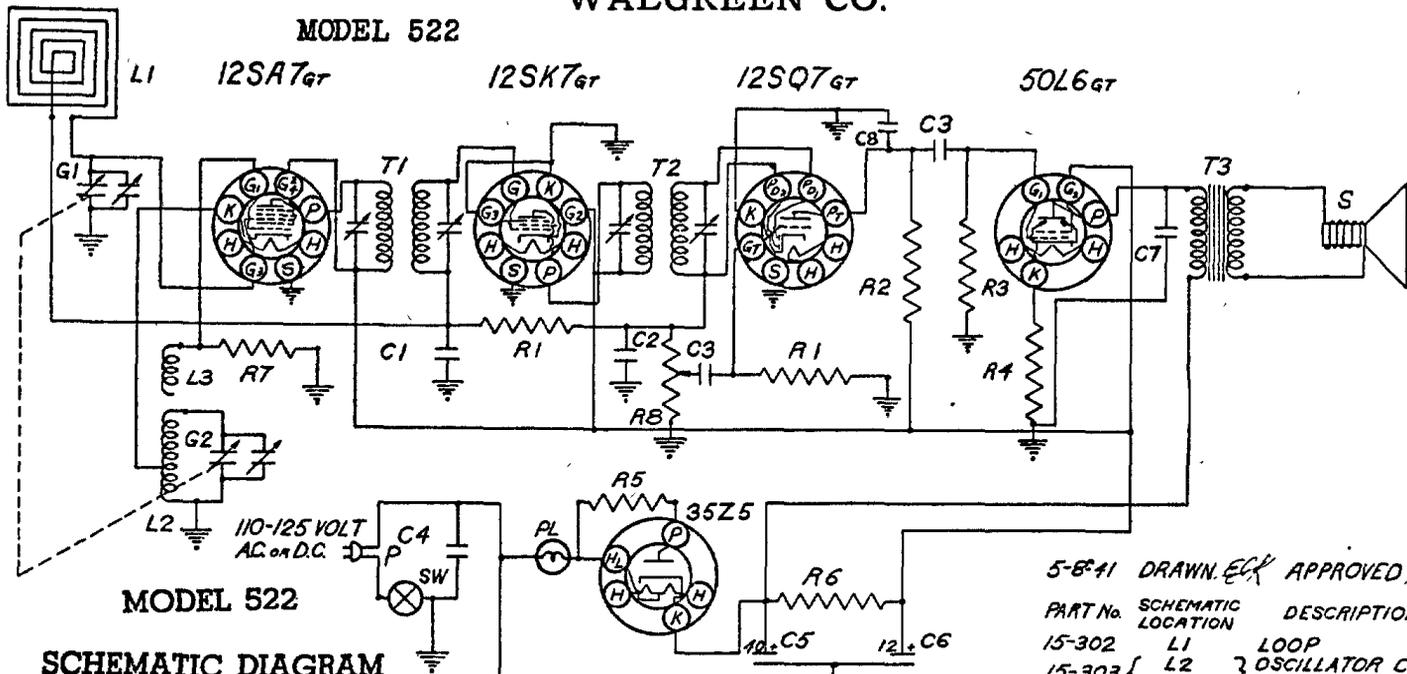


# WALGREEN CO.

MODEL 522



**SCHMATIC DIAGRAM**

## ALIGNMENT AND SERVICE DATA

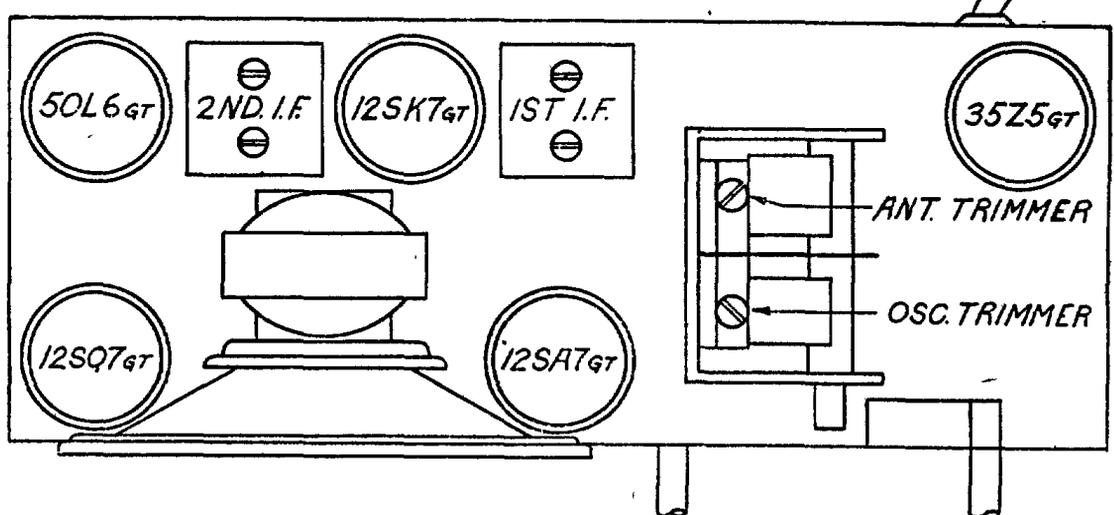
A signal generator is required having the following frequencies: 456KC, 1400KC, 1720KC.

**First Step:** Connect the generator lead through a .1 mfd. condenser to the terminal lug next to the Antenna trimmer on top of the tuning condenser. The ground lead from the generator may be connected to any convenient spot on the metal chassis. Adjust generator to 456KC and adjust IF trimmer screws until a maximum reading is noted on the output meter which has been connected across the speaker. The tuning condenser should be turned out to complete minimum capacity when aligning the IF. With generator lead still connected to antenna trimmer terminal, adjust generator frequency to 1720KC, and with tuning condenser still at minimum, adjust oscillator trimmer till the 1720KC signal is tuned in. Next, remove generator leads from set and connect both to a transmitting loop. This loop can be made with 2 turns of wire about 6 inches in diameter. Adjust generator frequency to 1400KC. Turn tuning condenser until the signal is tuned in and adjust antenna trimmer until a maximum reading is noted. No