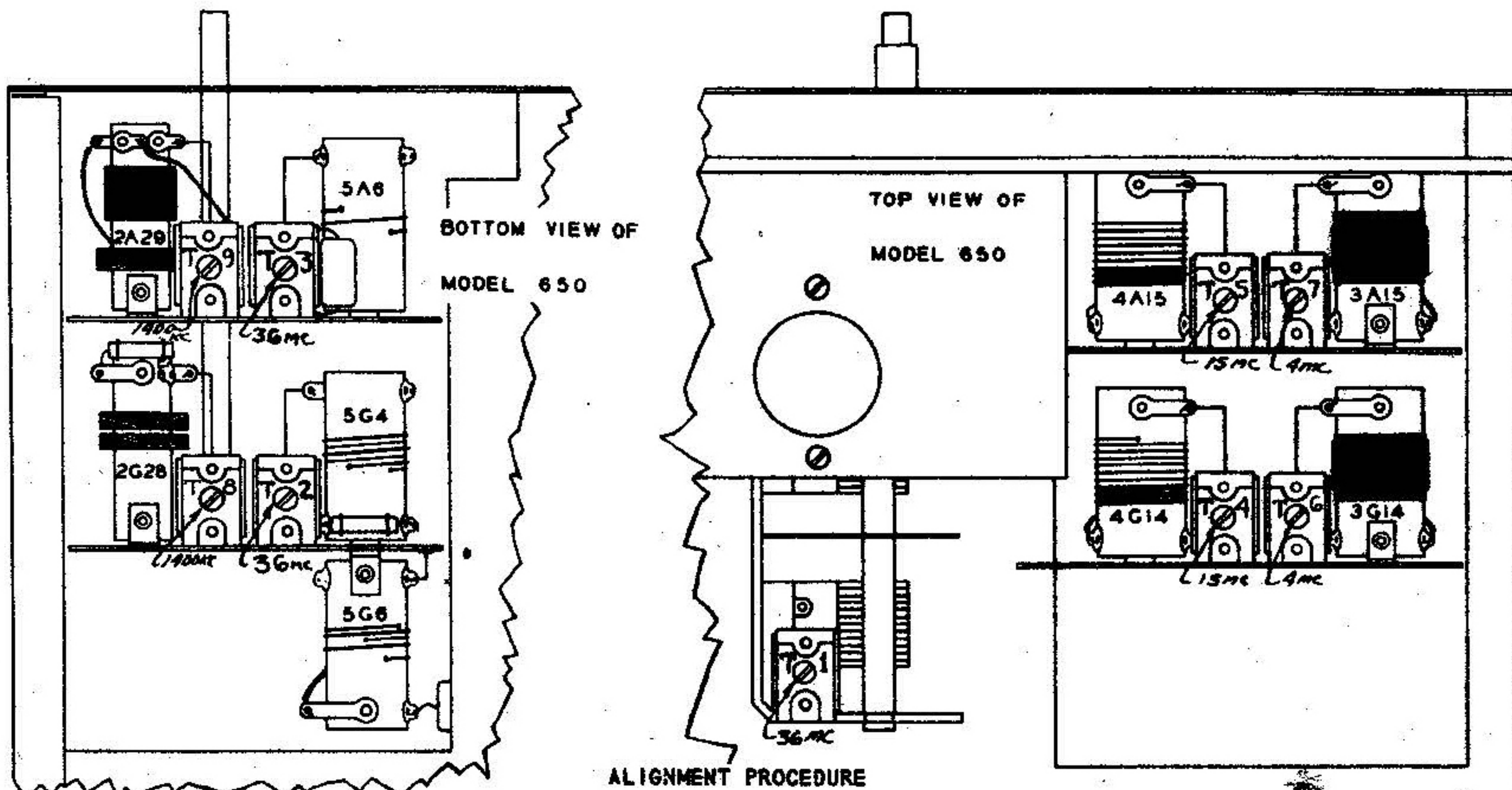


MODEL 650 Pre.Amp.  
MODEL 660 Freq. Mon.

HOWARD RADIO CO.

