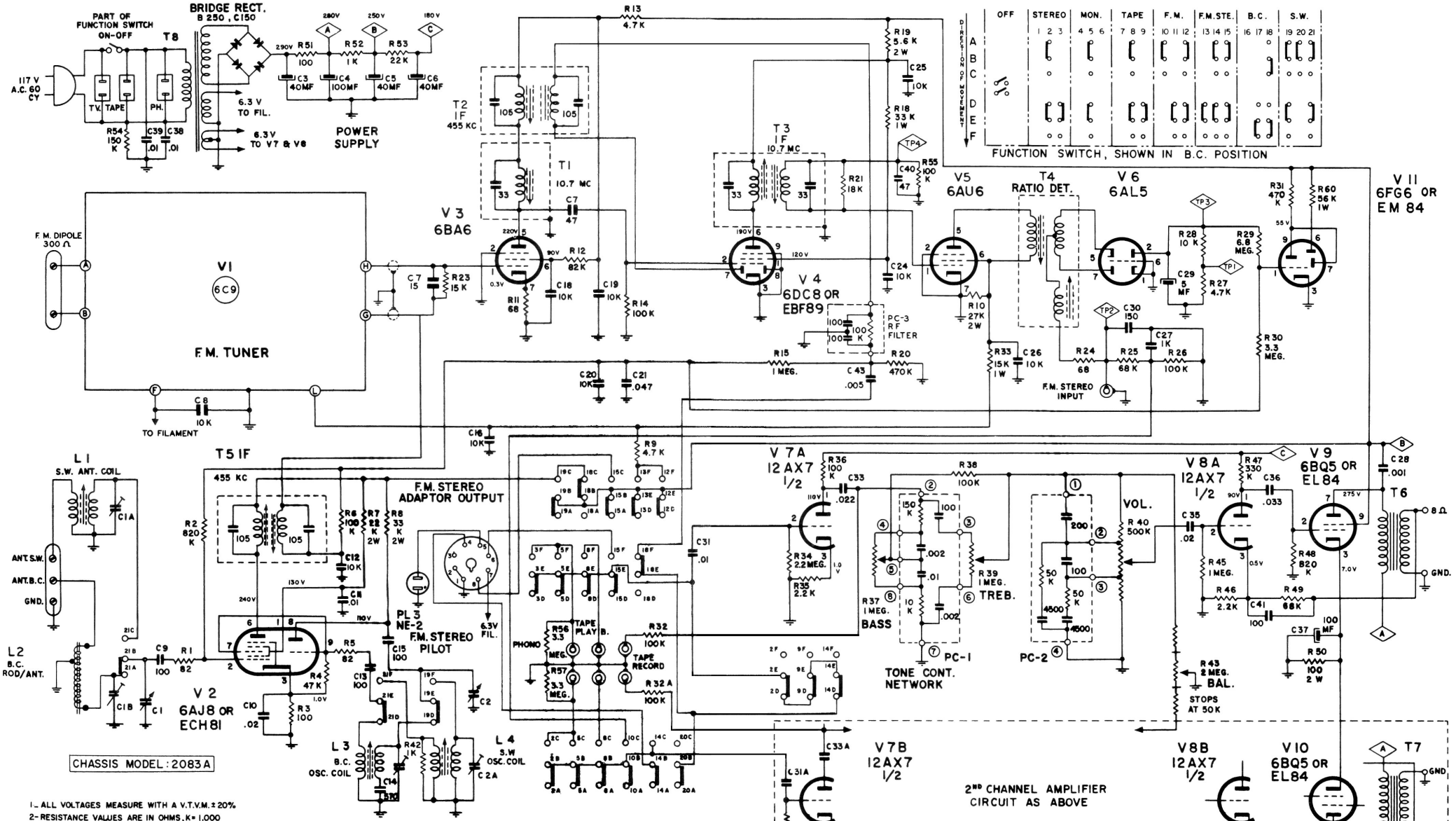

1- ALL VOLTAGES MEASURE WITH A V.T.V.M. ± 20%
2- RESISTANCE VALUES ARE IN OHMS, K= 1,000
3- CAPACITANCE VALUES LESS THAN (1) ARE IN MICROFARADS (μF), AND VALUES OF (1) OR GREATER ARE IN PICOFARADS (pF), UNLESS OTHERWISE INDICATED

