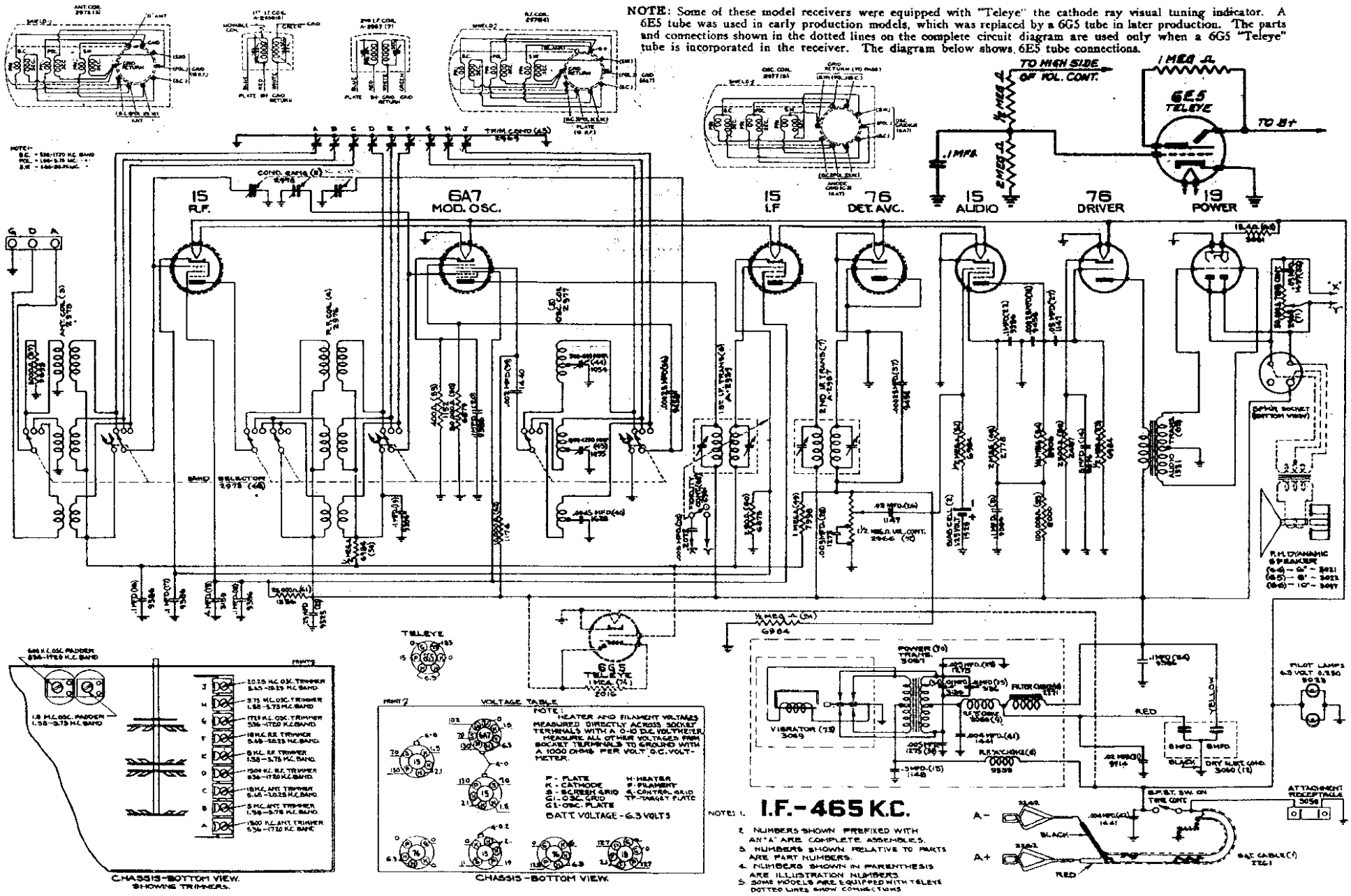
Courtesy Nostalgia Air

Schematic, Trimmers, Voltage Coils

ALLIED RADIO CORP

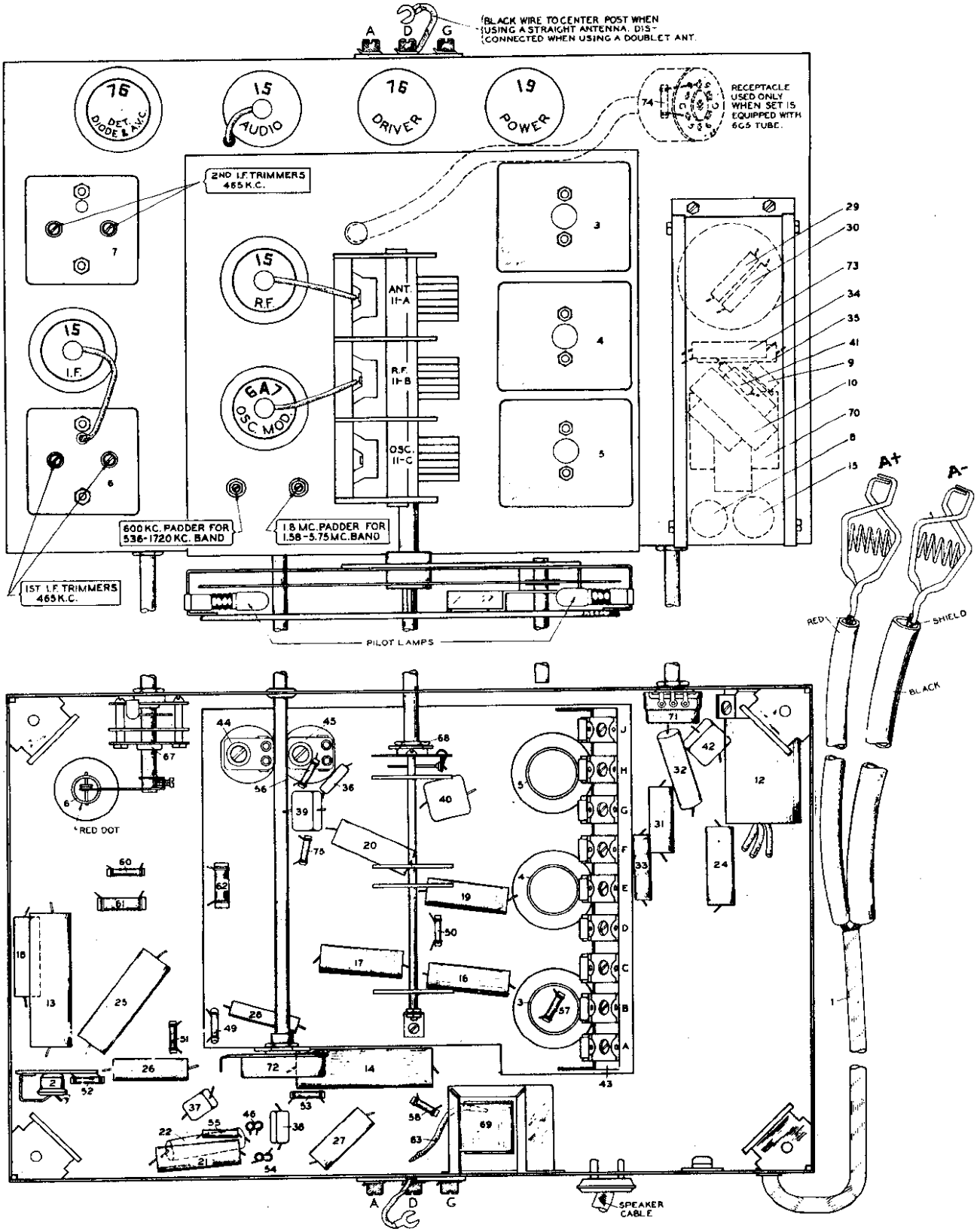
MODELS A9833 to A9838 incl.
Chassis 66B, 66BE

NOTE: Some of these model receivers were equipped with "Teleye" the cathode ray visual tuning indicator. A 6E5 tube was used in early production models, which was replaced by a 6G5 tube in later production. The parts and connections shown in the dotted lines on the complete circuit diagram are used only when a 6G5 "Teleye" tube is incorporated in the receiver. The diagram below shows 6E5 tube connections.



MODELS A9833 to A9838
Chassis 66B,66BE incl.
Socket,Trimmers,Layout

ALLIED RADIO CORP.



Three Band Six Volt Battery Model 66B and 66BE Operated Superheterodyne Receiver

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MODELS A9833 to A9838 incl.
Chassis 66B,66BE

ALLIED RADIO CORP.

Alignment,Parts

ALIGNING I.F.STAGE AT 465 KILOCYCLES:

(a) Attach the ground lead of the test oscillator to the chassis. Connect the other lead to the grid cap of the 6A7 tube through a .02 Mfd. series condenser. DO NOT REMOVE GRID CLIP.
(b) Set test oscillator to EXACTLY 465 kilocycles and turn receiver volume control on full.
(c) Peak each of the second I. F. transformer trimmers.
(d) Peak each of the first I.F. transformer trimmers.
To assure most accurate trimmer setting repeat above adjustment several times always using lowest possible test oscillator output consistent with readable output meter scale deflection.

