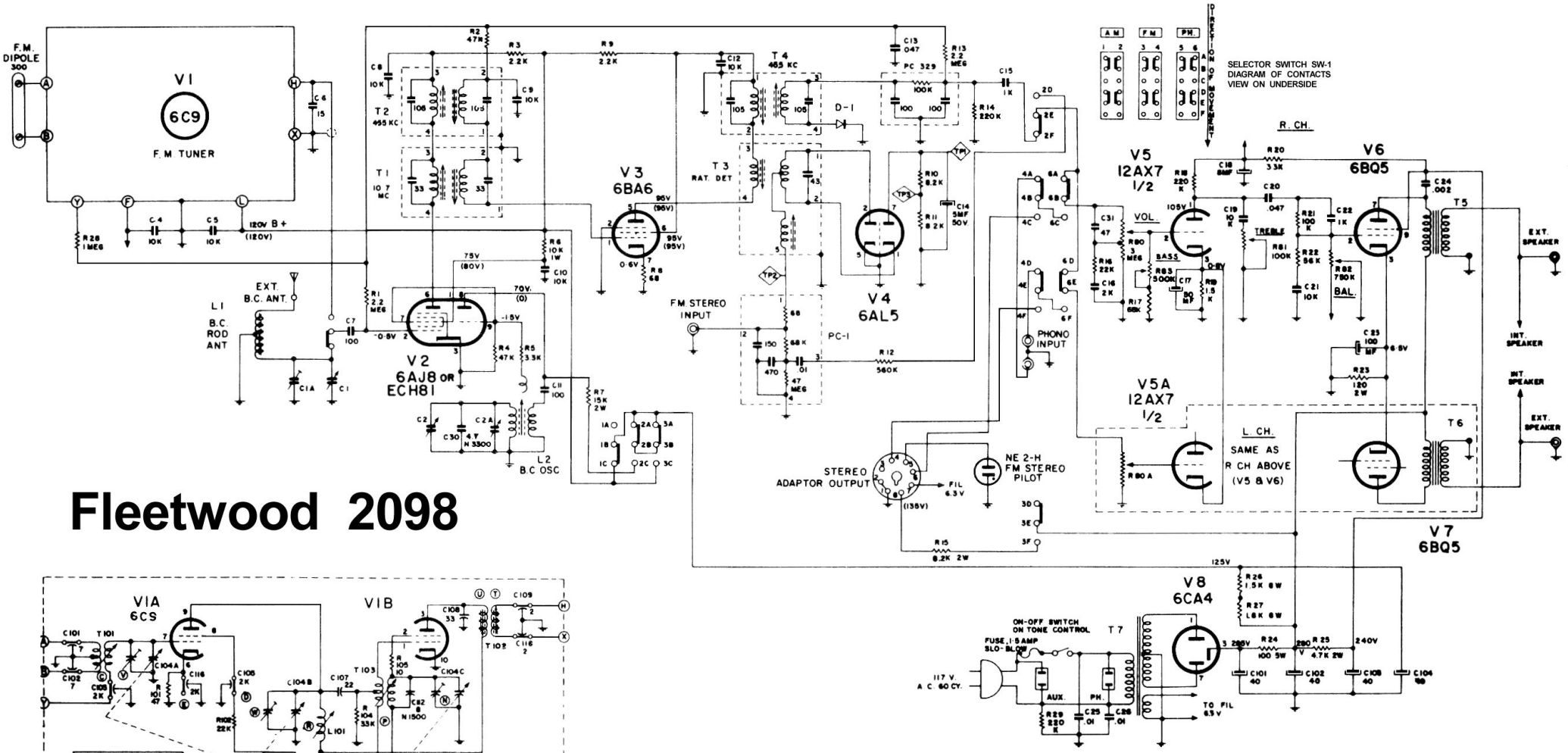
Fleetwood 2098



NOTES

1- ALL VOLTAGES MEASURED WITH V.T.V.M. ± 20% IN "AM" POSITION. IN BRACKETS "FM" POSITION.
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.

