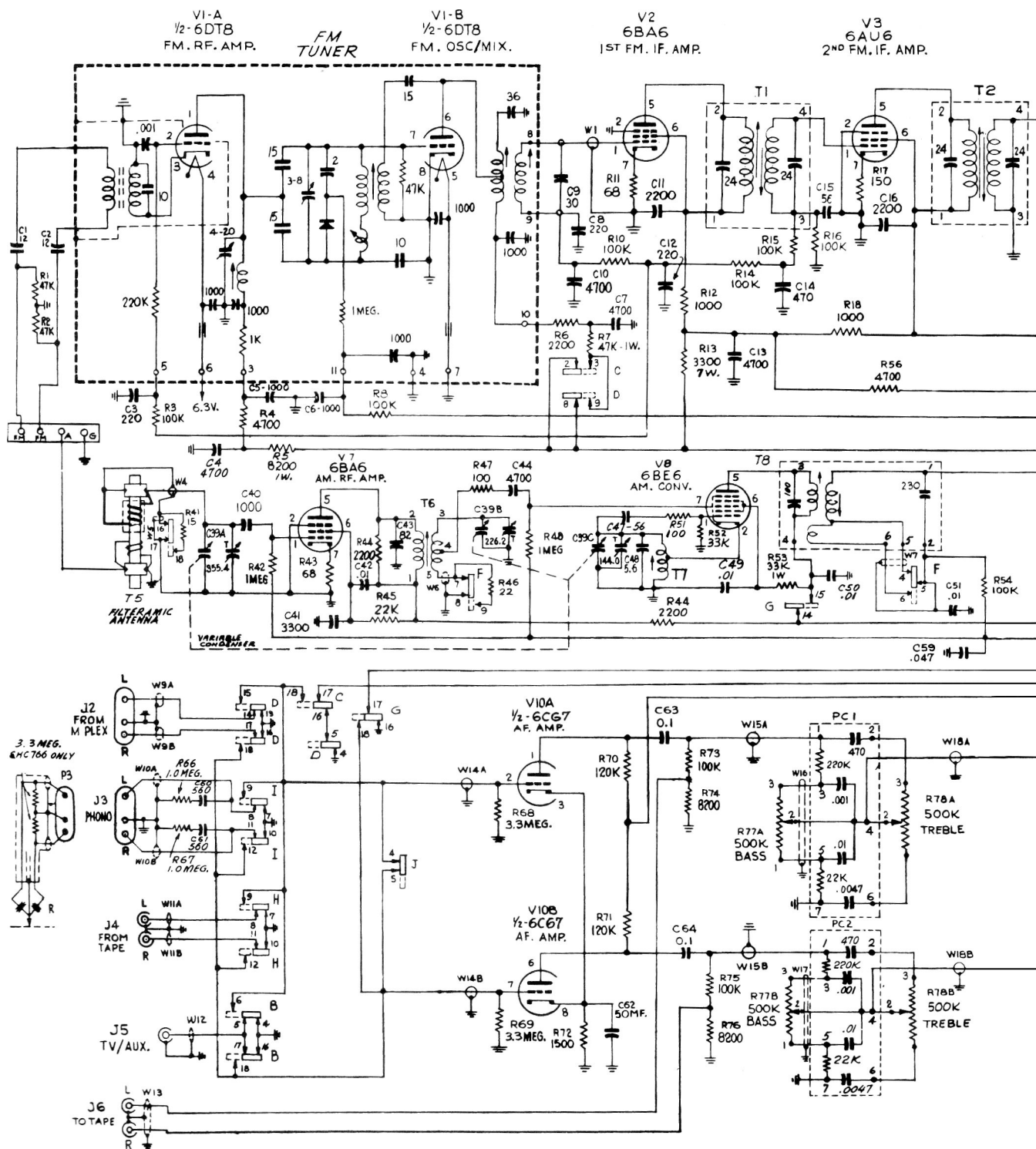
