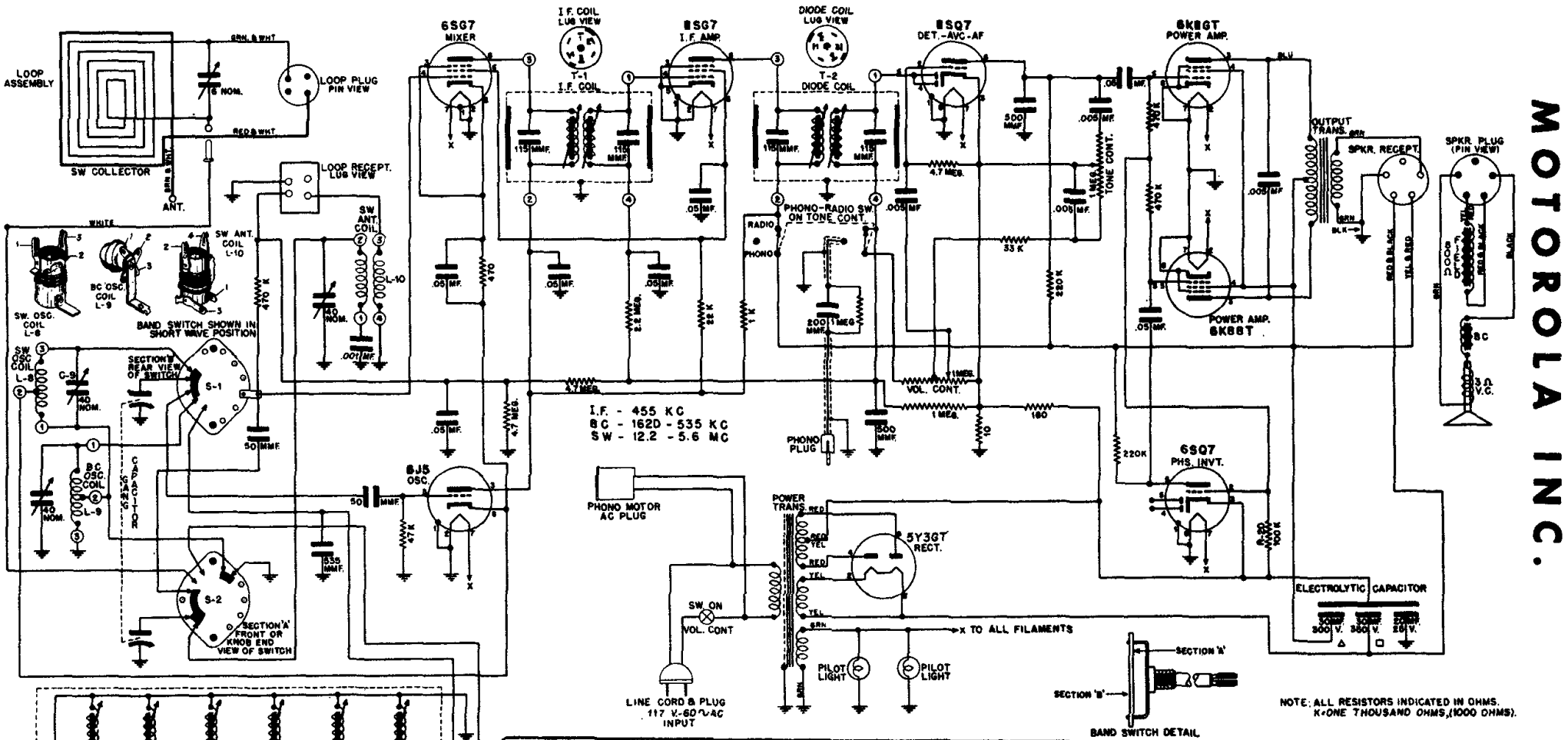
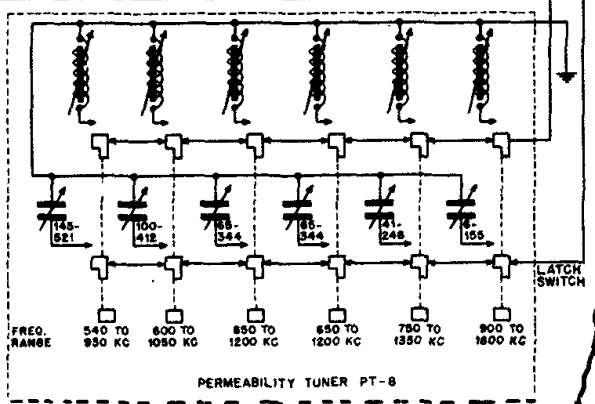
MOTOROLA INC.





VOLUME CONTROL ON FULL.

VOLTAGE TOLERANCE ±10%

RESISTANCE TOLERANCE ±20%

BAND SWITCH IN BC. POSITION.

PHONO RADIO SWITCH IN RADIO POSITION

* MEASUREMENTS MAY VARY DUE TO ELECTROLYTIC CAPACITOR IN CIRCUIT.

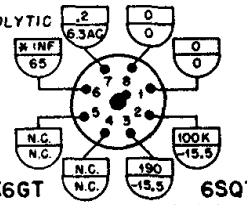
▭ = RESISTANCE MEASUREMENTS.

◡ = VOLTAGE MEASUREMENTS

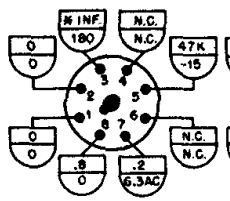
NOTE:- A V.T.V.M. WAS USED TO MAKE MEASUREMENTS. IF A 20,000 OHM PER VOLT METER IS USED ALL GRID & AVC VOLTAGES WILL READ LOWER.

