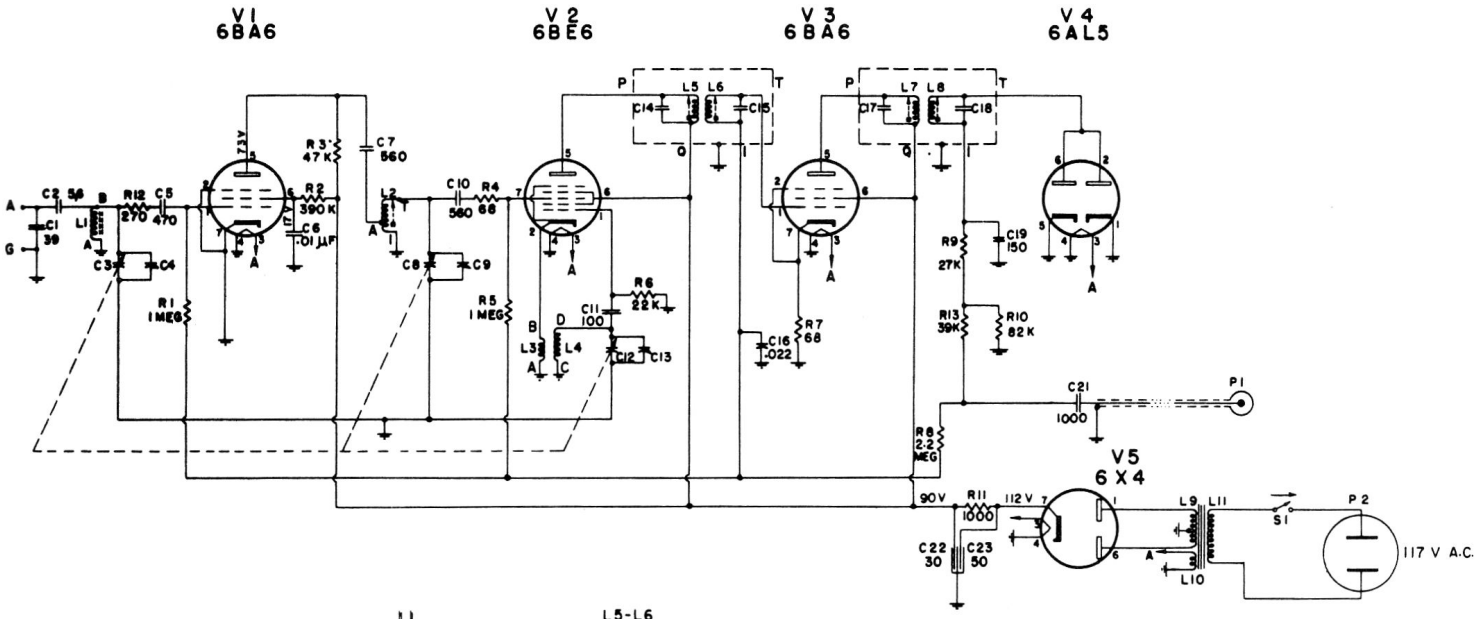
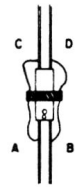
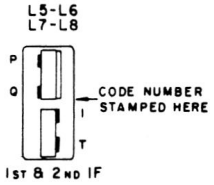
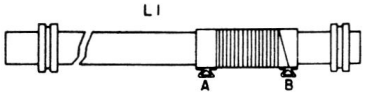
Philips / Rogers Majestic AT-1 AM Tuner

