4.75	PHILCO			70-80-95	5376 6.00
A.C. 29	5654	4.75	76-77	5769	3.60	261-262 3 Mfd.	4297 3.30
DAYPAN			86	7493	5.10	261-262 2 "	4298 2.25
5091	7302	3.60	87	7237	5.00	23 Chassis	6598B 2.25
A5005	A5005	5.45	531	5759	4.75	26 "	6599B 2.40
ECHOPHONE			R.C.A. RADIOLA			990 "	5207 5.10
S-3	5483	2.55	17-50	7406	7.20	VICTOR	
S-4	5612	2.75	30A WS3780	5929	7.00	9-18 9-54 W66	7423 15.00
M-60	6557B	2.25	30A WS3781	5928	6.75	9-18 9-54 Bypass	5788 1.75
39	6942B	.83	18-33-51 Bypass	5788	1.65	R32-RE45-R52	5782 7.20
38	6910B	1.56	41 3 Term. 4 Lead	7056	5.40	ZENITH	
EVEREADY			9-18 W755	7463	15.00	ZE 17 Power Supply	22-49 4.50
30-40-50 Series	5828	5.10	80-82-86	7320	7.20	10-30 "	22-40 3.25
52	5659	5.10	105	5649	15.00	8	22-52 5.50
			104 Speaker (5345)	4396	3.90	8	22-56 5.50
						9	22-54 6.00
						6	22-17 7.50
						11-12-40	22-41 5.50
						18	7346 5.00
						7	4018 7.50
						4	22-16 7.00

HERE YOU ARE AT LAST BOYS! ALL THOSE HARD TO GET SPECIALS FOR A.C.-D.C. SETS. JUST LOOK AT THESE PRICES. THEY'RE RIGHT.

NUMBER	TERMINALS	CAPACITY	VOLTAGE	NET
DC738	NEG. COMM.	10-10	175	.75
DC742	POS. COMM.	12-7	175	.75
DC744	NEG. COMM.	12-8	175	.75
DC750	NEG. COMM.	16-8	175	.81
DC752	POS. COMM.	16-8	220	.87
DC754	NEG. COMM.	16-16	175	.99
DC760	NEG. COMM.	25-5	175	.84
DC766	SEPARATE	16-16-8	175	1.53
DC782	NEG. COMM.	10-10	35	.45
DC784	CROSLEY PART NO. W27488	8 Mf. 25 V.		.57
		6 Mf. 300 V.		.45
DC786	CROSLEY PART NO. W24779	8	175	.45
DC794	R.C.A.-G.E. MIDGET	4-4	175	.51
DC796	INTERNATIONAL KADETTE	4-4	175	.51
RS10		10	220	.54
RS12		12	220	.57
RS16		16	220	.63
RS20		20	220	.72
RS25		25	220	.75



KPG High impedance pickup to 1 grid 1.53
 KSMG Single button microphone to 1 grid 1.53
 KMG Double button microphone to 1 grid 1.53

STANCOR FILTER CHOKES
 CHOKES (30 henries) 50MA C-1003 \$ 49
 CHOKES (30 henries) 75MA C-1002 \$.87
 CHOKES (30 henries) 110MA C-1001 \$1.08
 CHOKES (30 henries) 150MA C-1102 .75

EXACT REPLACEMENT AUDIOS

PHILCO 62, 65, 92, 95, 96, 96A, 111, 111A, 211, 211A, 296, 296A (pushpull audio input) A-104-C-P \$ 2.25
 (for 245 tubes) 112, 112A, 212, 212A (pushpull audio input) A-104-C-P 2.25
 30, 40, 41, 42, 72, 76, 77, 77A, 82, 91, 96, 97 (pushpull output) A-72-Y-C-P 1.89
 85, 87, Transitions 3 (1st Audio) A-74-Y-C-P 1.77
 (pushpull input) 20, 20A, 21, 220, 220A A-74-C-P 1.91
 70, 20A, 21, 40, 41, 42, 44, 52, 65, 78, 78A, 77, 77A, 82, 83, 84, 87, 92, 95, 96, 96A, 111, 111A, 211, 211A, 220, 220A, 296, 296A (pushpull output) A-131B-P 1.94
 (for 245 tubes) 90, 90A, 112, 112A, 212, 212A (pp output) A-218-P 1.44
 (Output) Transitions 8 A-239Z-P 1.44
 15, 15A, 40, 41, 42, 62, 65, 78, 76, 77, 77A, 83, 87, 92, 95, 96, 96A, 111, 111A, 112, 112A, 211, 211A, 212, 212A, 296, 296A (1st position choke) C-1075-P 1.65
 (Choke) 30, 82, 85 C-1141-P 1.65
 (2nd position choke) 88, 87 C-1140-P 2.16

CLARION P.P. INPUT
 A.C. 60 #2132 \$2.82
 A.C. 61 #2133 2.94
 A.C. 25-61 #2133 2.94

WALTER ASHE RADIO CO.
 1100 PINE STREET " " " " ST. LOUIS, MO.

Readrite



NARROW RIM PANEL TYPE

Mounting Hole 2 5/64"

D.C. VOLTMETERS

No.			
603	0-3 volts	175 ohms	\$.59
605	0-5 volts	410 ohms	\$.59
326	0-6 volts	550 ohms	\$.59
335	0-8 volts	850 ohms	\$.59
310	0-10 volts	1475 ohms	\$.59
316	0-15 volts	2914 ohms	\$.59
333	3-0.3 volts	550 ohms	\$.59
607	0-25 volts	1625 ohms	\$.59
337	0-50 volts	3250 ohms	\$.59
337-H	0-50 volts	15440 ohms	1.91
339	0-100 volts	6500 ohms	.86
342	0-150 volts	9750 ohms	1.03
346-P	0-300 volts	92640 ohms	1.91
347-P	0-500 volts	154400 ohms	2.65
246-P	0-60-300 volts	92640 ohms	2.65
609	0-750 volts	231600 ohms	3.22

D.C. AMMETERS

336	0-3 amperes	\$.59
381	0-5 amperes	\$.59
338	0-10 amperes	\$.59
303	3-0.3 amperes	\$.59
606	6-0.6 amperes	\$.59
110	10-0.10 amperes	\$.59
220	20-0.20 amperes	\$.59

D.C. MILLIAMMETERS

305	0-5 2160 ohms	\$1.32
311	0-10 700 ohms	1.18
315	0-15 295 ohms	\$.59
325	0-25 85 ohms	\$.55
350	0-50 20 ohms	\$.59
390	0-100 5.5 ohms	\$.59
391	0-150 3.3 ohms	\$.59
392	0-200 1.9 ohms	\$.59
399	0-300 .8 ohms	\$.59
394	0-400 .5 ohms	\$.59
395	0-20-0-100 175/30 ohms	1.18
402	0-15-150 305/24 ohms	1.18

A.C. VOLTMETERS

314	0-4 volts	\$1.62
353	0-6 volts	1.62
352	0-10 volts	1.62
351	0-15 volts	1.62
348-P	0-150 volts	2.65
349-P	0-300 volts	3.22
247-P	0-600 volts	3.81
249	0-750 volts	4.56
355-P	0-10-140 volts	2.65

A.C. AMMETERS

361	0-3 amps.	\$1.62
362	0-5 amps.	1.62
363	0-10 amps.	1.62

A.C. MILLIAMMETERS

370	0-25 milliamps.	\$1.62
371	0-50 milliamps.	1.62
372	0-100 milliamps.	1.62
373	0-250 milliamps.	1.62
374	0-500 milliamps.	1.62

RESISTANCE METER MODEL 501



No. 501. Resistance meter used in No. 500 ohmmeter. Furnished either with wide flange as shown or narrow rim type for rear clamping. A thoroughly reliable instrument at a popular price. Requires three small flashlight cells, which with resistance to be measured are connected in series with meter. Used for testing resistances in radio receiving sets, and circuits generally. Fine for continuity tests. **\$1.62**

No. 503—Resistor, 1150 ohms with jack terminals for use with 22.5 volt battery to increase reading of No. 500 ohmmeter to 60,000 ohms. **\$1.03**

Same without jack terminals for 501 meter. **59c**

No. 504—Resistor, 2100 ohms, center tapped, for use with 45 v. battery to increase reading of No. 500 and No. 502 ohmmeters to 100,000 ohms, with tip jacks. **\$1.32**

TYPE H FLANGE



Used to convert Readrite Model 55 meters to wide flange type. Black 3 hole rim mounting holds meter to panel without back support. Flange diam. 2 1/2 in.

NET **9c**

DIRECT READING OHMMETER



Complete with a small 3-cell flashlight battery; current drain negligible. Tests resistances up to 10,000 ohms. Model 502 has a second scale to test low resistances to 40 ohms, in addition to 10,000 ohms. Voice coils of dynamic speakers and shorted turns of i. f. transformers are tested best on the low range. Knob adjusts the needle to full scale. Wire leads are furnished for continuity tests. Case is baked enamel finish, seamless steel, 4" dia. Weight one pound **\$3.81**

No. 500—0-10,000 ohms **\$3.81**

No. 502—0-10,000 and 0-40 ohms **\$4.56**

OUTPUT A. C. VOLTMETERS



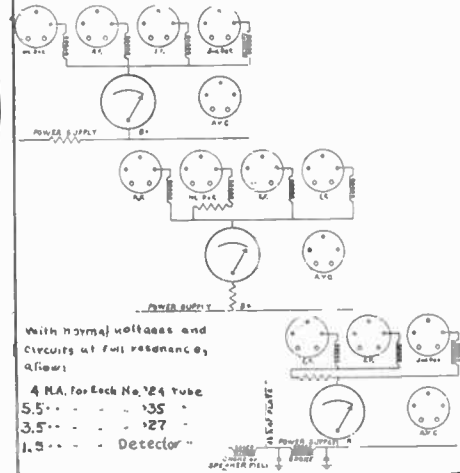
A reliable instrument for indicating output voltage of a radio set. Used for lining up r.f. and i.f. stages by determining maximum gain. Also comparing gain of tubes, r.f. tuner selectivity, hunt, and faulting. A practical, low priced d.c. voltmeter with copper-oxide rectifier of the full wave type. Model No. 555 is same assembly as used on No. 550 oscillator. For convenience the portable instrument Model No. 575 has been designed. Test leads are furnished with Model No. 575. Case is baked enamel over seamless steel 4 1/2" dia. The assembly includes voltmeter, rectifier, jacks and condenser. Connect low voltage (0-5) jacks to dynamic speaker voice coil, and high voltage (0-50) jacks to magnetic speaker terminals.

CASE TYPE No. 575 **\$4.85** PANEL TYPE No. 555 **\$4.26**

Exactly same assembly as described above with exception that it is mounted on panel. This instrument is the same output meter as used with 550 oscillator. No test leads included.



PROPER CIRCUITS FOR TUNING METERS



RESONANCE TUNING METERS

Supplied 0-5; 0-7; 0-10; 0-15 M.A. Please specify desired range

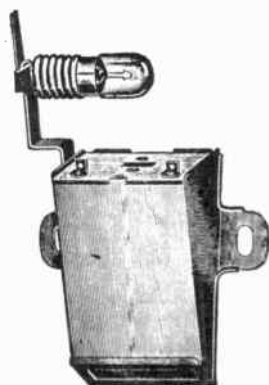
List Price.....\$1.50
NET.....\$.88

ESCUTCHEONS

List Price.....\$.30
NET......18

Refer to above diagrams for best results.

WRITE FOR FREE, COMPLETE, CATALOG



TM-120



TM-103



TM-108



Escutcheon

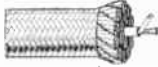
WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

Belden Radio Products



Belden Battery Cable

No. 8855 100 ft. spool, 5 Conductor, PER FOOT .06
 No. 8857 100 ft. spool, 7 Conductor, PER FOOT .07



Belden Auto Radio Shielded Lead-in Wire

For auto radio installations. Also may be used for connecting Short Wave Converters. Jute fillers are wrapped around conductor and shielding overall produces very efficient wire for auto radio use.
 No. 8876 100 feet No. 18 Shielded PER FOOT .05



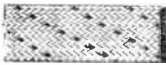
Belden Hookup Wire— PER ROLL .18

No. 8880 25-ft. No. 18 Stranded Tinned Copper Wire, insulated with 1/64" Colorubber, (natural, green, blue, red, brown or yellow) any color, per carton



Belden Aerial Wire

No. 8821 100 ft. 7x22 Beldenamel PER FOOT .48
 each in carton



Belden Auto Radio Shielding

For making automobile radio installations. Tinned copper shielding furnished on 50-ft. spools.

No. 8930 50 feet, 13 64" Inside Diameter PER FOOT .03
 No. 8931 50 feet, 3 8" Inside Diameter PER FOOT .05
 No. 8932 50 feet, 25 32" Inside Diameter PER FOOT .08



"BELDEN" AIRMAN

A NEW CHAMBRIC COVERED SHIELDED SINGLE CONDUCTOR CABLE ESPECIALLY DESIGNED FOR AIRPLANE AND AUTOMOTIVE RADIO INSTALLATIONS.
 NET PER FOOT ----- .03



Belden Lead-in and Ground Wire

500' ROLL #18 R.C. FOR LEAD-IN AND HOOK-UP
 NET PER ROLL ----- \$1.95

1000' ROLL #20 R.C. FOR LEAD-IN AND HOOK-UP
 NET PER ROLL ----- \$2.75

HEAVY #14 RUBBER COVERED WIRE FOR FILAMENTS
 NET PER FOOT ----- .02

PUSH-BAK HOOK-UP WIRE - RED AND GREEN COVER
 STRAUNDED #18, NET PER ROLL OF 25' \$.18
 SOLID #18, NET PER ROLL OF 25' .20



MAGNET WIRE Prices Per Spool

suitable for all radio work

#	P.E.	
	1 LB.	1/2 LB.
#16		
18		
20	.15	.24
22	.15	.24
24	.15	.26
26	.16	.28
28	.19	.33
30	.21	.38
32	.24	.40
34	.26	.44
36	.31	.54

#	D.C.C.	
	1 LB.	1/2 LB.
#16		
18		
20	.16	.30
22	.20	.33
24	.25	.39
26	.27	.50
28	.33	.63
30	.43	.79
32	.52	.90
34	.60	1.03
36	.67	1.20



SOLID P.M. ENAMELED AERIAL WIRE.

Length	Wire #	NET
100'	#14	\$.45
200'	#14	.83
100'	#12	.66
200'	#12	1.27
100'	#10	1.25
200'	#10	2.50



"LAMP CORD"

STANDARD THREE TWISTED
 NET PER FOOT ----- .02
 WEATHER PROOF, IDEAL FOR
 SHORT WAVE TRANSPPOSED
 LEAD-INS.
 NET PER FOOT ----- .03



Tinned Buss Wire

#12
 NET PER LENGTH --- .0214
 #14
 NET PER LENGTH --- .0224

HEAVY STRAUNDED FILAMENT
 WIRE, EQUAL TO #10.
 NET PER FOOT ----- .03

"SUPREME"
 8 WIRE ANALYZE CABLE
 VERY FLEXIBLE.
 NET PER FOOT .08

VENZ
 SHIELDED CABLES

Wire #	NET
1 WIRE	.03
2 "	.04
3 "	.07
4 "	.07
5 "	.09



"QUICKUP" AERIAL TAPE
 FOR HOME AND AUTO.
 STICKS TO ANYTHING
 NET PER ROLL --- .36

MAJESTIC DIAL CABLES
 NET EACH .22
 LOTS OF SIX E. .17



"Spaghetti" Tubing
 1/16 inch length. The only quality material made here at high price. Insulation transparent enough that internal wires may be used in many different circuits.
 Black
 Yellow
 PER LENGTH, NET .06



Friction Tape
 The best quality tape with plenty of live friction rubber. Equally well suited to Radio, automobile, electrical or household use. Kept fresh by wrapping in tin foil.
 20' Per Roll
 Your Cost Each ----- .20



BUSS RADIO FUSES

Ampere	Net
1 Ampere	.04
1 1/2 "	.04
2 "	.04
3 "	.04



I.C.A. KNIFE SWITCHES
 Genuine Bakelite Base

Type	Net
SPST	.50
SPDT	.56
DPST	.42
DPDT	.48

Kester Resin Core Solder



Requires no flux as resin has been oxidized into the core of solder wire. Best for fine radio work and electrical work. Price, net 6¢ per lb. (2 to 4 ounces).
 LIST 24, YOUR PRICE
 NET .18



KESTER

KESTER ROSIN CORE SOLDER
 Kester rosin core solder is the standard used throughout the radio industry. Rosin is the only flux that will not corrode and cause noisy joints to develop. All Kester solder is made from virgin metals, there is no apotizing. Connections are quickly and easily made without the use of any flux. If it's radio work—Use Kester Rosin Core.
 Per lb. spool NET .61

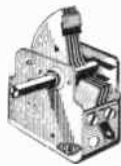
WALTER ASHE RADIO CO.
 1100 PINE STREET " " " " ST. LOUIS, MO.

Condensers ~ Adapters ~ Neutralizing-tools &

Bud Precision Tuning Condensers

SINGLE GANG

TYPE	CAPACITY	NET
1047	50 Mmfd.	\$.69
1048	100 "	.69
968	150 "	.75
1043	350 "	.90

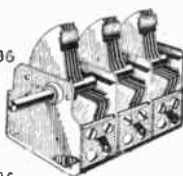


TWO GANG

971	150 Mmfd.	\$1.26
969	350 "	1.35

THREE GANG

970	350 Mmfd.	\$1.06
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SUPERHET TRACKING CONDENSERS -- 175 K.C.

TYPE	CAPACITY	NET
972	350 Mmfd.	\$1.86
858	350 Mmfd.	2.55

RADIO FREQUENCY CHOKE



UNSHIELDED

No.	M.H.	Net
116	80	\$.54
221	80	.54
276	2.5	.45
277	3.4	.54
128	60	.54
257	5.5	.45
276	10	.45

SHIELDED

276	2.5	.45
274	3.5	.45
276	5.5	.45
273	10	.45
271	30	.60
272	60	.80
270	80	.60

ADAPTERS

BUD OUTPUT ADAPTER

No. 117
Designed so that both grid and plate connections can be taken from tube enabling the connecting of additional speakers and also the use of a Tone Control or Bud Radio Silencer.

Price \$.75 Per Pair
Net \$.44

PENTODE OUTPUT ADAPTER



No. 199 Pentode Output Adapter designed so that additional speakers can be connected to Radio Set that has only one Pentode Tube. Wire Leads 42" long and have phone tips soldered to ends. Packed one (1) to a box

Price \$.50
Net \$.29

UNIVERSAL ADAPTER



The new Universal Adapter will supply plates, filament, cathode or grid to detector. Serviceman can read by use this adapter for any removed through by connecting or soldering to desired prongs. Prongs not required can easily be removed by slide or lift on the adjuster without using. Efficient and practical for all service work.

NET \$.15 ea.
No. 2027 4 prong
No. 2028 5 prong
No. 2029 6 prong
No. 2030 7 prong

6 PRONG PHONO or MICROPHONE ADAPTER

No. 247 Adapter enables one to connect a phonograph pick-up, or microphone to any radio set using 37 or 58 tube for detector

Price \$1.25
Net \$.73

BUD OUTPUT ADAPTER



No. 116 designed so that additional speakers can be connected to any radio set that is using 4 prong power tubes without having to disconnect any of the wiring of radio set or solder any connections. Packed 2 in a box

Price \$.50 Per Pair
Net \$.29

BAKELITE FOUR, FIVE, SIX AND SEVEN PRONG PLUGS



No. 288-4 Prong Plug	Net \$.21	No. 290-4 Prong Plug	Net \$.15
No. 289-5 Prong Plug	Net \$.24	No. 291-5 Prong Plug	Net \$.18
No. 309-6 Prong Plug	Net \$.27	No. 308-6 Prong Plug	Net \$.21
No. 313-7 Prong Plug	Net \$.29	No. 314-7 Prong Plug	Net \$.24

BUD ACE LIGHTNING ARRESTER



No. 202
LIGHTNING ARRESTER
Price \$.12

CRYSTAL POLARIZED GLASS INSULATORS

No. 215
CRYSTAL POLARIZED GLASS INSULATORS
Shipping Wt. 100 17 lbs
Price \$.06
No. 213
PORCELAIN INSULATOR
Shipping Wt. 100 14 lbs
Price \$2.06 Per lb.

Fahnestock Clips



No. 6
NET \$.02

BUD GROUND ROD

No. 210
Cadmium plated
Packed 12 to carton
4ft. 30¢; 6ft. 45¢
BUD STRAP GROUND CLAMP
No. 205
Shipping Weight 100-5 lbs.
Price \$.04

BUD ANTENNA ELIMINATOR and SELECTOR



No. 100
Price \$1.50
Net \$.88

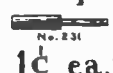
Bud Soldered Lead-in Fabric "Weather-proof Covered"

No. 207
Price \$.04

Bud Stayput Lead-in Fabric "Weather-proof Covered"

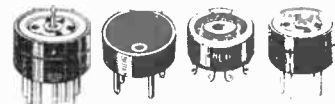
No. 209
Price \$.04

Phone Tips



No. 231
1¢ ea.

MAKE YOUR OWN ADAPTERS



Interchangeable Bud Sockets and bases suitable for every Adapter. Equipment ideal for making adapters, such as phono, 2017 microphone, armoire and test adapters. Also, can be used for making adapters for in-tuning radio sets

Adapter Section—Male	List	Net
No. 1022-4 prong small plug section	\$.15	\$.09
No. 1023-5 prong small plug section	.20	.12
No. 1024-6 prong small plug section	.20	.12
No. 1025-7 prong small plug section	.25	.15
No. 1026-4 prong reg. plug section	.15	.09
No. 1027-5 prong reg. plug section	.20	.12
No. 1028-6 prong reg. plug section	.20	.12
No. 1029-7 prong reg. plug section	.25	.15
Adapter Socket Section	List	Net
No. 1017-4 prong	\$.25	.15
No. 1018-5 prong	.25	.15
No. 1019-6 prong	.30	.18
No. 1020-7 prong (Reg.)	.35	.21
No. 1021-7 prong (Small)	.35	.21
No. 1043-7 prong (Comb.)	.45	.27
No. 1044-4.5-6 prong (Comb.)	.45	.27
No. 1015-L, R - Wind for Adapters which fits universally with latch lock plugs used on analyzers	.20	.12

TEST LEADS



No. 184
Test Lead has long sharp needle point. This Test Lead is similar to No. 185 only that point is not removable. Supplied with either SPADE or PHONE TIP TERMINALS. Length of Wires 42"

Price \$.50
Net \$.29
Price \$.75
Net \$.40

BUD TUBE SHIELD



For Screen Grid or 27 type Tubes Perforated in top for air circulation and made of excellent grade of Drawn Aluminum. Highly polished. Size 4 1/4" high, 2 1/4" in diameter. Supplied with Base.

No. 292
Price \$.20
Net \$.12

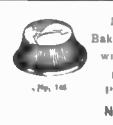
NEW TUBE SHIELD

For New Type Tubes. Made of excellent grade of Drawn Aluminum. Highly polished.