ALIGNING 1720-536 KILOCYCLE BAND:

(a) Check tuning dial adjustment by turning gang condenser until plates touch maximum capacity stop (completely in mesh), at which point the dial needle must be exactly even with the last line at the low frequency end of the dial calibration. If the dial needle does not point exactly to the last line move needle to correct position.
(b) Remove test oscillator lead from grid of 6A7 tube and connect to receiver antenna post through a .00025 Mfd. series condenser.
(c) Adjust band selector switch for operation on the 1720-536 kilocycle band.
(d) Set test oscillator frequency and receiver dial to EXACTLY 1720 kilocycles, and BRING IN 1720 KILOCYCLE TEST OSCILLATOR SIGNAL TO MAXIMUM OUTPUT BY ADJUSTING 1720 KILOCYCLE OSCILLATOR TRIMMER.
(e) Tune receiver dial and set test oscillator frequency to EXACTLY 1500 kilocycles. Adjust 1500 K.C., R.F. and antenna trimmers for maximum sensitivity.
(e) Set test oscillator frequency and receiver dial to approximately 600 kilocycles. Then while rocking gang condenser slightly to right and left, adjust 600 K. C. oscillator padder for maximum signal response.

ALIGNING 1.58-5.75 MEGACYCLE BAND:

(a) Replace .00025 Mfd. test oscillator antenna lead series condenser with a 400 ohm resistor.
(b) Adjust band selector switch to 1.58-5.75 megacycles, tune receiver dial and set test oscillator frequency to EXACTLY 5.75 megacycles. Bring in 5.75 megacycle test band signal to maximum output by adjusting 5.75 M.C. oscillator trimmer.
(c) Tune receiver dial and test oscillator frequency to EXACTLY 5 Megacycles, and adjust 5 M.C. antenna and R.F. trimmers for maximum sensitivity.
(d) Set test oscillator and receiver dial to approximately 1.8 megacycles. Then while rotating gang condenser slightly to right and left adjust 1.8 megacycle oscillator padder.

ALIGNING 5.65-20.25 MEGACYCLE BAND:

(a) Leave 400 ohm resistor in series with test oscillator lead and place band selector switch for operation on 5.65-20.25 megacycle band, tune receiver dial and set test oscillator frequency to EXACTLY 20.25 megacycles.

(b) Adjust 20.25 M.C. oscillator trimmer to bring in 20.25 megacycle test signal to maximum output.

NOTE: When adjusting this trimmer two peaks, the fundamental and the image peak will be noticed. CARE MUST BE TAKEN THAT THE FUNDAMENTAL PEAK AND NOT THE IMAGE PEAK IS USED FOR ALIGNING THE RECEIVER AT 20.25 MEGACYCLES. Always back off the trimmer to minimum capacity, then screw down the trimmer (add capacity) until the first peak which is the fundamental and the proper one to use is tuned in. If the trimmer is screwed down beyond the point where the first peak is received the incorrect image peak will be tuned in. After completing adjustment of the oscillator trimmer at 20.25 megacycles always check to see if the proper peak has been used. To do this leave test oscillator frequency at 20.25 megacycles, increase the output of the test oscillator and tune receiver dial to approximately 19.25 megacycles. Then vary the receiver dial slightly to the right and left of 19.25 megacycles, and if the fundamental peak was used in aligning at 20.25 megacycles the test oscillator signal will be heard at approximately 19.25 megacycles on the receiver dial.

(c) Tune receiver dial and set test oscillator frequency to EXACTLY 18 megacycles.

(d) Rock gang condenser slightly to right and left and adjust 18 M.C. antenna and R.F. trimmers for maximum 18 megacycle test signal response.

Prices are subject to change without notice.

