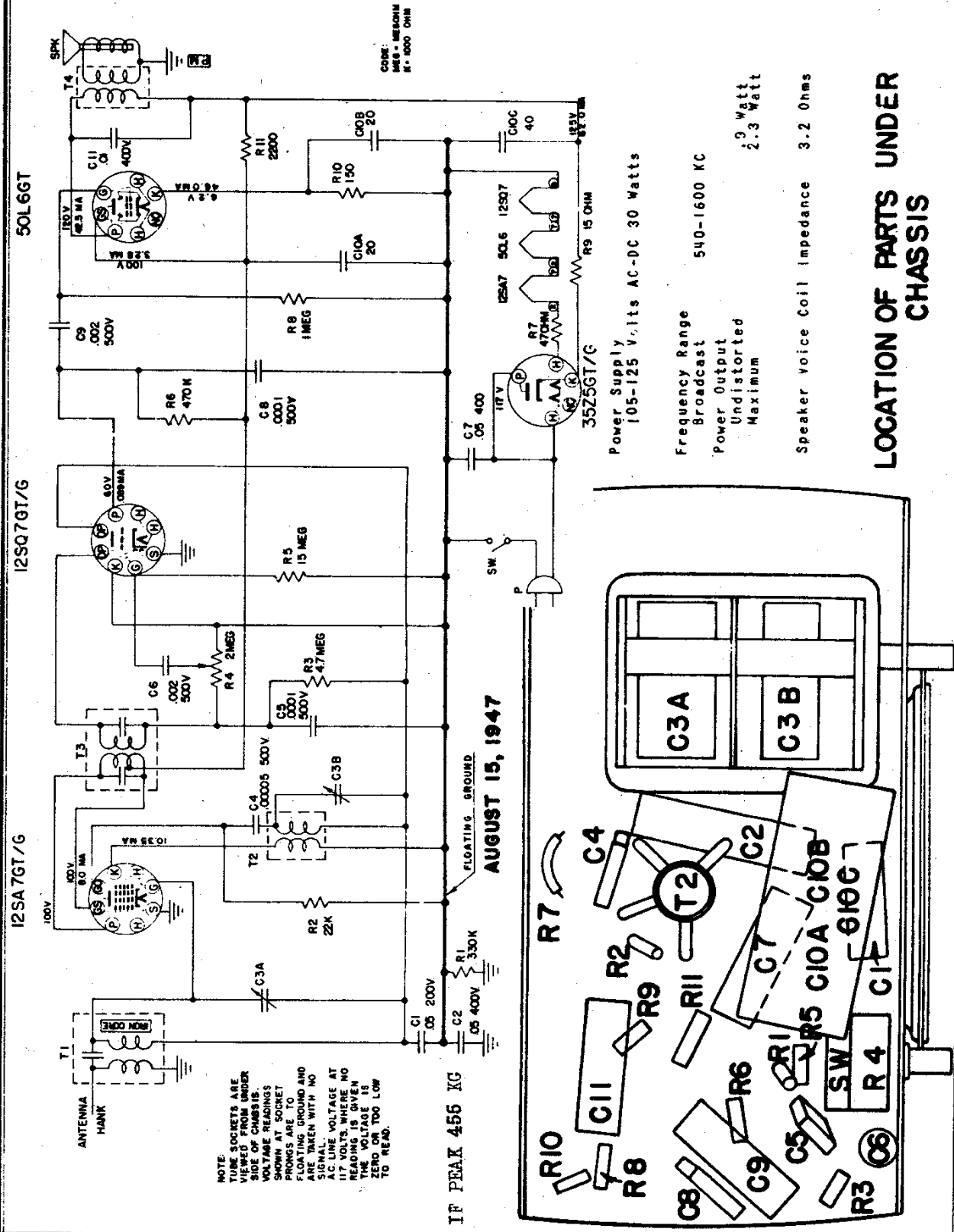


MODEL 8000
Chassis 132.838

SEARS, ROEBUCK AND CO.