No. 302
Price \$.25
Net \$.15

ALUMINUM COIL SHIELD

No. 293
Price \$.25
Net \$.15



No. 14b
Bakelite Knob with arrow pointer.
Price \$ 1.0
Net \$.06



No. 14f
Pressed Wood Knob Will match knobs on G.E., R.C.A., Westinghouse like R.28
Net \$.12

Neutralizing and Alignment Tools

No. 287
BUD NEUTRALIZING and COMPENSATING SCREW DRIVER
Price \$.30 NET \$.18

No. 281
BUD BALANCING TOOL and ATTACHMENT enables the serviceman to neutralize or balance any radio without having to remove chassis from cabinet.
Price \$.45
Net \$.25

No. 286
BUD NEUTRALIZING and COMPENSATING SCREW DRIVER with Bakelite Knob.
Price \$.40 NET \$.24

No. 118
BUD 4-IN 1 NEUTRALIZING and ALIGNMENT TOOL
Price \$.75 NET \$.44

Neutralizing and Aligning Tool Kit
NET \$2.35

No. 285
BUD NEUTRALIZING WRENCH and SCREW DRIVER
Price \$.50 NET \$.29

No. 119M Majestic Attachment for BUD 4-in 1 TOOL—Price \$.20
Net \$.12

No. 119C Crosley Attachment for BUD 4-in 1 TOOL—Price \$.20
Net \$.12

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

RAY-O-VAC RADIO BATTERIES

RAY-O-VAC CLASS A RADIO BATTERIES

CLASS A "B" BATTERIES

Number	Volts	Type	Net
9303	45	H.D.	\$1.40
2303	45	Std.	1.05
5303	45	Port.	1.40



Prices Effective Feb. 15 '34

CLASS A "C" BATTERIES

5151	22½	"C"	.88
4151	22½	"C" Midget	.88
231W	4½	"C"	.25
531R	4½	"C" Test Kit	.28
551	7½	"C"	.53

Class "A" Dry Cell For All Radio And Telephone Uses.

1211	1½	Dry Cell	.28
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All Batteries are Guaranteed Fresh Stock. Liberal Ray-O-Vac Guarantee.

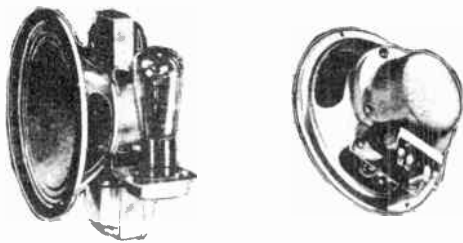
RAY-O-VAC CLASS C RADIO BATTERIES

CLASS C "B" BATTERIES

7933	45	H.D.	1.25
7233	45	Std.	.92

"TARTAK" MAGNETIC AND DYNAMIC SPEAKERS LESS OUTPUT TRANSFORMERS

8 Inch A.C.	NET \$6.45
11 " "	6.00
.6 " D.C. 2500 Ohm	1.50
8 " " " "	3.00
11 " " " "	4.25
.5 " Magnetic	1.50
6 " " "	2.10
8 " " "	2.60
8 " " Cased	4.25



"CARTER" "5999" Universal Output Transformer Will Match Any Tubes To The Above Speakers,

NET-----\$1.05

"CARRON" REPLACEMENT CONES

	NET
Majestic G-1	\$1.17
Majestic G-2	1.17
Newcomb-Hawley	1.65
Utah A-100	1.65
Utah 8 Inch	1.50
Jensen D-9 (Note: Specify inside or outside spider.)	1.75
Jensen D-15	1.35
Victor R E-32	1.32
Apex 26A	1.35
Apex 26P	1.20

Only a few are listed, but any cone can be supplied on order, for any speaker. Complete with voice coil. In ordering, send in old cone.

Replacement Cells

for Wet "B" Eliminators

FOR USE WITH PHILCO—WILLARD—USL—VESTA and EXIDE ELIMINATORS



For replacing exhausted cells in electrolytic B units. Glass jar, size 1½x2½ inches high is complete with electrolyte and screw top holding two electrodes. Ready for instant service. Exact size used in eliminators listed above. Guaranteed by the manufacturers to give satisfactory service in B eliminators designed for them. Come in sets of four in carton.

List. per set of four, \$4.00.
YOUR NET PRICE. **\$2.40**
Per set of four.....

BATTERY CLIPS	
123B PEE WEE SIZE 10Amp.	Net \$.04
123 MEDIUM SIZE 25Amp.	.07
124 LARGE SIZE 50Amp.	.12
ALLIGATOR	.05



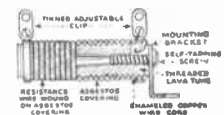
WALTER ASHE RADIO CO.

1100 PINE STREET * * * * ST. LOUIS, MO.

THE NEW DESIGN OF TRUVOLT ADJUSTABLE RESISTOR — The Most Adaptable Of All Resistors

GREATLY IMPROVED! 1000 VOLT INSULATION

Truvolt resistors, since their introduction to the radio industry, have held first place in popularity with the serviceman and experimenter by their absolute merit. The unique patented construction offers many advantages over the usual type resistor.



WRITE FOR FREE
BEST POCKET VOLUME
CONTROL GUIDE.



The most valuable hand book ever compiled to aid the service man. An accurate, loose-leaf guide to resistor value in all receivers. Durable, flexible Dupont Fabrikoid cover. Kept up-to-date by four supplements a year.

Hundreds of enthusiastic service men use this book daily, and have written to us praising its time, labor and money-saving helpfulness.

YOUR COST—\$1.00 A YEAR
INCLUDING FOUR SUPPLEMENTS

TYPE B 25 Watts 1 1/8" x 2" WITH MOUNTING BRACKET

Type	Resistance in Ohms	Current in Milli-amperes	Your Cost
B-1	100	500	} 49¢
B-2	200	353	
B-2.5	250	320	
B-3	300	289	
B-4	400	250	
B-5	500	224	
B-7.5	750	182	
B-8	800	177	
B-8.5	850	165	
B-10	1000	158	
B-12.5	1250	141	
B-15	1500	12	
B-20	2000	112	
B-22.5	2250	105	
B-25	2500	100	
B-30	3000	91	
B-35	3500	84	
B-40	4000	79	
B-45	4500	75	
B-50	5000	71	
B-60	6000	64	
B-70	7000	60	
B-72	7200	59	
B-75	7500	58	
B-80	8000	56	
B-90	9000	53	
B-100	10000	50	
B-120	12000	45	
B-150	15000	41	
B-200	20000	35	
B-250	25000	32	
B-300	30000	29	
B-400	40000	25	
B-500	50000	22.5	

Wt. 1 unit in carton ... 1 1/2 oz.
Wt. 12 units in container 19 oz.

TYPE C 50 Watts 1 1/8" x 4" WITH MOUNTING BRACKETS AND ONE EXTRA SLIDING CLIP

Type	Resistance in Ohms	Current in Milli-amperes	Your Cost
C-1	100	700	} 79¢
C-2	200	500	
C-3	300	406	
C-4	400	353	
C-5	500	316	
C-7.5	750	259	
C-8	800	252	
C-10	1000	224	
C-12.5	1250	200	
C-15	1500	182	
C-20	2000	158	
C-22.5	2250	149	
C-25	2500	141	
C-30	3000	129	
C-35	3500	119	
C-40	4000	112	
C-45	4500	105	
C-50	5000	100	
C-60	6000	91	
C-70	7000	84	
C-72	7200	83	
C-75	7500	82	
C-80	8000	79	
C-90	9000	74	
C-100	10000	71	
C-120	12000	65	
C-150	15000	58	
C-200	20000	50	
C-250	25000	45	
C-300	30000	41	
C-400	40000	35	
C-500	50000	32	
C-600	60000	29	
C-800	80000	25	
C-1000	100000	22.5	

Wt. 1 unit in carton ... 2 oz.
Wt. 6 units in container 11 oz.

TYPE D 75 Watts 1 1/8" x 6" WITH MOUNTING BRACKETS AND ONE EXTRA SLIDING CLIP

Type	Resistance in Ohms	Current in Milli-amperes	Your Cost
D-1	100	865	} 94¢
D-2	200	610	
D-3	300	500	
D-4	400	432	
D-5	500	387	
D-7.5	750	316	
D-8	800	306	
D-10	1000	274	
D-12.5	1250	245	
D-15	1500	224	
D-22.5	2250	182	
D-25	2500	173	
D-30	3000	158	
D-35	3500	146	
D-40	4000	137	
D-45	4500	129	
D-50	5000	122	
D-60	6000	112	
D-70	7000	103	
D-72	7200	102	
D-75	7500	100	
D-80	8000	97	
D-90	9000	91	
D-100	10000	87	
D-120	12000	79	
D-150	15000	71	
D-200	20000	61	
D-250	25000	55	
D-300	30000	50	
D-400	40000	43	
D-500	50000	39	
D-600	60000	35	
D-800	80000	31	
D-1000	10000	27	

Wt. 1 unit in carton ... 3 1/2 oz.

EXTRA TRUVOLT ADJUSTABLE CLIPS—Made in Two Types

Type 1—For Truvolt Type A YOUR COST 4¢ each
Type 2—For Truvolt Types B, C and D YOUR COST 4¢ each

New all-metal Aerial Made of Electralloy



This new, inexpensive, one-piece electralloy aerial is easily and quickly mounted under the running board of any car. Electralloy is non-magnetic and non-corrosive. It provides ample pick-up and true, noiseless reception under all conditions. It is 35" long, 8" wide and is unaffected by any kind of weather. Without a doubt the most efficient aerial of its type at any price. Supplied complete with three heavy springs—a protection against breakage—and an ample wire lead for connecting to the radio set.

CAT. NO. 346

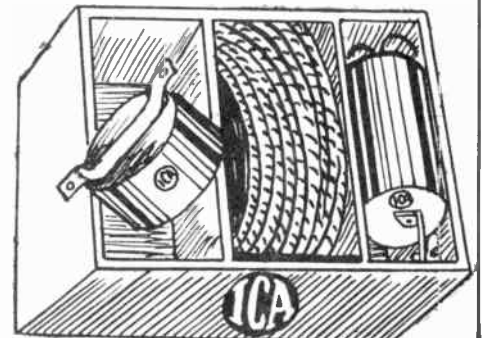
NET. \$1.47

ICA Filterformer Kit

"MAN-MADE" static is the detriment to radio enjoyment on the part of all radio set owners. Now the ICA Filterformer System definitely eliminates that nuisance. Anyone can install it. It is not just another "gadget" but a real scientific achievement that does everything claimed for it.

List \$4.50

NET... \$2.70



WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

FIELD COILS *and* VOICE COILS REWOUND

WE ARE NOW ABLE TO OFFER TO THE SERVICEMAN AND JOBBER A COMPLETE LIST AND CHART FOR THE REPLACEMENT OF ANY SPEAKER FIELD.

EACH FIELD IS REWOUND WITH NEW WIRE AND TO THE EXACT DIMENSIONS AND RESISTENCE OF THE OLD FIELD. ALL WORK IS UNCONDITIONALLY GUARANTEED.

(NOTE) TO DETERMINE THE COST OF A FIELD REWIND FIND THE APPROXIMATE WEIGHT IN POUNDS AND THE RESISTENCE IN OHMS, LOCATE THE POINT AT WHICH THESE TWO FACTORS INTERSECT AND YOU WILL FIND YOUR NET PRICE.

WEIGHT IN POUNDS

D.C. RESISTANCE IN OHMS

	0- $\frac{1}{4}$	$\frac{1}{4}$ - $\frac{1}{2}$	$\frac{1}{2}$ - $\frac{3}{4}$	$\frac{3}{4}$ -1	1- $\frac{1}{4}$	$1\frac{1}{4}$ - $1\frac{1}{2}$	$1\frac{1}{2}$ - $1\frac{3}{4}$	$1\frac{3}{4}$ -2	2- $2\frac{1}{4}$	$2\frac{1}{4}$ - $2\frac{1}{2}$	$2\frac{1}{2}$ - $2\frac{3}{4}$	$2\frac{3}{4}$ -3
250	.39	.87	1.35	1.95	1.74	—	—	—	—	—	—	—
500	.54	.78	1.11	1.74	1.74	2.67	—	—	—	—	—	—
750	.54	.78	1.17	1.74	1.74	2.61	2.61	2.61	4.02	—	—	—
1,000	.48	1.05	1.56	1.56	2.31	2.31	2.31	3.48	3.48	3.48	3.48	5.43
1,250	.60	.87	1.32	1.95	1.95	2.88	2.88	2.88	2.88	4.35	4.35	4.35
1,500	.57	1.08	1.59	1.59	2.34	2.34	2.34	3.45	3.45	3.45	3.45	5.22
1,750	.66	.81	1.23	1.86	1.86	2.73	2.73	2.73	4.02	4.02	4.02	4.02
2,000	.75	.93	1.38	2.10	2.10	3.18	3.18	3.18	3.18	4.62	4.62	4.62
2,250	.57	1.05	1.56	1.56	2.37	2.37	3.51	3.51	3.51	3.51	5.19	5.19
2,500	.63	1.17	1.74	1.74	2.64	2.64	2.64	3.87	3.87	3.87	3.87	5.76
2,750	.69	1.29	1.29	1.92	1.92	2.91	2.91	2.91	4.26	4.26	4.26	4.26
3,000	.78	1.14	1.47	2.10	2.10	3.15	3.15	3.15	4.65	4.65	4.65	4.65
3,250	.84	1.23	1.53	2.25	2.25	2.25	3.42	3.42	3.42	5.04	5.04	5.04
3,500	.57	1.32	1.65	1.65	2.43	2.43	3.69	3.69	3.69	3.69	5.43	5.43
3,750	.60	1.41	1.77	1.77	2.61	2.61	3.96	3.96	3.96	3.96	5.79	5.79
4,000	.66	1.50	1.86	1.86	2.79	2.79	2.79	4.20	4.20	4.20	4.20	6.18
4,250	.69	1.59	1.62	1.92	2.94	2.94	2.94	4.47	4.47	4.47	4.47	4.47
4,500	.72	1.07	1.65	2.10	2.10	3.12	3.12	3.12	4.74	4.74	4.74	4.74
4,750	.78	1.23	1.80	2.22	2.22	3.30	3.30	3.30	5.01	5.01	5.01	5.01
5,000	.81	1.29	1.89	2.34	2.34	3.48	3.48	3.48	3.48	5.25	5.25	5.25
6,000	.69	1.53	2.25	2.22	2.37	2.37	4.17	4.17	4.17	4.17	4.17	6.33
7,000	.78	1.04	1.80	2.64	2.64	3.27	3.27	3.27	4.95	4.95	4.95	4.95
8,000	.90	1.29	2.07	3.06	3.03	3.75	3.75	3.75	3.75	5.64	5.64	5.64
9,000	1.02	1.44	2.31	2.31	3.39	3.39	4.20	4.20	4.20	4.20	6.33	6.33
10,000	1.14	1.62	2.58	2.58	3.78	3.78	3.78	4.68	4.68	4.68	4.68	7.05

NOTE: These are NET prices, (List, less 40%)

These prices do not apply to coils wound in layers with extra insulation between layers, or to coils wound with wire other than Plain Enamel. For coils of these types, write or ask us for prices.

SPECIAL NOTE !

SAVE that old voice coil and cone. As long as the cone and voice coil form are left WE can rewind the coil EXACTLY as it was before. YOUR COST 1 to 10 ohms \$.60 OVER or UNDER 1 to 10 ohms See us.

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

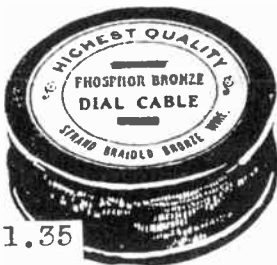
**BRONZE
Dial Cable**

Your Cost

10 ft. or less . . . **5c** ft.

25 ft. or less . . . **4c** ft.

50 Ft. Spool Net **\$1.35**

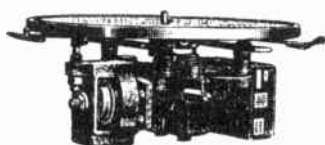


**New Two-Speed Governor Controlled
GREEN - FLYER Induction MOTOR**

With 10 inch Turntable

A quality motor giving absolute uniformity of speed unaffected by variation of voltage and record drag. Long over-size, self-lubricating bearings prevent overheating in closed cases or cabinets. Silent, spiral-cut gears made from laminated bakelite, completely enclosed and run in oil.

Equipped with 10 inch felt covered turntable, speed indicator dial, speed indicator pointer, speed change switchboard plate, speed change pointer, mounting screws and washers. For operation on 110 volt, 60 cycle A.C.



COMPLETE WITH AUTOMATIC STOP

NET

\$9.75

UPCO
Phonograph Pickup



FOR 78 R.P.M. OPERATION

NET **\$6.50**

FOR 33- 78 R.P.M. OPERATION

NET **\$7.45**

"PIEZO ASTATIC"
Crystal Pickup

S8 Standard.....Net**\$10.50**

H8 High Fidelity.....Net **14.00**

CARBON RESISTORS
Pig Tail Resistors R. M. A.
Color-Coded

Stock Resistance Values

500 ohms	50,000 ohms
750 ohms	75,000 ohms
1,000 ohms	100,000 ohms
1,500 ohms	150,000 ohms
2,000 ohms	250,000 ohms
2,500 ohms	.5 megohms
3,000 ohms	750,000 ohms
5,000 ohms	1.0 megohms
7,500 ohms	1.5 megohms
10,000 ohms	2.0 megohms
15,000 ohms	3.0 megohms
25,000 ohms	



8c EACH 25 OR MORE 7¢ ea.
Net
One Watt 50 OR MORE 6¢ ea.

**TOBE POWER LINE
FILTERETTE**

For either A.C. or D.C. sets. Contains specially designed RF chokes and condensers essential for successful line filtering.



Line Filterette RF-2

\$4.95

Net
\$2.91

Original
**CARTER
FLAT
PLUG**



Flat Bakelite handle fits close to panel and presents neat finished appearance. Cord tips held tightly without screws and can easily be inserted or withdrawn. Provision made for stay cord. Diameter 1 1/2 inches.

YOUR COST **44c**

SHORT JACKS



(Pat. No. 1,620,755)
Heavy bakelite insulators eliminate leakage. Sleeve terminal marked "+" (positive). Mount in 3/8" hole on panels up to 1/4". Fit Carter or any standard plug.
No. 1 (Open Circuit, Output Type) Price, each **.15**
No. 2-A (Single, Closed Circuit) Price each **.18**

SCREEN GRID CAP



No. 107
Made of hard Brass,
Cadmium Plated.

\$.02
Net

TIP JACKS



No. 296
Nickel plated
Brass

6¢

WALTER ASHE RADIO CO.

1100 PINE STREET * * * * ST. LOUIS, MO.

Resistors

"RED DEVIL" CEMENT COATED RESISTORS

"Red Devil" Cement Coated Wire Wound Resistors



ORDINARY RESISTOR

STOCK VALUES
10 Watt RED DEVILS

Ohms	Ohms	Ohms	Ohms	Ohms
1	33	500	2000	9,000
2	40	600	2250	10,000
3	50	700	2500	12,000
4	75	750	3000	12,500
5	100	800	3500	14,300
7.5	125	900	4000	15,000
10	150	1000	4500	16,000
12	200	1100	5000	17,500
15	250	1200	6000	18,000
20	300	1250	7000	20,000
25	350	1500	7500	22,500
30	400	1750	8000	25,000

LIST PRICE \$0.35 Ea. Net \$.21



DIMENSIONS
TEN WATT UNITS
1-21/32" diam. 1 1/2" x 1/2"
TWENTY WATT UNITS
3/16" to 100M ohms. 2" x 1/2"
All units have 1/2" inch tinned wire leads

STOCK VALUES
20 Watt RED DEVILS

Ohms	Ohms
30,000	75,000
40,000	80,000
45,000	85,000
50,000	90,000
55,000	95,000
60,000	100,000
65,000	
70,000	

LIST PRICE \$0.83 Net \$.39 LIST PRICE \$0.75 Net \$.45



RED DEVIL RESISTOR

OHMITE
"Dual Scale" Resistance Indicator



Net \$ 2.10



Showing 1 watt "Wire Watt" Resistor

STOCK VALUES

Ohms	Ohms	Ohms	Ohms	Ohms	Ohms
100	400	1000	2250	6,000	15,000
125	500	1100	2500	7,000	16,000
150	600	1200	3000	7,500	17,500
200	700	1250	3500	8,000	18,000
250	750	1500	4000	9,000	20,000
300	800	1750	4500	10,000	22,500
350	900	2000	5000	12,500	25,000

LIST PRICE \$.25 ea. Net \$.15 ea

"Cordohm" Line Cord Resistor
For A.C.-D.C. Radio Sets



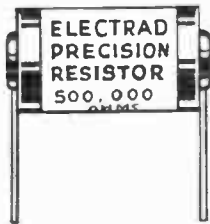
Total Voltage Drop in Filaments
29.2 to 31.5 volts
16.1 to 18.9 volts
68.9 to 75.2 volts

Resistance of Cordohm
390 ohms
180 ohms
137 ohms

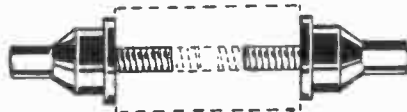
LIST PRICE, ANY ABOVE VALUE.....\$1.50
Net \$.90

ELECTRAD

PRECISION WIRE-WOUND RESISTORS



Type 6P



FERRULE TERMINALS

For Precision Wire-Wound Resistors
Price 15¢ per pair

ELECTRAD Precision Wire-Wound Resistors have been developed to meet the requirements of an accurate, dependable resistor with a minimum of inductance and distributed capacity.

These resistors are particularly useful as voltmeter multipliers, resistor elements of laboratory instruments and custom built apparatus.

By use of the above mentioned ferrules, the Electrad Precision Resistor Type 6P can be transformed into a ferrule type resistor. The ferrules can be screwed into the ends of any type 6P resistor.

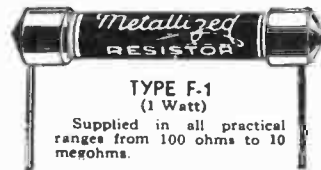
Net 15¢ per pair.