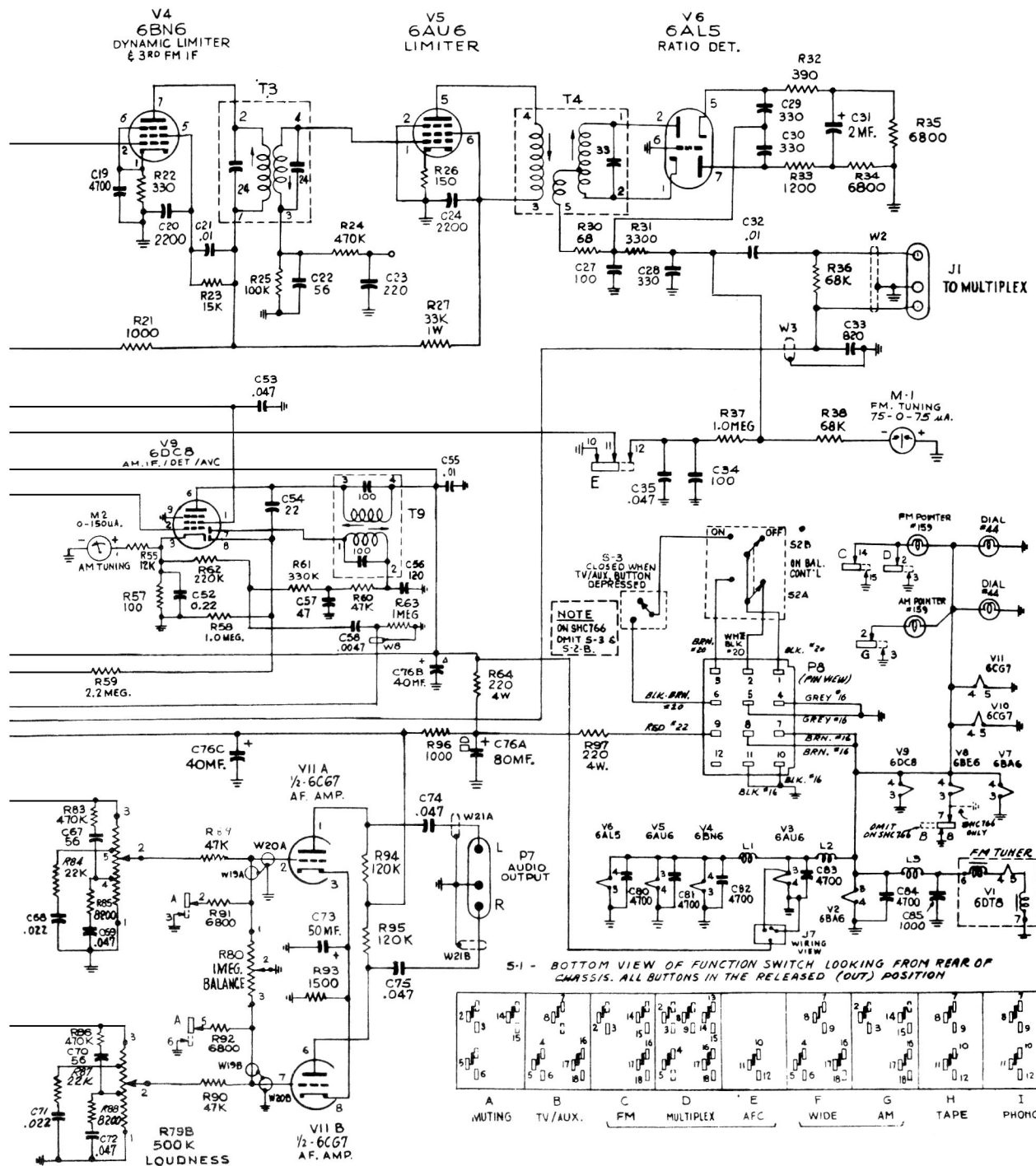
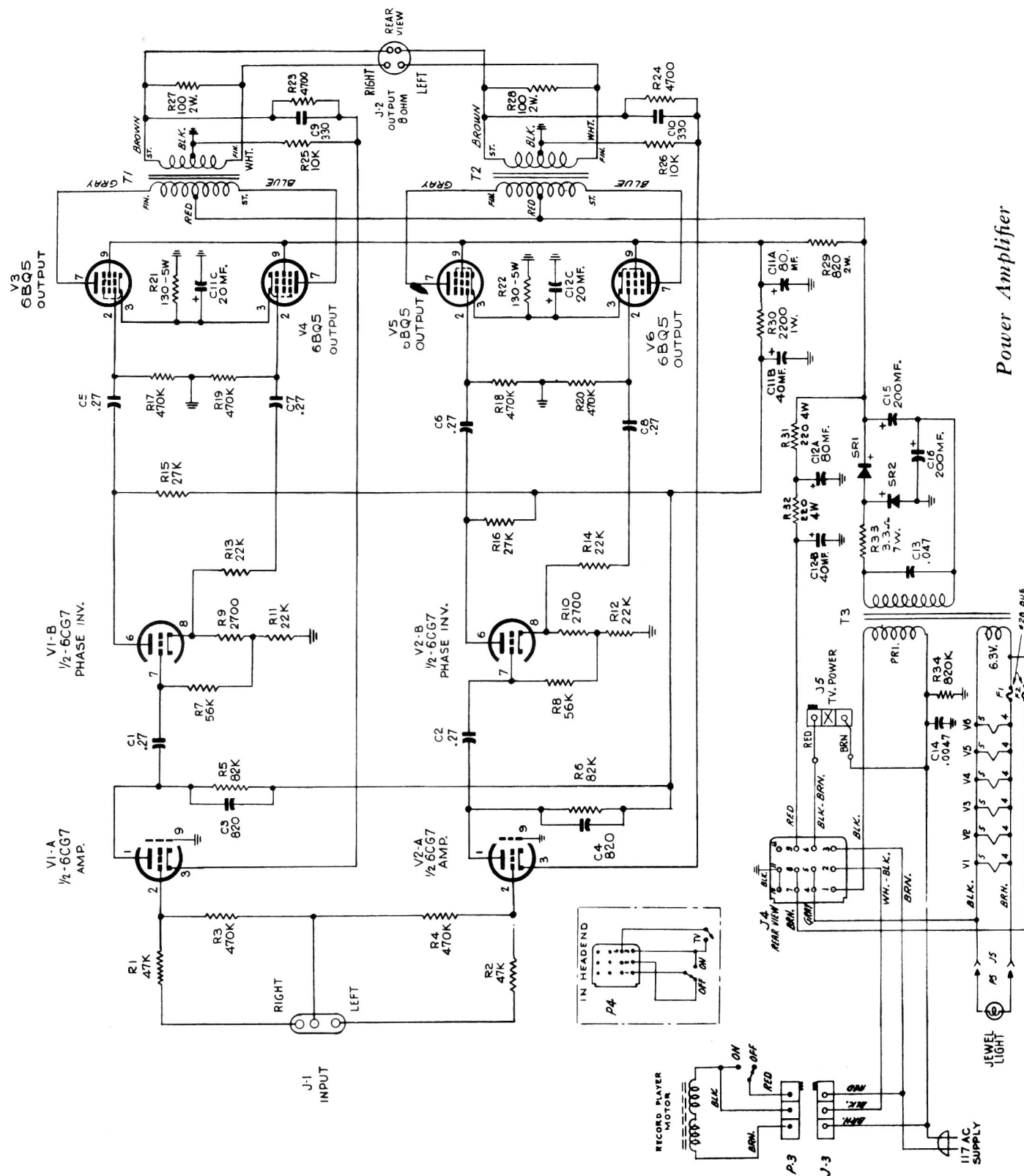
