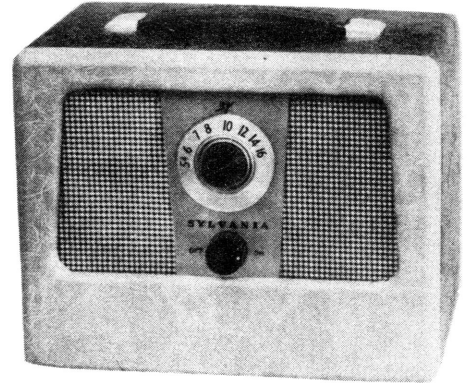




REPAIR PARTS and SERVICE INSTRUCTIONS

GENERAL DESCRIPTION

Model 430-L is a compact 4 tube AC-DC-Battery 3 way portable type broadcast receiver. The receiver has a built-in loop antenna and once the station is tuned in, the receiver should be rotated and left in the position where the signal is received with maximum volume. There is no provision for an external antenna. Battery operation is obtained by inserting the line cord plug in the socket at the rear of the chassis. Controls are provided for tuning and on-off and volume.



SPECIFICATIONS

POWER SUPPLY

AC-DC Operation, 117 Volts DC, 60 cycle AC
 Battery Operation

"A" Battery, 7 1/2 Volt Eveready 717

"B" Battery, 90 Volt Eveready 490

FREQUENCY RANGE 540 - 1650 KC.

INTERMEDIATE FREQUENCY 455 KC.

SPEAKER 4" P. M., 0.68 oz. magnet

SYLVANIA TUBE COMPLEMENT

<u>Function</u>	<u>Type</u>
Converter	1R5
I. F. Amplifier	1U4
2nd Det. -AVC-1st A. F.	1U5
Audio Output	3V4

ALIGNMENT PROCEDURE

PRELIMINARY ADJUSTMENTS

Set volume control to maximum position.

Allow chassis and signal generator to warm up for several minutes.

No output meter need be used.

I. F. ALIGNMENT

1. Tune receiver to 540 Kc. (variable capacitor fully closed).
2. Tune signal generator to 455 Kc. with 400 cycle modulation and connect output between receiver ground and control grid of 1R5 converter tube (pin 6 or antenna trimmer) through a 0.25 capacitor.
3. Align I. F. transformers T1 & T2 by adjusting the top and bottom slugs to give maximum readings.

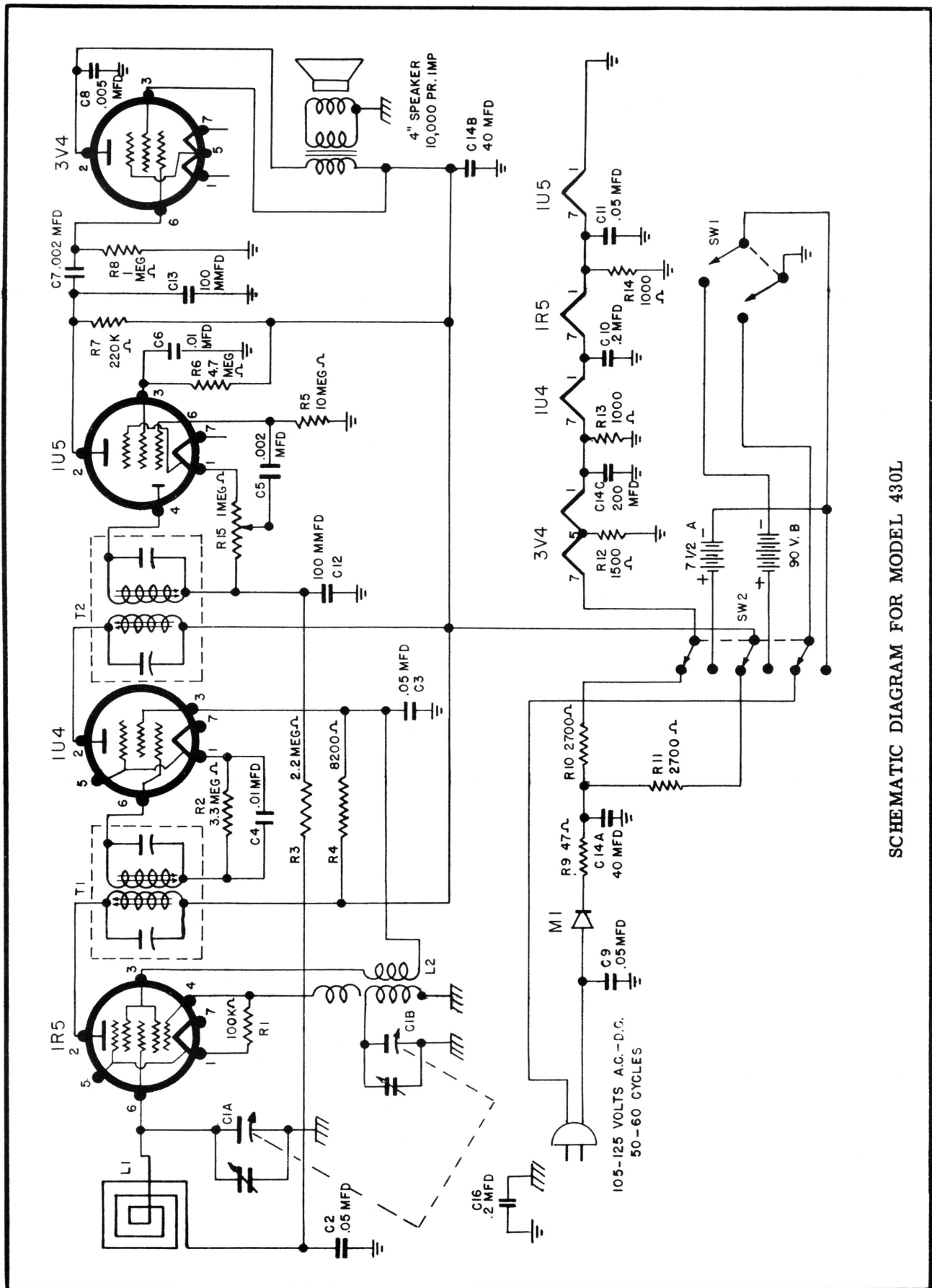
4. Keep the output from the generator at its lowest possible value to prevent the AVC from interfering with accurate alignment.