Resistance in Ohms	Maximum Potential in Volts	Maximum Current in Milliamperes	YOUR COST
1	1.2	1225	.45
5	2.7	548	.45
10	3.8	387	.45
25	6.1	245	.45
50	8.6	173	.45
100	12	122	.45
150	15	100	.45
200	17	86	.45
500	27	55	.45
1000	38	38	.48
2500	61	24	.51
5000	86	17	.57
7500	106	14	.57
10000	122	12	.60
12500	137	11	.60
15000	150	10	.75
20000	173	8.6	.75
25000	194	7.7	.75
30000	212	7	.75
35000	229	6.5	.75
40000	245	6.1	.75
50000	274	5.5	.75
60000	300	5	.90
75000	336	4.4	.90
100000	387	3.8	1.05
125000	433	3.4	1.20
150000	473	3.1	1.35
175000	510	2.9	1.35
200000	548	2.7	1.35
225000	580	2.5	1.50
250000	610	2.4	1.50
300000	670	2.2	1.65
400000	750	2.2	1.65
500000	750	1.5	1.95
750000	750	1.0	2.40
1000000	750	.7	3.00

IRC

Metallized

Ohms	Ohms	Ohms	Ohms
100	8,500	35,000	
250	4,000	40,000	1/4 meg.
450	4,000	60,000	1 meg.
500	6,000	60,000	1 1/4 meg.
750	7,000	70,000	2 meg.
1,000	7,500	75,000	2 1/4 meg.
1,250	8,000	100,000	3 meg.
1,500	9,000	125,000	3 meg.
1,500	10,000	150,000	4 meg.
1,750	12,500	175,000	5 meg.
1,950	15,000	200,000	6 meg.
2,000	20,000	250,000	7 meg.
2,250	25,000	300,000	8 meg.
2,500	30,000	400,000	9 meg.
3,000	175,000	500,000	10 meg.



TYPE F-1
(1 Watt)

Supplied in all practical ranges from 100 ohms to 10 megohms.

TYPE F-2 (Not Illustrated)
(2 Watts)

Supplied in all ranges from 50 ohms to 5 megohms

ONE WATT RESISTORS • 2 WATT RESISTORS

15c NET

21c NET

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

MALLORY ELKON "B" ELIMINATOR

List Price \$17⁵⁰



NET
\$10⁵⁰

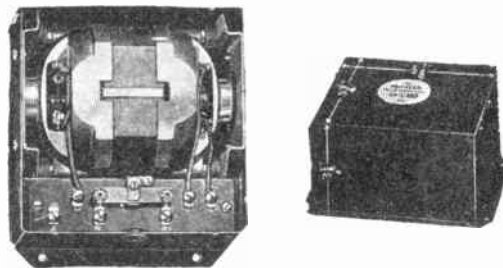
**The New Self-Rectifying
Elkonode Eliminates Tubes**

This rectifying device within itself sets up the essentially alternating current and rectifies it, eliminating cost of rectifying tube and other parts. Results in a much higher efficiency and permits a vibrator element design which is not only much smaller but is silent in operation.

'PIONEER'

The ORIGINAL "B" ELIMINATOR

DYNAMOTOR TYPE
Guaranteed One Year.



TYPE 5180 T

Draws 1.94 Amps

Output Is 180 Volts

30 M.A., Tapped At 90 V.

List \$18.50 Net \$11.10



"BELDEN"

SHIELDED HIGH TENSION IGNITION
CABLE.

USED FOR SHIELDING SPARK PLUGS
AND DISTRIBUTOR WIRES.

NET PER FOOT .09

RIDER AUTO RADIO MANUAL

IT CONTAINS SCHEMATICS, VOLTAGE
DATA, ELECTRICAL VALUES, RESISTANCE
DATA, SOCKET LAYOUTS, INSTALLATION
NOTES, SERVICE NOTES, PRICE \$3.50.



Mallory Elkonodes
Types 1-2-3-4-5-6.

LIST PRICE
.....\$1.50

NET PRICE
\$ 2.70

**New Low Resistance
Auto Suppressors**

New and radical improvement in suppressors for auto radio; very effective in eliminating motor spark and distributor noises. Fits practically any car. For Belden distributor type is used by mounting distributor head



500 OHM WIRE WOUND

Wire wound and non-inductive. Does not retard speed of car. Quickly attached. In two types, very reasonably priced

NET EACH
Plus type, Distributor type. **27c**

	LIST PRICE
Type 10 Elkonode	.....\$7.00
Type 11 Elkonode	..... 7.00
Type 12 Elkonode	..... 7.00
Type 13 Elkonode	..... 7.00
Type 14 Elkonode	..... 7.00



Net \$4.20

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

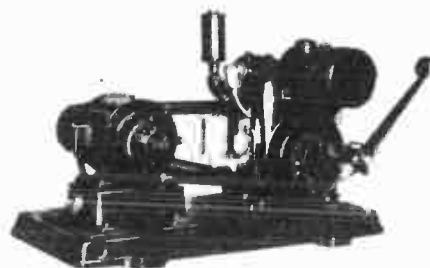
Janette

ROTARY CONVERTERS

WITH FILTER FOR RADIO USE



CODE NAME	WATTS OUTPUT	AMPERES INPUT	LIST PRICE	NET PRICE
32 VOLTS D.C. TO 110 VOLTS 60 CYCLES A.C.				
RAGOU	80	5.4	\$44.00	\$30.18
RAKNE	110	6.5	51.25	35.15
RAJAH	150	8.5	59.95	41.12
RATED	300	15.0	77.00	52.82
115 VOLTS D.C. TO 110 VOLTS 60 CYCLES A.C.				
RAGTL	80	1.3	44.00	30.18
RAGAR	110	1.9	51.25	35.15
RACIN	150	2.4	59.95	41.12
RADUM	300	4.0	71.50	49.05



ONLY A FEW POPULAR SIZES ARE LISTED
ANY SIZE CAN BE HAD ON ORDER.

JANETTE GAS ENGINE DRIVEN GENERATING SETS.

Ideal unit for lighting and for the operation of radios, amplifiers, sound trucks, public address systems, etc. Obtainable with or without radio filters. Sizes 300 to 5500 watts. Delivers 32 V. D.C., 110 V. D.C., or 110 V. 60 cycles A.C.

MEISSNER COILS

I.F. TRANSFORMERS

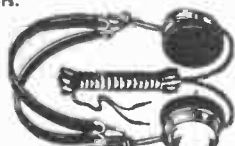


High gain shielded intermediate frequency transformers for use in modern superheterodynes. Inductances are specially designed for high gain. Contained in square cans measuring 2 in. x 2 in. x 3 in. Top tuning. 175 K.C. for standard broad-

465 K.C. for short wave super-heterodynes with pad circuit).
NET EACH **89c**

BRANDES PHONES

Mass or finest materials available. We have sold this head set exclusively for the last three years and have sold them to a lot of satisfied customers.



YOUR COST \$ 1.80

175 K.C. Composite Oscillator



Composite, high gain coil used as the first detector, oscillator and first I.F. transformer. Eliminates the use of one tube with no loss in efficiency. Top tuning. Used with 5 and 7 tube superheterodyne kits as listed on this page. Laboratory peaked at 175 K.C. No padding condenser necessary as it is made for the new special tracking oscillator section variable condensers. (.00036 Mfd.) Enclosed in square cans. 2 1/2" x 3 1/2" x 3 1/2".

YOUR PRICE

\$1.25

PRESELECTOR



High gain shielded band-pass preselector. Utilized in five tube superheterodyne as listed on this page. Contained in square can 2 1/2" x 3 1/2" x 3 1/2" high. Top tuning.

YOUR PRICE

87c

Midget 175 K.C. I.F. Trans.



The only midget high gain I.F. transformer. Top tuning. Can be used in place of the larger I.F. transformer illustrated with the 5 and 7 tube kits, or in any set in which space is a factor. 1 1/2" x 1 1/2" x 1 1/2". For superhets with S.G. tubes. With secondary center tapped for new Wunderlich or 55 and 85 Duplex-Diode-Triode tubes.

YOUR PRICE

87c

YOUR PRICE

97c

Antenna and R.F. Coils



Antenna and R.F. coils with Coupling Rings. High gain fully shielded coils designed for use with the new screen-grid tubes. Antenna coil has an inductively coupled primary and a Coupling Ring. R.F. Coil has a high impedance non-coupled primary, with a Coupling Ring. Contained in square cans 2 in. x 2 in. x 3 in. Requires .00036 Tying Condenser.

YOUR PRICE

67c

YOUR PRICE

67c

TRIMM

FEATHERWEIGHT PHONES

Type F-100
24,000 ohms
Impedance.



LIST \$10.00
NET \$6.00

Net weight 4oz. Diameter 2 3/4" 3/4" Thick. Bakelite shell and cap. Cobalt steel magnet. Adjustable steel headband.



Acme Featherweight Headphones

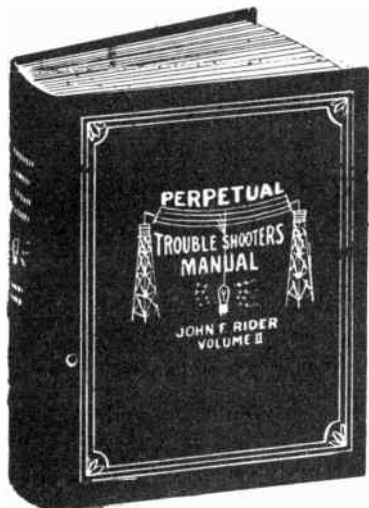
Aluminum case. Very light-weight. 2000 ohms D.C. resistance. Ideal for the portable.

List \$ 2.50

YOUR COST \$ 1.50

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

Perpetual Trouble Shooter's Manual



NO DUPLICATIONS BETWEEN VOLS. I, II, & III, VOL. II A CONTINUATION OF VOL. I, VOL. III A CONTINUATION OF VOL. II. EVERY DIAGRAM FROM THE FIRST BATTERY SET TO THE LATEST ALL-ELECTRIC SUPERHET.

VOL. I.	-----	\$7.50
VOL. II.	-----	6.50
VOL. III.	-----	7.50
Vol. IV.	-----	7.50

SERVICING RECEIVERS BY MEANS OF RESISTANCE MEASUREMENT, by John F. Rider	-----	1.00
PRACTICAL RADIO TESTING SYSTEMS, by John F. Rider	-----	.95

COMBINATION "3in1" MANUAL WITHOUT HANDLES	\$21.50
COMBINATION "3in1" MANUAL WITH HANDLES	25.00

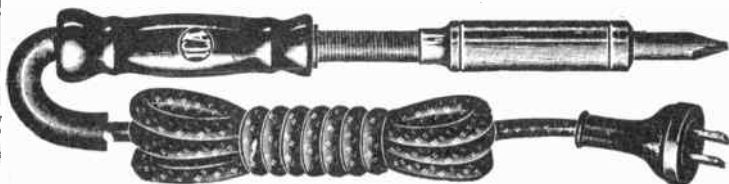
I.C.A. SOLDERING IRONS

"SEALED IN INSULEX"

50 — 75 — 100 Watt, 120 Volt

Fully Nickel Plated

Efficient "All-Purpose" Irons



			NET
No. 1960.	50 Watt		\$ 1.98
No. 1962.	75 Watt		2.34
No. 1961.	100 WATT		2.98

I. C. A. SOLDERING IRON HOLDER and STAND

No. 1966.

Your Cost **75¢**

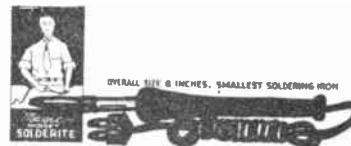


Here you are. Just what you've been looking for. A practical stand for your hot iron while on a service call. And, when finished, no need to hang around waiting for iron to cool. Just stick it in the holder—barrel and tip—and go on your way.



"STANDARD" Soldering Irons			
50 Watt	Net	\$	.75
75 "	"		1.50
150 "	"		3.00
200 "	"		4.13

MIDGET SOLDERITE



Full 25 Watt Rating

Smallest Electric Soldering Iron on the Market

Overall Length of Iron 8 Inches

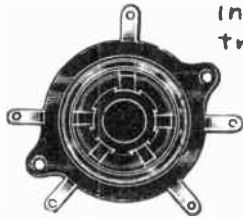
Heats in One Minute

NET .90

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

MOULDED BAKLITE SOCKETS

For baseboard and panel mounting. Ideal for low-power transmitters



	4 Prong	NET
	5 "	\$.15
	6 "	.15
	7 Prong composite, large and small	.21

SUB-PANEL SOCKETS



	4 & 5 Prong	NET
	6 & 7 Prong	6¢
		8¢

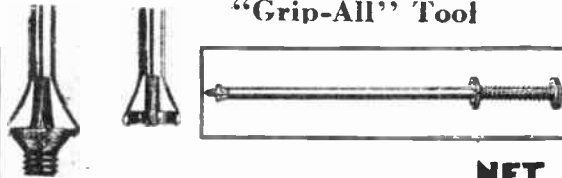
Sub-Panel Sockets are made of sturdy phosphor bronze contacts, and Bakelite. They are accurate and will fit all makes of tubes.

EBY BINDING POSTS



NET EACH .09

"Grip-All" Tool



NET .57¢

EBY ROTARY SNAP SWITCHES



	SPST	NET
	SPDT	.20
	DPTD	.25
		.50

Set No. T-51



"STEVENS SPINTITE"

WRENCH

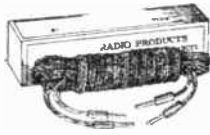
SET

Many mechanics prefer the compactness and probability of the tool roll. Contains 3 screw driver bits of crucible steel, with 1, 8, 3/16, 1/4 in. blades and extra long shanks: 1 ream awl for starting screws, reaming holes, laying out parts, etc. 7 Spintite hex. bits, 3/16, 1/4, 5/16, 11/32, 3/8, 7/16, and 1/2, with Universal Handle. No. T-51 Set complete in roll \$3.50 Dealer Net \$5.85 List Price

NET \$3.50

Phone and Speaker Cords

These Cords are used in replacing worn-out cords from head sets or loud speakers. They are closely woven and are strong and durable.



NET EACH

.25

Cord Connector

Made of bakelite. Built to withstand heavy wear and abuse. Neat in appearance. Cord tips can be attached quickly without the use of tools.



List Price, \$0.25

Your Cost, \$0.15

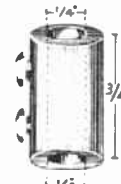
SHAFT COUPLINGS



No 25-75

NET

.04



No 250

NET

.09



No 50-50

NET

.09

SPEAKER Extension Cords



These Cords are made of stranded copper wires and insulated with rubber to protect the copper strands from moisture which often causes leakage from one conductor.

		NET
5 Feet		.21
10 "		.36
20 "		.52
40 "		.90

SPIN TYPE WRENCHES

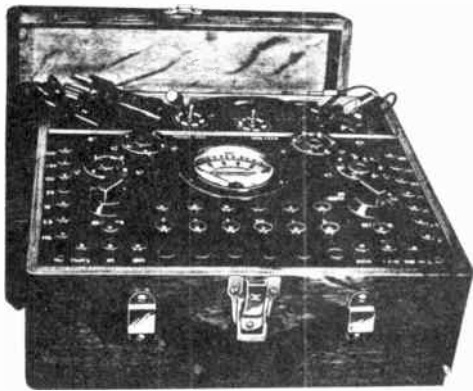


6"

1/4" Size Spin Type for	1/4" Hexagon Nut	\$.15 each Net
5/16" Size Spin Type for	5/16" Hexagon Nut	
3/8" Size Spin Type for	3/8" Hexagon Nut	
7/16" Size Spin Type for	7/16" Hexagon Nut	

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

MODEL 333 SUPREME ANALYZER



MODEL 333 RADIO ANALYZER

Dealers net cash wholesale price **\$39.50**

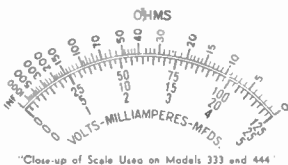
QUICK FACTS

about the Model 333 Radio Analyzer

- (1) Capacity ranges as follows:
 - 0025 to 0.125 mfd.
 - 025 to 1.25
 - 75 to 12.5
- (2) A.C. ranges as follows:
 - 0 to 5 volts
 - 0 to 25
 - 0 to 125
 - 0 to 500
 - 0 to 1250
- (3) M.A. ranges as follows:
 - 0 to 5 M.A.
 - 0 to 25
 - 0 to 125
 - 0 to 250
 - 0 to 500
 - 0 to 1250
- (4) Resistance ranges as follows:
 - 0 to 1,000 ohms
 - 0 to 10,000
 - 0 to 100,000
 - 0 to 1,000,000
- (5) D.C. ranges as follows:
 - 0 to 25 volt
 - 0 to 125
 - 0 to 250
 - 0 to 500
 - 0 to 1250
- (6) Output ranges as follows:
 - 0 to 5 volts
 - 0 to 25
 - 0 to 125
 - 0 to 250
 - 0 to 500
 - 0 to 1250

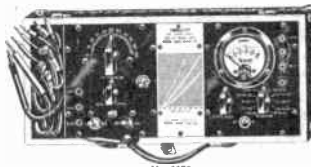
- (7) Analyzer combined with point-to-point tester
- (8) Universal meter with compensated crystaline rectifier for A.C. measurements
- (9) Point-to-point resistance, voltage and current analysis
- (10) Tube testing from radio socket with self-contained grid shift battery
- (11) Capacitor leakage test including electrolytic capacitors
- (12) Enables use of headphones, loud speakers, microphone etc. connections for all music-loud tests
- (13) Storage output meter available for convenient use without the necessity of troublesome output adapters
- (14) D.C. measurements with millimeter register on A.C. scale
- (15) A.C. measurements with millimeter register on D.C. scale
- (16) A.C. and capacity measurements register on unit divided scale instead of on visual branching scale
- (17) Full size standard meter employed

FREE REFERENCE POINT SYSTEM OF ANALYSES



"Close-up of Scale Used on Models 333 and 444"

TRIPLETT PERPETUAL TESTER NO. 1178



Here is a tester that does not become obsolete and is built for lifetime use. Tests tubes while operating in the set socket, by measuring gain in output. Tests set circuits and aligns tuning condensers. Fulfills every testing requirement in the home or in the shop. Built to a standard and designed by engineers, who have specialized in superior test equipment for every need of the serviceman.

Contains a direct reading Ohmmeter, Output meter, A.C. — D.C. Voltmeter and Milliammeter

A complete tester with sixteen different scale readings reduced to extreme simplicity and easy to read. Meter is 3 1/4" in size. Everything that the serviceman needs to diagnose and remedy set troubles is incorporated in this compact newly designed instrument. Its smart design gives that professional appearance that impresses the customer. Its extreme accuracy and completeness satisfies the most exacting needs of the professional serviceman.

Precision Measurements

The single meter when used as either an A.C. or D.C. Voltmeter has 1000 ohms resistance per volt. Voltage readings are 15-150-750. The D.C. milliamperere readings are 1.5-15-150 and the A.C. milliamperere readings are 15-150. The direct reading Ohmmeter with the easy reading scale has red and black figures which makes possible accurate readings from 3 or 1.5 megohms down to 1 ohm. All readings are controlled by a selector switch. Point to point continuity tests are made with this part of the instrument and the meter is used also for indicating output when set is connected with the oscillator for aligning condensers and measuring gain in tube values.

The Oscillator is also a well designed, completely shielded instrument. A switch permits use for generating either a stabilized modulated or unmodulated signal of constant level. Extremely accurate scale divisions cover fractional frequencies on the individually hand made chart from 110 to 1600 K.C. Batteries are in a separate shielded compartment easily accessible. They consist of two small flashlight cells and one 22 1/2 volt block. Used for both Oscillator and Volt-Ohm-Milliammeter.

Furnished in a substantial leatherette or attractive oak case size 16 1/2" x 4 3/4" x 7 1/2" Cover is removable

No. 1177 — In Leatherette Case — 1.5 Megohms (Shipping weight approximately 17 lbs.) **\$36.00**

No. 1178 — In Oak Case — 3 Megohms (Shipping weight approximately 19 lbs.) **\$40.00**

NET \$23.52 26.14

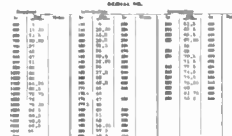
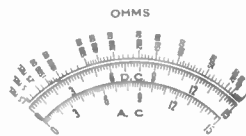


Chart Sample

TRIPLETT FREE-POINT TEST SET NO. 1179

The new Triplett portable laboratory combines the three essential units for quick and accurate radio servicing.

No. 1179 is the most complete and handy set of precision instruments available.

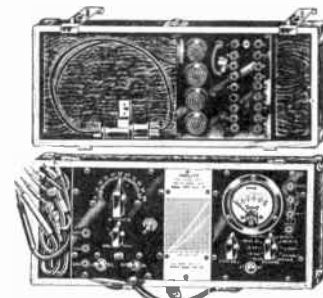
Includes: No. 1150 Oscillator, No. 1125 Universal Volt-Ohm-Milliammeter, and No. 1166 Free-Point Auxiliary Set Tester — completely described under individual listings in this catalog.

No. 1166 is built in the cover. Heavy metal removable brackets support the cover when in use. These supports are secured in cover when not in use.

Furnished complete in oak case-size 16 1/2" x 7 1/2" x 5 1/2".

Shipping weight approximately 19 pounds.

No. 1179 — LIST PRICE **\$52.00**



Net

\$ 33.95

CONFIDENCE

NEW SPECIAL TYPE

Quick! Simple! AND EASY TO READ

DIRECT READING— shows tube condition IN ENGLISH. Such simplicity convinces the set owner and SELLS TUBES.

COMPLETE—Tests 115 tubes including those with high filament voltage and ALL other latest types to date; with a generous provision for future tubes.

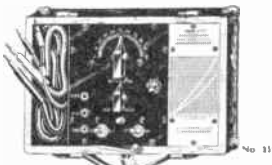


Net

\$ 34.50

MODEL B—Portable— is housed in a sturdy and attractive leatherette case, 9 1/2" x 14" x 5", with removable cover, which also contains the Auxiliary Socket Unit and Tube Chart (see reverse side of this sheet). Shipping weight 15 lbs. Net carrying weight 12 lbs.

New Triplett Oscillator



No. 1150 is a well designed, completely shielded instrument. A switch permits generating either a stabilized modulated or unmodulated signal of constant level. Extremely accurate scale divisions cover fractional frequencies from 110 to 1600 K.C., on the individually hand-made chart. Batteries are in a separate shielded compartment easily accessible. Two small flashlight cells and one 22 1/2 volt block are furnished. No. 1150 is built in oak case exactly like one supplied with No. 1125 shown on opposite page.

Shipping weight approximately 13 pounds. List Price **\$30.00**

Net

\$ 19.60

TRIPLETT Free-Point Auxiliary Set Tester No. 1166

The No. 1166 makes accessible all the set socket connections to each of the various tube elements. These connections are brought to the tester through the cable and plug. By this method voltages, currents, resistances and continuities may be measured quickly and accurately, without removing the chassis from the cabinet.

Triplett No. 1166 is universal, flexible and lends itself to the simplest manipulations possible which any serviceman can immediately understand. Four sockets take care of all present day tubes. Whenever other sockets with added connections are required these parts can be easily replaced at very slight cost.

This tester thus makes unnecessary carrying additional cables, plugs, etc., as well as eliminating all bother in changing them about when tubes with different prongs are used. Furnished with simplified chart for each type of tube. Also four plug adapters.

No. 1166 — In Oak Case, Size 11 1/2" x 7 1/2" x 4 1/2".

Shipping weight approximately 9 pounds.