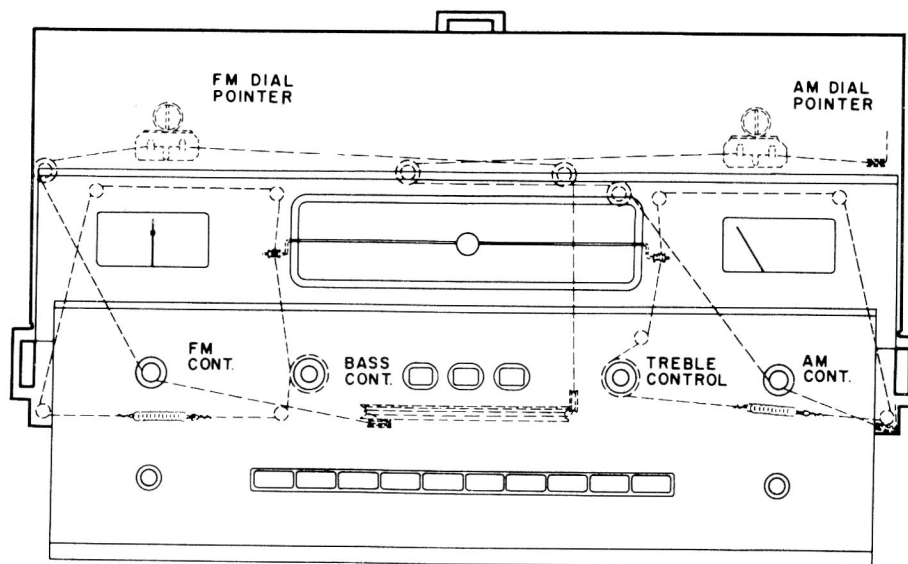




