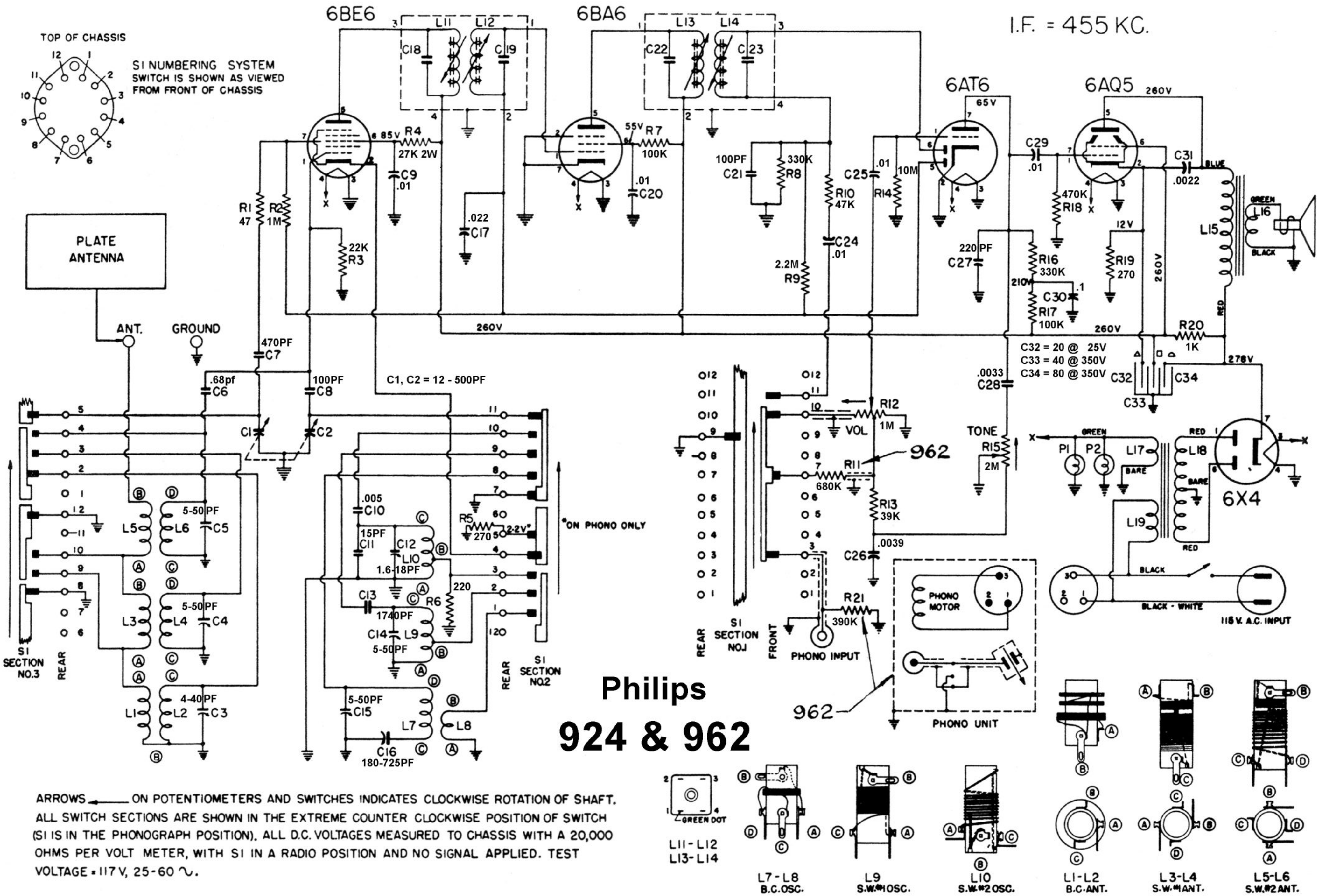
Philips 924 & 962

L	1,2,3,4,5,6 — 7,8,9,10,11,12, — 13, 14 — 15,16,17,18,19,
C	1,2,3,4,5,6,7,8 — 9,10,11,12,13,14,15,16,17,18,19 — 20,21,22,23 — 24,25,26 — 27, 28,29, 30, 31, 32, 33, 34
R	1, 2, 3, 4, 5, 6 — 7 — 8, 9, 10, 11, 12, 13, 14,21 — 15, 16, 17, 18, 19 — 20