Fleetwood 2083A
Simpson-Sears C817-40070

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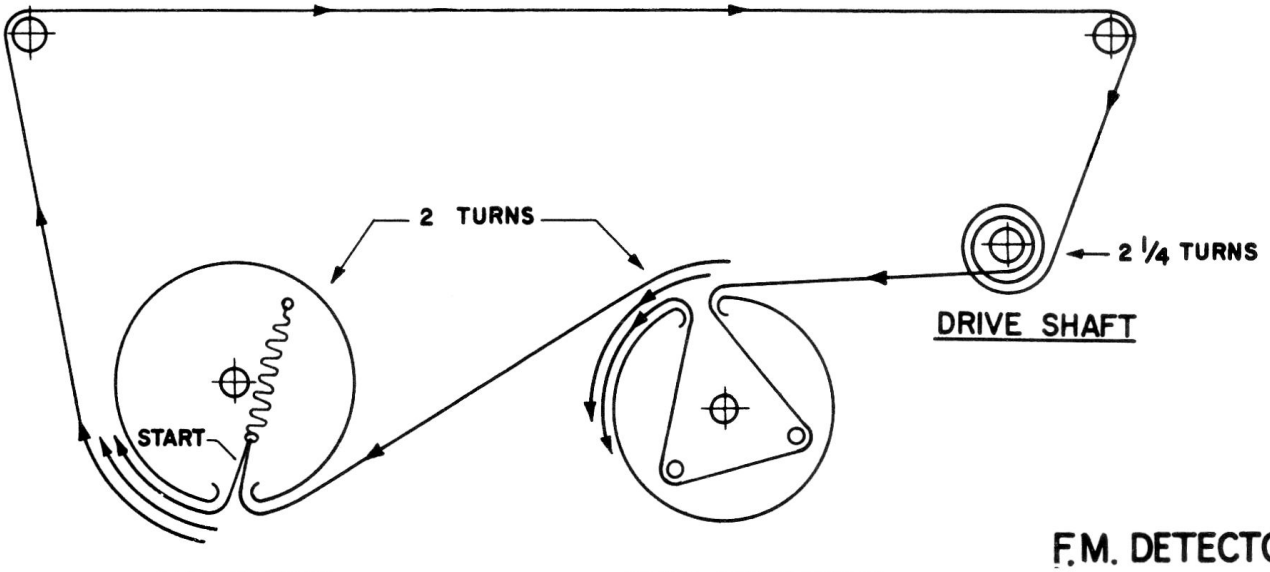
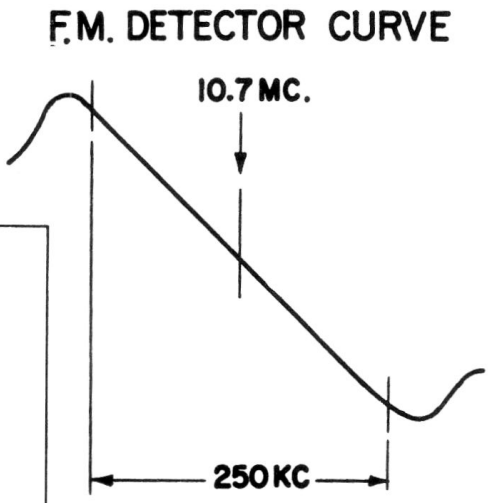
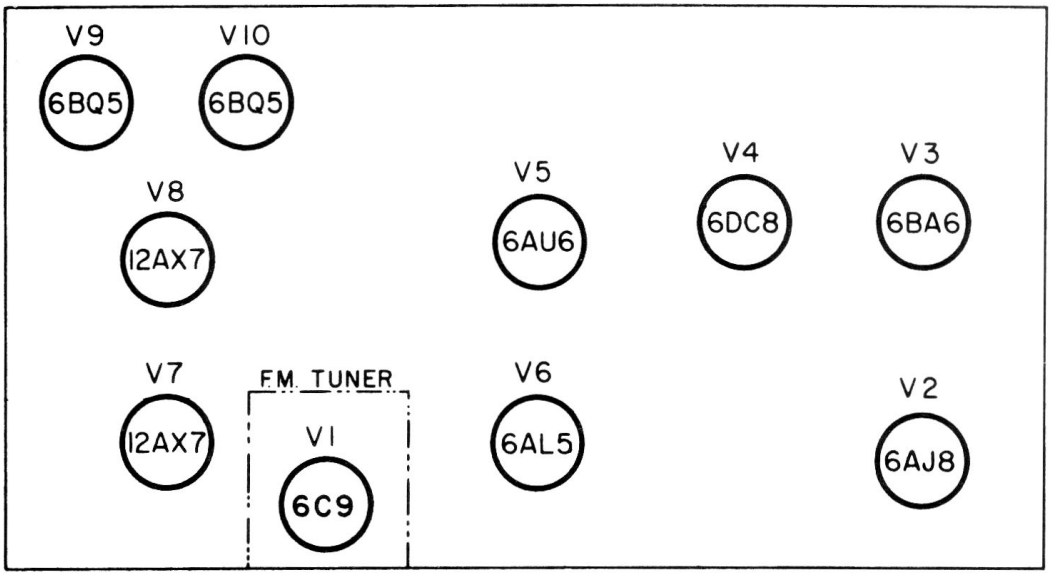