LIST PRICE **\$16.00**

Net

\$ 10.46

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

Readrite

RADIO INSTRUMENTS

SET TESTERS MODELS 710 & 610
Also Models 711 & 611 For Precise Testing
New Small Size Plug, Adapters and Sockets

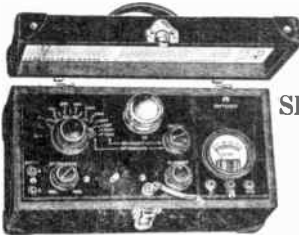


No. 710

No. 710—Code—Raft List price ----- \$27.50
NET 15.17

No. 711 is same as No. 710 but equipped with a Triplet D. C. vol-meter 0-15-40-300 600 having 1000 ohms per volt resistance. With the 4 1/2 volt battery will test resistances up to 266,000 ohms. Chart furnished for resistance testing up to 5 megohms.

No. 711—Code—Traft List price ----- \$41.25
NET 24.26



No. 550

SERVICE TEST OSCILLATOR

Model No. 550

No. 550 complete with panel output meter. Code—Rank List price----- \$35.00
Net ----- 20.58
No. 551 complete less panel output meter. Code—Rap. List price----- \$33.00
Net ----- 19.41

COUNTER TUBE TESTERS

Models No. 410 & 412

Tests All Tubes Without Adapters, Including
25Z5—53—43—79—2B7—6B7—2A4—2A6, etc.



No. 410

No. 410—60 Cycle—Code—Rager List price ----- \$27.50
No. 412—60 Cycle with short tester same as No. 410. Code—Rainer \$40.15

No 410 Net \$16.17
No 412 Net \$23.61

CLAROSTAT

VOLUME CONTROLS



LIST NET
\$2.50 \$1.50



44¢ EA. SINGLE LOTS
OR 36¢ EA. FOR 6 OR MORE
Add 25¢ For Switch Type

LINE BALLASTS

BRUNSWICK	#2179
CLARION 51 53 55	2408
HAMM. ROBTS. 31	2408
#	30 2179
M/JESTIC 7P6	1516
#	7BP6 1508
#	8P6 1012
#	90 1210
SCOTT & C. 1C	2179
S.M. 30-30B Etc.	2179
BOMORA A30 31 40	2179
#	A36 44 46 4210
Stewart WARNER W005001	
#	# 950 5002

ONLY THE MOST POPULAR SELLERS
ARE STOCKED. ALL ARE STANDARD
REPLACEMENTS WITH THE CORRECT
AMOUNT OF TAPER.

RESISTANCE VALUES OF STOCK ITEMS.

1000	25,000	SIZE
2000	50,000	3/8" X 1/2"
3000	75,000	SHAFT
5000	100,000	1 1/2 X 1/4"
7500	200,000	SHAFT IS INSULATED FROM GROUND
10,000	250,000	
15,000	500,000	

I. C. A. 'GLOVE-TITE' TUBE SHIELD



No. 1718—Down shaped for 16 1/2"-18, etc tubes
No. 1719—Old shaped for 22 1/2", etc tubes
NET 8¢ ea

I. C. A. DYNATROL LINE NOISE FILTER



NET \$90

I. C. A. INSULATED SCREEN GRID CAP



No. 880 NET 9¢

I. C. A. INSULATED JACKS



NET 9¢



ANALYZER PLUGS

7 Prong Plug	\$2.10
7 To 4 Adaptor	.75
7 To 5 "	.75
7 To 6 "	.75

EIGHT WIRE CABLE
NET PER FOOT .08



MIDJET INPUT, OUTPUT CHOKES FOR AUTO AND A.C.D.C SETS.

INPUT	NET \$.75
OUTPUT	# .75
CHOKE	# .40

"SIGRAY" Drill with 1/2 Inch Jacobs Chuck

Net \$15.05



JEFFERSON Radio Replacement Products New Universal Input and Output Transformers

Catalog No.	Type	Dimensions, Inches			Weight, Lbs.	List	Net
		High	Wide	Deep			
467-75	Input	2	2 1/2	2	1 1/2	\$2.55	\$1.53
467-76	Output	2	2 1/2	2	1 1/2	2.25	1.35
466-125	Choke	2	2 1/2	2	1 1/2	1.95	1.17

No. 372 Tapped for push-pull or straight audio—universal brackets

Catalog No.	Model No.	Dimensions, Inches			Weight, Lbs.	List	Net
		High	Wide	Deep			
462-168	372	1 1/2	2 1/2	2	1	\$2.20	\$1.32

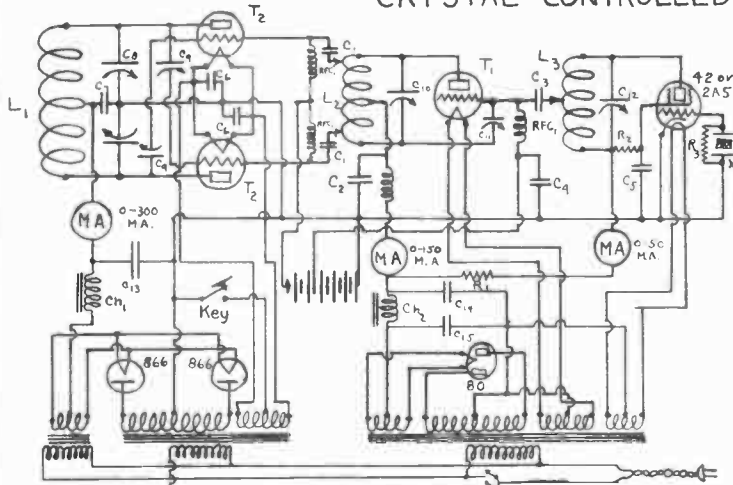
No. 370A A quality low-priced popular audio replacement

Catalog No.	Model No.	Dimensions, Inches			Weight, Lbs.	List	Net
		High	Wide	Deep			
467-164	370A	1 1/2	2 1/2	2 1/2	1/2	\$1.85	\$1.18

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

CIRCUIT DIAGRAMS FOR NEW & OLD TIMERS *They Work!*

UNIVERSAL THREE STAGE CRYSTAL CONTROLLED



Legend:

- C₁, C₆ .001-5000 Volt Mica Dubier Type 9
- C₂, C₄ .002-1000 Volt Mica " "
- C₃ .001-1000 Volt Mica " "
- C₅ .5 MF 600 Volt Sprague
- C₇ .002-5000 Volt Mica Dubier " "
- C₈ .00007 Total Split Stator Cardwell
- C₉, C₁₀ .00002-3000 Volt Variable
- C₁₁ .0001
- C₁₂ .0002 Receiving Type
- C₁₃ 2. to 4. MF 1500 Volts Paper
- C₁₄, C₁₅ 2. to 4. MF 1000 "

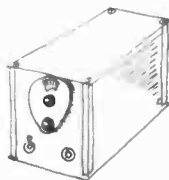
- R₁ Plate resistance (abt 10000 Ω 25W)
- R₂ 40,000 Ω 20 Watt
- R₃ 75,000 Ω 2 Watt
- RFC₁ 2 1/2 M.H.
- Ch₁ 15H 250 MA
- Ch₂ 15-30H 110 MA

WATTS OUTPUT	BUFFER TUBE	PLATE VOLTS	FINAL TUBES	PLATE VOLTS
30	5X210	600	5X210	600
80	5X830	750	5X830	750
200	5X830	800	5X03A	1000

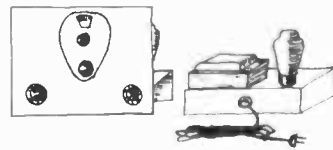
FAE

MONITOR AND RECEIVER KITS

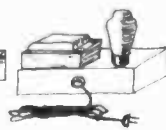
Standard circuits and merchandise compose these Kits in which every part is guaranteed.



SHIELDED MONITOR



SHORT WAVE 2 TUBE RECEIVER



POWER SUPPLY

Uses -30 tube, one #6 dry cell and one small 45 volt "B" battery. Complete kit of parts.

\$10⁰⁰
NET

Uses 57 and 2A5 for A.C. or 77 & 41 for D.C. operation. Very sensitive. Has speaker volume. Complete kit of parts.

\$12⁵⁰
NET

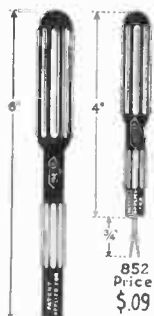
Uses -80 tube rectifier. Supplies power for the two tube receiver. Complete kit of parts.

\$7⁵⁰
NET

BUD EASY-STARTING



SCREW HOLDER



852 Price \$.09

853 Price \$.12

Cat. No.	Size Dia.	Length	Size of Screw	Price
852	3/8"	4 1/2"	overall No. 2 to 6 incl	\$.09
853	3/8"	7"	overall No. 6 to 12 incl.	.12

RADIO AMATEUR CALL BOOK

Latest Edition



Contains over 40,000 calls, listing all U.S.A. Amateurs and Foreign Amateurs, High Frequency Commercial Stations, Who's Who on Short Waves, Special Stations and Expeditions, International Call Letters, New Prefixes, High Frequency Press, Weather, and Time Signal Schedule. The only accurate Callbook obtainable at any price. Every operator should have a Callbook.

\$1.10

HOW TO BECOME A RADIO AMATEUR

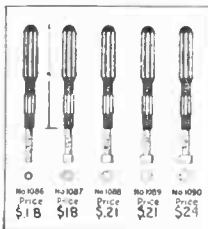
Published by American Radio Relay League (Q.S.T.) 32 pages Size 8 1/2" x 9 1/2"



"This book makes it easy for the beginner to begin. Now in its third edition, completely done over in 1931 style, its 32 pages are filled with concise, clearly written material telling how to build the first receiver, a simple transmitter, an inexpensive monitor. In fact, the entire beginner's station. All the standard elementary suite for the would-be amateur, the simple, hexapole station described in separate features, which in the past have been confined to the more advanced layouts. References to sources of detailed information on licensing procedure are given, as well as a highly absorbing narrative account of just what amateur radio is and does.

25c

BUD SOCKET WRENCHES & BUD SCREW DRIVERS



No 1006 Price \$18
No 1007 Price \$18
No 1008 Price \$21
No 1009 Price \$21
No 1090 Price \$24



No 1102 Price \$15
No 1104 Price \$18

Sturdy handle 4" long, overall 5" Hard steel wrench.

Built to Last No Tool Kit Complete without one

ARRL PUBLICATIONS

HINTS AND KINKS FOR THE RADIO AMATEUR

Published by the A. R. R. L. (QST)

Information — ideas — suggestions. Practical tips. Brain storms that worked, none-sounding duds & time-saving thoughts. . . . A whole book full of them. It is a compilation of all the best ideas brought under one cover, segregated by subject, and indexed. An intensely practical booklet filled with selected material, with dozens of valuable and workable ideas gleaned from the practical experience of successful amateurs. Chapters on workshop ideas, receivers, transmitters, the phone amateur, QRM elimination, keying, power supply and so on. 24 pages. Size 6 1/2" x 9 1/2". Paper cover. 50c



RADIO AMATEUR'S HANDBOOK

Approximately 250 pages. 9 1/2" x 6 1/2". Illustrated. NEW 1931-1932 EDITION. Published by American Radio Relay League (Q.S.T.). More than 100,000 copies sold. This book is referred to as the "Amateur's Bible." Contains everything that a "Ham" or a prospective amateur should know. Flexible covers. \$1.00



THE RADIO AMATEUR'S LICENSE MANUAL

New Second Edition

Published by the A. R. R. L. (QST)

No more worrying about your license exams. This manual is written in clear, concise QST manner to cover every aspect of present-day license procedure. It has been prepared in response to an uninterrupted flow of information on how to pass your examinations and apply for licenses. It tells you where to write for forms, how to fill them out, whom to send them to; it contains pertinent radio lawulations. A complete question and answer section covers every type of question you will be asked, either for temporary, first class or extra-first amateur ticket. Enables any amateur to qualify for any amateur license. For the phone amateur who wants the unlimited phone endorsement, it definitely and especially includes all particulars of the special examination for Unlimited Phone. The questions, the answers, the diagrams. Twenty pages—size 6 1/2" x 9 1/2". Paper cover. 25c



Write for free National Catalog

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

AMERICAN MICROPHONE COMPANY



MODEL "A1"
Duralumin Diaphragm with gold spots under each button. Frequency response from 50 to 7500 cycles. Resistance 200 ohms per button.
Code Word "ABMAN"

List Price \$72.00 Dealers Price \$36.00



MODEL "SD"
Duralumin diaphragm with the gold spots below each button. Frequency response from 50 to 6500 cycles. Resistance 200 ohms per button.
Code Word "SID"

LIST PRICE \$50.00 Dealers Price \$24.50



MODEL "CD"
Duralumin diaphragm with gold spots below each button. Frequency response 45 to 4000 cycles 200 ohm resistance.
Code Word "ABOWL"

LIST PRICE \$23.00 Dealers Price \$11.45



MODEL "KL"
Duralumin diaphragm with gold spots below each button. Frequency response 50 to 5000 cycles 200 ohms resistance.
Code Word "LITER"

LIST PRICE \$10.00 Dealers Price \$ 4.90



MODEL "SJ"
Single Button Carbon diaphragm microphone. Frequency response 70 to 3000 cycles 200 ohm resistance.
Code Word "JOHN"

LIST PRICE \$8.00 Dealers Price \$ 3.75

ASTATIC MICROPHONE LABORATORY

Net \$14.70

The new
PIEZO-ASTATIC



CRYSTAL MICROPHONE

MODEL D-104

DIRECTIONS FOR INSTALLATION

The #104 microphone may be connected direct to grid and ground of the amplifier input tube as illustrated by the fundamental circuit shown in Figure 1. This is possible due to its high impedance, approximately 80,000 ohms at 60 cycles. It may also be matched with a transformer to low impedance inputs. When connected direct to grid it is important that a parallel resistance or grid leak of not less than 5 Megohms be used. A resistance of lower value would seriously impair the low frequency response.

Transformer matching as shown in Figure 3 is recommended where it is desired to use a cable of more than 30 ft. in length between the microphone and amplifier. The winding next to the microphone should have an impedance of approximately 100,000 ohms. It is also important to note that no D.C. voltage should appear across the crystal, as this would likely cause damage to the instrument. When connecting in the cathode circuit an isolating condenser must be used as illustrated in Figure 2.

When using the microphone near strong RF, the cable must be as short as possible to avoid pickup. The output level is approximately 60 dB and we recommend a 3 stage amplifier as indicated in Figure 4, the output of which will prove quite adequate for most public address work. If more gain is required one additional stage using a 56 tube may be added to the first stage 56 as shown in Figure 4. May be transformer coupled to the succeeding stage. The latter should have a resistance value of 5 Megohm each side of the center tap.



LIFETIME



LIFETIME MODEL NUMBER 6 DOUBLE BUTTON MICROPHONE
For voice transmission only it cannot be beaten for three times our price. A real quality instrument for hams at the lowest possible price.

Frame—Aluminum, brightly polished, precisely and accurately machined. Diaphragm—Gold alloy, stretched, gold-plated contact buttons, 200 ohms each. Finest carbon granules. Semi-damped. Frequency response—40 to 3500 c.p.s., excellent for voice transmission. Frame is 3 3/8" in diameter, 1 3/8" thick overall. Lugs for spring suspension.

Recommended especially for amateur and public address work.

LIST, \$10.00 . . . OUR SPECIAL TRADE PRICE . . . \$2.95

LIFETIME MODEL NUMBER 88 DOUBLE BUTTON MICROPHONE

Our biggest bargain in a general purpose microphone. Model No. 88 has the quality workmanship, the scientific design and the rugged strength to give longer and more satisfactory service.

Beautifully Chrome-plated frame, accurately machined to close limits, 3 3/8" in diameter, 2" thick overall, weighs 2 1/2 pounds. Gold spotted duraluminum diaphragm, very sensitive, special stretch ring arrangement. Gold contact buttons of 200 ohms each. Scientifically dampened. Low level of carbon hiss. Practically flat curve of response over the entire voice and musical range. 30—7500 c.p.s. within 4 dB.

LIST, \$20.00 . . . OUR SPECIAL TRADE PRICE . . . \$5.95



SPECIAL STAND
For Small Microphones

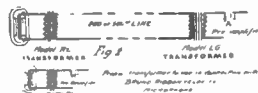
ALUMINUM FRAME NET \$1.47
CHROME PLATED " 2.05
CHROME, WITH COVERS 3.25
ALL ARE COMPLETE WITH SPRINGS.

UNIVERSAL BANQUET STAND

LIST \$10.00 Net \$6.15



	LIST PRICE	DEALER'S PRICE
Bruno Superior Ribbon microphone, assembled AR-1	\$10.00	\$5.88
Bruno Superior Ribbon microphone, assembled AR-2	20.00	11.70
Transformers for Bruno Superior ribbon microphone		
RL—Ribbon to line	5.50	3.24
LG—Line to grid	5.50	3.24
RG—Ribbon to grid	5.50	3.24
Replacement ribbon	1.25	.74
Supersensitive ribbon	1.75	1.03



Responds uniformly to range of 40 to 14,000 cycles. Free from resonant peaks. Because it generates its own current, its operation is absolutely quiet. NO HISS. No rush. Its directional quality makes it easy to eliminate unwanted sound. Can be used at a distance from preamplifier.



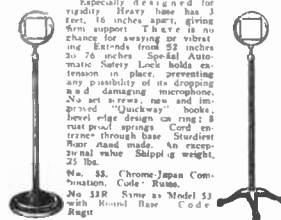
BRUNO CONDENSER MIKE KIT
LIST . . . \$5.00
Dealer's Price . . . 2.94
Complete with Easy Method of Assembly
UNIVERSITY FACTORY APPROVED
LIST . . . \$10.00
Dealer's Price 5.95

NO HISS . . . NO NOISES
The Human Voice Comes Thru Lifelike
Just listen to a Bruno! A clear tone, free from hisses and other noises. "MISSISSIPPI" comes thru undistorted and clear. Overtones and coloring are reproduced perfectly, giving the human voice its natural lifelike quality.

Operates with full efficiency in frigid north or in the tropic. Not affected by altitude or humidity. In fact, it can be dropped into water without danger. Rugged construction insures operation even if handled roughly or dropped.

FLOOR STANDS (Adjustable)

Also Models for Condenser Microphones



Especially designed for rugged heavy base has 3 feet, 16 inches apart, giving firm support. There is no chance for swaying or vibrating. Extends from 22 inches to 36 inches. Special Automatic Safety Lock holds extension in place, preventing any possibility of its dropping and damaging microphone. No set screws, nuts, and imbedded "Quickway" hooks. Level ridge design on rings & rust proof springs. Cord entrance through base. Sturdy steel floor stand made. An exceptional value. Shipping weight, 25 lbs.
No. 52, Chrome-Japan Combination. Code: R52.
No. 53R Same as Model 53 with Round Base. Code: R53R.

NET \$15.00

Mike Springs NET EACH .04

Rubber Covered, Microphone Cable



NET PER FOOT .04

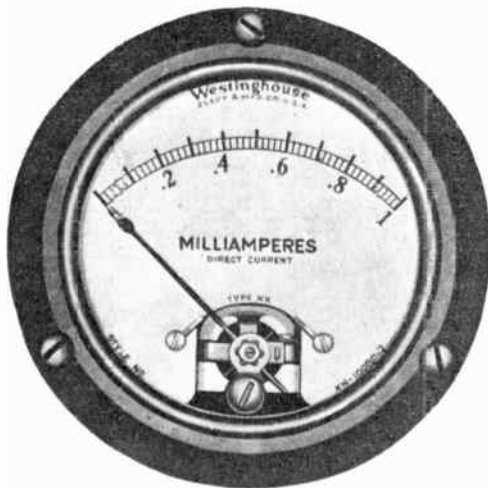
Belden Shielded Microphone Cable



Standard 3 conductor shielded outer covering Brown cotton braid.
No. 8875 NET PER FOOT \$.06

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

Westinghouse Radio Instruments



D-C. MILLIAMMETERS

Rating	Resistance, Approx. Ohms.	WEIGHT		TYPE NX		List Price Symbol AC	Dealer Net Cost
		Net	Shipping	Style No.	Style No.		
0-1mA	110	9 1/2 oz.	1 1/2 lb.	820207	820208	\$10 00	\$ 7 50
0-1.5mA	61	9 1/2 oz.	1 1/2 lb.	820208	820209	10 00	7 50
0-2mA	46	9 1/2 oz.	1 1/2 lb.	820209		10 00	7 50
0-3mA	16.2	9 1/2 oz.	1 1/2 lb.	820211		10 00	7 50
0-5mA	10.1	9 1/2 oz.	1 1/2 lb.	820213		9 00	6 75
0-10mA	2.3	9 1/2 oz.	1 1/2 lb.	818924		9 00	6 75
0-15mA	2.4	9 1/2 oz.	1 1/2 lb.	820216		9 00	6 75
0-20mA	1.7	9 1/2 oz.	1 1/2 lb.	820217		9 00	6 75
0-30mA	1.67	9 1/2 oz.	1 1/2 lb.	820219		9 00	6 75
0-50mA	1.00	9 1/2 oz.	1 1/2 lb.	820221		9 00	6 75
0-100mA	0.50	9 1/2 oz.	1 1/2 lb.	820224		9 00	6 75
0-150mA	0.33	9 1/2 oz.	1 1/2 lb.	820225		9 00	6 75
0-200mA	0.25	9 1/2 oz.	1 1/2 lb.	820226		9 00	6 75
0-300mA	0.17	9 1/2 oz.	1 1/2 lb.	820228		9 00	6 75
0-500mA	0.10	9 1/2 oz.	1 1/2 lb.	820230		9 00	6 75
0-800mA	0.062	9 1/2 oz.	1 1/2 lb.	820232		9 00	6 75

TYPE NX UNIVERSAL RECTOX INSTRUMENT

For A-C., D-C., and Resistance Measurements
Supplied with knife-edge pointer

Description	Style No.	List Price	Dealer Net Cost
Type NX Instrument only for self-contained ranges*	836736	\$19 00	\$14 25

*Dial markings consist of 4 scales 0-100 d-c.; 0-100 a-c.; 0-5 a-c.; and 0-100,000 ohms. The instrument is self-contained for 0-1 milliamp., d-c.; 0-1 milliamp., a-c.; 0-100 millivolts, d-c.; and 0-5 volts, a-c. The resistances of the instrument are 100 ohms on d-c., and 5000 ohms on a-c.

RESISTORS FOR VOLTAGE MEASUREMENTS

Description	Style No.	List Price	Dealer Net Cost
Complete set of resistance spools on Micarta strip with taps, to obtain 0-1.5-10-50-100-200-500-1000 volts, d-c., and 0-10-50-100-200-500-1000 v-pts, ac.	837435	\$ 11 00	\$ 8 25
900-ohm resistance spool	837411	82	47
4000-ohm resistance spool	837412	71	53
5000-ohm resistance spool	836935	75	56
40,000-ohm resistance spool	836938	98	65
50,000-ohm resistance spool	836934	97	73
100,000-ohm resistance spool	836183	1 07	80
300,000-ohm resistance spool	837413	2 16	1 62
500,000-ohm resistance spool	837414	2 16	1 62

VOLTMETERS

Alternating-Current

Capacity	Ohms Total Resistance	Style No. Flush Mounting	List Price Discount Symbol AC	Dealer Net Cost
10	97	630112	9 00	\$ 6 75
15	182	630113	9 00	6 75
25	500	630114	9 00	6 75
75	4870	630115	9 00	6 75
150	16550	630116	11 25	8 44

Special Note:

Type CA Instruments can be supplied with cases and dials to match type NX instruments at these same prices.