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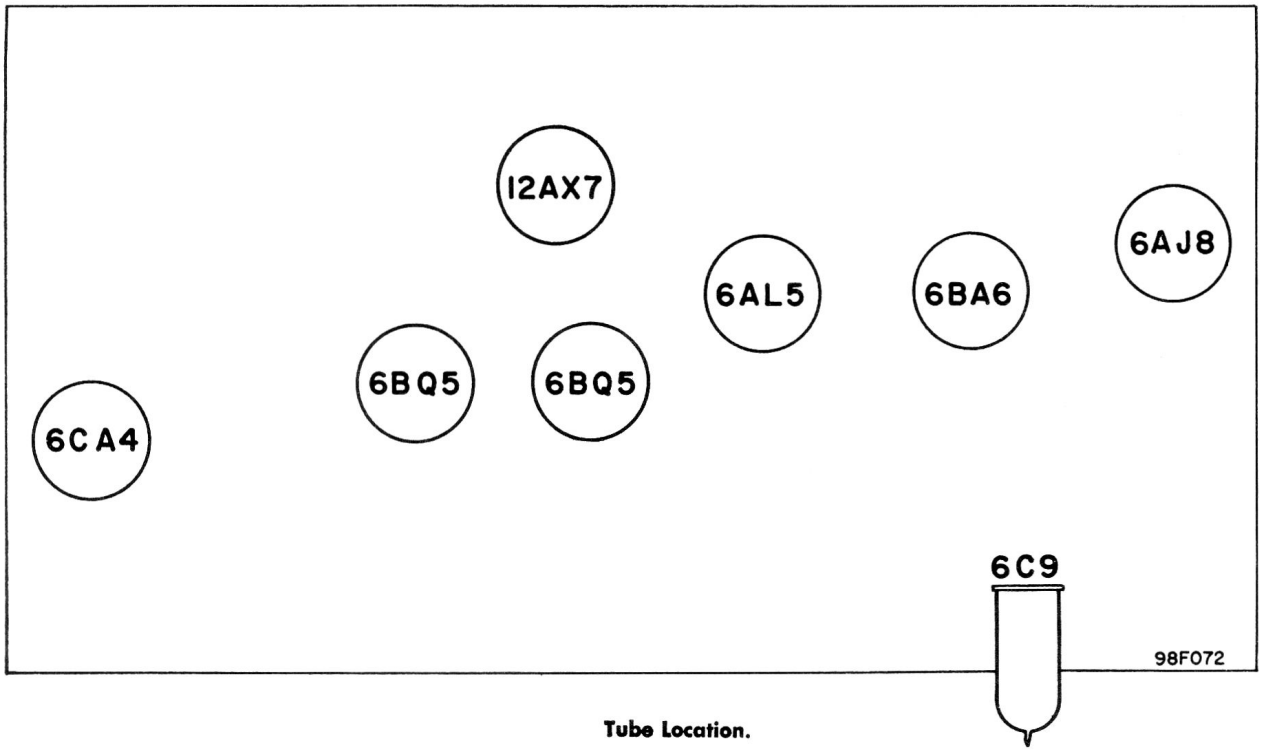
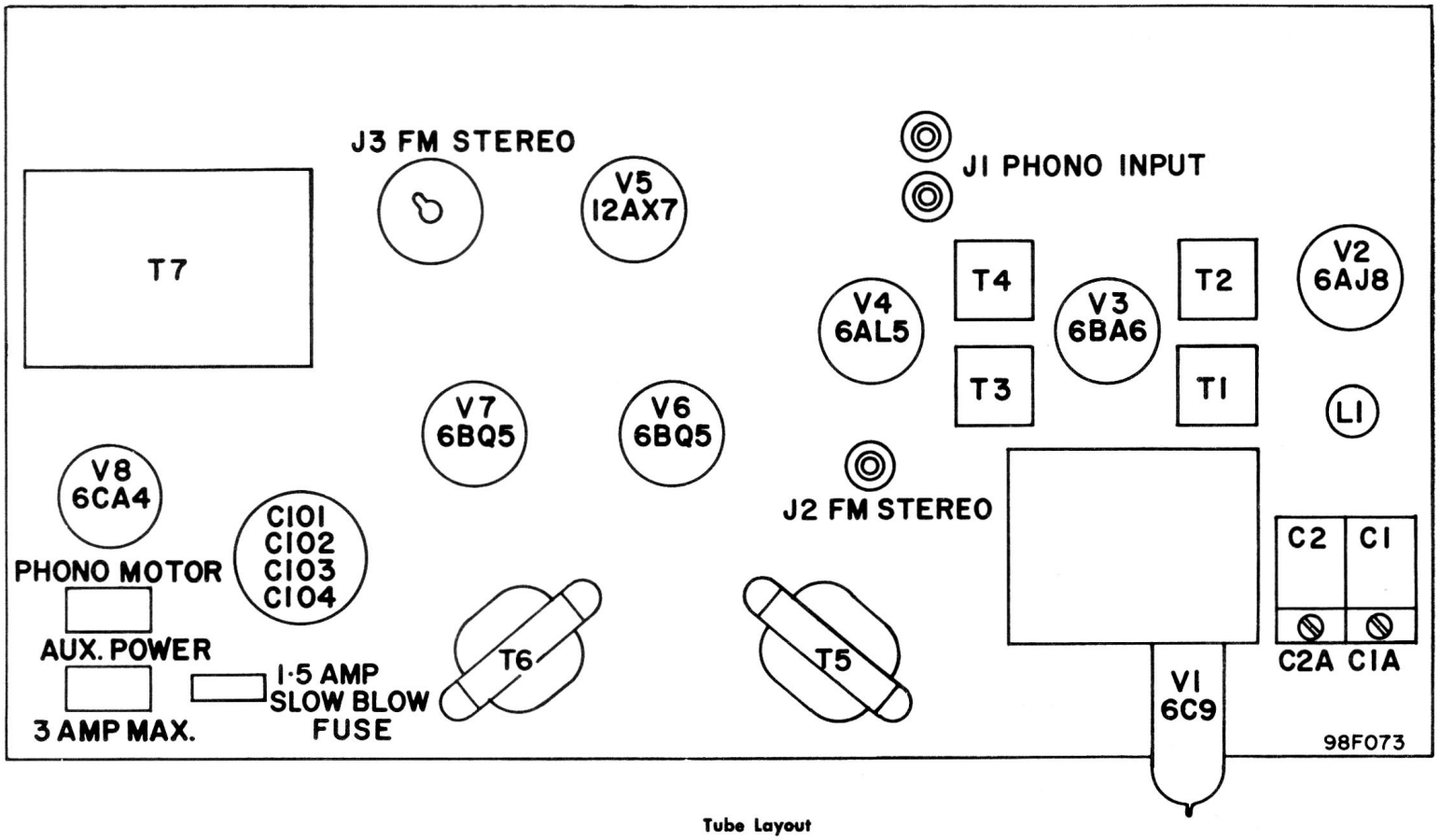
Fleetwood 2098 Tube & Chassis Layout