R. F. ALIGNMENT

1. Connect a Hazeltine Loop to the output of the signal generator to radiate the signal into the receiver.
2. Set receiver variable capacitor to minimum capacity.
3. Tune the signal generator to 1650 Kc. with 400 cycle modulation and adjust the oscillator trimmer for maximum output.
4. Close the variable capacitor and check for 540 Kc.
5. Set signal generator to 1500 Kc. Rotate variable capacitor until signal is brought in and peak antenna trimmer to give maximum reading.

REPAIR PARTS LIST

<u>SCHEMATIC LOCATION</u>	<u>SERVICE PART NUMBER</u>	<u>DESCRIPTION</u>
	814-0001	Cabinet - Wood
C5, C7	162-0622	Capacitor - Paper - .002 Mfd. - 600 V.
C8	162-0425	Capacitor - Paper - .005 Mfd. - 400 V.
C4, C6	162-0411	Capacitor - Paper - .01 Mfd. - 400 V.
C2	162-0215	Capacitor - Paper - .05 Mfd. - 200 V.
C3, C9, C11	162-0415	Capacitor - Paper - .05 Mfd. - 400 V.
C10, C16	162-0402	Capacitor - Paper - .2 Mfd. - 400 V.
C12, C13	163-0100	Capacitor - Mica - .0001 Mfd. - 500 V.
	170-0003	Capacitor - 2 Gang - Variable
C14	161-3009	Capacitor - Electrolytic - 40 Mfd. - 150 V. 40 Mfd. - 150 V. 200 Mfd. - 15 V.
L2	113-0017	Coil - Oscillator
R15	152-0009	Control - On-Off & Volume
	195-0002	Cord - Line
	722-0016	Dial
	776-0001	Front Plate & Baffle Board Assy. (with Metal Trim Plate)
	740-0009	Knob - Dial
	740-0010	Knob - On-Off & Volume
L1	581-0001	Loop - Antenna (without back cover)
	196-0008	Plug - Lead Assy. - "A" Battery
	196-0009	Plug - Lead Assy. - "B" Battery
M1	517-0002	Rectifier - Selenium
R9	182-0470	Resistor - 47 Ohm - 1 W.
R13, R14	181-0102	Resistor - 1,000 Ohm - 1/2 W.
R12	181-0152	Resistor - 1,500 Ohm - 1/2 W.
R10	189-0022	Resistor - 2,700 Ohm - W. W.
R11	182-0272	Resistor - 2,700 Ohm - 1 W.
R4	181-0822	Resistor - 8,200 Ohm - 1/2 W.
R1	182-0104	Resistor - 100,000 Ohm - 1 W.
R7	181-0224	Resistor - 220,000 Ohm - 1/2 W.
R8	181-0105	Resistor - 1 Megohm - 1/2 W.
R3	181-0225	Resistor - 2.2 Megohm - 1/2 W.
R2	181-0335	Resistor - 3.3 Megohm - 1/2 W.
R6	181-0475	Resistor - 4.7 Megohm - 1/2 W.
R5	181-0106	Resistor - 10 Megohm - 1/2 W.
	412-0013	Socket - Tube
	539-0400	Speaker
SW2	573-0002	Switch - 3 P. D. T. (AC -DC-Bat.)
	143-0015	Transformer - Output
	623-0018G	Tube - 1R5
	623-0019G	Tube - 1U4
	623-0020G	Tube - 1U5
	623-0021G	Tube - 3V4



SCHEMATIC DIAGRAM FOR MODEL 430L