NOTE: TUNE SOCKETS ARE SHOWN UNDER SIDE OF CHASSIS. VOLTAGE READINGS SHOWN AT SOCKET POINTS ARE TO FLOATING GROUND AND ARE TAKEN WITH NO SIGNAL. AC LINE VOLTAGE AT 117 VOLTS, WHERE NO 117 VOLTS SW. IS ZERO OR TOO LOW TO READ.

IF PEAK 455 KG

AUGUST 15, 1947

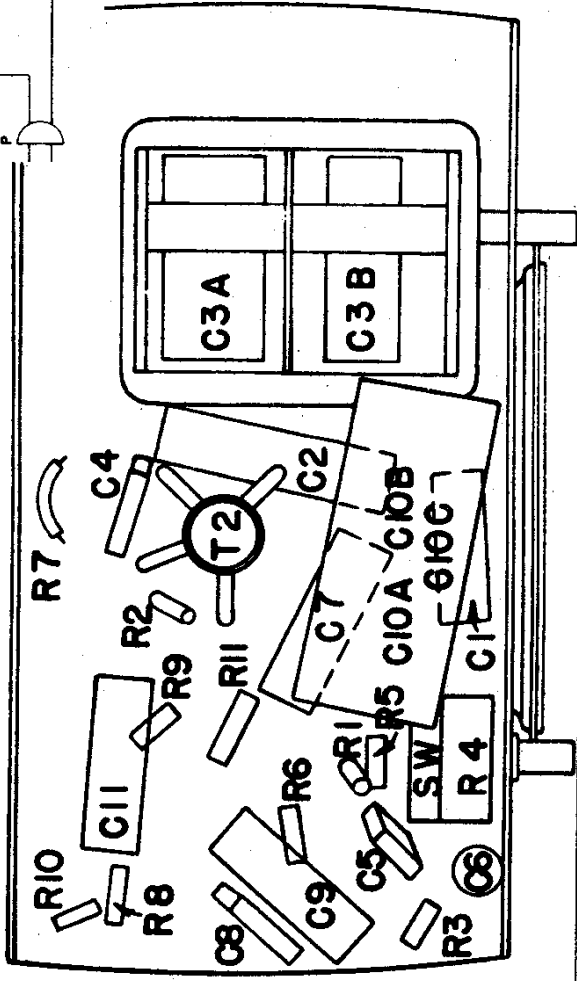
CODE: M68 - RESOHM R - 1000 OHM

Power Supply
105-125 Volts AC-DC 30 Watts

Frequency Range
Broadcast 510-1600 KC
Power Output
Undistorted Maximum 2.9 Watt
2.3 Watt

Speaker voice Coil impedance 3.2 Ohms

LOCATION OF PARTS UNDER CHASSIS



ALIGNMENT PROCEDURE

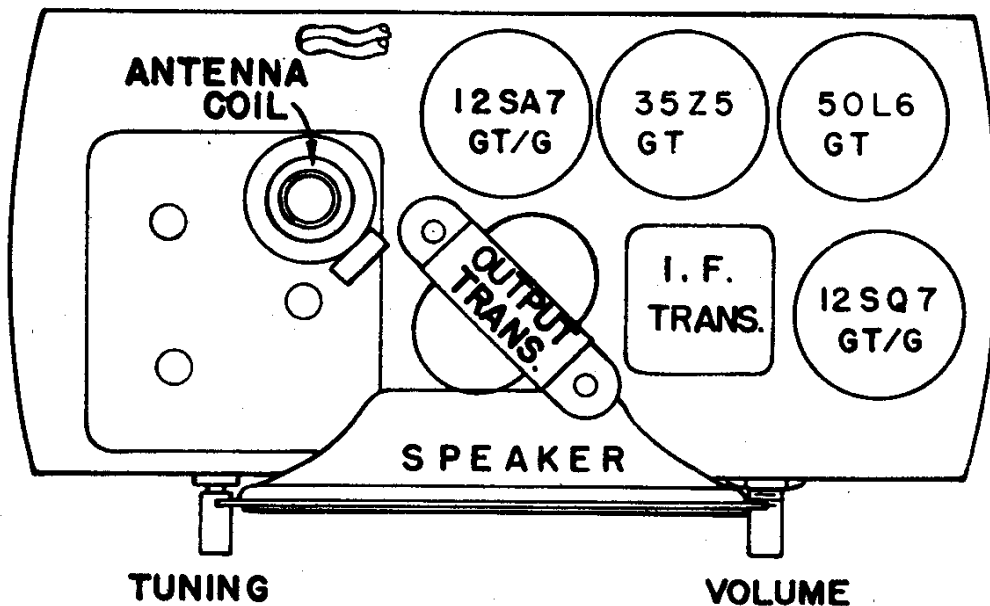
PRELIMINARY:

Output meter connection Across Speaker Voice Coil
 Output meter reading to indicate 200 MW (Standard Output)8 Volt
 Generator modulation 30% 400 Cycles
 Position of volume control Fully Clockwise
 Position of dial pointer with variable condenser fully closed Down

<u>POSITION OF VARIABLE</u>	<u>GENERATOR FREQUENCY</u>	<u>DUMMY ANTENNA</u>	<u>GENERATOR CONNECTION HIGH SIDE</u>	<u>GENERATOR CONNECTION GRD. LEAD</u>	<u>ADJUST TRIMMERS IN ORDER SHOWN</u>	<u>TRIMMER FUNCTION</u>
Open	455 KC	.05 Mfd.	Mixer Grid	Floating Gnd T3		IF
Open	1620 KC	50 Mmf.	*Ant. Lug	Float. Gnd. C3B		Oscillator
1400 KC	1400 KC	50 Mmf.	*Ant. Lug	Float. Gnd. C3A		Antenna
600 KC	600 KC	50 Mmf.	*Ant. Lug	Float. Gnd. **Check Point		Antenna

IMPORTANT ALIGNMENT NOTES

- * Antenna hank lug on antenna coil with hank removed.
 - ** Check sensitivity at 600 KC. If low, adjust antenna section plates of variable for maximum output at 600 KC.
- The alignment procedure should be repeated in the original order for greatest accuracy. Always keep the output from the signal generator at its lowest possible value to make the A. V. C. action of the receiver ineffective.



TUBE LAYOUT

SEARS, ROEBUCK AND CO. MODEL 7070 MODEL 8000

MODEL 7210 MODEL 8050

MODEL 7070			MODEL 7210		
SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION	SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
	R62212	Arm - Pickup (Less Crystal)		R49547	Motor - Phono - 60 Cycle (Less Turntable)
	R52936	Cartridge - Crystal - Antatic L70		R49749	Idler Wheel
	R61642	Button - Phono - Radio Switch		R49548	Turntable - 8"
	R61639	Cabinet - Radio - Molded		R61645	Plate - Chassis Bottom
Ce, C10, C11, C17		Capacitor - .05 Mfd. 200 V.	R8	R61694	Plate - Chassis Hold Down
C15		Capacitor - .05 Mfd. 600 V.	R1		Resistor - 100 Ohm - 1/3 Watt
C7		Capacitor - .01 Mfd. 400 V.	R7		Resistor - 22,000 Ohm - 1/3 Watt
C13		Capacitor - .02 Mfd. 200 V.	R4, R10		Resistor - 220,000 Ohm - 1/3 Watt
CE		Capacitor - .002 Mfd. 600 V.	R3		Resistor - 470,000 Ohm - 1/3 Watt
C1, C3, C5	R61682	Capacitor - Variable Assembly	R2, R9		Resistor - 1 Megohm - 1/3 Watt
C9, C12, C14	R61683	Capacitor - Elect. 20 Mfd. 150 V., 40 Mfd. 150 V., 20 Mfd. 25 V.	R6		Resistor - 2.2 Megohm - 1/3 Watt
C16	R62282	Capacitor - Trimmer - Single	R11		Resistor - 4.7 Megohm - 1/3 Watt
L1	R61647	Clip - Spring - Speaker Retaining	R12	R40232	Resistor - 1200 Ohm - 1 Watt
R5	R61697	Coil - Oscillator		R57193	Shield - Tube
	R61684	Control - On-Off & Volume		R62230	Shield - I.F. Transformer
	R63143	Cord - Line		R57049	Socket - Tube - 8 Prong Lock-In
	R62228	Cover - Bottom			WHEN ORDERING SPEAKER PARTS ALWAYS GIVE THE PART NUMBER ON THE SPEAKER
	R61690	Knob - On-Off & Volume		R61693	Speaker - 4" P.M.
	R61691	Knob - Station Selector		R61687	Switch - Phono - Radio - S.P.D.T.
	R64178	Leaflet - Instruction	T1	R61688	Transformer - I.F. #1
	R61415	Loop - Antenna	T2	R61689	Transformer - I.F. #2
			T3	R61699	Transformer - Output

