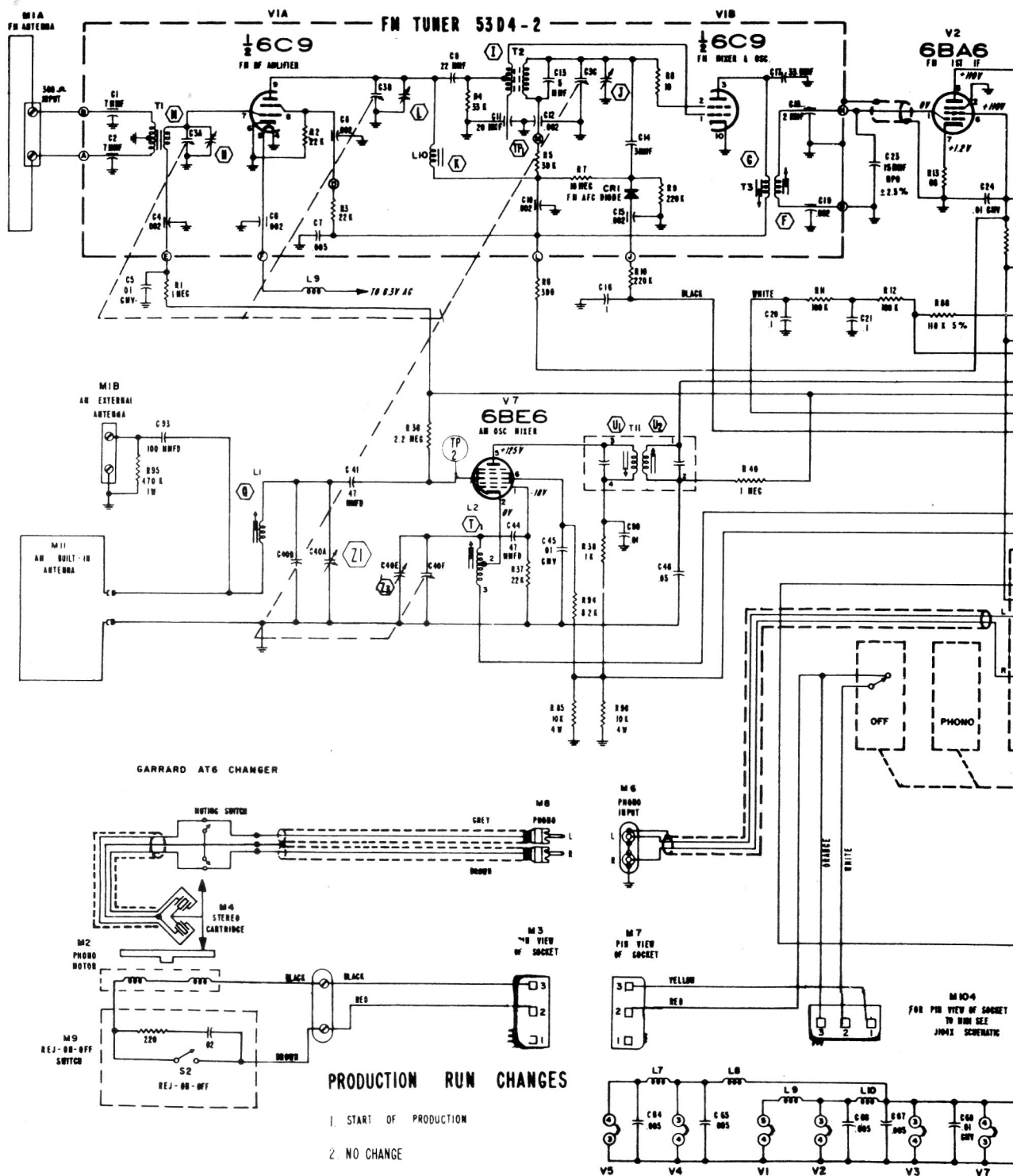
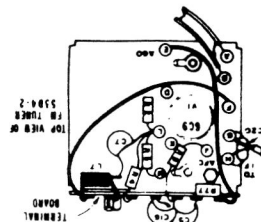