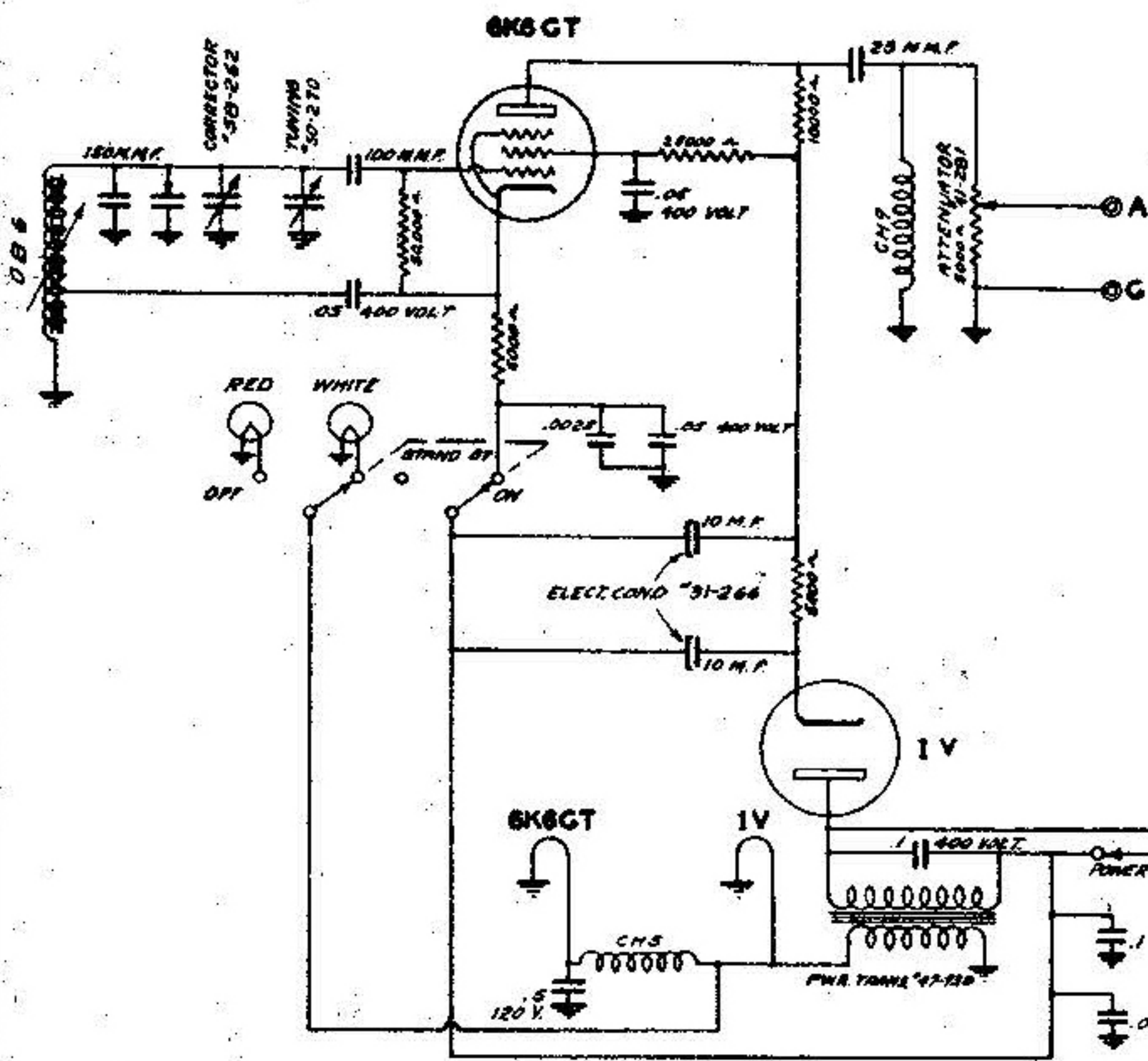


Wave-Band Switch Position	Position of Dial Pointer	Generator Frequency	Generator Connection	See Note	Trimmers Adjusted (In order shown)	Trimmer Function
43-17	36	36 MC	A and DG	5	T1, T2, T3	RF, RF, Ant.
18-5.6	15	15 MC	A and DG		T4, T5	RF, Ant.
5.5-1.7	4	4 MC	A and DG		T6, T7	RF, Ant.
1.7-.55	1.4	1400 KC	A and DG		T8, T9	RF, Ant.

NOTE 5: Align regular receiver first.  
Set "Ant. Loop" to "Ant." position.

TYPE 660 FREQUENCY MONITOR

DUE TO THE CRITICAL ADJUSTMENTS THAT ARE REQUIRED WITH THE FREQUENCY MONITOR, MODEL 660, WE DO NOT ADVISE THAT ANY ATTEMPT BE MADE TO CALIBRATE THIS UNIT; WE THEREFORE SUGGEST IF IT HAS BEEN DETERMINED THAT THE UNIT IS OFF CALIBRATION, IT SHOULD BE SENT BACK TO THE FACTORY FOR A RECALIBRATION.



The Howard Frequency Monitor Model 660 consists of a highly stabilized oscillator covering the fundamental frequency range of 850 to 1030 kilocycles, harmonics of which are used as reference or measurement points on the higher bands. The R. F. Output of this oscillator is loosely coupled to the antenna circuit of the receiver, and the voltage applied to the receiver is controlled by a variable resistance attenuator.

The Oscillator is tuned by a precision ceramic insulated variable condenser carrying an extremely accurate frequency scale covering the 10, 20, 40, 80 and 160 meter amateur bands as well as the fundamental range. The range is so selected that harmonics cover the entire length of all amateur bands, and these are calibrated so that frequency can be read within one kilocycle on the lower frequency bands and five kilocycles on the highest band.

HOWARD RADIO CO.		
MODEL 660 FREQ. MON.		
DWG. NO. D69-715	1-3-40	
DWN BY	CHKD. BY	APPVD. BY.
R. B. M.	K. W. M.	J. P. R.