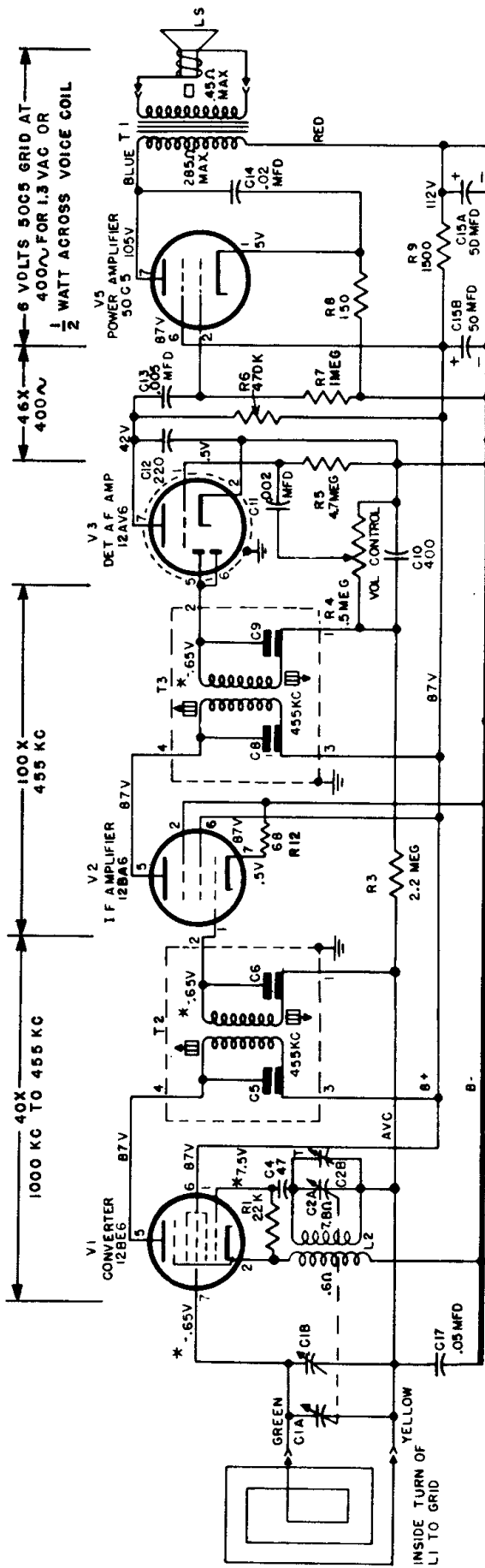


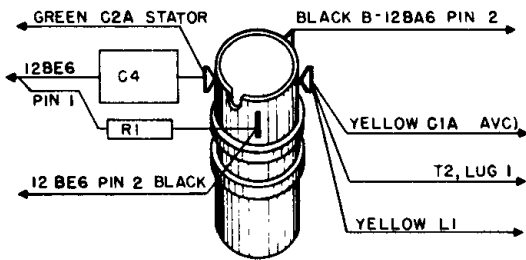
MODEL-412



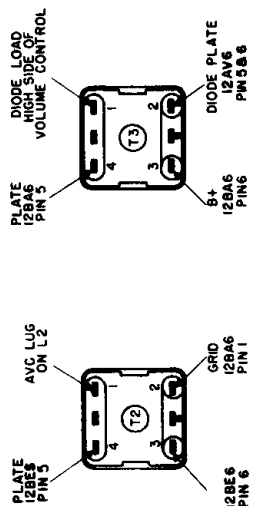
1. VOLTAGES ARE MEASURED TO B+ BUS.  
2. ALL VOLTAGES ARE DC EXCEPT FOR HEATERS WHEN USING AC INPUT.  
3. \* INDICATES VACUUM TUBE VOLTAGE READING WITH TUNING DIAL AT 1000 KC (IN CLEAR CHANNEL, NO SIGNAL) - THESE VOLTAGES NORMALLY VARY WITH SIGNAL.  
4. ALL OTHER DC VOLTAGES MEASURED WITH 20,000 OHMS PER VOLTMETER.

ALIGNMENT CHART

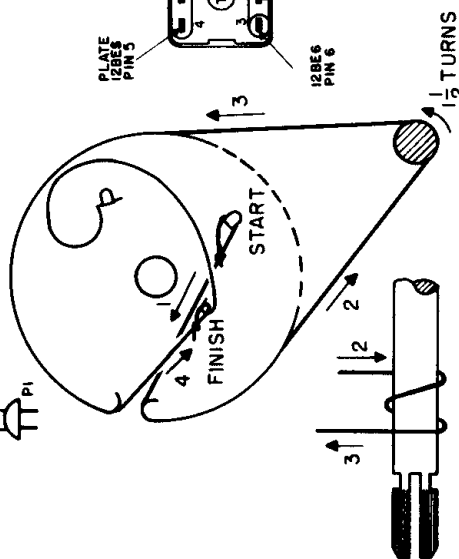
Step	Connect Test Oscillator to	Test Osc. Setting	Radio Dial Setting	Adjust for Maximum
I-F ALIGNMENT				
1	V2, 12BA6 grid (Pin 1) in series with .05 mfd.	455 kc		Cores of second I-F transformer, T3
2	V1, 12BE6 grid (Pin 7) in series with .05 mfd.			Cores of first I-F transformer, T2
3				Recheck adjustment of T2 and T3, for max.
R-F ALIGNMENT				
4	Inductively coupled to radio loop	1620 kc	Minimum capacity C1A, C2A	C2B oscillator trimmer
5		1500 kc	For Maximum	C1B, R-F trimmer
6	Set pointer to 150.			



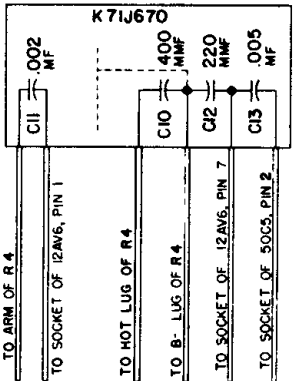
Oscillator Coil



I-F Transformers



REMOVE DIAL SCALE TO STRING DIAL



Capacitor Unit, C10, 11, 12, 13