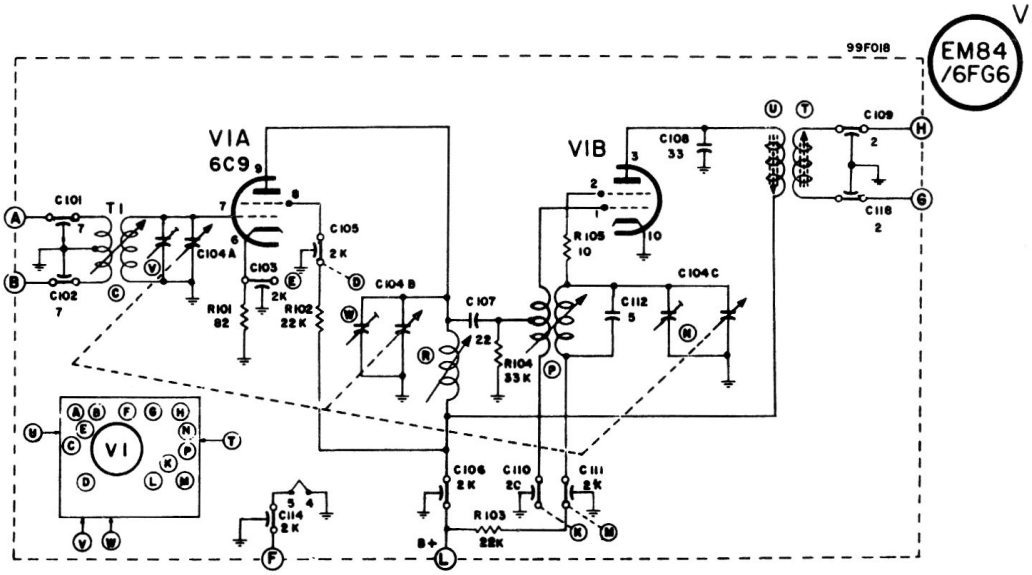
F.M. TUNER
SHAFT IN FULL C.C.W. POSITION

GANG CONDENSER
DRUM IN FULL C.W. POSITION
(VANES CLOSED)

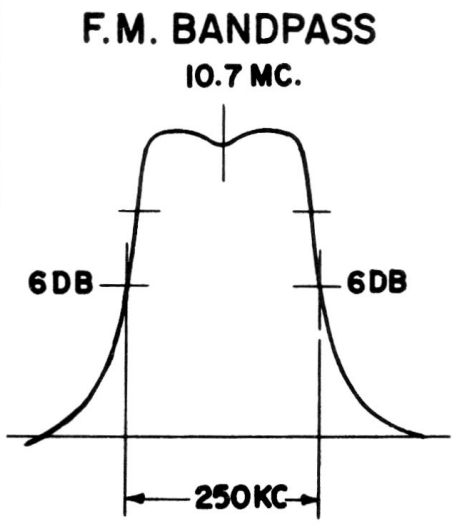
Drive Cord Assembly







Tuner, F.M.



F.M. I.F. Curves

ALIGNMENT PROCEDURE

ALIGNMENT IS AN EXACTING PROCEDURE AND SHOULD BE UNDERTAKEN ONLY WHEN ESSENTIAL AND BY A FULLY QUALIFIED PERSON.
THE FOLLOWING EQUIPMENT IS REQUIRED FOR PROPER ALIGNMENT:-

1. SIGNAL GENERATOR WITH A FREQUENCY RANGE OF AT LEAST 455KC. TO 20 MC. (AM.).
2. SIGNAL GENERATOR WITH A FREQUENCY RANGE OF AT LEAST 10.5MC. TO 109 MC. (FM.)
3. FM. SWEEP GENERATOR.
4. POWER OUTPUT METER.
5. V.T.V.M.
6. OSCILLOSCOPE.

N O T E S:
ALLOW AT LEAST 15 MINUTES FOR THE SET AND EQUIPMENT TO WARM UP BEFORE PROCEEDING WITH ALIGNMENT. DURING ALIGNMENT, KEEP THE SIGNAL GENERATOR OUTPUT AS LOW AS POSSIBLE. KEEP THE VOLUME CONTROLS IN FULL CLOCKWISE POSITION. CONNECT GROUND SIDE OF GENERATOR TO CHASSIS BASE. GENERATOR MODULATION AT 400 CY. 30% AND 400 CY. 22.5 K.C. DEVIATION OF AM AND FM RESPECTIVELY.