ARROWS ← ON POTENTIOMETERS AND SWITCHES INDICATES CLOCKWISE ROTATION OF SHAFT. ALL SWITCH SECTIONS ARE SHOWN IN THE EXTREME COUNTER CLOCKWISE POSITION OF SWITCH (S1 IS IN THE PHONOGRAPH POSITION). ALL D.C. VOLTAGES MEASURED TO CHASSIS WITH A 20,000 OHMS PER VOLT METER, WITH S1 IN A RADIO POSITION AND NO SIGNAL APPLIED. TEST VOLTAGE = 117 V, 25-60 ∿.

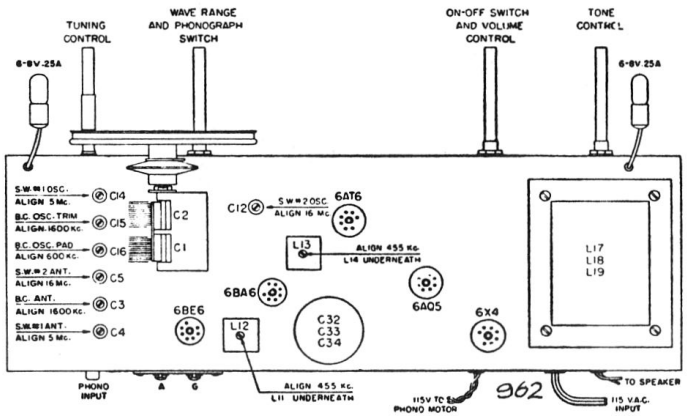
ALIGNMENT OF RECEIVER

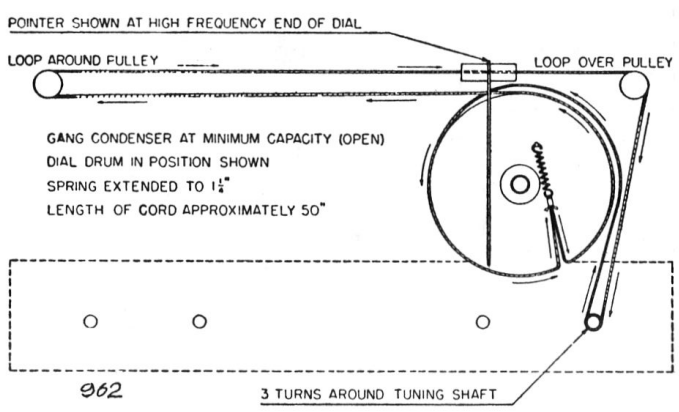
EQUIPMENT REQUIRED

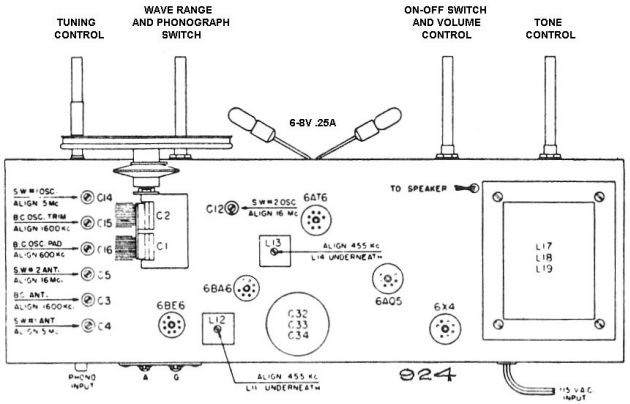
SIGNAL GENERATOR: Capable of supplying modulated frequencies from 455 kc. to 18.5 Mc.
OUTPUT INDICATOR: A power output meter or a high resistance A.C. Voltmeter.