further adjustment should be necessary, unless the set has been damaged, as the coils and condenser in this receiver have been specially handled at the factory so as to insure proper alignment at the lower frequency end of the dial.

5-6-41 DRAWN. ECK APPROVED. [Signature]

PART No.	SCHEMATIC LOCATION	DESCRIPTION
15-302	L1	LOOP
15-303	L2	OSCILLATOR COIL
	L3	GRID COUPLING COIL
16-302	T1	INPUT I.F. TRANS.
16-303	T2	OUTPUT I.F. TRANS.
13-301	T3	OUTPUT SP. TRANS.
11-300	PL	PILOT LIGHT #47
13-301	S	P.M. SPEAKER
40-301	12SA7GT	OSCILLATOR MIXER
	12SK7GT	I.F. AMPLIFIER
	12SQ7GT	DETECTOR-AUDIO
	50L6GT	AUDIO AMPLIFIER
	35Z5GT	RECTIFIER
34-5	P	LINE CORD
5-301	SW	SWITCH ON VOL. CON.
3-2	R1	2 MEGOHM RESISTOR 1/2W 20%
3-6	R2	1 MEGOHM " " 1/2W 20%
3-1	R3	.5 MEGOHM " " " "
3-31	R4	200 OHMS " " " "
3-174	R5	50 OHMS " " " "
3-120	R6	8000 OHMS " " " "
3-26	R7	30000 OHMS " " " "
5-301	R8	1 MEQ VOL. CON. & SWITCH
10-301	G1	GANG CONDENSER
	G2	
6-12	C1	.05 MFD. 200V. COND.
6-8	C2	.0001 MFD. MICA "
6-3	C3	.01 MFD. 400V. "
6-14	C4	.05 MFD. 400V. "
7-301	C5	40 MFD. ELECTROLYTIC
	C6	.12 MFD. "
6-306	C7	.005 MFD. 600V. COND.
6-305	C8	.0005 MFD. 400V. "

110-125 VOLTS 60 CYCLES A.C. or D.C.



**TUBE AND TRIMMER LOCATION**

**VOLUME CONTROL TUNING SHAFT  
& OFF-ON SWITCH**