MODEL 8000

SCHEMATIC LOCATION	PART NO.	DESCRIPTION	SCHEMATIC LOCATION	PART NO.	DESCRIPTION
R1		Resistor, 320,000 Ohms, 1/4 Watt	C11		Condenser, .01 Mfd., 500 V
R2		Resistor, 82,000 Ohms, 1/4 Watt	T1	R21420	Coil, Antenna
R3		Resistor, 8.7 Megohms, 1/4 Watt	T2	R21328	Coil, Oscillator
R4	R21385	Control - Vol and switch, 2 Mag.	T3	R21329	Transformer, I. F.
R5		Resistor, 15 Megohms, 1/4 Watt	Spk	R21470	Speaker, 4" P.M. with Output Transformer
R6		Resistor, 470,000 Ohms, 1/4 Watt		R21334	Speaker, 4" P.M.
R7	R18177	Resistor, 47 Ohms, 1 Watt		R21333	Transformer, Output
R8		Resistor, 1 Megohm, 1/4 Watt		R20138	Line Cord with Plug
R9		Resistor, 15 Ohms, 1/4 Watt		R18128	Cabinet, Ivory
R10		Resistor, 150 Ohms, 1/4 Watt		R21175	Grille, Metal Cabinet Front
R11		Resistor, 2200 Ohms, 1 Watt		R21304	Sticker, Dial Scale
C1		Condenser, .05 Mfd., 200 V		R21314	Felt Seat
C2, C7		Condenser, .05 Mfd., 400 V		R21101	Knob, Tuning, Ivory
C3A, C3B	R21336	Condenser, Variable, 2 Gang		R21176	Painter, Dial
C4		Condenser, .00005 Mfd., 500 V, Mica		R21177	Knob, Volume, Ivory
C5, C8		Condenser, .0001 Mfd., 500 V., Mica		R18136	Wire, Antenna Hook
C6, C9		Condenser, .002 Mfd., 500 V			
C10A, C10B, & C10C	R21456	Condenser, Electrolytic, 40-20 Mfd., 150 volt, 20 Mfd., 25 volt			

