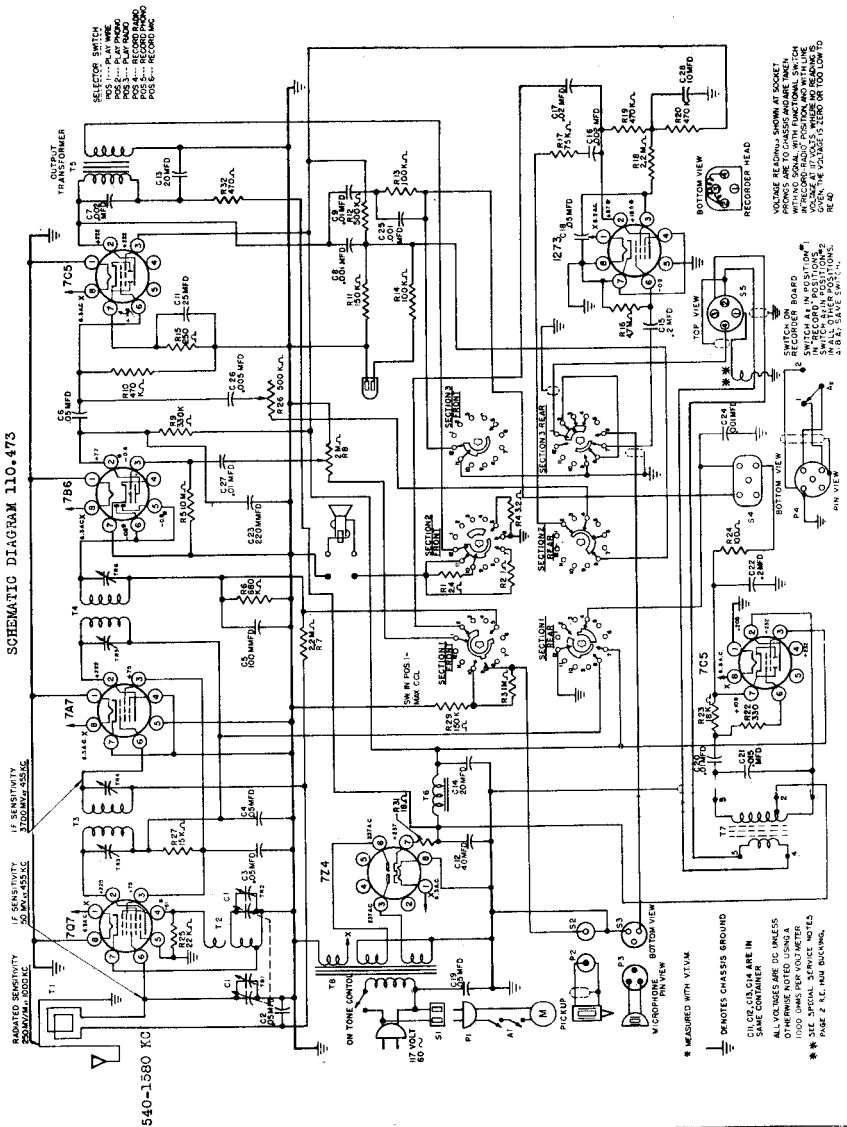


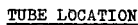
Sears Roebuck & Co.

Sears Roebuck & Co.			
	Model: 8103	Chassis:	Year: Pre 1950
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Riders 19 (XIX) SEARS 19-35			
Riders 19 (XIX) SEARS 19-36			
Riders 19 (XIX) SEARS 19-37			

SCHEMATIC DIAGRAM 110.473



MODEL 8103,
CHASSIS 110.473



SEARS, ROEBUCK & CO.

MODEL 8103,
CHASSIS 110.473ALIGNMENT PROCEDURE

Output Meter Connection.....Across Loud Speaker Voice Coil
 Output Meter Reading to Indicate 500 Milliwatts.....1.25 Volts
 Dummy Antenna Value to be in Series with Generator Output.....See Chart Below
 Connection of Generator Output Lead.....See Chart Below
 Connection of Generator Ground Lead.....I. F. Alignment B - Bus
 Generator Modulation.....30% at 400 cycles
 Position of Volume Control.....Fully Clockwise
 Position of Tone Control.....Counter Clockwise (HI)
 Position of Dial Pointer with Variable Fully Closed.On Mark Below 540 KC Calibration
 Position of Master Control Switch....."Play Radio"

POSITION OF VARIABLE	GENERATOR FREQUENCY	DUMMY ANTENNA	GENERATOR CONNECTION	ADJUSTMENTS (IN ORDER SHOWN)	FUNCTION
Closed	455	0.1 Mfd.	Grid 7Q7	TR3 TR4 TR5 TR6	I.F.
1500 KC	1500 KC	***	***See Below	TR2	Osc.
1500 KC	1500 KC	***	***See Below	TR1	Trans.
600 KC	600 KC	***	***See Below	(Check-Point)	Check Point

*** Run a wire from the output terminal of generator near the receiver. No connection is made between the signal generator and the receiver.

IMPORTANT ALIGNMENT NOTES

The alignment procedure should be repeated stage by stage, in the original order for greatest accuracy. Always keep the output from the test oscillator at its lowest possible value to make the AVC action of the Receiver ineffective.

Power Output Undistorted....2.25 Watts Maximum....6 Watts

SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION	SCHEMATIC LOCATION	PART NUMBER	DESCRIPTION
R3		Resistor - 1 meg ohm 1/4 Watt	R29		Resistor - 15,000 ohms 2 Watt
R4		Resistor - 3.2 ohm 1 Watt Wirewound	R30		Resistor - 150,000 ohms 1/4 Watt
R5		Resistor - 10 meg ohms 1/4 Watt	R31		Resistor - 18 ohms 2 Watt
R6		Resistor - 680,000 ohms 1/4 Watt	R32		Resistor - 150,000 ohms 1/4 Watt
R7		Resistor - 2.2 meg ohms 1/4 Watt	A10140		Socket, AC
R8		Resistor - 330,000 ohms 1/4 Watt	A10144		Socket, Dial Light
R9		Resistor - 470,000 ohms 1/4 Watt	A10374		Socket, for cable from recorder (wired)
R10		Resistor - 150,000 ohms 1/4 Watt	A10101		Socket, Microphone
R11		Resistor - 300,000 ohms 1/4 Watt	A10104		Socket, Phone
R12		Resistor - 100,000 ohms 1/2 Watt	A50103		Speaker - 10" (P.H.)
R13		Resistor - 100,000 ohms 1/2 Watt	A54533		Spring - Dial Lock
R14		Resistor - 4.7 meg ohms 1/4 Watt	A3791		Switch - Push - 6 position
R15		Resistor - 75,000 ohms 1/4 Watt	A3271		Transformer - 1st I.P.
R16		Resistor - 2.2 meg ohms 1/4 Watt	A2535		Transformer - 2nd I.P.
R17		Resistor - 470,000 ohms 1/4 Watt	A1339		Transformer - Output
R18		Resistor - 470,000 ohms 1/4 Watt	A1716		Transformer - Bias Oscillator
R19		Resistor - 330,000 ohms 1/4 Watt	A1791		Transformer - Power
R20		Resistor - 18,000 ohms 1/4 Watt			
R21		Resistor - 108 ohms 1/4 Watt			
R22		Resistor - 22,000 ohms 1/4 Watt			
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