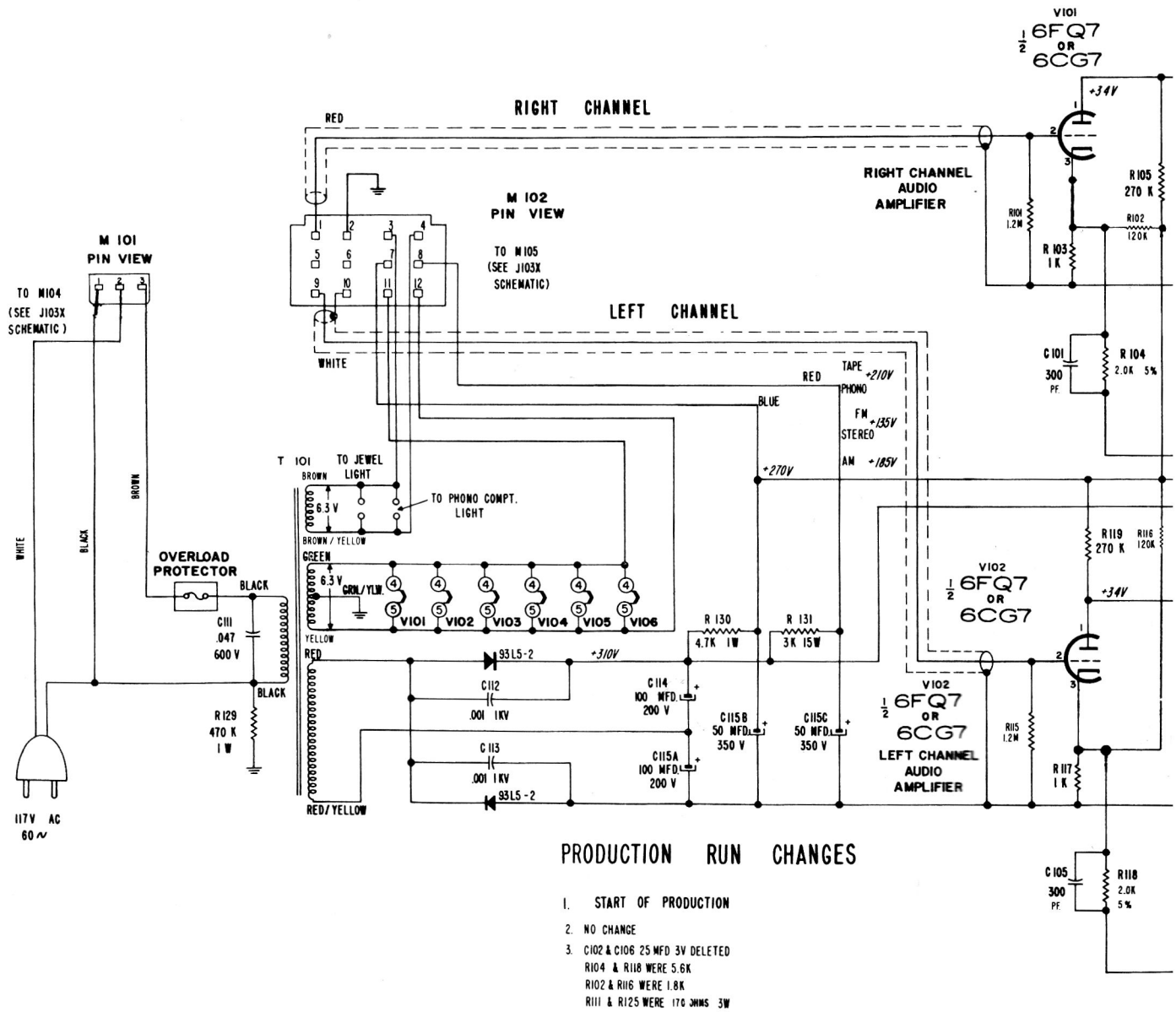
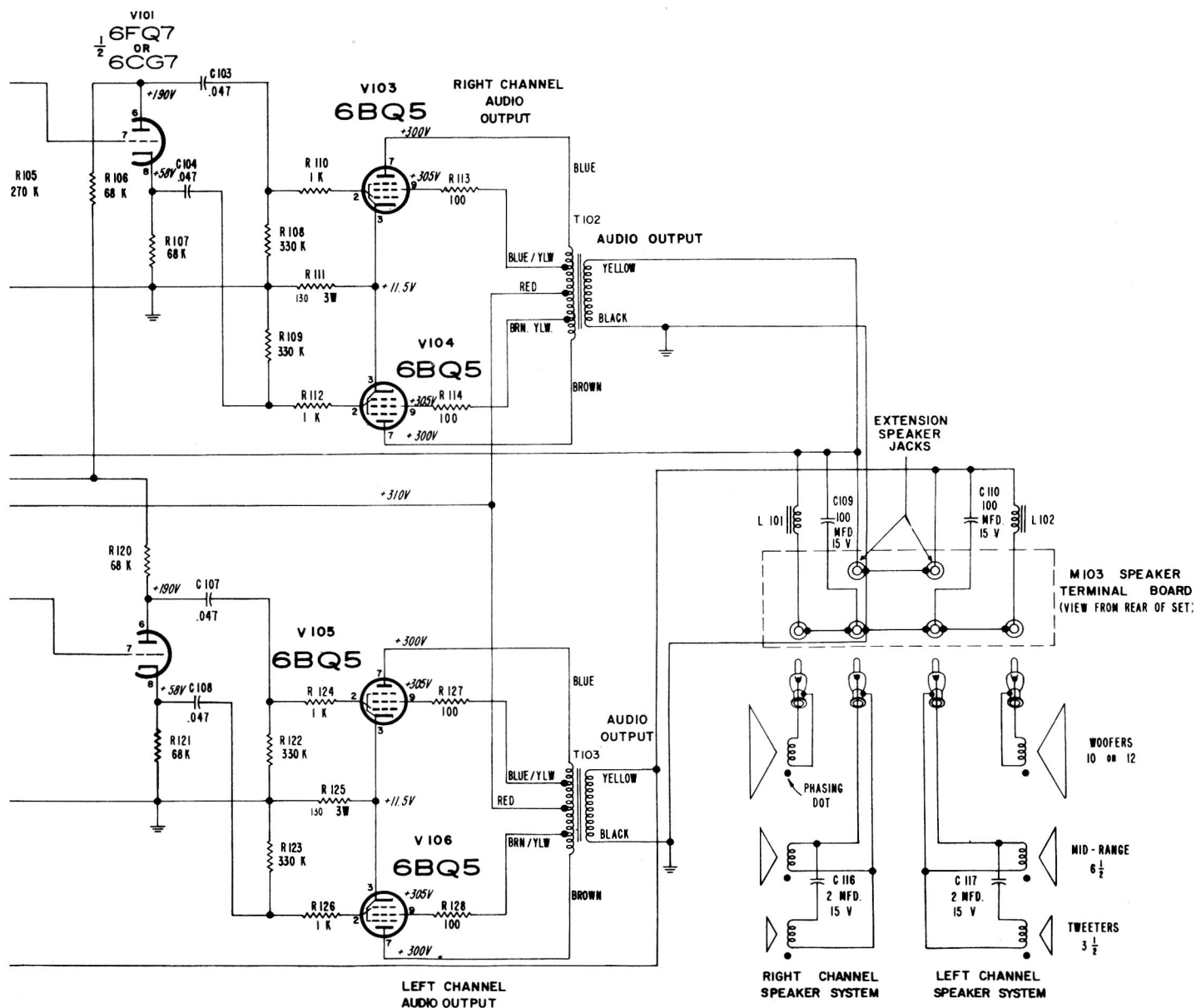