RADIO-FREQUENCY AMMETERS

Self-Contained

Rating Amperes, R. F.	WEIGHT		TYPE NX		List Price Symbol AC	Dealer Net Cost
	Net	Shipping	Style No.	Style No.		
0-1	9 1/2 oz.	1 1/2 lb.	820270	820271	\$16 00	\$12 00
0-1.5	9 1/2 oz.	1 1/2 lb.	820271	820272	16 00	12 00
0-2	9 1/2 oz.	1 1/2 lb.	820272		16 00	12 00
0-3	9 1/2 oz.	1 1/2 lb.	820274		16 00	12 00
0-5	9 1/2 oz.	1 1/2 lb.	818928		16 00	12 00
0-6	9 1/2 oz.	1 1/2 lb.	820276		16 00	12 00
0-8	9 1/2 oz.	1 1/2 lb.	820277		16 00	12 00
0-10	9 1/2 oz.	1 1/2 lb.	820278		16 00	12 00
0-15	9 1/2 oz.	1 1/2 lb.	820279		16 00	12 00
0-20	9 1/2 oz.	1 1/2 lb.	820280		16 00	12 00

VOLT-OHMMETERS

DIAL CALIBRATION Volts	Ohms	D-C. Volt-Required	WEIGHT		TYPE NX		List Price Symbol AC	Dealer Net Cost
			Net	Shipping	Style No.	Style No.		
0-1.5	0-1000	1.5	9 1/2 oz.	1 1/2 lb.	836193	836194	\$ 10 50	\$ 7 87
0-1.5	0-3000	1.5	9 1/2 oz.	1 1/2 lb.	836194	836195	10 50	7 87
0-4.5	0-10000	4.5	9 1/2 oz.	1 1/2 lb.	836195		10 50	7 87
0-4.5	0-30000	4.5	9 1/2 oz.	1 1/2 lb.	836196		11 50	8 63
0-4.5	0-100000	4.5	9 1/2 oz.	1 1/2 lb.	836197		13 50	10 13
0-15	0-500000	15	9 1/2 oz.	1 1/2 lb.	836198		13 50	10 13
0-90	0-2000000	90	9 1/2 oz.	1 1/2 lb.	836199		15 00	11 25

Prices are subject to change without notice.

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

BEEDE PRECISION ELECTRICAL INSTRUMENTS

The new line of Beede D'Arsonval type of moving coil meters listed in this bulletin possess the two vital factors which must appeal to every user of this style of instrument.

The first and most important is quality and efficiency. The improved design of the moving coil assembly permits a greater simplicity of construction than has heretofore been possible in the art. This results in unusual ruggedness, high accuracy and freedom from interference of dust and foreign matter. The meter is perfectly balanced in all positions, and the moving system is exceptionally well damped. From the mounting of the sapphire bearing to the construction of the magnet, the materials, workmanship and design conform to the highest quality and most improved practice. Accuracy is guaranteed within 2%.

MODEL 701 PANEL INSTRUMENTS — FLUSH TYPE

D.C. MILLIAMETERS

RANGE	DIVISIONS	LIST	NET
0-1	50	\$6.00	\$3.60
0-1.5	60	6.00	3.60
0-2	40	6.00	3.60
0-3	60	6.00	3.60
0-5	50	4.75	2.85
0-10	50	4.75	2.85
0-15	60	4.75	2.85
0-20	40	4.75	2.85
0-25	50	4.75	2.85
0-30	60	4.75	2.85
0-50	50	4.75	2.85
0-100	50	4.75	2.85
0-150	60	4.75	2.85
0-200	40	4.75	2.85
0-250	40	4.75	2.85
0-300	60	4.75	2.85
0-500	50	4.75	2.85
0-800	40	4.75	2.85
0-1000	50	4.75	2.85



3/4 inches diameter

ALL SIZES
IN STOCK!

A.C. VOLTMETERS

RANGE	DIVISIONS	LIST	NET
0-3	56	\$4.75	\$2.85
0-10	45	4.75	2.85
0-15	50	4.75	2.85
0-150	50	5.75	3.45

VOLT-OHMETER SCALES
For Beede 0 - 1M.A.
Milliammeter



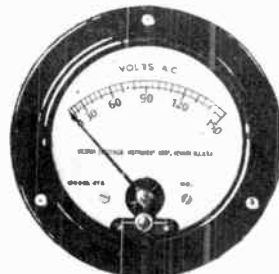
NET PRICE \$.75

Weston Radio Instruments

MODEL 301

D.C. MILLIAMETERS

RANGE	NET
0-1	\$7.50
0-10	6.75
0-15	6.75
0-25	6.75
0-50	6.75
0-100	6.75
0-150	6.75
0-200	6.75
0-250	6.75
0-300	6.75
0-500	6.75



MODEL 476

A.C. VOLTMETERS

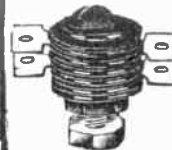
RANGE	NET
0-3	\$6.75
0-15	6.75
0-150	8.45

MODEL 425

THERMO-AMMETERS

RANGE	NET
0-1	\$12.00
0-1.5	12.00
0-2	12.00
0-3	12.00
0-5	12.00

'CRS' METER RECTIFIER Copper Oxide—Full Wave



Converts a D.C. milliammeter to an accurate A.C. voltmeter. Single meter analyzers are now entirely practical and satisfactory due to this new unit. Its many uses are too numerous to mention in this limited space,

but are apparent to the service man and experimenter. Cut shows actual size and ease with which it may be mounted. Each "CRS" rectifier undergoes rigid laboratory tests before it is released and is guaranteed to be perfect. When its rating of 15 MA. is not exceeded, its life is indefinite. Full instructions, circuits and all necessary information regarding its many uses are sent with each unit.

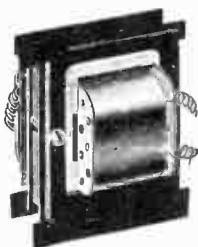
NET PRICE \$2.10

WALTER ASHE RADIO CO.


1100 PINE STREET * * * ST. LOUIS, MO.

WALTER ASHE

TRANSFORMERS

TYPE E300		PLATE TRANSFORMERS				TYPE F100		
Type Number	Primary Voltage	Secondary Voltage		Amps.	Watts	Your Cost	List Price	
S700	112	5000 - 6000 ct		.300	900	\$22.50	\$37.50	
S701	112	3000 - 4000 ct		.400	800	\$18.00	\$30.00	
E300	112	3000 - 4000 ct		.500	1000	\$19.50	\$32.50	
E301	112	3000 - 4000 ct		.300	600	\$15.90	\$26.50	
E302	112	2000 - 3000 ct		.300	450	\$13.50	\$22.50	
E303	112	1200 - 1600 ct		.200	160	\$ 9.00	\$15.00	
E200	112	960 ct		.200	100	\$ 4.50	\$ 7.50	
E201	112	1300 ct		.160				
		7.5 ct		2.5				
		5.0 ct		3.0	140	\$ 9.00	\$15.00	
E202	112	1200 ct		.130				
		7.5 ct		2.5				
		5.0 ct		3.0	120	\$ 7.20	\$12.00	
E203	112	1100 ct		.100				
		7.5 ct		2.5				
		5.0 ct		3.0	90	\$ 4.95	\$ 8.25	
E204	112	3800 ct	.750	2900	\$39.00	\$65.00		
E205	112	3700 ct	.250	475	\$16.50	\$27.50		
E206	112	1000 ct	.150	80	\$ 8.10	\$13.50		

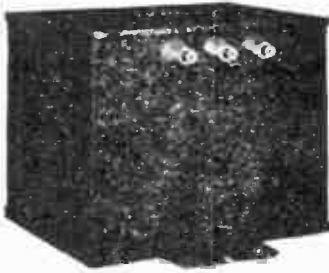
FILAMENT TRANSFORMERS

Type Number	Primary Voltage	Secondary Voltage		Amps.	Insulation	Your Cost	List Price
F100	112	5.0 ct		20.0	10000	\$ 8.10	\$13.50
F101	112	2.5 ct		10.0	10000	\$ 3.00	\$ 5.00
F102	112	2.5 ct		5.0			
		2.5 ct		5.0			
		2.5 ct		5.0	10000	\$ 4.20	\$ 7.00
D500	112	5.0 ct		4.0	3000	\$ 2.40	\$ 4.00
D501	112	7.5 ct		5.0	3000	\$ 3.00	\$ 5.00
W600	112	14.0 ct		6.0	3000	\$ 3.00	\$ 5.00
W601	112	12.0 ct		13.0	3000	\$ 5.40	\$ 9.00
W602	112	12.0 ct	8.0	3000	\$ 3.60	\$ 6.00	

Note: We will bring out other taps from the high voltage windings at an extra cost of \$.18 net per pair,

DON'T FORGET: This is the transformer you have been waiting for.

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

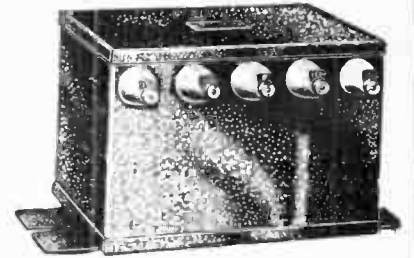


Types 4450, 4455 and 4460

THORDARSON

Plate Supply Transformers

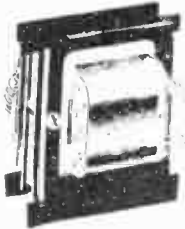
For Many years Thordarson has been the leading transformer for the Ham, and again after many months of painstaking research Thordarson once more offers the Ham a new and complete transmitting power equipment, including plate and filament transformers, chokes and low power reactors.



Types 2388A and 2389A

Type	Height	Width	Weight Lbs.	Primary Volts	Primary Fuse 110-V.	Secondary Volts	Secondary Watts	List Price	YOUR COST
4450	6 1/8"	5 1/4"	20	110-220	3 Amp.	500*	100	\$20.00	\$11.76
4455	7 1/8"	9"	47 1/2	110-220	10 Amp.	2000*	500	35.00	20.60
4460	10"	12"	110	110-220	25 Amp.	2000*	1500	85.00	49.95
2387A	7 1/2"	7 1/2"	20	110	10 Amp.	1000-1500	300	19.00	11.15
2388A	10"	7 1/4"	27	110	10 Amp.	1500-2000	500	25.00	14.70
2389A	8 1/2"	6 1/2"	54	110	20 Amp.	1500-2000	1000	30.00	17.60

*Voltage delivered out of filter.



FRANKLIN #515 FILAMENT TRANSFORMER

2 windings 2 1/2 V. @ 10 A. 5 V. @ 3 A.

NET \$ 1 25



Filter Reactors

1.5 Henry Choke, 200 mils, 1600 V. insulation. Filter choke in key circuits.

T-2376—List Price, \$5.00

Your Cost, \$2.94

T-2027
T-2071
T-2073

T-2352—A single open-frame choke, 6 henry, 150 M.A., D.C. Resistance, 100 ohms, 3000 volt insulation. Dimensions: 3" x 3 1/4" x 3 3/4" high.

List Price, \$7.50

Your Cost, \$4.41

T-2071—A single open-frame choke, 30 henry, 150 M.A., D.C. Resistance, 290 ohms, 3000 volt insulation. Dimensions: 2 3/4" x 3 1/2" x 6" high.

List Price, \$10.00

Your Cost, \$5.88

T-2027—A single open-frame choke, 30 henry, 300 M.A., D.C. Resistance, 160 ohms, 3000 volt insulation. Dimensions: 5" x 3 1/2" x 8" high.

List Price, \$13.50

Your Cost, \$7.94

T-2073—A single open-frame choke, 30 henry, 500 M.A., 3000 volt insulation. Dimensions: 4 1/2" x 5 1/2" x 9 1/2" high.

List Price, \$17.50

Your Cost, \$10.00

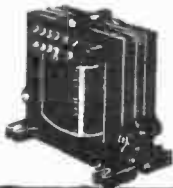
Filament Supply Transformers

All filament transformers have a split secondary with center tap brought out at exact electrical center. Transformer completely shielded with primary for 110 volts, 60 cycles.



Type	Secondary Rating	List Price	YOUR COST
T-2383	12 V.—175 Watts	\$10.00	\$5.88
T-3680	2 1/2 V.—10 Amps.	7.50	4.41
T-2382	12 V.—80 Watts	6.00	3.50
T-2230	7 1/2 V.—3 Amps.	6.00	3.50

THORDARSON Uncased Equipment



THORDARSON PLATE TRANSFORMERS,
800 V. each side C.T. at 150 M.A.
NET EACH #5448 \$4.67



T-2098—A conservatively rated transformer with high voltage winding of 550 volts each side of center tap, and two 7 1/2 volts, 2 1/2 amp. filament windings. Primary: 110 volts, 60 cycles. Cool in operation. Size: 4 1/2" x 5 1/4" x 5 1/4". 13 3/4 lbs.

List Price, \$9.00.

Your Cost, \$5.29

T-2387A—Similar to above with following specifications—Primary: 110 volts, 50-60 cycles. Secondary: 1000 and 1500 volts each side of center tap. Capacity: 300 V.A.

Dimensions: 7 1/2" x 5 1/4" x 7 1/2" high. 20 lbs.
List Price, \$19.00

Your Cost, \$11.17



THORDARSON 15 HENRY 250 M.A.
CHOKES. NET EACH \$2.98
#5450

FILAMENT TRANSFORMER

#5455

FOR TWO 866's

2 I/2 V. @ 10 I/2 A.

NET \$1.68

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

AMPEREX TRANSMITTING TUBE

— GENERAL RATING —

TYPE	PURPOSE OR USE	FILAMENT		MAX. PLATE VOLTS	MAX. PLATE DISSIPATION	NORM R.F. OUTPUT WATTS
		VOLTS	AMPS			
242A	osc & AMPL	100	3.25	1250	125 W	100 W.

242-A 12.50

TRIAD.

TRIAD 866

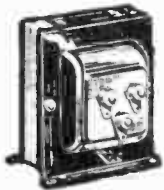
SUPERIOR CONSTRUCTION OF THE ENVELOPE DOES AWAY WITH LEAKAGE. RUGGED FILAMENT DESIGN AND PLATE CONSTRUCTION EQUAL TO NONE.

RATING. PEAK INVERSE, 7500 V. NORMAL DRAIN, .6 AMPS. FILAMENT, 2 1/2 VOLTS AT 5 AMPS.



Net each

\$3.36



Thordarson

Class B Modulators

T5100—Plates of Push Pull 245 tubes to grids of two Class B 210 tubes.
List.....\$5.00 Net each.....\$2.94

T5101—Plates of two 210 tubes Class B to a tapped secondary working into either 2500 or 5000 ohm load.
List.....\$6.00 Net each.....\$3.53

ARRL PUBLICATIONS

- QST.....\$.25
- THE HANDBOOK\$1.00
- LOG BOOK \$.40 EA. 3 FOR..\$1.00
- MESSAGE BLANKS \$.35 EA.
- OR 3 FOR.....\$1.00
- HINTS AND KINKS.....\$.50
- LICENSE MANUAL.....\$.25
- HOW TO BECOME A RADIO AMATEUR..\$.25

FLECHTHEIM
SUPERIOR CONDENSERS

FOR TRANSMITTERS AND AMPLIFIERS

These Condensers are very conservatively rated for continuous duty. Made of the finest of materials and workmanship. Equipped with high grade porcelain insulators. The guarantee of the Flechtheim name is your assurance that you cannot find better condensers anywhere, at any price.



BARGAIN CONDENSER BLOCK
1000 V.D.C. 4 SECTIONS
13 MFD. TOTAL. FULLY GUARANTEED.
\$ 3 00

	List	Net
Type TC: 1000 Volts D.C., 750 Volts Rectified		
TC100 1 mfd.....	\$3.50	\$1.89
TC200 2 mfd.....	6.00	3.24
TC400 4 mfd.....	11.00	5.94
Type T: 1500 Volts D.C., 1000 Volts Rectified		
T100 1 mfd.....	4.50	2.43
T200 2 mfd.....	8.00	4.52
T400 4 mfd.....	14.00	7.56
Type TH: 2000 Volts D.C., 1600 Volts Rectified		
TH100 1 mfd.....	9.00	4.86
TH200 2 mfd.....	15.50	8.37
TH400 4 mfd.....	27.50	14.85
Type HP: 3000 Volts D.C., 2200 Volts Rectified		
HP100 1 mfd.....	18.50	9.99
HP200 2 mfd.....	32.00	17.28
HP400 4 mfd.....	60.00	32.40



DUBILIER

Type TD Transmuting Paper Condensers
Vegetol Impregnated, Vegetol Filled

NUMBER	CAP.	1000 Volts D.C. Working			LIST	NET
TD-10010	1 MF	2 3/8"	1 1/16"	1 1/16"	\$ 2.50	\$1.50
TD-10020	2 MF	4"	1 3/16"	1 1/16"	4.50	2.70
TD-10040	4 MF	4 3/4"	1 3/16"	1 1/16"	7.00	4.20
1500 Volts D.C. Working						
TD-15010	1 MF	2 3/8"	1 3/16"	1 1/16"	3.75	2.25
TD-15020	2 MF	4 3/4"	1 3/16"	1 1/16"	6.25	3.95
2000 Volts D.C. Working						
TD-20010	1 MF	4 3/4"	1 3/16"	1 1/16"	5.25	3.15
TD-20020	2 MF	4 3/4"	1 3/16"	1 1/16"	8.00	4.80
TD-20040	4 MF	4 3/4"	1 3/16"	1 1/16"	15.00	9.00

WALTER ASHE RADIO CO.

1100 PINE STREET " " " ST. LOUIS, MO.



BE SURE!—and you are sure with the Bliley BC3 crystal, illustrated above. This is the new shaped X-cut crystal which is mounted in the new molded bakelite holder. This unit incorporates tube-pin plug-in and features the exposed heat "radiating" electrode. The BC3 is a thoroughly reliable crystal, having increased efficiency, stability and accuracy.

40, 80, 160 Meter crystals, supplied to your EXACT specified frequency in Kcs, end temperature, for **\$6.85**

Supplied within 5Kcs of specified frequency **\$5.75**

Choice from dealer's stock, or within 25Kcs **\$4.95**

20 Meter crystals, type BC3, supplied within 50Kcs of specified frequency, for **\$9.85**

Note: Each BC3 calibration is within 0.03%.

BLILEY

We...
have...
a...
complete
stock...
of...
Crystals

BLILEY CRYSTAL HOLDER

A molded bakelite crystal holder scientifically designed for greatest efficiency. Tube socket plug-in. Two types: for 20-40M., or 80-160M., **\$1.50**



BLILEY BC2 HOLDERS—

Round, black, molded bakelite holders with tube-pin plug-in for any 5-prong socket. Chromium-plated electrodes with variable spring tension. Designed for inch square quartz crystals.

For 20-40 meter crystals **\$1.50**

For 80-160 meter crystals **\$1.50**

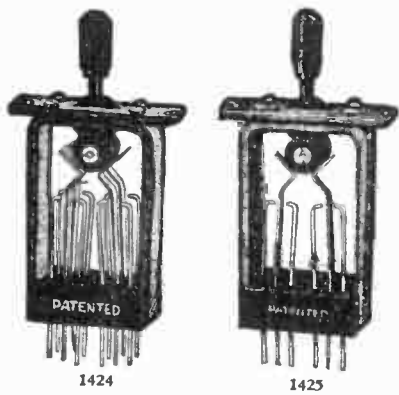
BLILEY BCX CRYSTALS—

These are the standard Bliley X-cut, inch square, power-type quartz crystals. Calibration within 0.05% Fits into BC2 mounting.

Choice from dealer's stock in the 40, 80, and 160 meter bands.

Unmounted, each **\$3.90**

Federal Anti-Capacity Switches



1424

1425

No. 1424—4 P.D.T., 12-spring—List, each, \$2.90
YOUR COST, \$1.70

No. 1425—D.P.D.T., 6-spring—List, each, \$2.45
YOUR COST, \$1.45

EASTERN COIL CO.

CRYSTAL HOLDER

... This Plug-in Dust Proof Quartz Crystal Holder is ideally suited for the amateur and broadcast transmitters. It has been designed for use with crystals ranging from one-fifth to six millimeters in thickness (20-600 meters).

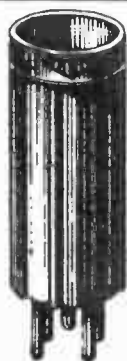


Standard G.K. tips are used spaced 1/4" to fit a standard G.R. connector.

Type "A"—Measures 1-1/32" square inside. Overall dimensions 2 1/4" x 1 1/2" x 1 1/8".

Type "B"—Measures 1 1/8" square inside. Overall dimensions 2 3/8" x 1 3/8" x 1 1/8".

Both types, each..... **\$1.75**



PLUG-IN COIL FORMS

Made of Special Low Loss Bakelite, have standard Base to fit either 4, 5 or 6 Prong Sockets. Winding space on coil form 2 1/2" and has an extended ridge on top so that coil form can be handled without having to take hold of the windings. Outside diameter of COIL FORM is 1 1/2" and has 8 ribs on the surface to permit Low Loss Air Core windings. Coil Forms can be supplied in the following colors: BROWN, BLACK.

Amateurs who prefer to wind their own coils will be pleased with this coil form.

Cat. No. 125
4 Prong Coil Form
Brown, Black.

Cat. No. 126
5 Prong Coil Form
Brown, Black,

Cat. No. 310
6 Prong Coil Form
Brown, Black,

YOUR COST **21c**

YOUR COST **21c**

YOUR COST **24c**

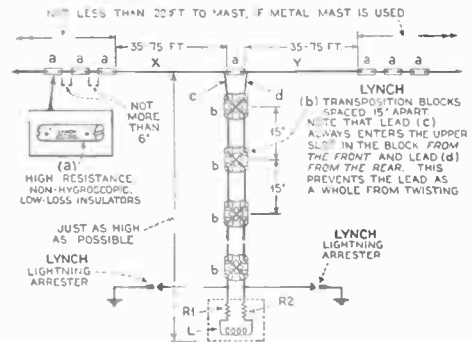
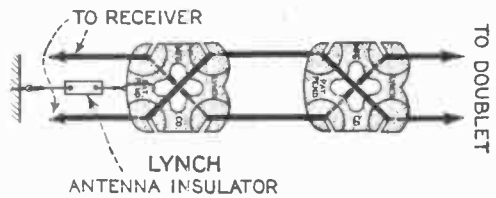
WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

ANTENNA **LYNCH** NO-STAT SYSTEM



LYNCH SHORT WAVE ANTENNA KIT NET \$3.53

• FOR •
ELIMINATING
NATURAL
AND
MAN MADE
STATIC
• — •
100%
OK!