ALIGNMENT PROCEDURE AND EQUIPMENT CONNECTIONS

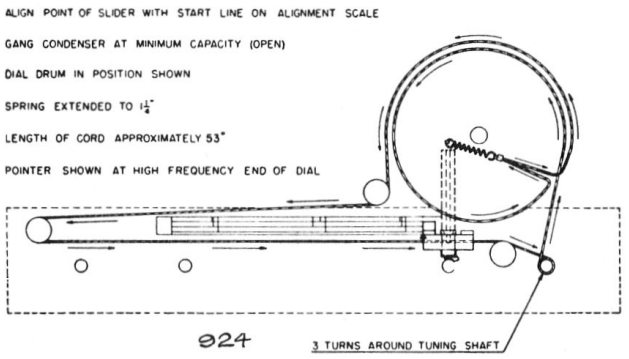
SIGNAL GENERATOR: Allow a sufficient length of time after the generator has been turned on for it to become thermally stable before making any tests. Always be sure to use the specified capacitor in series with the signal generator output lead connections, as listed on the alignment procedure chart. Connect the return lead of the signal generator to the ground terminal of the receiver.
OUTPUT INDICATOR: If a power output meter is used adjust it for 4 ohms impedance and connect it across the secondary of the output transformer in place of the speaker voice coil. Do not exceed 500 milliwatts output during alignment. If an A.C. voltmeter is used connect it across the voice coil with the speaker connected and do not exceed 1.4 volts during alignment. As the reading of the test meter increases with alignment, regulate the signal generator attenuator to keep the output below the above limits.
RECEIVER: Turn the volume control to the full on (clockwise) position and the tone control to the treble (full counterclockwise) position. With the gang tuning condenser fully **open** adjust the dial pointer to the alignment mark on high frequency end of the alignment scale on the dial background.







ARRANGEMENT OF DIAL CORD



ALIGNMENT PROCEDURE

OPERATION STEPS	SIGNAL GENERATOR		RECEIVER			
	Output Connections to Receiver	Frequency	Range Switch	Tuning Capacitor	See Notes	Adjust in Stated Order for Maximum Output
1	To 6BA6 Control Grid (1) through .05 mf capacitor	455 kc.	Pos. 2	Min.		2nd I.F. Transformer L14 Bottom, L13 Top
2	To lug 5 of SW1, Section 3 through .05 mf capacitor	455 kc.	Pos. 2	Min.	A	1st I.F. Transformer L12 Top, L11 Bottom
3	To Antenna Contact through 100 mmf capacitor*	1600 kc.	Pos. 2	1600 kc.	B	B.C. Osc. Trimmer C15 B.C. Ant. Trimmer C3
4	To Antenna Contact through 100 mmf capacitor*	600 kc.	Pos. 2	600 kc.	C	B.C. Osc. Padder C16
5	To Antenna Contact through 400 ohms resistor*	5 Mc.	Pos. 3	5 Mc.	D	S.W. Osc. Trimmer C14 S.W. Ant. Trimmer C4
6	To Antenna Contact through 400 ohms resistor*	16 Mc.	Pos. 4	16 Mc.	D	S.W. Osc. Trimmer C12 S.W. Ant. Trimmer C5

* or a standard dummy antenna with a 200 mmf condenser in series.

NOTE A — After operation 2 has been completed, do not make any further adjustments to L14 and L13.
NOTE B — The metal base plate of the chassis must be in position for operations 3, 4, 5 and 6.
NOTE C — After optration 4 has been completed, return to 1600 kc. and repeat operation 3, then repeat operation 4.
NOTE D — Unscrew oscillator trimmers approximately 3 turns from tight. Then turn adjustment clockwise until first output peak is obtained. Make adjustments using this peak. Rock the tuning capacitor slowly back and forth while adjusting antenna trimmer.