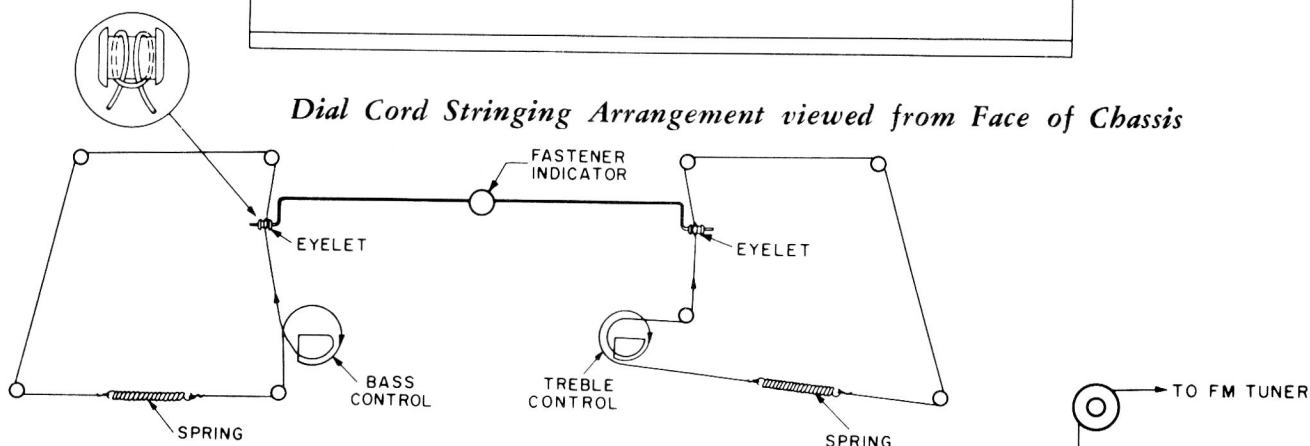


AM-FM Tuner

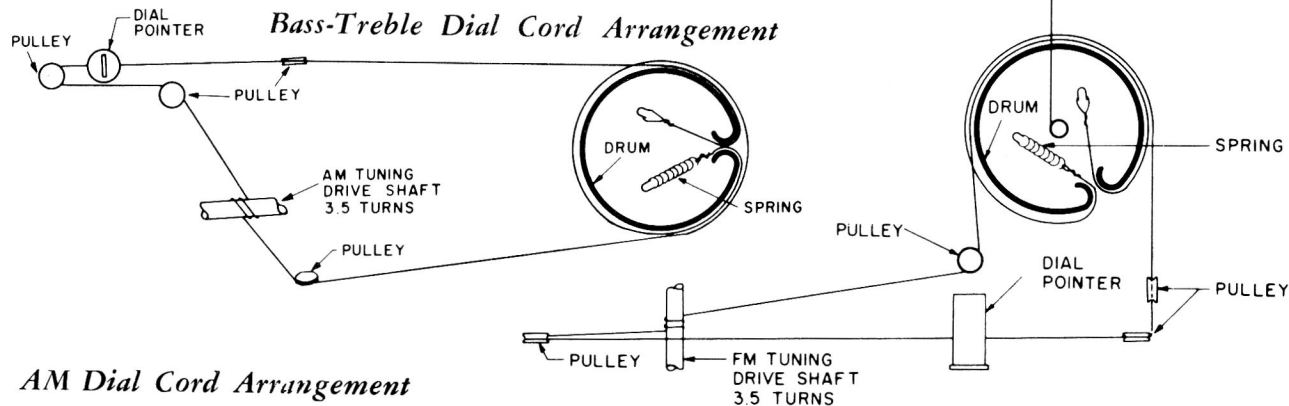




Dial Cord Stringing Arrangement viewed from Face of Chassis



Bass-Treble Dial Cord Arrangement



AM Dial Cord Arrangement

