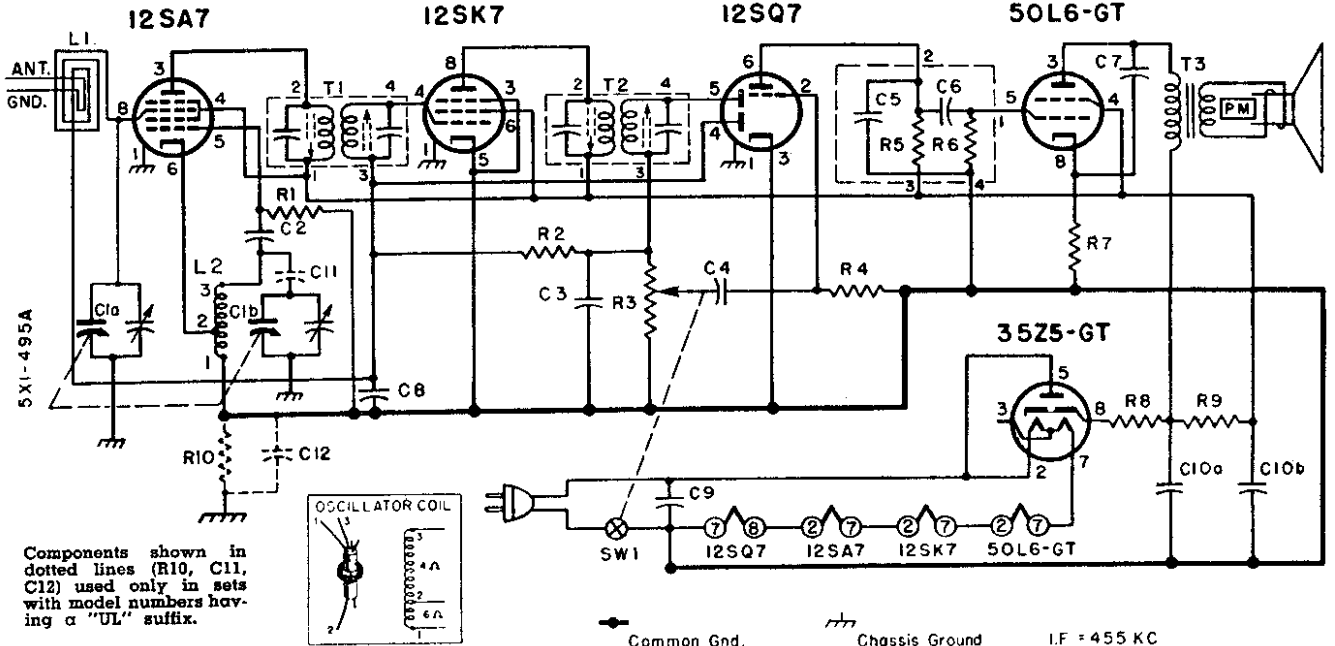
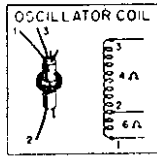


MODELS 5X11, 5X12,
5X13, 5X14; Ch. 5X1

If external antenna and ground is required, connect to wire leads on loop antenna. Caution: Do not connect ground wire directly to chassis.



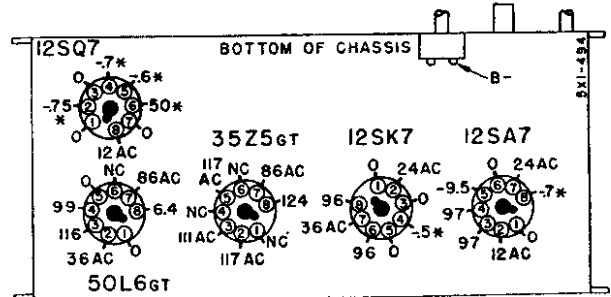
Components shown in dotted lines (R10, C11, C12) used only in sets with model numbers having a "UL" suffix.



Common Gnd. Chassis Ground I.F. = 455 KC
NOTE: Common Gnd. becomes chassis ground in sets with model numbers ending in "N".

VOLTAGE DATA

- All readings made between tube socket terminals and B minus (terminal of On-Off switch).
- Dial turned to low frequency end; volume control at minimum.
- Measured on 117 Volts AC line. When measured from DC line, voltages may be slightly lower.
- Voltages measured with Vacuum Tube Voltmeter. Readings taken with a 1,000 ohm per volt meter will be approximately the same except for those marked with an asterisk * in the voltage chart; these readings will either be lower or practically zero.



* If taken with a 1000 ohm-per-volt meter, readings will be either lower or practically zero.