Tube Location.



Tube Layout

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 2.0 Mc (AM).
2. Signal Generator with a Frequency Range of at least 10.5 Mc to 109 MC(FM)
3. FM Sweep Generator.
4. Power Output Meter
5. V.T.V.M.
6. Oscilloscope.

NOTES:
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.

WARNING:
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 No.2 of 6AJ8 Tube Through .1MF Capacitor	455KC	B.C.	Gang Fully Open	Output meter across outp. Transf.terminals	T2 top & bottom T4 top & bottom	Adjust for max. output
	2.	Loop	Loose Coupling to BC loop	535KC	B.C.	Gang Fully Closed	Same	L2	Adjust for max. output
	3.	Loop	Loose Coupling to BC loop.	1630KC	B.C.	Gang Fully Open	Same	C2A	Adjust for max. output
	4.	Repeat step 2 and 3 until no further change occurs.							
	5.	Same	Same	1400KC	B.C.	1400KC	Same	C1A	Adjust for max. output
I.F.	1.	Direct	To 6C9 Tube Through capacitive shield.	10.7MC	F.M.	Point of non-interference.	Connect V.T.V.M. Probe to TP1 Negative Lead to Chassis	T1 top & bottom T3 bottom T102 Top & bottom	Adjust for mx. reading.
	2.	Direct	As above.	10.7 MC	Same	As above	Connect V.T.V.M Probe to TP2 and Negative lead to TP3	Adjust T3 top.	Adjust V.T.V.M. to "zero center" before attaching, Adjust for "zero balance"
	3.	300 ohms balanced input	To antenna terminals	10.7 MC	Same	Same	Connect V.T.V.M. Probe to TP1 Negative lead to chassis.		Check IF. band width for 250KC. min. at 6DB points
TUNER FREQUENCY MODULATION	1.	300 ohms	FM Ant. Terminals	87.5 MC.	FM	Min. Freq.	Output Meter Across Output Terminals.	Adjust Core P (T103) R (L101) C (T101)	Adjust for Max. Output
	2.	Same	Same	108.5 Mc.	FM	Max. Freq.	Same	Adjust Trimmers "N" "V" "W"	Adjust for Max. Output.
	3.	Repeat Step 1 & 2 until no further change occurs.							

F.M. SWEEP ALIGNMENT PROCEDURE.

If an FM Sweep generator is used for FM Alignment, set the generator for 10.7 MC and 500 K.C. sweep. Connect generator as in "Signal Generator Coupling" and the oscilloscope to "TP-1" follow alignment table sequence for I.F. tuned circuits, adjust each for maximum gain and symmetrical curve as in Fig. 202.
Connect oscilloscope to "TP-3" and adjust top core of ratio detector transformer "T3" for 10.7 MC crossover, and bottom core for balanced peaks. See Fig. 101. I.F. bandwidth should be 250 KC at 6DB points and peak separation of the "S" curve not less than 350 K.C.

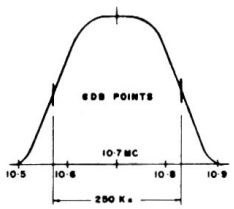


FIG. 202
I.F. BAND PASS

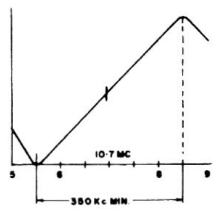


FIG. 101
RATIO DETECTOR "S" CURVE