MEASUREMENTS ARE MADE FROM TUBE BASE PIN TERMINALS TO CHASSIS.

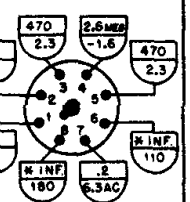
6SQ7 PHASE INV.



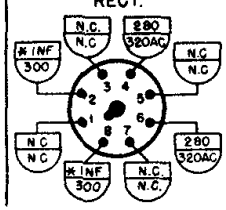
6J5 OSC.



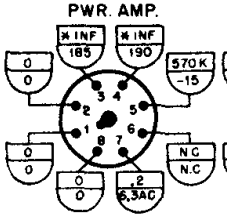
6SG7 MIXER



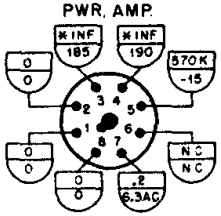
5Y3GT RECT.



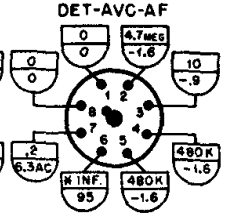
6K6GT PWR. AMP.



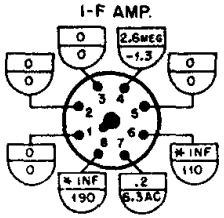
6K6GT PWR. AMP.



6SQ7 DET-AVC-AF



6SG7 I-F AMP.



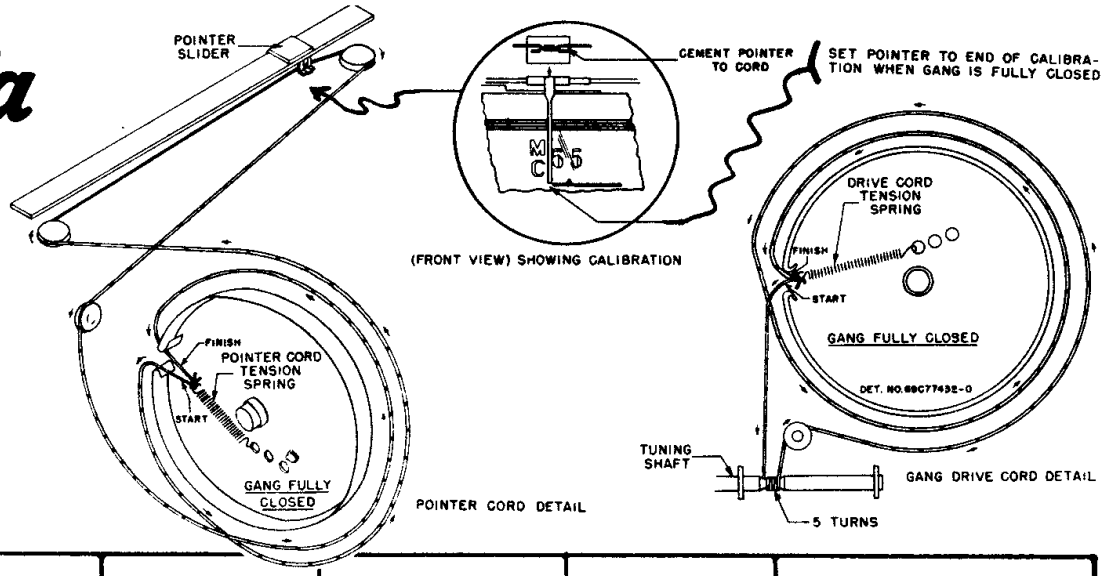
Motorola Model 85F21 Chassis HS-22

(Models 65F21, 85K21, Chassis HS-26, HS-52, are similar).

Motorola

Model 85F21
Chassis HS-22

(Schematic on previous page)

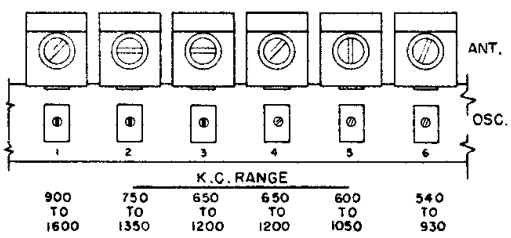


ALIGNMENT

Step	Gang Setting	Band	Dummy	Generator Connected to	Generator Frequency	Trimmer or Core	Remarks
1	Fully opened	B.C	.1mf	Mixer grid & chassis	455 kc	1, 2, 3, &4	Adjust I.F. & Diode trans. for maximum
2	Fully opened	B.C	-	Radiation loop*	1620 kc	5	Set oscillator to dial scale
3	1400 KC	B.C	-	Radiation loop*	1400 kc	6 ‡	Tune signal generator for max. on output meter, then peak trimmer.
4	12.2 MC	SW	50mmf	Short wave antenna terminal	12.2 Mc	7	Set osc. to dial scale.
5	11.5 MC	SW	50mmf	Short wave antenna terminal	11.5 Mc	8	Tune signal generator for max. on output meter, then peak trimmer.

‡ Repeak after chassis and loop are installed in cabinet.

* Connect output of signal generator to a 5" diameter, 3 turn loop. With volume on full, bring loop close enough to receiver until output of 50 milliwatts is obtained. (.38V on output meter). Vary distance between generator and receiver loops to maintain this output during alignment. Minimum distance between loops should never be less than 12".



PUSH BUTTON SET-UP