RESISTORS			COILS, TRANSFORMERS, Etc.			MISCELLANEOUS	
Symbol	Description	Part No.	Symbol	Description	Part No.	Description	Part No.
R1	22,000 Ohms, 1/2 Watt	60B 8-223	L1	Antenna, Loop (mounted on cardboard back)	69C 108	Cabinet	
R2	1 Megohm, 1/2 Watt	60B 8-105	L2	Coil, Oscillator	69A 20-2	Ebony (5X11)	34D 26-5
R3	1 Megohm Volume Control and On-Off switch SW1	75B 1-25	T1	Transformer, 1st I.F.	72B 50	Mahogany (5X12)	34D 26-6
R4	4.7 Megohms, 1/2 Watt	60B 8-475	T2	Transformer, 2nd I.F.	72B 51	Ivory (5X13)	34D 26-7
R5	470,000 Ohms, 1/2 Watt	60B 8-475	T3	Transformer, Output	98A 4	Mahogany and Gold (5X14)	34D 26-8
R6	470,000 Ohms, 1/2 Watt	60B 8-475	SW1	Switch, On-Off (Includes R5, R6, C5, C6)	Part of R3	Cartons and fillers	44B 134
R7	150 Ohms, 1/2 Watt	60B 8-151				Clip, Elect. Mtg.	18A 10-6
R8	33 Ohms, 1 Watt	60B 28-3				Dial Cord	50A 1-3
R9	1,000 Ohms, 1 Watt	60B 28-2				Escutcheon, Dial Scale	23B 47
R10	150,000 Ohms, 1/2 Watt (R10 used only in sets with model numbers ending in "UL")	60B 8-154				Knob, Tuning	
						Ebony (5X11)	33A 39-7
						Ivory (5X13)	33A 39-9
						Mahogany (5X12, 5X14)	33A 39-8
						Pointer, Dial (Disc)	25B 34
						Shaft, Tuning	28A 26-1
						Snap Button, Escutcheon Mtg.	13A 1-2-59
						Spacer, Tuning Shaft	29A 2-7-71
						Spring, Dial Cord Tension	19B1-2
						Speed Nut (for tuning shaft spacer)	2B10-19
						Socket, Tube	87A10-7
						Washer, "C" (tuning shaft)	4A4
						Washer, Felt (Knob)	
						Washer, Spring (tuning shaft)	



MODELS 5X11, 5X12,
5X13, 5X14; Ch. 5X1

ALIGNMENT PROCEDURE

- Connect output meter across voice coil.
- Turn receiver volume control full on.
- Use an isolation transformer if available, otherwise connect a .1 mfd. condenser in series with low side of signal generator and attach to B minus (terminal of On-Off switch).

Caution: Do not connect a ground wire directly to chassis.

- Use lowest output setting of signal generator capable of producing adequate output meter indication and then proceed as outlined in chart below.
- Repeat adjustments to insure good results.

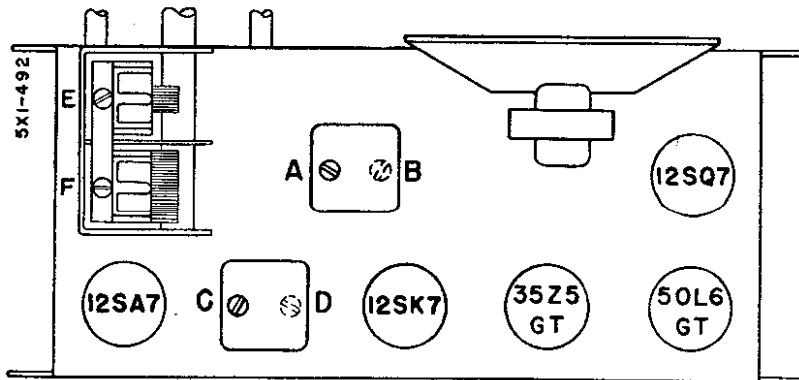
NOTE

- Use a non-metallic alignment tool for IF transformers.

Step	Dummy Antenna in Series with Signal Generator	Connection of Signal Generator (High Side)	Signal Generator Frequency	Receiver Gang Setting	Trimmer Description	Trimmer Designation	Type of Adjustment
1	250 mmfd. condenser	Tuning condenser Antenna stator	455 KC	Gang fully open	2nd IF 1st IF	A, B C, D	Maximum Output
2	250 mmfd. condenser	Tuning condenser Antenna stator	1620 KC	Gang fully open	Oscillator (on gang)	E	Maximum Output
3	Loop of several turns of wire (or place generator lead close to receiver loop for adequate signal)	No physical connection (signal by radiation)	1400 KC	Tune in generator signal	Antenna (on gang)	F	Maximum Output
4	Mount and set dial pointer as shown in Pointer Setting and Dial Cord Stringing Diagram.						

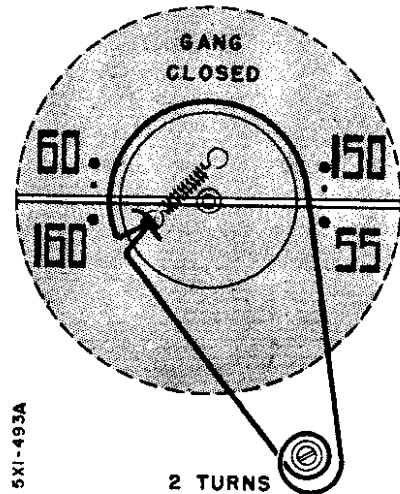
NOTE: Adjustments B and D are made from underside of chassis.

TUBE AND TRIMMER LOCATION



Adjustments B and D are made from underside of chassis.

POINTER SETTING AND DIAL CORD STRINGING



With gang fully closed, set pointer in horizontal position.

5X1-493A