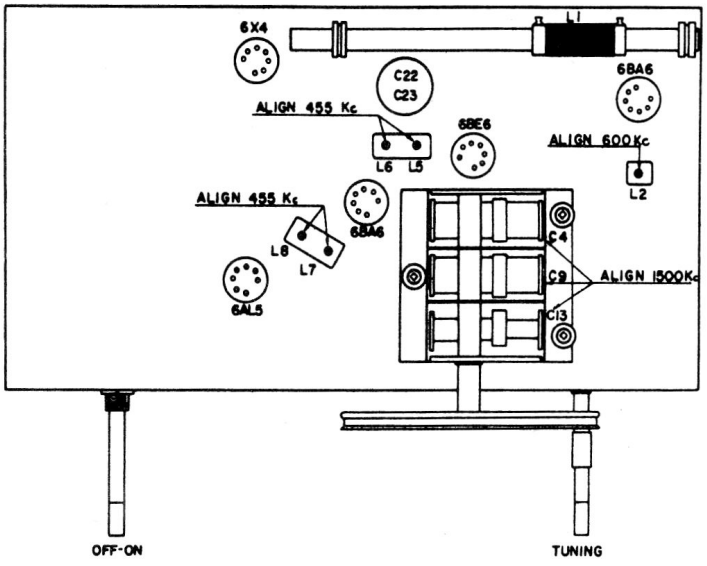




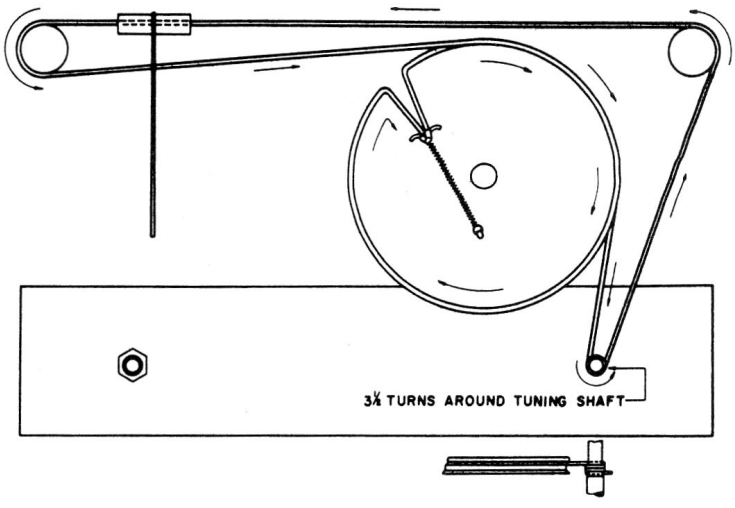


ARROW ← INDICATES CLOCKWISE ROTATION OF SWITCH SHAFT.
ALL RESISTANCE VALUES ARE INDICATED IN OHMS, K=1000 OHMS, MEG=1,000,000 OHMS.
CAPACITOR VALUES SHOWN IN MICRO MICRO FAHRADS. SHOWN IN MICRO FAHRADS EXCEPT WHERE NOTED.
ALL DC VOLTAGES MEASURED WITH A 20,000 OHMS PER VOLT TO B MINUS NO SIGNAL APPLIED.





GANG CONDENSER AT MAXIMUM CAPACITY (CLOSED)
DIAL DRUM IN POSITION SHOWN
POINTER AT LOW FREQUENCY END OF DIAL
COILS OF SPRING EXTENDED TO 1¾
LENGTH OF DIAL CORD APPROX 54



Philips / Rogers Majestic AT-1 AM Tuner

ALIGNMENT OF TUNER

EQUIPMENT REQUIRED:

Signal Generator: Capable of supplying modulated R.F. frequencies from 455 Kc. to 1700 Kc.

V.T.V.M.: Capable of measuring -1.5 volts D.C.

ALIGNMENT PROCEDURE:

Tuner: Adjust the dial pointer to correspond to the start mark of alignment strip, when the gang tuning capacitor is at its maximum point (gang fully closed).

Signal Generator: Always be sure to use the specified capacitor as listed on the alignment procedure chart. Connect the return lead of the signal generator to or near the ground terminal of the tuner.

V.T.V.M.: Connect V.T.V.M. lead to the junction of resistors R8 and R13 and do not exceed -1.2 volts during alignment.

ALIGNMENT PROCEDURE CHART

Operation Steps	Signal Generator		Tuner		
	Output Connections to Receiver	Frequency	Tuning Capacitor	See Notes	Adjust in stated order for AGC Voltage
1	To 6BA6-IF tube control grid through .05 μF capacitor	455 Kc.	min.		2nd. I.F. Transformer L7, L8.
2	To stator lug, middle section of tuning capacitor through .05 μF capacitor.	455 Kc.	min.	A	1st. I.F. Transformer L5, L6.
3	To stator lug, rear section of tuning capacitor through .05 μF capacitor	1500 Kc.	1500 Kc.		Adjust C13, C9.
4	To stator lug, rear section of tuning capacitor through .05 μF capacitor.	600 Kc.	600 Kc.	B	Adjust L2
5	To antenna terminal through 100 μμF capacitor *	1500 Kc.	1500 Kc.	C	Adjust C4

* or a standard dummy antenna with a 200 μμF capacitor in series.

Note A - After operation 2 has been completed, do not make any further adjustments to L7 and L8.

Note B - After operation 4 has been completed repeat operation 3, then 4 until no further improvement results.

Note C - For operation 5 only - Connect a 10 KΩ resistor across the stator lug, the middle section of the tuning capacitor and the gang frame or mounting plate.