TRANSPOSITION BLOCKS

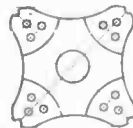
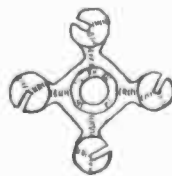
KITS OF 10

LIST \$2.75 Net \$1.62

CAGE AERIAL SPREADERS

KITS OF 10

LIST \$2.75 NET \$1.62



HIGH QUALITY PORCELAIN
Stand-Off Insulator



An item of many uses: Supports Lead-ins; R. F. Leads; Power Supply Leads; Condensers; Choke Coil and Tuning Coil Mountings. Greater strength and finer appearance than other makes because of new type insulation used. Brass fittings. Glazed finish.

Your Cost,
9¢ each
\$1.00 per doz.

MIDGET

Stand-Off Insulator

Used for same general purposes as our No. 401, but is smaller, slightly shorter and can be used to advantage where space is a factor. Black glazed finish.

Your Cost, 7¢ each
\$.75 A DOZ.



Stand-Off Insulators

Increase aerial efficiency by keeping lead-in wire away from building. No. 14 made of one-piece porcelain. No. 9 has heavy metal base. Mounting screws furnished. Each insulator in a separate carton.

Number	Size	List Price Each	YOUR COST
14	4"	\$2.25	\$1.15
8	8"	1.00	.59

MIDGET

Stand-Off Insulator

#403 3/4 in. high net ea. .06 per doz..06
#404 5/8 in. net ea. .05 per doz..50



Bakelite Tubing

(Cut to Order, Wall Thickness 1/16")

Outside diameter	YOUR COST per linear inch
1" or 1 1/4"	\$.04
1 1/2" or 1 3/4"	.06
2" or 2 1/4"	.07
2 1/2" or 2 3/4"	.08
3" or 3 1/4"	.09
3 1/2" or 3 3/4" or 4"	.10



NEON GLOW LAMPS

Made by General Electric Co., Type G. 10. Standard base. 101 uses.

NET ea. \$.40

Bakelite Rods (Round)

Diameter 1/4" YOUR COST per foot \$0.36



G.R. Jacks Net Each \$.07



G.R. Pins Net Each \$.07

Diameter 1/4"

YOUR COST per foot \$0.36

WALTER ASHE RADIO CO.

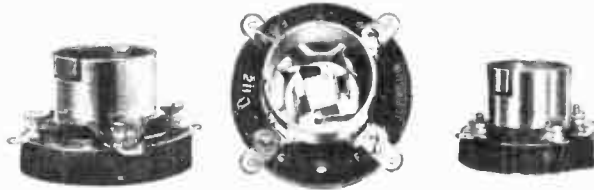
1100 PINE STREET « * * » ST. LOUIS, MO.

E.F. JOHNSON COMPANY

MANUFACTURERS OF
RADIO
TRANSMITTING EQUIPMENT

TRANSMITTING TUBE SOCKETS

Our No. 211 socket is for "50 watt" tubes of various types, including rectifiers. The exclusive dual phosphor bronze contacts were designed especially for heavy duty, tube failures due to high contact resistance to filament prongs being eliminated. Contacts and soldering terminals are formed in one piece and cadmium plated. Heavy binding pasts, highly polished nickle plated brass shell, and high quality glazed porcelain base complete a superior socket.



Before introducing our No. 210 socket, it was necessary to use receiver type tube sockets for such transmitting tubes as '52, '10, etc. It is very desirable to have sockets which will hold such tubes by their bases rather than by the prongs only, since the tubes cannot work loose even with severe handling. The improved contact is especially valuable with '66 rectifiers. The 210 socket should be used for all UX base tubes with bayonet prongs.

No. 211 50 WATT SOCKET. list price **\$2.00** NET **\$1.20** No. 210 UX BASE SOCKET. list price **\$1.25** NET **\$.75**

No. 120 Antenna Insulator, 20" long. list price **\$1.00**

NET **\$.60**

NO. 30 FEEDER SPREADER

NET **\$.18**



No. 60 STAND-OFF INSULATOR. list price **\$1.50** Net **\$.33**

PYREX RADIO INSULATORS



	<i>Broadcast Reception Insulators</i>	<i>Amateur Transmitting</i>
Number	67007	67017
Length (overall)	3 3/4 in.	7 1/4 in.
Developed leakage path	3 3/16 in.	6 in.
Average flashover value (Kv.) Wet	22.5	32
Average flashover value (Kv.) Dry	38	75
Weight	3 oz.	13 1/2 oz.

#67007 NET. **\$.18**
#67017 **.68**

PYREX
LEAD
IN
BOWLS



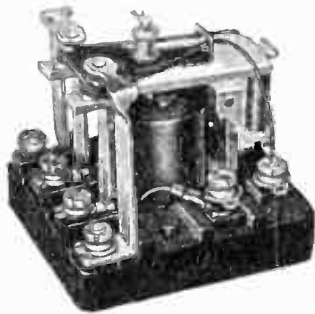
67104-67105

<i>Number</i>	<i>Length Over-all</i>	<i>Outside Diameter</i>
67104	15"	2 1/2"
67105	20"	2 1/2"

#67104 NET **\$1.50**
#67105 **1.60**

WALTER ASHE RADIO CO.
1100 PINE STREET « « » » ST. LOUIS, MO.

WARD LEONARD ELECTRIC CO. Midget Magnetic Relays

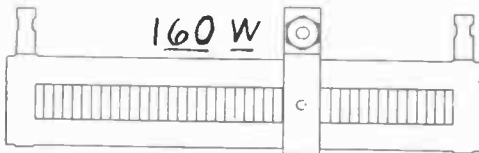


Description	Catalog Number	Pole	Throw	Break	Normally	Volts		Net
						A.C. 60 Cycle	D.C.	
For Mercury Vapor Rectifiers.....	507-501	S. P.	S. T.	S. B.	Open	110	.....	\$ 9.00
For Remote Control	507-503	D. P.	S. T.	S. B.	Open	6 to 8	.....	4.80
For Remote Control	507-504	D. P.	S. T.	S. B.	Open	6 to 8	6 to 8	4.80
For Remote Control	507-505	D. P.	D. T.	S. B.	.....	6 to 8	.....	4.40
For Remote Control	507-506	D. P.	D. T.	S. B.	.....	6 to 8	6 to 8	5.40
For Keying.....	507-507	S. P.	S. T.	D. B.	Open	.....	2.5	4.20
For Keying.....	507-508	S. P.	S. T.	D. B.	Open	.....	6 to 8	4.20
For Crystal Oven....	507-509	S. P.	S. T.	D. B.	Open	.....	110	4.20
For Remote Control	507-510	S. P.	S. T.	D. B.	Open	110	.....	4.20
or Remote Control	507-511	D. P.	D. T.	S. B.	.....	110	.....	5.40

Vitrohm Transmitting Grid Leak Resistors

Tube	Cat. No.	Resis. Ohms	Current m. a.	Code Word	Price	Net
'10	507-8	10,000	50	Rabacheur	\$1.00	\$.60
'45	507-68	50,000	10	Rabiscamos	1.70	1.02
'52	507-204	15,000	40	Rastrillad	1.60	.96
'11	507-8	10,000	50	Rabacheur	1.00	.60
'03A	507-202	10,000	60	Rastiatara	1.10	.66
'04A	507-51	10,000	100	Rabelico	3.00	1.80

Vitrohm Resistors with Bare Side for Adjustment

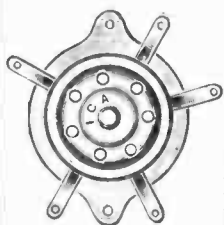


8 1/2" D
160 Watt

OHMS	LIST	NET
5,000	\$ 1.75	\$ 1.05
10,000	1.85	1.11
15,000	2.00	1.20
25,000	2.15	1.29
35,000	2.25	1.35
50,000	2.40	1.44
80,000	2.40	1.44
100,000	2.40	1.44

Vitrohm Stabilizing or Bleeder Resistors

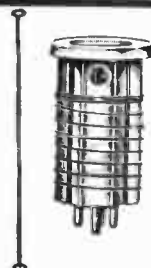
Output Voltage	Catalog No.	Units in Series	Resistance Ohms	Current m. a.	Code Word	Price	Net
500	507-65	1	25,000	20	Rabiateu	\$1.25	\$.75
1000	507-65-2	2	50,000	20	Rabigalgo	2.50	1.50
1500	507-65-3	3	75,000	20	Rabilargo	3.75	2.25
2000	507-65-4	4	100,000	20	Rabisaca	5.00	3.00
3000	507-65-6	6	150,000	20	Rabitate	7.50	4.50



I. C. A. INSULEX SOCKETS

FOR BASE MOUNTING

No.	Prong	List	NET
290.	4 prong	\$.50	.30
291.	5 prong	.50	.30
292.	6 prong	.55	.33
293.	7 prong large	.55	.33
294.	7 prong small	.55	.33



I. C. A. INSULEX COIL FORMS

No.	Prong	List	NET
No. 952	4 prong	\$.50	.30
No. 953	5 prong	\$.55	.33
No. 954	6 prong	\$.60	.36
No. 955	7 prong	\$.65	.39

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.

TRANSMITTING KEYS

WIRELESS KEYS



R-48 KEY

R-48 KEY

The beginner in the field of wireless approves this $\frac{1}{4}$ K. W. Key for its desirability and inexpensiveness. It is well made with polished lacquer parts. Contact points are platinum.

List \$2.50
Net \$1.47



STANDARD KEY

STANDARD KEY

This standard wireless key is designed to carry heavy currents. All brass construction with polished lacquer finish. Has brass base. Furnished with $\frac{1}{16}$, $\frac{1}{8}$ or $\frac{3}{16}$ -inch coin silver contacts.

R-62— $\frac{1}{16}$ " contacts. List \$3.50 Net \$2.05
R-63— $\frac{1}{8}$ " contacts. List \$3.70 Net \$2.21
R-64— $\frac{3}{16}$ " contacts. List \$3.90 Net \$2.30

HIGH FREQUENCY BUZZER



R-60

R-60 BUZZER

The R-60 high frequency buzzer is the same type used on the R-68 Wireless Practice Set. It is adjustable and has a standard resistance of 2 Ohms. Finish is black crystallized lacquer.

List \$1.35
Net \$.73

WIRELESS PRACTICE SETS



R-68

R-68 PRACTICE SET

Designed for those who want a well made instrument to learn the code. Set consists of a key and high frequency buzzer mounted on a mahogany finished wood base equipped with binding posts. The code is printed on a plate and fastened to the base between the key and buzzer. Buzzer is adjustable.

List \$3.00
Net \$1.80

TELEGRAPH INSTRUMENTS

112-K KEY

This key is designed for learners who want something that is scientifically correct but moderate in price. Has black enamel metal base and is mounted on a mahogany finished wood base. Key and switch levers are nickel plated. Contact points are platinum.

List \$2.00
Net \$1.20

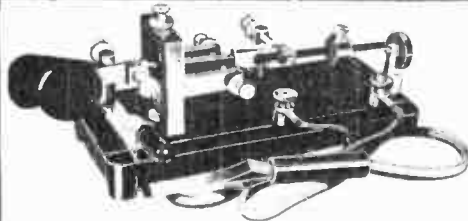


112-K KEY

Knobs



No. 350
PLAIN BLACK
BAKLITE
NET 15¢

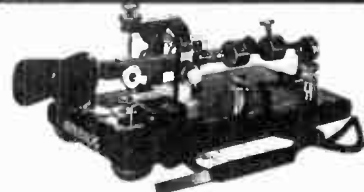


Model 510 JUNIOR HI-SPEED KEY—

A smaller model of our favorite No. 500 Hi-Speed Key. Adjustable to give plenty of pep and life. It will increase the speed of any operator

No. 510. List Price \$9.50
Net \$5.75

*Get
in
Step
use
Speed-x*



Model 500 HI-SPEED KEY—

Adjustable from 8 words per minute to as high a rate as desired. Standard construction used throughout. Solid coin silver contacts. Heavy construction will hold adjustment at all speeds.

No. 500. List Price \$12.50
Net \$7.75

Knobs



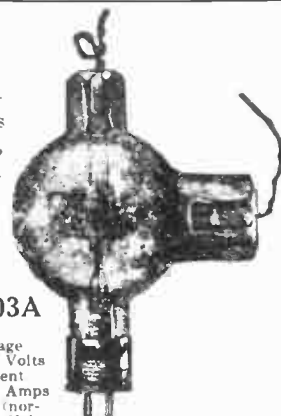
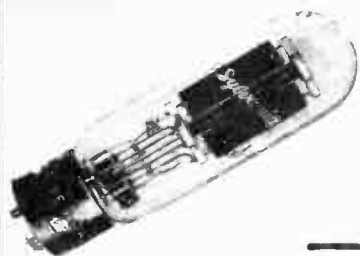
No. 351
NAVY TYPE
NET 35¢

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

Sylvania Transmitting Tubes

Tubes Available NOW!

The Electronics Department of the Hygrade Sylvania Corporation is composed of the former DeForest engineering and sales organizations practically intact, and headed by Mr. W. J. Barkley, former DeForest Vice-President, as General Manager. Mr. D. E. Replogle, also former DeForest Vice-President and Chief Engineer is Chief Engineer for the new organization



Type 210

An extremely stable oscillator of high output, up to and above 31 Megacycles. Specially treated plate make for high plate dissipation and small expansion and contraction, thus overcoming creeping when used as a self-excited oscillator. Special construction for higher voltage breakdown and lower leakage. Not to be confused with the receiving type 210.

Rating As Oscillator

Output (normal).....	15 Watts
Plate Voltage (maximum).....	500 Volts
Plate Current (maximum).....	60 M. A.
Filament Voltage.....	7.5 Volts
Filament Current.....	1.25 Amperes
Normal Plate Dissipation.....	15 Watts
Max Plate Dissipation.....	25 Watts
Average Voltage Amplification Factor.....	3

Net each **\$4.75**

825

REPLACES RK 18,
RCA 800.
40 WATTS OUTPUT
PLATE 1000 V. DC.
FIL. 7½ V. DC.
DESIGNED FOR HIGH
FREQUENCIES. \$10.00

830

FULL 55 WATTS OUTPUT CLASS C
ISOLANTITE UX BASE
PLATE RATING 800 V. DC. **\$8.75**
FIL. 10 V. @ 2 A.
UNIVERSALLY APPLIED TO ANY CIRCUIT.

ALL GRAPHITE PLATES

How to Build and Operate Short Wave Receivers

An excellent book for the advanced and beginner in radio. Tells all about short-wave receivers and how to build them.
72 Pages, 9¾ x 7¾. Over 200 Illustrations. Flexible Cover. **45c**

Type 211

Filament Voltage.....	10 Volts
Filament Current.....	3.25 Amp.
Plate Voltage (normal).....	1000 Volts
Plate Current (normal).....	125 M. A.
Negative Grid Bias—(Class B).....	100 Volts
Negative Grid Bias—(Class C).....	175 Volts
Safe Plate Dissipation.....	75 Watts
Lower Output (normal).....	50 Watts

Net each **\$17.50**

Type 845

Filament Voltage.....	10 Volts
Filament Current.....	3.25 Amp.
Plate Voltage (normal).....	1000 Volts
Plate Current (normal).....	75 M. A.
Negative Grid Bias.....	-150 Volts
Safe Plate Dissipation.....	75 Watts

Net each **\$20.00**

New Type 866

A new construction of the filament makes this the outstanding rectifier of the 866 type. We replace these tubes out of our stock without the usual red tape and bickering. If you have had poor service from 866 tubes, Sylvania will solve your problems.

Filament Voltage.....	2½ volts
Filament Current.....	.5 Amperes
Maximum Peak Inverse Voltage.....	7500 volts
Maximum Peak Plate Current.....	0.6 Amps.
Approximate Tube Voltage Drop.....	12 volts

Net each **\$5.00**

Type 203A

Filament Voltage.....	10 Volts
Filament Current.....	3.25 Amps
Plate Voltage (normal).....	1000 Volts
Plate Current (normal).....	125 M. A.
Grid Leak Resistance.....	5000 Ohms
Safe Plate Dissipation.....	75 Watts

Power output (normal)..... 50 Watts
Net each **\$17.50**

Type 852

Filament Voltage.....	10 Volts
Filament Current.....	3.25 Amp
Maximum Plate Dissipation.....	100 Watts
Maximum R.F. Grid current.....	10 Amp
Plate Resistance.....	6000 Ohms
Mutual Conductance.....	2000 M.Mhos
Amplification Factor.....	12
Approx. Grid-plate Capacity.....	3 MMF
Socket—Standard UX type.....	

Net each **\$23.80**

Type 872

Filament Voltage.....	5 Volts
Filament Current.....	10 Amperes
Maximum Peak Inverse Voltage.....	7500 Volts
Maximum Peak Plate Current.....	2½ Amperes
Approximate Tube Voltage Drop.....	10 Volts

Net each **\$16.50**

GENERAL RADIO LAB'S. CRYSTALS.
EASY AND FREE OSCILLATORS,
CLEAR "X" CUTS, HIGH POWER.

80 METERS-----\$ 3.00.
160 METERS-----\$ 3.00.

Citizens' Radio Amateur Call Book

ALWAYS UP-TO-DATE

Issued quarterly, March, June, September and December. Amateur and Commercial Stations from 23 different countries. Single copies.....NET \$1.00



WALTER ASHE RADIO CO.

1100 PINE STREET " " " " ST. LOUIS, MO.

SANGAMO

5000 Volt DC
TEST

CONDENSERS



.00005	net	.54
.0001	"	.54
.00025	"	.63
.0005	"	.75
.001	"	.90
.002		1.35

Cardwell Condensers

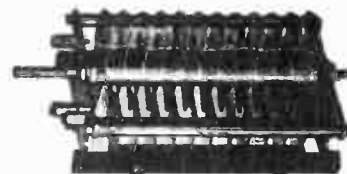
(Suitable for transmitters using up to 75-watt tube)

Type	Plates	Depth Behind Panel	Max. Cap.	Min. Cap.	Weight (Approx.)	List Price	YOUR COST
408B	5	2 7/8"	22 mmfds.	6 mmfds.	4 oz.	\$2.60	\$1.56
409B	7	2 7/8"	35 "	9 "	4 1/2 oz.	2.80	1.68
410B	11	2 7/8"	50 "	11 "	5 oz.	3.20	1.92
411B	15	3 3/8"	70 "	13 "	5 1/2 oz.	3.60	2.16
412B	21	3 3/8"	100 "	15 "	6 oz.	4.00	2.40
413B	31	4 1/4"	150 "	18 "	7 oz.	5.00	3.00

* Rotor and Stator plates of Transmitting Condensers have edges well rounded and are highly polished overall, thus eliminating corona losses and increasing breakdown voltage.

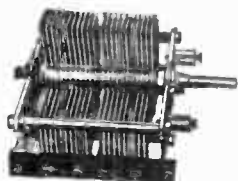
INDIVIDUAL CHARACTERISTICS TRANSMITTING CONDENSERS

Type	Maximum Capacity	Air Gap Bet. Rotor and Stator Pl.	C. to C. Spacing Between Stator Plates	Plate Thickness	Number of Plates	Depth (back of panel)	List Prices	YOUR COST
141B	.00025	.030"	.110"	.0253"	11	2 1/2"	\$ 3.00	\$ 1.80
123B	.00048	.030"	.110"	.0253"	21	3"	4.00	2.40
137B	.00096	.030"	.110"	.0253"	41	4"	5.00	3.00
T183	.00011	.171"	.422"	.040"	23	6 1/2"	9.00	5.40
164B	.00022	.070"	.190"	.0253"	21	4"	4.00	2.40
T199	.00033	.084"	.248"	.040"	37	6 1/2"	10.00	6.00
147B	.00044	.070"	.190"	.0253"	43	5 3/4"	7.00	4.20
511B	.000023	.171"	.422"	.040"	5	3"	3.00	1.80
513B	.000050	.171"	.422"	.040"	11	4"	6.00	3.60
515B	.000056	.230"	.540"	.040"	15	5 3/4"	10.00	6.00

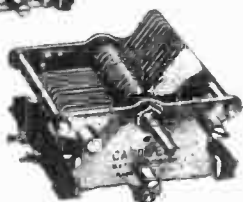


Type T199

CARDWELL SPLIT STATOR CONDENSERS



Type	Capacity			Air-Gap Bet. Rotor and Stator Plates	C. to C. Spacing (between Stator Plates)	Plate Thickness	Number of Plates (ea. Sec.)	Depth (back of panel)	List Prices	YOUR COST
	Sections in		Per Section							
	Mult.	Series								
156B	.001	.00025	.0005	.030"	.110"	.0253"	21	4"	\$6.00	\$3.60
197B	.00016	.00004	.00008	.070"	.190"	.0253"	9	4"	5.00	3.00
157B	.00042	.00010	.00021	.070"	.190"	.0253"	21	5 3/4"	8.00	4.80
510B	.00022	.000055	.00011	.171"	.422"	.040"	23	12"	32.00	19.20
512B	.0001	.000025	.00005	.171"	.422"	.040"	11	6 1/2"	12.00	7.20



RECEIVING

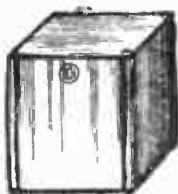
(.031" Air-Gap)

(Also suitable for low-power transmitters using '10-type tube)

Type	Plates	Depth Behind Panel	Max. Cap.	Min. Cap.	Weight (Approx.)	List Price	YOUR COST
401B	3	2 7/8"	26 mmfds.	7 mmfds.	4 oz.	\$2.10	\$ 1.26
402B	5	2 7/8"	50 "	8 "	4 1/4 oz.	2.20	1.32
403B	7	2 7/8"	70 "	9 "	4 1/2 oz.	2.30	1.38
404B	11	2 7/8"	105 "	10 "	5 oz.	2.40	1.44
405B	15	2 7/8"	150 "	11 "	5 1/2 oz.	2.50	1.50
406B	25	3 3/8"	260 "	13 "	6 oz.	2.75	1.65
407B	35	3 3/8"	365 "	14 "	7 oz.	3.00	1.80

Electralloy Cans

Electralloy cans is a non-corrosive, non-magnetic material for radio panels, radio cans and radio shielding purposes. Drills and machines much easier than other metals. Finished in beautiful dull silver. Supplied in No. 16 thickness as follows:



No.	Size	List Price	YOUR COST
1184.	3x 8x6	\$3.50	\$ 2 10
1185.	6x 6x6	3.25	1 95
1186.	9x 5x6	3.00	1 80
1187.	7x 5x6	2.75	1 65
1188.	5x 5x6	2.40	1 44
1189.	14x 8x6	4.00	2 40
1190.	14x 7x6	4.50	2 70
1191.	12x10x6	5.50	3 30
1192.	14x 9x6	7.00	4 20
1193.	12x 6x6	3.50	2 10

BUD SHORT WAVE AND TELEVISION LO-COIL KIT



Cat. No. 222-4 Coils

Wave Range 16 to 200 Meters when tuned with .00015 MFD Variable Condenser. Wiring Diagram for building Short Wave Radio Set included with each set of Coils.