FM Dial Cord Arrangement

Record changer Garrard Model Type "A"
 Stylus 33-1/3, 45 r.p.m. 78 — Diamond 63-25203
 *63-25636

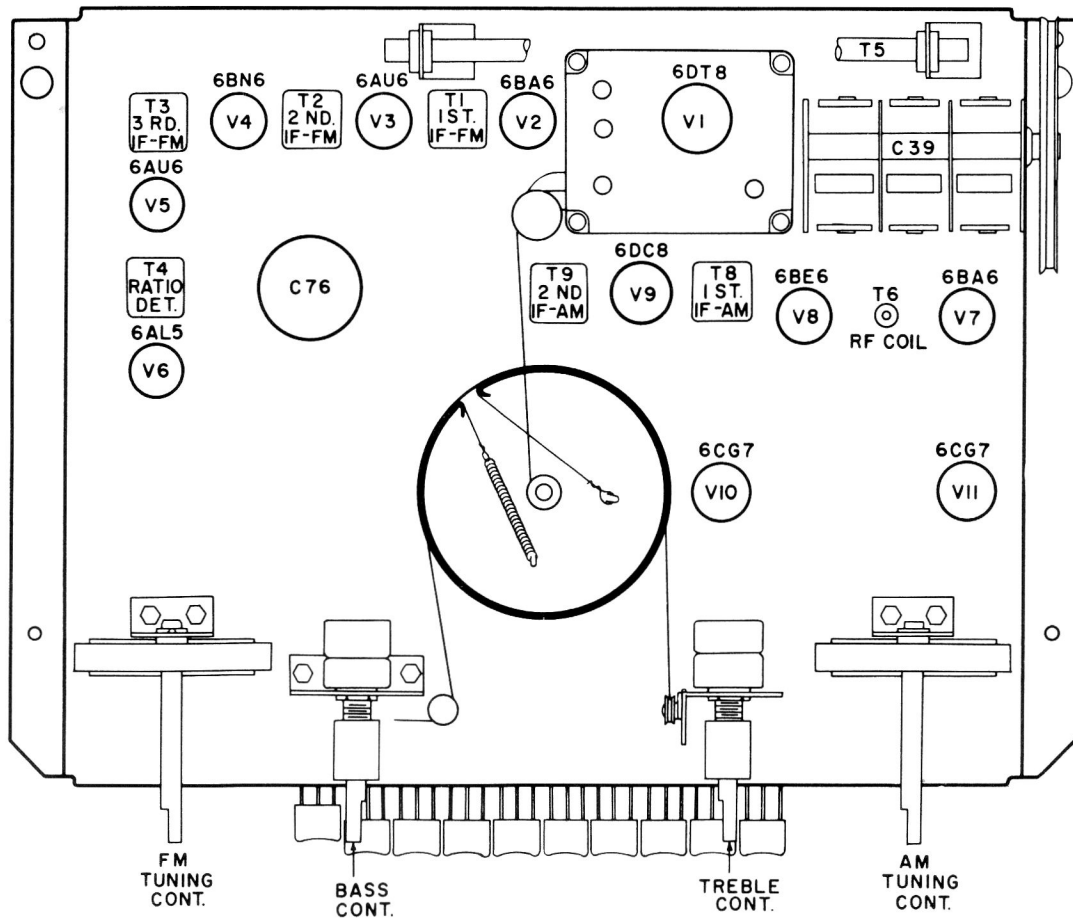
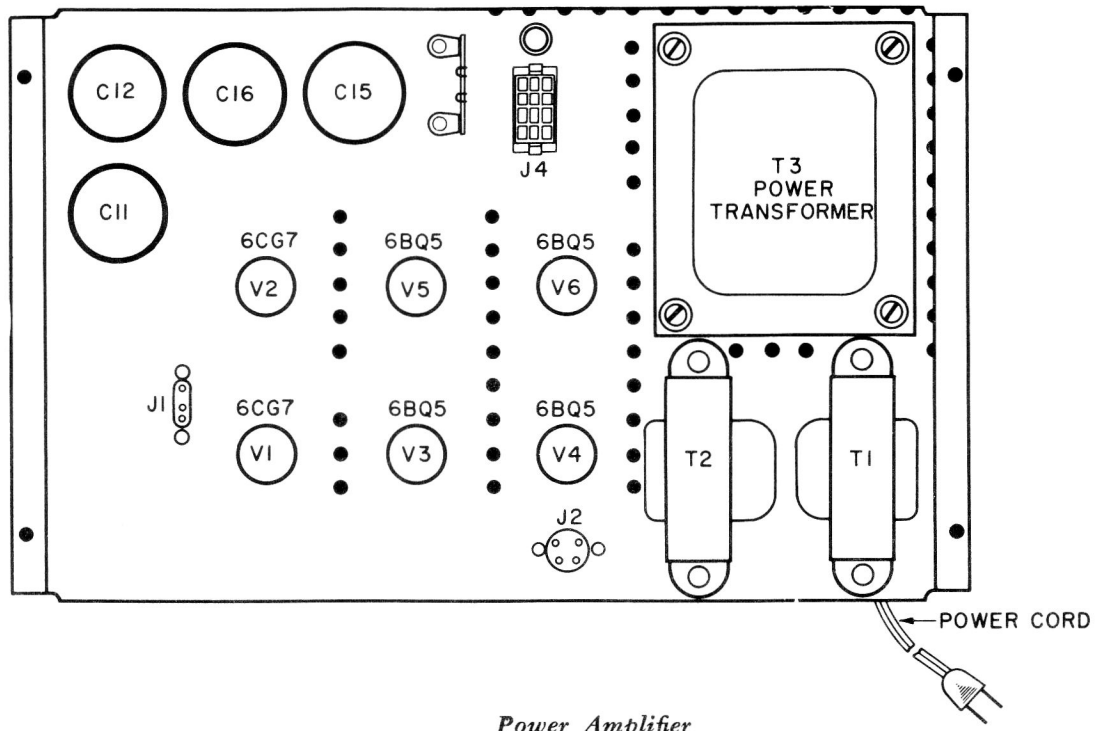