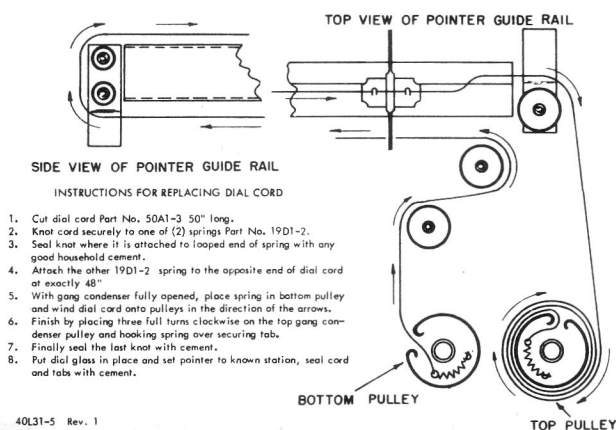


A.M. I.F. OSCILLATOR AND R.F. ALIGNMENT

- Turn receiver on by pressing AM pushbutton and allow 10 minutes warm up.
- Set Loudness, Bass, Treble and Balance Controls at mid-rotation.
- Set AM Hi-Fi button at upper position (J103X).
- Connect VTVM to AGC (TP3 junction of R91 and R92).
- Use lowest setting of Signal Generator output that produces adequate indication on lowest scale of VTVM.
- Use a non-metallic alignment tool for IF Oscillator RF and antenna transformer adjustments.
- Repeat all adjustments to insure best results.

STEP	GENERATOR CONNECTION	GENERATOR SETTING	RECEIVER GANG SETTING	ADJUSTMENT
1	Through a .01 mfd to TP2 Grid of Mixer Tube V7	455 KC	Fully open	O, P, U2, U1 for maximum
2	To External Antenna Terminal	535 KC	Fully closed	T for maximum
3	To External Antenna Terminal	1620 KC	Fully open	Z3 for maximum
4	Repeat Steps 2 and 3 until no interaction is noticed.			
*5	To External Antenna Terminal	600 KC	Tune for Gen. Tone	S for maximum. Use peak closest chassis pan.
*6	To External Antenna Terminal	1400 KC	Tune for Gen. Tone	Z2 for maximum
	Perform Steps 7 & 8 after set is installed in cabinet and loop connected.			
7	Tune in station at approximately	600 KC	and adjust	Q for maximum.
8	Tune in station at approximately	1400 KC	and adjust	Z1 for maximum.

* Steps 5 & 6 apply to J103X Chassis with AM-RF Stage.



