

OSC. COIL  
 L2-L3  
**PHILIPS 920**

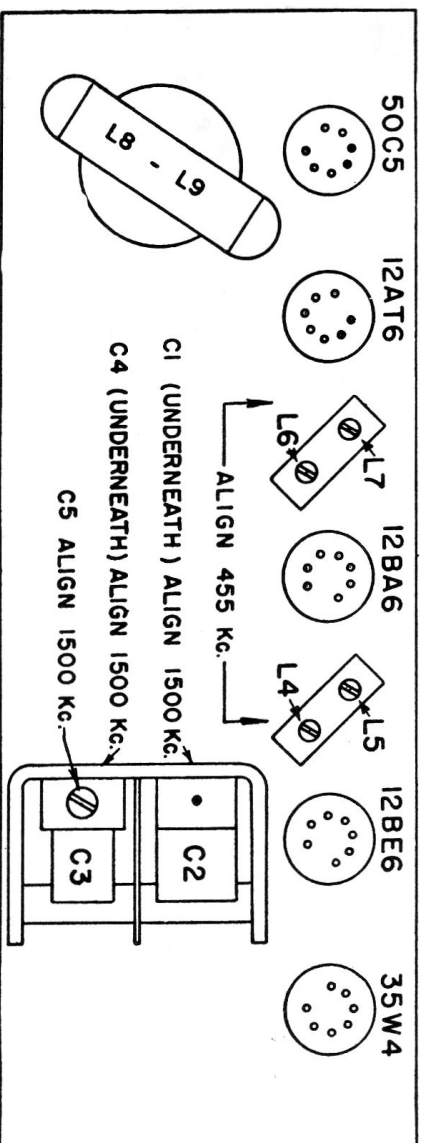
L1  
 LOOP ANTENNA COIL  
 GREEN  
 BLK

115 V  
 INPUT  
 SI

12AT6 12BA6 12BE6 50C5  
 35W4 5 1 WATT  
 33 OHM  
 128 V.  
 40 MFD 80 MFD 150V  
 C24 C25  
 .027 MFD  
 P1

ALL DC VOLTAGES MEASURED TO B MINUS WITH A 20,000 OHMS PER VOLT METER, WITH NO SIGNAL APPLIED.  
 ARROW → INDICATES CLOCKWISE ROTATION OF SHAFT OF THE VOLUME CONTROL.

## ALIGNMENT PROCEDURE



Operation Steps	SIGNAL GENERATOR		RECEIVER		
	Connections to Receiver	Frequency	Tuning Capacitor	See Note	Adjust in Stated Order for Maximum Output
1	To pin 1 of 12BA6 through .05 mf. capacitor	455 kc.	Minimum		2nd I.F. Transformer L7-L6
2	To pin 7 of 12BE6 through .05 mf. capacitor	455 kc.	"	A	1st I.F. Transformer L5-L4
3	To antenna connection through 100 mmf. capacitor *	1500 kc.	1500 kc.	B	Oscillator Trimmer C4-C5
4	To antenna connection through 100 mmf. capacitor *	1500 kc.	1500 kc.		Antenna Trimmer C1

\*—Or a standard dummy antenna with a 200 mmf. capacitor in series.

NOTE A—After completing operation No. 2, do not readjust L7-L6.

NOTE B—Replace back cover before aligning R.F. trimmers, C4 and C5 are in parallel, adjusting C4 should be sufficient.

## TO REMOVE CHASSIS \*

1. Disconnect line cord plug from socket.
2. Remove external antenna connection if used.
3. Remove control knobs.
4. Remove 2 screws at lower edge of back cover and the two screws near center of back cover and move the back cover aside.
5. Loosen clamp securing the dial cord to the dial pointer until the dial cord is free.
6. Remove the two screws securing the dial cord supports to the front of the cabinet.
7. Remove the three screws securing the bottom plate.
8. Remove the two screws securing the chassis to the cabinet.
9. Unsolder speaker connections.

\* Removal of chassis not necessary for alignment.

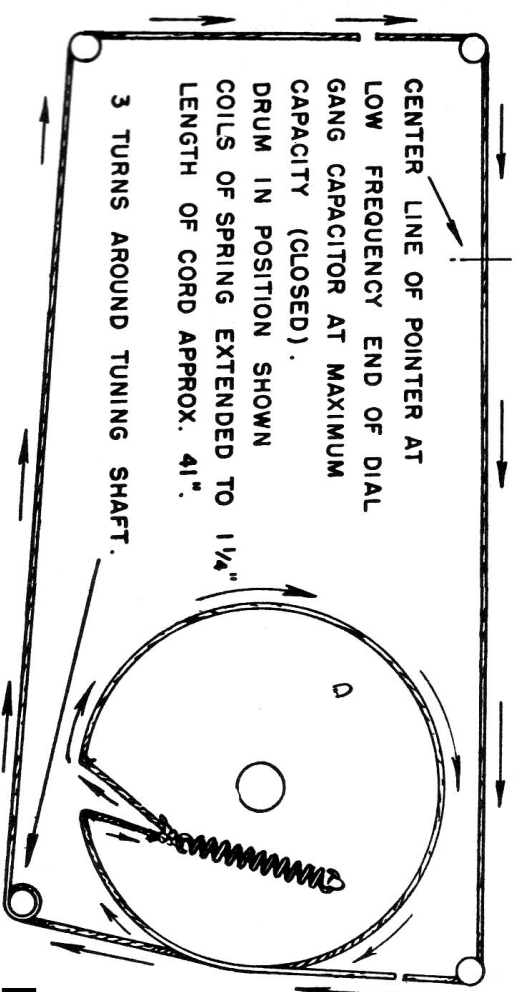
All adjustments may be made with the receiver in cabinet. Remove the back cover and bottom plate when aligning the I.F. transformers. Replace the back cover before aligning the R.F. trimmers. Turn the volume control to the full clockwise position for maximum output. With the variable capacitor fully closed, adjust the dial pointer to the extreme left hand end of the dial scale calibration line.

## EQUIPMENT CONNECTIONS

**LINE ISOLATING TRANSFORMER:** Do not connect a grounding lead to B— unless a line isolating transformer is used.

**OUTPUT INDICATOR:** If a power output meter is used adjust it for 4 ohms and connect it in place of the speaker voice coil. Keep output indication below 500 milliwatts. If an A.C. voltmeter is used, connect it across the voice coil of the speaker. Never permit the output indication to exceed 1.3 A.C. volts. When output indication increases, regulate the signal generator attenuator to keep the output below the above limits.

**SIGNAL GENERATOR:** Connect the ground lead of the signal generator to B— (negative end of filter condenser (C24-C25) and the output lead to the points indicated in the chart below. Always use the specified condenser in series with the output lead.



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