Fig. 1 Chassis Layout
Model SHC 766



Power Amplifier

ALIGNMENT PROCEDURE

ALIGNMENT INDICATORS

An RCA "VoltOhmyst®" or equivalent VTVM is necessary for measuring developed d-c voltage during FM alignment. Connections are specified in the alignment tabulation. An output meter is also necessary to indicate maximum audio output during AM alignment. Connect the output meter across the speaker voice coil. The RCA "VoltOhmyst®" can also be used as an AM alignment indicator, either to measure audio output or to measure AVC voltage. When audio output is being measured, the volume control should be turned to maximum. Adjust tone control to mid-position.

SIGNAL GENERATOR

For all alignment operations, connect the low side of the signal generator to the receiver chassis, close to the point of signal injection. If output measurement is used for AM alignment the signal generator output should be kept as low as possible to avoid AVC action.

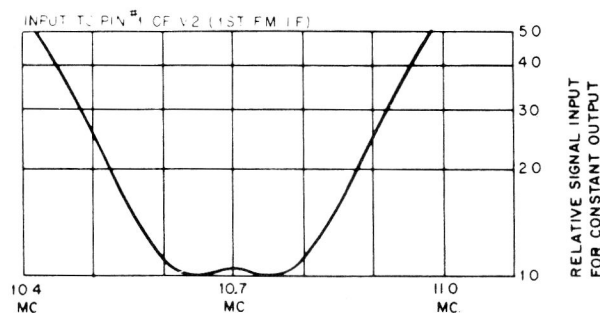
AM ALIGNMENT

Turn SELECTOR switch to AM position, and turn LOUDNESS control to maximum. Connect output meter across voice coil of speaker or to TAPE jack. Keep generator output low to avoid AVC action.