Illus. No.	Part No.	Part Name	Description	List Price
1	2261	Cable	Battery with Clips	$ .65
2	1928	Cell	Bias 1.25 Volt	.22
3	2975	Coil	Antenna	2.10
4	2976	Coil	R. F.	2.20
5	2977	Coil	Oscillator	1.80
6	2959	Coil	1st I. F. Trans.	1.60
7	2957	Coil	2nd I. F. Trans. Complete Less Sel-Fid. Switch Assembly	1.80
8	9539	Choke	R. F. "A"	.45
9	2066	Choke	R. F. "B"	.28
10	2271	Choke	Filter	1.00
11	2978	Condenser	3 Gang Tuning	4.25
12	3060	Condenser	Dry Elec. (Dual 8 Mfd.)	1.15
13	3159	Condenser	Dry Elec. 4 Mfd. Tubular	.80
14	8876	Condenser	Dry Elec. 5 Mfd. Tubular	.85
15	1148	Condenser	Tubular 0.5 Mfd. 200 Volt	.40
16	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
17	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
18	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
19	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
20	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
21	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
22	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
24	9386	Condenser	Tubular .1 Mfd. 200 Volt	.19
25	9525	Condenser	Tubular .25 Mfd. 200 Volt	.24
26	1147	Condenser	Tubular .05 Mfd. 200 Volt	.19
27	1147	Condenser	Tubular .05 Mfd. 200 Volt	.19
28	1275	Condenser	Tubular .005 Mfd. 400 Volt	.18
29	1275	Condenser	Tubular .005 Mfd. 400 Volt	.18
30	1275	Condenser	Tubular .005 Mfd. 400 Volt	.18
31	9714	Condenser	Tubular .02 Mfd. 400 Volt	.18
32	1497	Condenser	Tubular .03 Mfd. 600 Volt	.19
33	2075	Condenser	Tubular .005 Mfd. 600 Volt	.18
34	3136	Condenser	Tubular .01 Mfd. 1200 Volt	.23
35	3136	Condenser	Tubular .01 Mfd. 1200 Volt	.23
36	9458	Condenser	Mica .00025 Mfd.	.21
37	9458	Condenser	Mica .00025 Mfd.	.21
38	9458	Condenser	Mica .00025 Mfd.	.21
39	1440	Condenser	Mica .002 Mfd.	.21
40	1628	Condenser	Mica .0045 Mfd.	.21
41	1441	Condenser	Mica .004 Mfd.	.21
42	1441	Condenser	Mica .004 Mfd.	.21
43	2969	Condenser	Trimmer (Assembly)	1.30
44	1054	Condenser	Padding (300-600 M.M.F.)	.55
45	1055	Condenser	Padding (800-1200 M.M.F.)	.55
46	2778	Resistor	Carbon 2 Meg. Ohm 1/3 Watt	.19
49	7998	Resistor	Carbon 1 Meg. Ohm 1/3 Watt	.19
50	6984	Resistor	Carbon 1/2 Meg. Ohm 1/3 Watt	.19
51	6984	Resistor	Carbon 1/2 Meg. Ohm 1/3 Watt	.19
52	6984	Resistor	Carbon 1/2 Meg. Ohm 1/3 Watt	.19
53	6984	Resistor	Carbon 1/2 Meg. Ohm 1/3 Watt	.19
54	8906	Resistor	Carbon 1/4 Meg. Ohm 1/3 Watt	.19
55	8000	Resistor	Carbon 100,000 Ohm 1/3 Watt	.19
56	6879	Resistor	Carbon 50,000 Ohm 1/3 Watt	.19
57	9693	Resistor	Carbon 5,000 Ohm 1/3 Watt	.19
58	2437	Resistor	Carbon 2,500 Ohm 1/3 Watt	.19
59	1152	Resistor	Carbon 400 Ohm 1/3 Watt	.19
60	6875	Resistor	Carbon 250 Ohm 1/3 Watt	.19
61	1336	Resistor	Carbon 20,000 Ohm 1/3 Watt	.19
62	1176	Resistor	Carbon 10,000 Ohm 1/3 Watt	.19
63	3061	Resistor	Flex. Wire Wound 13.4 Ohm 1 Watt	.19
64	3021	Speaker	P. M. Dynamic (6")	5.00
65	3022	Speaker	P. M. Dynamic (8")	6.00
66	3097	Speaker	P. M. Dynamic (10")	7.00
67	2961	Switch	Selectivity-Fidelity Complete with Arm and Connecting Link	1.05
68	2973	Switch	Band Selector	.80
69	1331	Transformer	Audio	1.40
70	3067	Transformer	Power	2.35
71	2965	Tone Control	With "On-Off" Switch	1.00
72	2966	Volume Control		.85
73	3069	Vibrator		4.50
74	2616	Resistor	Carbon 1 Meg. Ohm 1/3 Watt	.19
			MISCELLANEOUS	
	2758	Arm	Selectivity-Fidelity Mechanism	.10
	9023	Bulb	6.3 Volt .150 Amp. Dial Light	.19
	9063	Base	Tube Shield	.05
	2500	Cable	For 6G5 Tube Socket	.50
	2498	Clamp	For 6G5 Socket	.08
	3092	Rod	8-32x2-1/2" Threaded for Bliss.	.05
	3070	Covers	Front and Back for Bliss.	.35
	2422	Dial Assembly	Complete	4.25
	2423	Dial Scale	Calibrated Scale—Mention Name Required	.80
	2981	Dial Indicator	Band Indicator with Arm	.55
	2987	Glass	With Escutcheon	1.55
	2534	Knob	Marked "Tuning"	.30
	2444	Knob	Marked "Volume"	.30
	2732	Knob	Marked "Selectivity"	.30
	2445	Knob	Marked "Band Selector"	.30
	2535	Knob	Marked "Tone On and Off"	.30
	3083	Pointer	Dial	.15
	3059	Receptacle	6 Volt Attachment	.15
	1361	Shield	Tube	.15
	2953	Strip	Antenna and Ground	.25
	2528	Shell	Bakelite for 6G5 Socket	.09

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