Your Cost \$1.77

WALTER ASHE RADIO CO.
1100 PINE STREET " " " " ST. LOUIS, MO.



ACME-DELTA



ACME-DELTA PLATE TRANSFORMERS

Acme-Delta transformers are designed and constructed in accordance with the best modern engineering and manufacturing practice. All units are assembled with static shields between primary and secondary to minimize "tunable hum," key-click interference, and R.F. radiation from lighting lines. They will deliver their rated voltage within limits of minus 0 plus 5%. This is important in filament excitation to obtain maximum tube life.

They will operate continuously at full load without the temperature rise exceeding 50° C. This gives long life and the ability to stand large temporary overloads.

Their mountings are simple to reduce cost, but due to careful design are nevertheless attractive and adequate. All terminals are non-rotating type mounted on engraved bakelite panels.



TYPE A → B

Cat. No.	Type	D.C. from Filter		A.C. from Secondary		Output		Insulation	Wgt. lbs.	List Price	
		Volts	Amps.	Volts	R.M.S. Amps.	Power VA	Sec. VA				
AD20	A	400	.175	525-0-525	.130	95	137	2500	6¾	\$11.00	
AD21	B	750 or 500	.200	900-600-0-600-900	.150	200	270	4000	13½	16.00	
AD22	C	1000 or 1250 or 2000 or 2500	.500	1500-1250-0-1250-1500	.380	845	1140	13000	39	50.00	
AD23	B	1000 and 500 total	.250	3000-2500-0-2500-3000	.190	350	360	3500	16	21.00	
				600-0-600 For Bridge-Rectifier							

NET
\$ 6.60
9.60
30.00
12.60

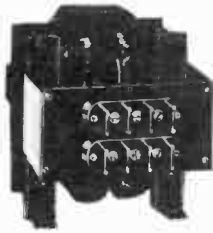
ACME-DELTA FILAMENT TRANSFORMERS

Standard Primary Input — 115 Volts — 60 Cycles, 1 Phase

Delta believes in separate transformers for plate and filament excitation. This permits leaving filaments on while receiving to facilitate quick changeover. Every unit is carefully tested before shipment for insulation, shorted turns, and voltage output.



TYPE F



TYPE C

Cat. No.	Type	Tubes	Output		Insulation	VA	Wgt. lbs.	Price
			Volts	Amps.				
AD12	B	{ 66, '03A, '11 17C, '52, 60 }	{ 2.5 CT 10.0 CT 10.0 CT }	{ 10.0 3.25 3.25 }	{ 7500 2500 2500 }	90	8½	13.50
AD19	A	3-83	{ 5.0 CT 5.0 CT 5.0 CT }	{ 3.0 3.0 3.0 }	3500	45	4½	11.00
AD1011	G	2-66	2.5VCT	10.0	13000	25	4	12.00

NET
\$ 8.10
6.60
7.20

COUPLING TRANSFORMERS



TYPE E

CLASS "A"	Cat. No.	Type	Purpose	For Coupling	Wgt. lbs.	List Price	Net	
	AD90	F	Input Trans.	{ 5 B. Mic. D B Mic. Phono or 500 ohm Line }	to Grid	2¾	\$7.50	\$ 4.50
	AD91	F	Interstage either single tube or pushpull	{ 10,000 ohms or 50,000 ohms }	to Grid	2¼	7.50	4.50



TYPE G

CLASS "B"	Cat. No.	Type	Purpose	For Coupling	Wgt. lbs.	List Price	Net		
	AD72	F	Class B Driver	{ 1-46 1-45 1-59 }	Class A	to { 2-46 or 59 Class B Grids }	2¾	7.50	4.50
	AD74	B	Class B Output	{ 2-46 or 2-59 }	Class B	to { Class "C" RF 4000 or 16,000 ohms }	11	13.00	7.80

I. C. A. SHORT WAVE SUPERHETERODYNE COIL ASSEMBLY

AN EFFICIENT COIL SWITCHING ARRANGEMENT

The I. C. A. Short Wave Coil Assembly is a compact unit of the necessary coils and low capacity selector switch eliminating the inconvenience of plug in coils. Designed to switch the necessary oscillator and detector coils to cover the ranges of 14-28, 27-45, 43-80, 75-200 meters. Unit may be easily wired into a short wave converter circuit for use with TRF or Superheterodyne Receivers. Complete wiring diagram and instructions packed with each assembly.



No. 1425.

List Price \$7.50

NET \$4.50

ACME-DELTA SMOOTHING CHOKES

Cat. No.	Fig.	Inductance Smoothing Rating Henries	Com. Rating	Max. D.C. Current Amps.	Resistance Ohms	Energy Storage Watt Secs.	Insulation	Wgt. lbs.	List Price	NET
AD40	A	8.5	13	.175	135	0.13	2500	6¼	\$8.70	\$ 5.22
AD41	B	10.0	16	.200	110	0.20	2500	11¼	10.50	6.30
AD42	E	{ 8 30 }	{ Above Above }	{ with coils parallel connected with coils series connected }	{ 10 40 }	{ 1.00 275 }	{ 6000 1000 }	{ 17¾ 10½ }	{ 22.00 17.00 }	{ 13.20 10.20 }
AD43	B	12	18	.275	120	0.45	3500	10½	17.00	10.20

ACME-DELTA SWINGING CHOKES

Cat. No.	Fig.	Ind. Henries	Max. D.C. Current	Volts	Min. Input Cond. Mfd.	Res. Ohms	Insulation	Wgt. lbs.	List Price	NET
AD30	A	5 25	.175	400	3	135	2500	6	\$8.70	\$ 5.22
AD31	B	8 40	.200	750	2	110	2500	11	10.50	6.30
AD32	E	{ 5 25 20 100 }	{ .500 .250 }	{ 1250 2500 }	{ 3 1 }	{ 70 275 }	{ 6000 1000 }	{ 17¾ 12¼ }	{ 22.00 17.00 }	{ 13.20 10.20 }
AD33	B	8 40	.275	1000	2	120	3500	12¼	17.00	10.20

WALTER ASHE RADIO CO.
1100 PINE STREET * * * * ST. LOUIS, MO.

New HAMMARLUND Type "T" Intermediate Frequency Transformers

These high grade transformers are specially designed for experimental and replacement purposes. Their sensitivity, selectivity, and other characteristics are such as to make them equally satisfactory in superheterodynes employing either one or two stages of I. F. in connection with any type of second detector. Made in six special types for broadcast wave, short wave and long wave receivers. Quantity production permits pricing these units very attractively.

All transformers are of the tuned grid, tuned plate type with lattice wound coils impregnated to prevent moisture effects. Litz windings are used in the 465



k. c. short wave transformers. Tuning condensers are the highest grade mica compression type mounted on Isolantite bases and adjustable from the top of the shield can. Leads are R. M. A. color coded and tagged for easy installation. Secondaries are either plain for standard screen grid tubes or center tapped for tubes requiring split input circuits such as Wunderlich tubes, 55's 75's 83's 2A6's, etc.

Aluminum shield cans measure 2 1/8" outside diameter by 3 1/2" high. Mounting is by means of threaded lugs on 2" centers. Transformers are individually packed with screen grid cap and mounting nuts.

Code T-175 (175 k. c.).....

97¢

Code T-465-CT (Center-tapped 465 k. c.)... **97¢**

New HAMMARLUND "Air-Tuned" Intermediate Transformers



Both the intermediate frequency transformer and oscillator units use air dielectric tuning condensers in connection with Litz coils of exceptional efficiency.

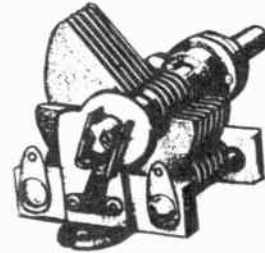
These precision units are necessary wherever 100% efficiency and absolute stability are essential requirements. Whereas transformers using mica dielectric condensers will change 2% or more in frequency, depending on moisture and temperature conditions, these "air-tuned" transformers will retain their original settings to within 1/10 of 1%. They are used in the Comet and Comet "Pro" receivers provide a sensitivity better than 1/2 microvolt per meter and a selectivity 4 better than 10 db. at 1000 times the input.

The oscillator unit is equipped with a tuning lever to vary the beat note.

- | | | | |
|-----------------------------------------------|--------|------------------------------------------------------------------|------|
| Code ATT-175 (175 K.C.I.F. Transformer) | \$4.50 | Code ATT-465-CT (465 K.C.I.F. Transformer with center tap) | 4.50 |
| Code ATT-465 (465 K.C.I.F. Transformer) | 4.50 | Code ATT-175-CT (175 K.C.I.F. Transformer with center tap) | 4.50 |
| Code ATT-175 (175 K.C.I.F. Transformer) | 4.50 | Code ATO (465 K.C. Beat Choke) | 9.00 |

Any Transformer.....Net **\$2.65**

MIDGET CONDENSERS



LIST OF STOCK SIZES

Code No.	Plates	Min. Cap (Mmf.)	Max. Cap (Mmf.)	List Price	YOUR COST
MC-125 M	43	11	310	\$3.90	\$2.05
MC-250 M	34	10	260	3.00	1.75
MC-200 M	27	10	200	2.80	1.65
MC-140 M	19	7	140	2.50	1.47
MC-100 M	14	6	100	2.30	1.32
MC-100 S	14	6	100	2.50	1.32
MC-75 M	11	6	80	2.00	1.10
MC-75 S	11	6	80	2.00	1.10
MC-50 S	7	1	50	1.80	.94
MC-35 S	5	1	35	1.50	.80
MC-20 S	3	1	20	1.50	.82

"M"—Midget Plate, "S"—Small Circular Plate

HAMMARLUND Equalizers

A very small condenser for neutralizing, balancing and tuning purposes. Useful for balancing multi-tuned circuits as for equalizing gas condenser units. Adjustment of center screw provides gradual capacity change over a wide range. May be attached directly to bonding post of socket or condenser. Mica dielectric, phosphor-bronze flexible plate and bakelite base. Size of base is 3/16" x 1/8".



- | | |
|------------------------------|--------|
| Code EC-35 (3-35 mmf.)..... | \$.24 |
| Code EC-50 (21-50 mmf.)..... | .29 |

HAMMARLUND Flexible Couplings

This coupling permits tandem operation of any number of independent units without requiring exact shaft alignment. A great convenience and time saver. The ends of the condenser sets insulated from each other, allowing instruments in gang to be operated as independent electrical units.



Made of Bakelite convex, with brass bushings and six 1/8" shafts. Four ungrounded and hardened metal set screws provide against shaft slipping. Overall diameter is 1 1/2".
Code FC
List Price, \$9.00
Your Cost, .34¢

HAMMARLUND "STAR" MIDGETS



- | | | |
|----------|----------|-------|
| Cat. No. | Capacity | Price |
| SM-15 | 15 mmf. | 49¢ |
| SM-25 | 25 mmf. | 40¢ |
| SM-50 | 50 mmf. | 54¢ |
| SM-100 | 100 mmf. | 59¢ |

New HAMMARLUND Shielded R. F. Chokes



Inductive 10 m. h.; D. C. resistance 65 ohms; current carrying capacity 100 milliamperes.

Code CH-36S.....\$1.00

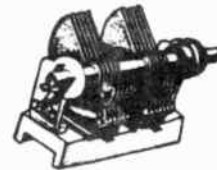
NET \$.59

PADDING CONDENSERS



- | | |
|---------------------------|------------|
| CODE MICS-70 (10-70 MMF.) | NET \$.29 |
| MICS-140 (70-140 MMF.) | NET \$.35 |
| MICS-220 (140-220 MMF.) | NET \$.40 |
| MICS-1000 (600-1000 MMF.) | NET \$.59 |

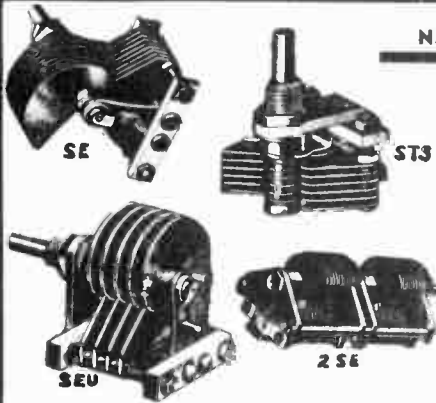
DUAL MIDGETS



- | | | |
|----------------------------------------------|------------|-----------|
| Code | List Price | YOUR COST |
| MCD-140-M 140 mmf. capacity per section..... | \$4.80 | \$2.35 |
| MCD-100-M 100 mmf. capacity per section..... | 4.40 | 2.05 |

WALTER ASHE RADIO CO.
1100 PINE STREET * * * ST. LOUIS, MO.

NATIONAL COMPANY, INC., MALDEN, MASS.



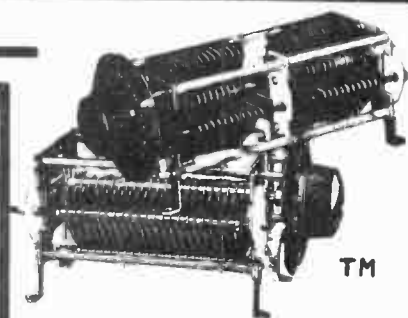
NATIONAL Variable CONDENSERS

NATIONAL Equimeter Condenser (Fig. 1)
(Straight Wave Line)

Made in the Following Sizes

The NATIONAL EM Condensers are of a straight wave line type. The mechanical construction is similar to that of the Type TM Condensers described on page 5. While originally designed for use in receivers, the EM Condenser has proven eminently suitable for low power transmitters and oscillators employing 245, 247 or 210 tubes where the peak voltages encountered are not over 1000. Isolantite insulation is employed throughout. Spacing between adjacent rotor and stator plate surfaces = 0.23

Type	Size	No. Plates	List Price	Net
EM 50	50 mmf.	3	\$2.50	\$1.50
EM 100	100 mmf.	6	2.50	1.50
EM 150	150 mmf.	9	3.00	1.80
EM 200	200 mmf.	11	3.50	2.10
EM 250	250 mmf.	14	3.50	2.10
EM 350	350 mmf.	18	3.75	2.25
EM 500	500 mmf.	26	4.00	2.40
EM 1000	1000 mmf.	44	4.50	2.70

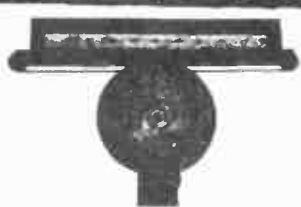


Variable Transmitting CONDENSERS

Type	Capacity	Peak Voltage Rating	No. Plates	Net
TM 35A	.000035	6000v.	7	\$ 2.70
TM 50A	.00005	6000v.	12	3.60
TM 100A	.0001	3000v.	11	2.70
TM 100A	.0001	6000v.	23	6.00
TM 150A	.00015	3000v.	17	3.00
TM 210	.000215	6000v.	35	8.40
TM 230A	.00235	3000v.	23	5.40
TM 350	.00035	6000v.	51	10.20
TM 450	.00045	3000v.	35	6.60
			43	7.20

Complete Specifications and Prices STANDARD NATIONAL H.F. and ULTRA H.F. MIDGET CONDENSERS

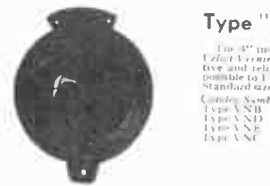
Catalog No.	Capacity in Mmf.	Air Gap	Plate Shape	Rotor Plates	Stator Plates	Depth behind Panel	List Price	Net Price
ST-35	35	.026	180° SLW	5	4	2 1/4"	\$1.50	\$.90
ST-50	50	.026		6	5	2 3/8"	1.80	1.08
ST-75	75	.026		8	7	"	2.00	1.20
ST-100	100	.026		10	10	"	2.25	1.35
STH-140	140	.026	14	14	2 3/4"	2.50	1.50	
STH-150	150	.026	15	14	2 3/4"	2.75	1.65	
STH-200	200	.0175	18	16	2 3/4"	3.00	1.80	
STH-250	250	.0175	16	16	2 3/4"	3.00	1.80	
STH-300	300	.0175	20	19	2 3/4"	3.25	1.95	
STH-335	335	.0175	22	21	2 3/4"	3.50	2.10	
STN-18	18	.065	180° SLW	4	3	1 1/4"	1.40	.84
STHS-15	15	.0175		2	2	"	1.80	.90
STHS-25	25	.0175		4	3	"	1.00	.96
STHS-50	50	.0175		4	3	"	1.00	.96
STD-50	50	.026	6°	5*	5*	2 3/4"	1.50	1.00
STDH-100	100*	.0175		7*	7*	"	1.50	1.00
SS-50	50	.026	180° SLW	5	4	2 1/4"	\$1.80	1.08
SS-75	75	.026		7	6	"	2.00	1.20
SS-100	100	.026		9	8	"	2.25	1.35
SS-150	150	.026		12	12	2 1/4"	2.50	1.50
SSH-200	200	.0175	14	10	2 1/4"	2.75	1.65	
SSH-250	250	.0175	13	11	2 1/4"	3.00	1.80	
SSH-300	300	.0175	16	15	2 3/4"	3.25	1.95	
SSH-350	350	.0175	18	18	2 3/4"	3.50	2.10	
SSN-18	18	.065	180° SLW	3	2	1 1/4"	1.50	.90
SSS-20	20	.0175		1	2	"	1.40	.84
SSS-30	30	.0175		2	2	"	1.50	.90
SSS-50	50	.0175		3	3	"	1.65	.96
SSD-50	50	.026	6°	5*	4*	2 3/4"	1.50	1.00
SSHD-100	100*	.0175		5*	5*	2 3/4"	1.50	1.00
SE-50	50	.026	180° SLW	6*	8*	2 3/4"	\$1.00	1.00
SE-75	75	.026		8	7	"	1.25	1.65
SE-100	100	.026		10	10	"	1.50	2.10
SE-150	150	.026		15	14	2 1/4"	3.75	2.25
SEH-200	200	.0175	14	13	2 1/4"	3.75	2.25	
SEH-250	250	.0175	16	16	2 3/4"	4.00	2.40	
SEH-300	300	.0175	20	19	2 3/4"	4.00	2.40	
SEH-335	335	.0175	22	21	2 3/4"	4.25	2.65	
SEU-15	15	.055	SFL	3	3	2 1/4"	2.50	1.50
SEU-25	25	.055		4	4	"	2.75	1.65
SEU-50	50	.055		5	4	"	2.75	1.65
SEU-75	75	.055		6	5	"	2.75	1.65
SEH-100	100*	.0175	10	10	5"	5"	3.50	3.30
SEH-200	200*	.0175		14	13	"	6.50	3.90



NATIONAL Full Vision Dial

Catalog Symbol	Scale Reading	List Price	Direction of dial rotation for capacity increase	Net
VKC	100-0 180°	\$4.00	Clockwise	\$2.40
VKC	0-100 180°	"	Counter Clockwise	\$2.40
VKE	0-100 270°	4.00	Counter Clockwise	2.40

Type "N" Dial—(Fig. 4)



This 3" instrument dial is equipped with the original and unexcelled NATIONAL Velvet-Vernier mechanism as used in our Type E dial, thereby assuring a smooth, positive and reliable drive which also insures the utmost precision of logging. Reading Standard scale with 1/10 divisions. Ratio = ten to one. Shaft attach to panel at three points.

Catalog Symbol	Type	List Price	Net
VNC	0-100 180°	2.75	1.65
VNC	100-0 180°	"	1.65
VNC	0-100 270°	2.75	1.65

Net \$4.05

Type "E"—(Figs. 1 and 2)

U. S. Patents Nos. 1,656,542, 1,713,146, Dec. 26, 1927.
This dial embodies a Velvet-Vernier disc type of mechanism that assures a positive drive in condensers mounted perpendicular to the front panel. Ratio = ten to one. Hammered silver or bronze finish available. Dial reading available for all types of condensers. Standard type designed to fit 1/4" condenser shaft—supplied at an additional cost to fit 3/8" shaft.

Catalog Symbol	Type	List Price	Net
VEC	0-100 0	\$2.75	\$ 1.65
VEL	200 0	2.75	1.65

Type "F"—(Figs. 3 and 4)

U. S. Patents Nos. 1,789,912, 1,751,658, Dec. 26, 1927.
NATIONAL Velvet-Vernier Drum Dial Type F. Constructed with a mechanism that has a velvet smoothness in operation. automatic spring take-up assures a positive drive at all times. All metal parts cadmium, nickel plated or painted to eliminate possibility of corrosion with rust. Ratio = ten to one. Standard dial is made to be attached to 1/4" condenser shaft.

Catalog Symbol	Type	List Price	Net
VFC	Counter Clockwise (0-100) (180°)	\$4.00	\$2.40
VEF	Type 28 Illuminator extra	.50	1.30

Type "G"—Disc Projection Dial—(Figs. 2 and 5)

U. S. Patents Nos. 1,741,675, 1,656,532, 1,713,146, Dec. 29, 1927.
This dial employs the same type of mechanism and assures user of same velvet smoothness as that embodied in our Type E dial. For use with condensers where shaft is at right angles to the dial. It is a monocular projection type of dial. Standard color is green. Ratio = ten to one.

Catalog Symbol	Type	List Price	Net
VGC	Counter Clockwise (0-100) (180°)	\$4.75	\$2.25
VGE	Clockwise (150-0) (270°)	1.75	1.75

Type "H"—Drum Projection Dial—(Figs. 3 and 5)

U. S. Patents Nos. 1,700,939, 1,789,912, 1,751,658; Dec. 29, 1927.
The Type H Dial employs the proved and popular NATIONAL Velvet-Vernier drum mechanism with its powerful conducting drive and spring take-up that is similar to that used in our type F mechanism. When furnished as a monocular dial, standard color is green. Ratio = ten to one.

Catalog Symbol	Type	List Price	Net
VHC	Monocular - Counter Clockwise (0-100)	\$5.00	\$3.00
VHE	Monocular - Clockwise (100-0)	5.00	3.00
VHCR	Rainbow - Counter Clockwise (0-100) (180°)	5.50	3.30
VHCR	Rainbow - Clockwise (100-0)	5.50	3.30
VHCE	Monocular - Clockwise (150-0) 270°	5.00	3.00

Type "BX"—(similar Fig. 2)

Same as standard Type B dial except with etched silver markings on black background and with Verrier indicator for reading to 1/10 divisions. List Price, each \$6.50. Net \$2.10

NATIONAL Velvet-Vernier DIALS

Type "A"—(Fig. 1)

U. S. Patent No. 1,744,675, others pending.
The Type A is the original NATIONAL Velvet-Vernier Dial with its smooth, matchless mechanism which gives perfect control for night selective circuits. The development of the new form of gearless transmission used in this mechanism permits a rotation that is even and regular throughout its range. No backlash exists, none can develop; dial equilibrium with this mechanism may be used under all operating conditions and assures user of a positive and even drive at all times. Ratio = five to one.