Step	Connect high side of signal generator to—	Set signal gen. to—	Set radio dial to—	Adjust for maximum
1	Pin $\angle 1$ of V7 (6BA6) thru 0.01 capacitor	455 kc (modulated)	Quiet point near 1620 kc	T8 (2nd AM IF) top & bottom
2	Stator of antenna gang (C39A)			T6 (1st AM IF) top & bottom
3	Repeat steps 1 and 2.			
4	Short wire placed near AM antenna to radiate signal	1620 kc (modulated)	1620 kc	Osc. trimmer (C39B-T)
5		1400 kc (modulated)	1400 kc	Ant. trimmer (C39A-T)
6		600 kc (modulated)	600 kc signal (rock gang)	T-7 (osc. coil)
7	Repeat steps 4, 5, and 6.			

ALTERNATE FM ALIGNMENT PROCEDURE

If an FM sweep generator is used for FM alignment, adjust for 10.7 mc, 0.4 mc sweep. Connect oscilloscope across C-28, adjusting top core of T-8 (discriminator transformer) for 10.7 mc crossover, and bottom core of T-8 for balanced peaks. Peak separation should be approximately 330 kc. When aligning the other FM tuned circuits, connect oscilloscope lead across C-23. Follow alignment table sequence, adjusting for maximum gain and symmetrical curves.



FM IF Transformer Response

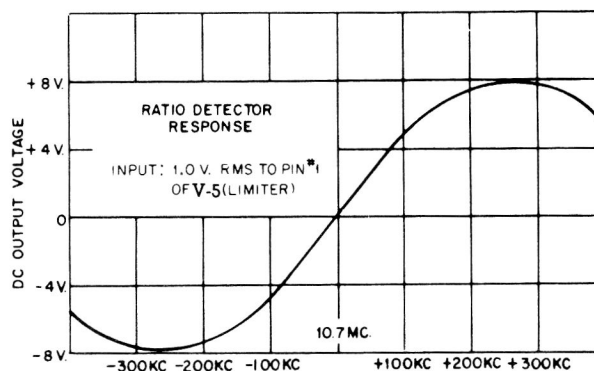
FM ALIGNMENT

Set PUSHBUTTON in FM position, turn LOUDNESS control to maximum, and set AFC to OFF.

Step	Connect high side of signal generator to—	Set signal gen. to—*	Set radio dial to—	Adjust for maximum
1	Pin #1 of V-5 (6AU6) thru 0.01 mf capacitor	Connect "VoltOhmyst®" across C27		
2		10.7 mc	Quiet point on dial near 108 mc	T-4 top for ZERO voltage (cross-over)
3		Connect "VoltOhmyst®" across R-34.		
4		10.7 mc	Quiet point on dial near 108 mc	T-4 bottom
5		Repeat steps 2 and 4.		
6	Pin #2 of V-4 (6BN6)	10.7 mc	Quiet point on dial	T-3 top T2 top
7	Pin #1 of V-3 thru 4700 mmf ceramic cap.			T1 top & bottom†
8				T102 primary†
9				T102 secondary†
10	Antenna terminal board (thru matching network if required)	Repeat steps 6, 7, 8, and 9.		
11		Connect output meter across voice coil of speaker.		
12		108.5 mc, 400 cycle mod.	108.5 mc	FM tuner string drive collar
13		87.5 mc, 400 cycle mod.	87.5 mc	C112 (osc. trimmer)
14		95 mc, 400 cycle mod.	95 mc (rock dial)	C107 (RF trimmer)
15		Repeat steps 12, 13, and 14.		

* Adjust output level of signal generator to provide approximately 1 volt indication on "VoltOhmyst®."

† Alternate loading may be required for accurate peaking; the winding not being peaked should be loaded with resistor of 270 ohms in Steps 7, 8, and 9.



Ratio Detector Response