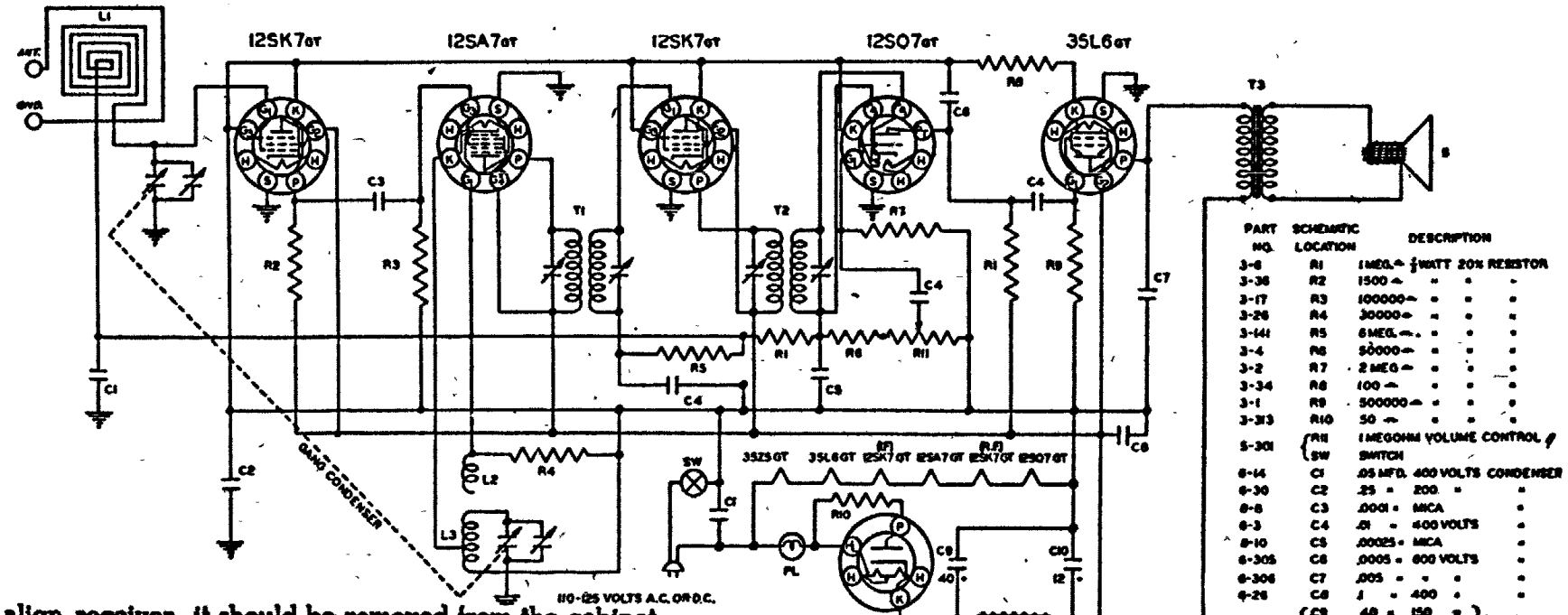
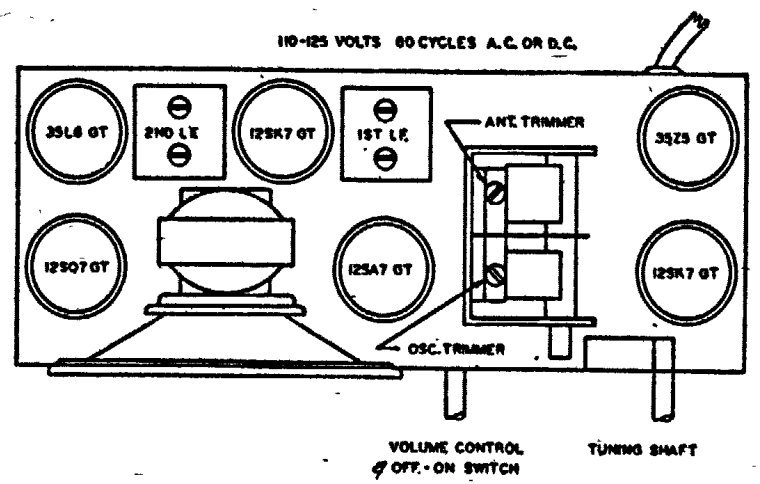


PART NO.	SCHEMATIC LOCATION	DESCRIPTION
3-6	R1	1 MEG. ½ WATT 20% RESISTOR
3-38	R2	1500 Ω " " "
3-17	R3	100000 Ω " " "
3-26	R4	30000 Ω " " "
3-141	R5	6 MEG. Ω " " "
3-4	R6	50000 Ω " " "
3-2	R7	2 MEG. Ω " " "
3-34	R8	100 Ω " " "
3-1	R9	500000 Ω " " "
3-313	R10	50 Ω " " "
5-301	R11	1 MEGOHM VOLUME CONTROL
	SW	SWITCH
8-14	C1	.05 MFD. 400 VOLTS CONDENSER
8-30	C2	.25 " 200 " "
8-8	C3	.0001 " MICA "
8-3	C4	.01 " 400 VOLTS "
8-10	C5	.00025 " MICA "
8-305	C6	.0005 " 600 VOLTS "
8-306	C7	.005 " " "
8-26	C8	.1 " 400 " "
7-301	C9	40 " 150 " } ELECTROLYTIC
	C10	12 " 150 "
15-302	L1	LOOP
15-309	L2	OSCILLATOR COIL
	L3	
16-302	T1	INPUT I.F. TRANSFORMER
16-303	T2	OUTPUT I.F. "
43-307	T3	OUTPUT " OH
	S	SPEAKER (ELECTRODYNAMIC)
41-300	PL	PILOT LIGHT #47
40-306	12SK7GT	R.F. AMPLIFIER
	12SA7GT	CONVERTER
	12SK7GT	I.F. AMPLIFIER
	12SQ7GT	DETECTOR - AUDIO
	35L6GT	AUDIO AMPLIFIER
	35Z5GT	RECTIFIER
60-301		GANG CONDENSER

TUBE AND TRIMMER LOCATION



SPIEGEL
MODEL T-630

To properly align receiver, it should be removed from the cabinet.

A signal generator is required, having the following frequencies: 456KC, 1400KC, 1720KC. An output meter of some kind is also necessary. (See figure No. 1 for trimmer locations).

All adjustments in aligning this receiver should be made with the volume control fully turned on, so as to prevent the A. V. C. from working and giving false readings. It is also advisable to keep the gang condenser turned all the way out to complete minimum capacity and keep the signal from the generator down as low as possible so as to prevent false peaks when aligning the I. F. transformers.

FIRST STEP: Connect the generator lead through a .1 condenser to the No. 8 pin at the 12SA7GT socket base (this is the control grid) and connect the generator ground lead to some point on the floating ground, above the .25 MFD floating ground condenser. Adjust the signal generator to 456KC and adjust the I. F. trimmer screws till a maximum reading is noted on the output meter which has been connected across the speaker leads. With the generator leads still connected to the 12SA7GT grid, adjust the generator frequency to 1720KC and adjust the oscillator trimmer till the signal is tuned in, with the gang condenser still at complete minimum.

SECOND STEP: Disconnect the generator leads from the receiver and connect both to a transmitting loop which may be made with two turns of wire about six inches in diameter and placed about one foot from the receiver loop. Adjust the generator frequency to 1400KC and turn the tuning condenser till this signal is tuned in. Adjust the antenna trimmer on the gang till a maximum reading is noted on the output meter.