MODEL 8050

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION	SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
		Lamp - Mazda Type #47		R62328	Background - Dial
	R54677	Leaflet - Instruction		R57037	Board - Antenna
	R61662	Pointer - Dial		R60425	Bracket - Variable Capacitor Mtg. - (Rear)
R3		Resistor - 100 Ohm - 1/3 Watt		R13961	Button - Snap
R12		Resistor - 150 Ohm - 1/3 Watt	C16		Capacitor - .1 Mfd. 400 Volt
R1, R2		Resistor - 22,000 Ohm - 1/3 Watt	C8		Capacitor - .01 Mfd. 400 Volt
R10, R11		Resistor - 470,000 Ohm - 1/3 Watt	C2		Capacitor - .02 Mfd. 400 Volt
R4, R9		Resistor - 2.2 Megohm - 1/3 Watt	C4, C5, C10, C11, C18, C23		Capacitor - .05 Mfd. 600 Volt
R8		Resistor - 4.7 Megohm - 1/3 Watt	C1		Capacitor - .001 Mfd. 600 Volt
R13		Resistor - 1200 Ohm - 1 Watt	C14, C17		Capacitor - .005 Mfd. 600 Volt
R14	R40232	Resistor - Glasohm - 25 Ohm - 1 Watt	C9		Capacitor - 50 Mmfd. - Mica
	R62638	Shaft - Tuning Assembly	C15		Capacitor - 100 Mmfd. - Mica
	R57049	Socket - Tube - 8 Prong Lock-In	C19, C20, C22	R60418	Capacitor - Electrolytic - 40 Mfd. 150 Volt, 20 Mfd. 25 Volt, 40 Mfd. 150 Volt
	R62328	Socket - Pilot Lamp	C2, C6	R61100	Capacitor - Variable - 2 Gang
		WHEN ORDERING SPEAKER PARTS ALWAYS GIVE THE PART NUMBER ON THE SPEAKER	L1	R61107	Coil - Oscillator
	R62544	Speaker - 4" x 6" P. M.		R60839	Connector - Loop Terminal
	R62669	Cone & Voice Coil	R7	R61683	Control - On-Off & Volume
T3	R62470	Output Transformer		R18706	Cord - Line
	R43458	Spring - Dial Drive		R41472	Cord - Dial Drive
T1	R62513	Transformer - I. F. #1		R62327	Dial - Station
T2	R61142	Transformer - I. F. #2		R61712	Knob - Tuning
	R60450	Wafer - Electrolytic Capacitor Mounting		R62713	Knob - On-Off & Volume

MODEL 7210

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION	SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
C3		Capacitor - .05 Mfd. 200 Volt	R5		Resistor - 180,000 Ohm - 1/3 Watt
C6, C12, C16		Capacitor - .01 Mfd. 400 Volt	R7		Resistor - 220,000 Ohm - 1/3 Watt
C9, C18		Capacitor - Mica - 50 Mmfd.	R1, R12		Resistor - 1 Megohm - 1/3 Watt
C1		Capacitor - Mica - 150 Mmfd.	R13		Resistor - 2.2 Megohm - 1/3 Watt
C19		Capacitor - Mica - 250 Mmfd.	R3		Resistor - 3.3 Megohm - 1/3 Watt
C10, C15		Capacitor - .001 Mfd. 600 Volt	R11		Resistor - 6.8 Megohm - 1/3 Watt
C17		Capacitor - .008 Mfd. 400 Volt	R9		Resistor - 15 Megohm - 1/3 Watt
C2		Capacitor - Silver Mica - 250 Mmfd. 500 Volt			WHEN ORDERING SPEAKER PARTS ALWAYS GIVE THE PART NUMBER ON THE SPEAKER
C20	R67054	Capacitor - Dry Electrolytic - 10 Mfd. 150 Volt		R61642	Speaker - 4" x 6" P.M.
C4, C8	R67096	Capacitor - Trimmer - 2 Gang		R62256	Cone and Voice Coil
L1	R45266	Coil - Choke - Antenna		R57076	Transformer - Output
R10	R67072	Control - On-Off and Volume		R67094	Transformer - I. F. 1
R14		Resistor - 1200 Ohm - 1/3 Watt	T3	R67603	Transformer - I. F. 2
R15		Resistor - 4700 Ohm - 1/3 Watt	T1	R57087	Tuner - Perm. Unit
R4		Resistor - 22,000 Ohm - 1/3 Watt	T2	R61675	Coil - Antenna
R2		Resistor - 47,000 Ohm - 1/3 Watt	L3	R61676	Coil - Oscillator