Dial Cord Stringing

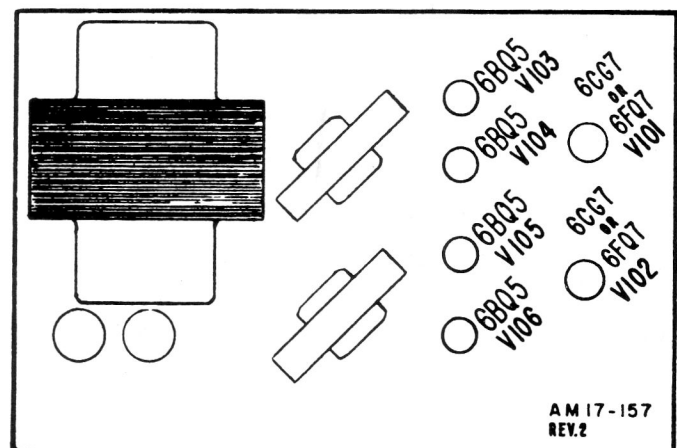


Fig. 6 Tube Layout J104X Power Supply

ADMIRAL

J101X etc.

F.M. I.F. R.F. AND OSCILLATOR ALIGNMENT PROCEDURE
USING A.M. SIGNAL GENERATOR AND VTVM

- (a) Turn set on by depressing FM pushbutton AFC button released.
- (b) Allow receiver to warm up for 10 minutes.
- (c) Set Loudness, Bass, Treble and Balance Controls at mid-rotation.
- (d) For I.F. Alignment inject a 10.7 MC unmodulated signal by means of an ungrounded tube shield atop the RF tube V1 (6C9).
- (e) For Oscillator alignment inject signal into antenna terminals with a 150 ohm resistor in series with each lead.
- (f) Use the lowest signal input possible to provide a usable reading on the low scale of VTVM except in Step 2. In Step 2 use maximum signal and the zero centre scale.
- (g) Use a non-metallic alignment tool for all coil and transformer adjustments.

STEP	SIGNAL GENERATOR	SIGNAL GENERATOR FREQ.	RECEIVER DIAL SETTING	VTVM	ADJUST	REMARKS
1	To ungrounded tube shield test point	10.7 MC Unmod.	High End(AM Gang fully open)	High side to TP4 Jct. of R17, C28 Low side to Gnd.	A,B,C,D,E, F.G, for maximum	
2	Same as Step 1	10.7 MC Unmod.	Same as Step 1	High side to TP5 Jct. of R23, C22 Low side to Gnd.	H for zero	Use centre scale on VTVM increase signal input to max.
Make the following adjustments if Osc. Calibration is not proper.						
3	Antenna terminals through resistors described in paragraph (e) above.	108.5 MC Unmod.	Same as Step 1	High side to TP4 Jct. of R17, C28 Low side to Gnd.	J for maximum	Repeat both coil and trimmer adjustment until correct range 87.5-108.5 MC is established
4	Same as Step 3	87.5 MC Unmod.	Low End(AM Gang fully closed)	Same as Step 1 and 3	I for maximum	
If set has low sensitivity proceed with the following RF adjustments.						
5	Same as Step 3	108.5 MC Unmod.	Same as Step 1	Same as Step 1	L,N, for max.	
6	Same as Step 3	90 MC Unmod.	90 MC	Same as Step 1	K,M for max.	Rock Gen. Freq. slightly when making adjustment K.
7	Repeat Steps 3 and 4.					

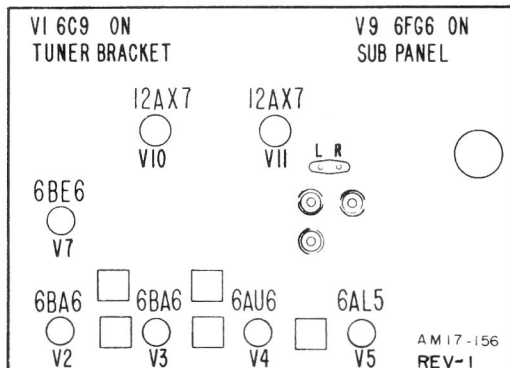


Fig. 7 Tube Layout J101X

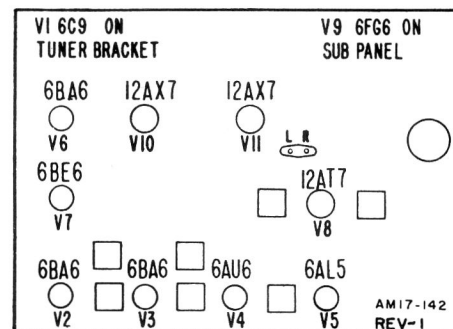


Fig. 8 Tube Layout J103X Tuner and Amplifier Chassis