W A R N I N G:
CONNECT OUTPUT METER WITH 8 OHM TERMINATION TO TERMINALS OF THE OUTPUT TRANSFORMER.
WHEN OUTPUT METER OR LOUDSPEAKER IS NOT CONNECTED ACROSS THE AMPLIFIER OUTPUT, TERMINATE OUTPUT WITH A FIVE TO TEN OHMS RESISTOR CAPABLE OF DISSIPATING AT LEAST 10 WATTS.

	STEP	DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	GENERATOR FREQ.	DEPRESS FUNCTION SWITCH	DIAL SETTING	METER CONNECTION	ADJUST	REMARKS
BROADCAST	1.		TO PIN #2 OF 6AJB TUBE. THROUGH .1MF CAPACITOR.	455KC.	B.C.	GANG FULLY OPEN.	OUTPUT METER ACROSS OUTP. TRANSF. TERMINALS.	T5, Top & Bottom T1, Top T2, Top & Bottom	ADJUST FOR MAX. OUTPUT.
	2.	LOOP.	LOOSE COUPLING TO B.C. LOOP.	1630KC.	B.C.	GANG FULLY OPEN.	SAME.	C2B.	ADJUST FOR MAX. OUTPUT.
	3.	SAME.	SAME.	535KC.	B.C.	GANG FULLY CLOSED.	SAME.	L3.	ADJUST FOR MAX. OUTPUT.
	4.	REPEAT STEP 2 AND 3 UNTIL NO FURTHER CHANGE OCCURS.							
	5.	SAME.	SAME.	1400KC.	B.C.	1400KC.	SAME.	C1B.	ADJUST FOR MAX. OUTPUT.
SHORT WAVE	1.	400 OHMS.	CONNECT HIGH SIDE OF SIGNAL GENERATOR TO S.W. ANT. TERM.	18.2MC.	S.W.	GANG FULLY OPEN.	SAME.	C2A.	ADJUST FOR MAX. OUTPUT.
	2.	SAME.	SAME.	5.9MC.	S.W.	GANG FULLY CLOSED.	SAME.	L4.	ADJUST FOR MAX. OUTPUT.
	3.	REPEAT STEP 1 AND 2 UNTIL NO FURTHER CHANGE OCCURS.							
	4.	SAME.	SAME.	15MC.	S.W.	15MC..	SAME.	C1A.	ADJUST FOR MAX. OUTPUT.
	5.	SAME.	SAME.	7MC.	S.W.	7MC.	SAME.	L1	ADJUST FOR MAX. OUTPUT.
	6.	REPEAT STEP 4 AND 5 UNTIL NO FURTHER CHANGE OCCURS.							
FREQUENCY MODULATION	1.	DIRECT	To 6C9 Tube THROUGH CAPACITIVE SHIELD.	10.7MC.	F.M. DIST.	POINT OF NON-INTERFERENCE.	CONNECT V.T.V.M. PROBE TO TP3. NEGATIVE LEAD TO CHASSIS.	T1 BOTTOM T3 TOP & BOTTOM T4 BOTTOM Adjust Slugs "U" and "T" in Tuner.	ADJUST FOR MAX. READING.
	2.	DIRECT	AS ABOVE.	10.7MC.	SAME.	SAME.	CONNECT V.T.V.M. PROBE TO TP2 AND NEGATIVE LEAD TO TP1.	ADJUST T7 TOP.	ADJUST V.T.V.M. TO "ZERO CENTER" BEFORE ATTACHING ADJUST FOR "ZERO BALANCE"
	3.	300 OHMS BALANCED INPUT.	TO ANTENNA TERMINALS.	10.7MC.	SAME.	SAME.	CONNECT V.T.V.M. PROBE TO TP4. NEGATIVE LEAD TO CHASSIS.		CHECK IF. BAND WIDTH FOR 250KC. MIN. AT 6DB POINTS.
		F.M. TUNER ALIGNMENT							
	1.	300 Ohms Balanced Input	To Antenna Terminals	87.5 M.C. Modulated	FM	Min. Freq.	Output Meter Across Outp. Transf. Terminals	Cores "C", "P" and "R" For Max. Out	Core "P" Adjust Osc. Freq.
	2.	As above	As above	108.5 M.C.	FM	Max. Freq.	As above	Trimmers "N", "V" and "W" For Max. Out	Trimmer "N" Adjust Osc. Freq.