Catalog Symbol	Type	List Price	Net
VAC	3 1/2" Diameter Counter Clockwise (0-100) (180°)	\$2.75	\$ 1.65
VAC	4" Diameter Counter Clockwise (0-100) (180°)	2.75	1.65
VAC	4" Diameter Clockwise (200-0) (360°)	2.75	1.65
VAC	4" Diameter Clockwise (150-0) (270°)	2.75	1.65

Type "B" and "C"—(Fig. 2)

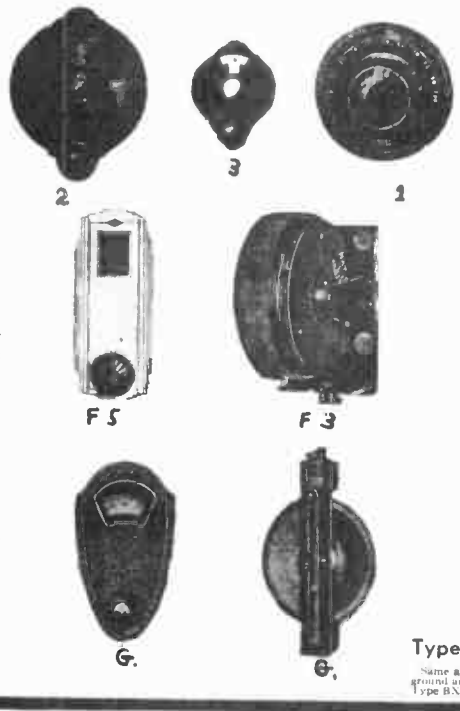
U. S. Patents Nos. 1,653,875 — 1,656,532 — 1,713,146.
The NATIONAL dial embodies a standard Velvet-Vernier mechanism that is smooth, free from backlash, and furnishes a positive drive on condensers where the shaft is at right angles to the panel. Variable ratio of 6 to 1 and 20 to 1. It is equipped with a black shell and easily attached to front panel. Diameter across front of dial 4".

Catalog Symbol	Type	List Price	Net
VB	C Clockwise (200-0) (360°)	\$2.75	\$1.65
VB	D Dual Range (0-100-0) (180°)	2.75	1.65

Type "BM"—3" Dial—(Fig. 3)

U. S. Patents 1,656,532 — 1,713,146.
Similar in appearance to our Type B except that diameter is 3". Has the same Velvet-Vernier mechanism but does not incorporate variable ratio feature. Especially adapted for small receiving and transmitting equipment where space is limited.

Catalog Symbol	Type	List Price	Net
BM	Dual Range (0-100-0)	\$2.50	\$1.50
BM	C Clockwise (200-0)	2.50	1.50



NATIONAL COMPANY, INC., MALDEN, MASS.

List \$1.55 Net \$3.33



NATIONAL COUPLING UNIT

A SMALL INSULATED UNIVERSAL FLEXIBLE DISC TYPE. for 1/4" SHAFTS.

NATIONAL Grid-Grips

Made in Two Sizes
 TYPE 24 — To Fit Broadcast Set Tubes \$1.45
 TYPE 12 — To Fit Large Type Tubes such as 872. \$1.10

Forms only —

1-prong UX base \$.75
 5-prong 1Y base \$.75
 6-prong Special \$.75

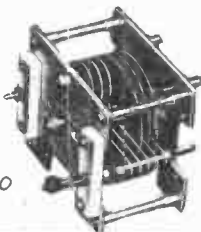
Socket only —

6-prong Special with mounting \$.75

Frequency Meter Condenser

A special purpose condenser designed for use in amateur frequency meters and monitors. The three circular rotor plates make possible the use of a High ϵ circuit which is necessary in order to avoid changes in calibration due to differences in tube characteristics, temperature variation, etc.

When used with a 100 division dial, the spread of the 150 or 80 meter bands is over 80 divisions.
 Type 40 75 Min. Capacity 40 mm. Max. Capacity 75 mm. List Price, \$5.50



Net \$3.30



ISOLANTITE STANDOFF METAL BASE AND TOP. #WGB I 1/4" TALL

List \$.25 Net \$.15

Audio Transformers — Screen Grid Detector Coupling, Type S101

Similar in appearance to No. 3 The impedance coupling unit used in the SW3, SW5 and the new SW58. This unit, when employed to couple the output of a screen grid detector to an audio amplifier tube, will give from two to three times as much amplification as resistance coupling. A regenerative detector will operate with maximum efficiency and freedom from fringe howl and "streaks". Oscillation control will be minimized when using correctly designed impedance coupling. The response characteristic is uniform between 75 and 5000 cycles. Inductance of plate choke — 700 Henries. Capacity of coupling condenser — 01 mfd. Resistance of grid leak — 250,000 ohms. List Price, \$5.50

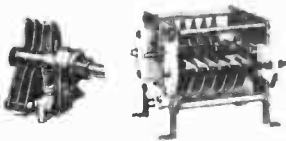
Net \$3.20

EXTRA!! New NATIONAL

variable experimenters condenser. Capacity 100 M.M.F.D. Built up same as old Pilot. Can be taken apart for double spacing etc.

NET ---- .60

NEUTRALIZING CONDENSERS



Type STN Condenser

A compact, rigid, and efficient condenser particularly suitable for neutralizing 245, 247, 210 and similar tubes in amplifier, detector or doubler stages. Very low minimum capacity. Insulate mounting and professional plates. Maximum capacity 18 mfd. Peak voltage breakdown — 3000V. List Price, \$2.00

Net \$1.20

Type TMN Condenser

A heavy duty neutralizing condenser having a peak voltage rating of 6000 volts. Suitable for use with 204A, 850, 904 and similar tubes. Maximum capacity 50 mfd. List Price, \$6.00

Net \$3.60

Air Dielectric Condenser Tuned "I.F." Transformers and Air Dielectric Shielded Padding Condensers

In the better types of high frequency receivers, it is rapidly becoming standard practice to employ air condenser rather than composition mica condenser (tuned I.F. transformers, National, operating with James-Lamb and Q7, pioneered in this important development and now offers a newer and improved unit surpassing even the outstanding performance of this original model. Special Features: Micrometer Tuning — Velvet Vermer Type, All Peaking Adjustments at Top of Shield. Double Bearing Precision Condensers, Self Latching Rotas Isolantite Insulation, New Type of Lip Wound Coils, 450 to 550 KC Tuning Range. Also 175 KC models, Non-remnant Aluminum Rotor and Stator Plates, Electron Coupled Beat Frequency Oscillator Units with Genuine Velvet Vermer Knob Tuning, Standard Mounting.

List Price, either transformers or oscillators, each \$5.00

Shielded air dielectric padding condenser on isolantite base that is essentially no larger than the old mica types. Two sizes — 75 and 100 mfd. max. capacities. Case, 1 1/2" diameter by 1 1/2" high. List prices \$2.00 and \$2.25 each respectively. Net \$1.20 and \$1.35



Net \$3.00



Catalog Symbol Description List Price
 5880-AB Completely wired power supply for use with the AC SW3 Thrill Box using the 27 tubes in the output stage on 105-120 volts, 50-60 cycle current supply. Less tube \$26.50

NATIONAL TUBE and COIL SHIELDS



Aluminum shields for experimental and custom set work.
 Catalog Symbol Description List Price
 J30 1 coil Shield, 2 1/2" dia., 3 1/2" high square flange at bottom 2" \$.35 \$.21
 B40 1 coil Shield, 3" dia., 4 1/2" high \$.35 \$.21
 B40 1 coil Shield, as above with mounting base \$.50 \$.30
 T58 Tube Shield with Top Cap and Bottom Mounting Plate \$.40 \$.24
 T58 Tube Shield with Top Cap and Bottom Mounting Plate \$.40 \$.24

Net The type 158 National Tube Shield is specially designed for use with the type 57 and 58 tubes now on the market.

NATIONAL SOCKETS

A point which is often overlooked in ultra high-frequency receiver and transmitter design is the efficiency of coil and tube sockets. These new Isolantite sockets will reduce such losses to a minimum. Suitable for either standard sub-joint or base-board mounting. Made in standard 4, 5, 6, and 7-prong styles as well as integral 6-prong for NATIONAL coils. List Price \$.60 \$.36

NATIONAL R.F. CHOKE Type 90

Has proper value for all bypassing work on screen-grid or plate circuits of screen-grid tubes and between detector and first audio in accordance with best practice. Multi-section winding adapts this choke for short-wave as well as broadcast work. D.C. resistance, 450 ohms. Inductance 90 millihenries. For standard grid-leak mount. List Price without mounting \$1.25

Net \$.75

NATIONAL R.F. CHOKE Type 100

Insolantite mounting, continuous universal winding in four sections. For mutual connections or standard resistor mountings. Ind. 25 mH, distributed cap. 1 mfd., D.C. resistance 50 ohms. Current rating, 1.5 MA. For low powered transmitters and all types of high frequency receivers. List Price \$.75

NATIONAL R.F. CHOKE Type R-159

Insolantite insulation on metal base — 10,000 v insulation, continuous universal winding in 5 tapered sections, inductance 4 mH., distrib. cap. 1 mfd., D.C. resistance 10 ohms, current ratings — continuous 0.6 amp., intermittent 0.8 amp. For both high and low powered transmitters and laboratory oscillators. List Price \$2.25

Net \$1.35

NATIONAL Power Units

The "FB-7" is designed so that it may be operated directly from any one of several NATIONAL power units, or, if desired, from filament transformer and B-batteries. Using 180 volts B, the total drain is 40 milliamperes. The heater circuit requires 9.5 amperes at 2.5 volts.

The B-voltage employed may be of any value between 180 and 250 volts without affecting the performance of the receiver in any way whatever except for the amount of unfilamented power output. For this reason the use of the No. 5887 power unit is recommended, for amateur communication, or, if already available, the No. 5880 power unit may be used. The 5880 differs from the 5887 in that it employs a much higher degree of hum filtration, necessary because of its original design for use with the SW-3 regenerative detector type receiver. The circuit of the "FB-7" does not require such complete power supply filtration and the lower priced No. 5887 is quite adequate.

For short wave broadcast reception, where a high degree of unfilamented power output is desirable, a higher plate voltage is recommended than that supplied by either the No. 5887 or the No. 5880. Such a power unit is available in the No. 5892, which furnishes voltages sufficient to drive the type 59 power output pentode in the "FB-7" at full rating.

All of the power units employ, of course, R.F. filters for the elimination of tunable hum, and embody the other exclusive features that are well known to users of NATIONAL power equipment.

Catalog No. Description List Price
 5887 AB Second for "FB-7" 1.5V. — 60 Cycles (less tube) \$14.70
 5880 AB High voltage for operation of "59" tube at full rating 1.5V. — 60 Cycles (less tube) \$15.90

WALTER ASHE RADIO CO.
 1100 PINE STREET " " " " ST. LOUIS, MO.

NATIONAL

New and improved

NATIONAL SW-3

Amateur Receiver
AC and Battery Models



Net \$ 17.22

COMPLETE PARTS

Catalog Symbol Name of Parts List Price
ACSW3 NATIONAL complete set of parts for 3-tube Short Wave Thrill Box — less coils and tubes — wired by the Jackson Research Laboratories \$29.50
Note: The above price is for either AC or DC models (Either 2 or 6v.)
AC uses 2-58s and 1-27, 6v DC use 2-36s and 1-37, 2v
When DC Battery model is desired, specify Catalog Symbol as DC SW3 and whether for 2 or 6 volt tubes.
Band spread coils for either the 20, 40, 80, or 160 meter bands, list at \$4.75 per pair.

SINGLE SIGNAL CRYSTAL FILTER FOR FB7A AS USED IN FBXA COMPLETE IF UNIT WITH ALL NECESSARY SWITCHES AND KNOBS, WITH BLILEY CRYSTAL AND HOLDER.
Net \$13.50.



PRESELECTION

ADDITIONAL RF UNIT FOR FB7A OR FBXA. ELIMINATES IMAGE FREQUENCIES, INCREASE OF SIGNAL RATIO, ADDED SELECTIVITY. COMPLETE WITH ONE COIL, LESS TUBE.
Net \$15.00.

NATIONAL

"FB-7" Amateur Type

Short Wave Receiver

The "FB-7", designed primarily for the experienced amateur operator, is a seven tube receiver having exceptional sensitivity, selectivity, stability, and other characteristics essential in order to contend with the crowded conditions of the amateur C. W. and phone bands. Ample sensitivity and selectivity are assured through the use of a circuit employing two stages of high gain I. F. amplification (six tuned circuits) while individual filtering of all circuits, including the oscillators, together with thorough shielding, results in unusual stability. There is no pulling-in or blocking by strong local signals, and frequency drift in both high frequency and beat oscillators has been eliminated. Variation of the volume control has no appreciable effect on the pitch of C. W. signals, even at 14. mc.
The receiver is compact, being only 11 1/2" x 12", and is shaped to conserve space on the operating table as much as possible.
The full vision dial, plug in coils, send and receive switch, beat oscillator switch, calibration chart, etc., all on the front panel, result in an ease and convenience of operation that is possessed by no other receiver.

Net \$ 34.20

FB 7A, with air Dielectric condensers in "I. F." amplifier, completely wired less coils, less tubes. List price, \$57
TUBES: one 56, one 57, two 58's, one 59, two 24's



OUTSTANDING FEATURES:

- High Selectivity and Sensitivity
- Electron Coupled Oscillators — No Frequency Drift
- Uniform Gain over Entire Frequency Range
- Double Shielding
- Absolute Single Control Tuning — No Trimmer
- Two I. F. (High Gain) Stages
- New NATIONAL Type ACS air tuned, Litz wound I. F. Transformers with trimmer adjustments on top
- Tuning Curves on Front Panel
- Gain Control Calibrated in "R Units"
- High Signal to Noise Ratio
- One-Hand Tuning
- Front of Panel Coil Change
- Shielded "R-19" Coils Changed from Front of Panel
- S. F. L. 270° Tuning with Full Vision Velvet Vernier Dial
- Seven Tubes not including Rectifier
- Panel Switch for Cutting B Voltage During Transmission
- Band Spread and Full Range Coils
- Amateur Bands Spread over 100 Dial Divisions
- Full Range 34 mc to 1500 kc.
- "Offset" c.w. Beat Tuning
- Beat Oscillator Switch on Panel
- Phone Jack in 2nd Detector Output Circuit
- Speaker Driven by 50 as Class "A" Pentode
- Mechanical Filter (Quartz Crystal) Available for Full Single Signal Reception
- "Doublet" or Standard Type Antenna System

FBX-A SINGLE-SIGNAL RECEPTION

Fully realizing the tremendous advantages of so-called "single signal" reception in connection with the reception on some of the more congested bands the "FB-X", like the "ACB", has been designed so as to be readily adaptable to the new type operation (high inherent circuit stability, high I. F. gain, special shielding and proper chassis space, directly adjacent to the I. F. transformer and tube, make possible the ready addition at any time of a mechanical filter (quartz crystal) with its associated selective control, condenser and multi-point switch.
Contrary to the widespread impression on the part of many amateurs, single signal reception is primarily for c.w. work, and not for "phone band" use.
The "FB-7" I. F. amplifier is so designed as to have the maximum selectivity possible for phone band use without serious sacrifice of intelligibility.
If desired, the single signal version of the "FB-7" may be obtained as a complete unit by specifying the Catalog Symbol "FBXA" at an additional list price of \$22.50 above that of the "FB7A".
"FBXA" completely wired, with crystal and air dielectric tuned I. F. — less coils and less tubes — list price \$76.50.
All prices on this page include Federal Excise Tax.

Plug-in Type Inductances FOR SHORT-WAVE USE

TYPE R-39 INDUCTANCES "10" Series

For NATIONAL Original AC and DC 3-tube amateur receivers — AC-SW-3, AC-SW-45, DC-SW-34, Short-Wave Thrill Boxes, and the new DC-SW-3.

NOTE: See below for list of "60" series coils for use in AC-SW-58, and new revised AC-SW-3.



General Coverage Coils

Catalog Symbol	Color	Range	List Price Per Pair	Net Price Per Pair
No. 10	Brown	9 to 15 meters	\$5.00	\$3.00
No. 11	Black	13.5 to 25 meters	5.00	3.00
No. 12	Red	23 to 41 meters	5.00	3.00
No. 13	White	40 to 70 meters	5.00	3.00
No. 14	Green	65 to 115 meters	5.00	3.00
No. 15	Blue	115 to 200 meters	5.00	3.00
No. 16	Orange	200 to 360 meters	5.50	3.30
No. 17	Yellow	350 to 550 meters	5.50	3.30
No. 18	Purple	500 to 850 meters	6.50	3.80
No. 19		850 to 1200 meters	8.00	4.80
No. 20		1200 to 1500 meters	8.00	4.80
No. 21		1500 to 2000 meters	8.00	4.80

Band Spread Coils

permit 50 dial division spread on 20, 40, 80 and 160 meter bands with standard NATIONAL SW Thrill Boxes.

Catalog Symbol	Range	List Price Per Pair	Net Price Per Pair
No. 11A	20 meter band (per set of 2)	\$5.00	\$3.00
No. 13A	40 meter band (per set of 2)	5.00	3.00
No. 14A	80 meter band (per set of 2)	5.00	3.00
No. 15A	160 meter band (per set of 2)	5.00	3.00

Type R-39, "60" Series

For NATIONAL AC-SW-58, DC-SW-34, and AC-SW-3 Thrill Boxes.

General Coverage Coils

Catalog Symbol	Range	List Price Per Pair	Net Price Per Pair
No. 60	9 to 15 meters	\$5.00	\$3.00
No. 61	13.5 to 25 meters	5.00	3.00
No. 62	23 to 41 meters	5.00	3.00
No. 63	40 to 70 meters	5.00	3.00
No. 64	65 to 115 meters	5.00	3.00
No. 65	115 to 200 meters	5.00	3.00
No. 66	200 to 360 meters	5.50	3.30
No. 67	350 to 550 meters	5.50	3.30
No. 68	500 to 850 meters	6.50	3.80

Band Spread Coils

Catalog Symbol	Range	List Price Per Pair	Net Price Per Pair
No. 61A	20 meter band (per set of 2)	\$5.00	\$3.00
No. 63A	40 meter band (per set of 2)	5.00	3.00
No. 64A	80 meter band (per set of 2)	5.00	3.00
No. 65A	160 meter band (per set of 2)	5.00	3.00

NATIONAL

Regular and Bandsread "FB-7" COILS

Catalog No.	Range	Any Size Net \$6.00
AB 20	(air padded osc.) 20 Meter Band Spread	
AB 40	(air padded osc.) 40 Meter Band Spread	
AB 80	(air padded osc.) 80 Meter Band Spread	
AB 160	(air padded osc.) 160 Meter Band Spread	
FB A	(air padded osc.) .34000 to 18000Kc	
FB B	(air padded osc.) 19500 to 11400Kc	
FB C	(air padded osc.) 11700 to 7000 Kc	
FB D	(air padded osc.) 7300 to 4000 Kc	
FB E	(air padded osc.) 4200 to 2400 Kc	
FB F	(air padded osc.) 2500 to 1500 Kc	
FB F	(air padded osc.) 1500 to 900 Kc	

The list price of coils for all ranges is \$10.00 per pair. Unwound coil forms, complete with trimmer and coil handle are available at a list price of \$3.65 each, and designated by the Catalog Symbol XR-39.

NATIONAL Regular and Band Spread FB-7 COILS

These new front-of-panel change coils, with grounded and shielded cast metal end-handles and R-39 forms, are for use with the new NATIONAL FB-7 and FB-X Short-Wave Receivers. See pages 12 and 13 for full specifications, tuning curves and prices.

Unwound "R 39" forms, complete with handle, padding condenser, and protective sleeve. Net \$2.19 ea. \$3.65

Special six prong socket mounted in aluminum shield with external terminal strip — same as used in FB 7 receivers. Net \$1.05

Type XCS. List price \$1.75

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1100 PINE STREET " " " " ST. LOUIS, MO.

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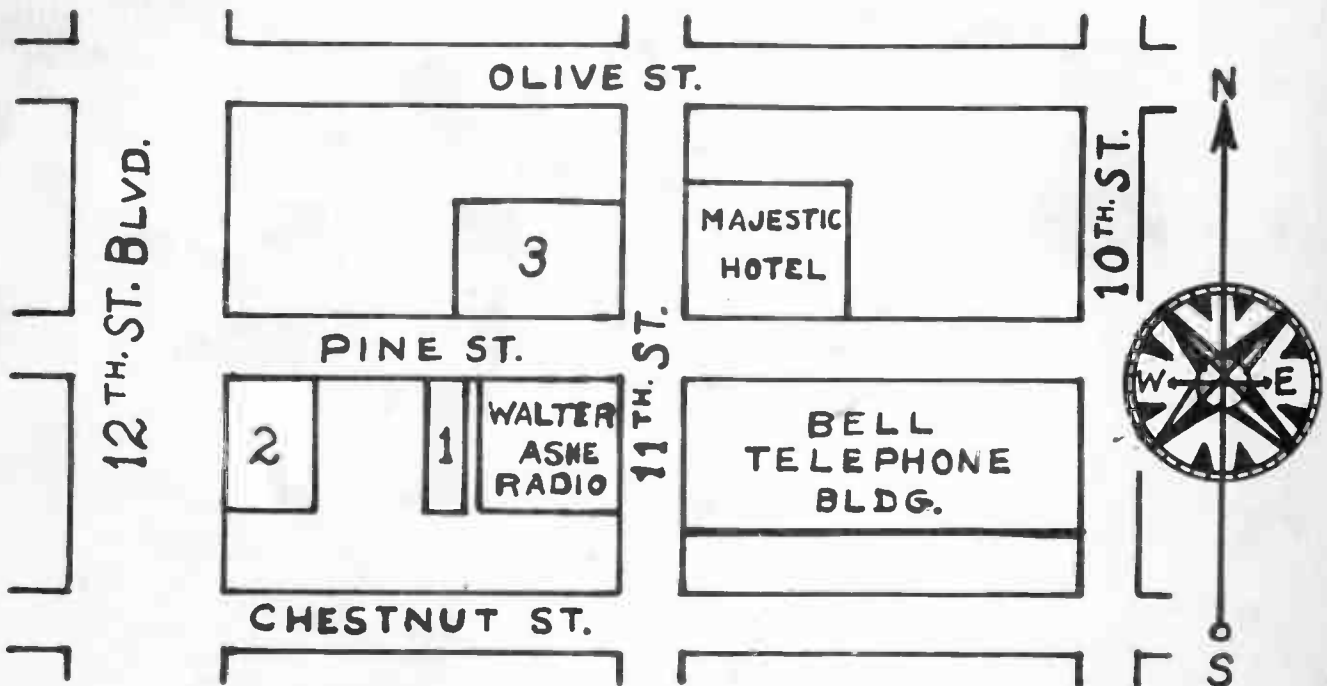


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