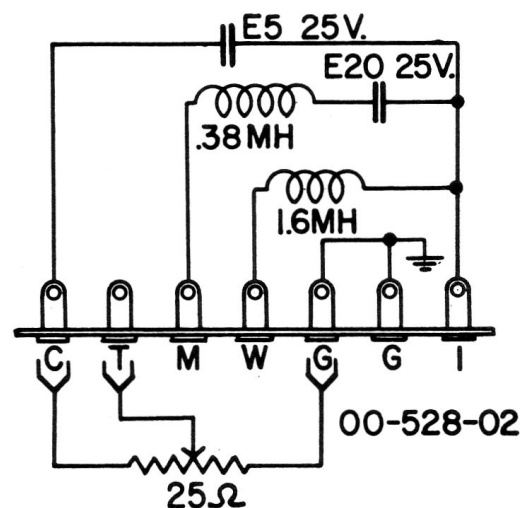
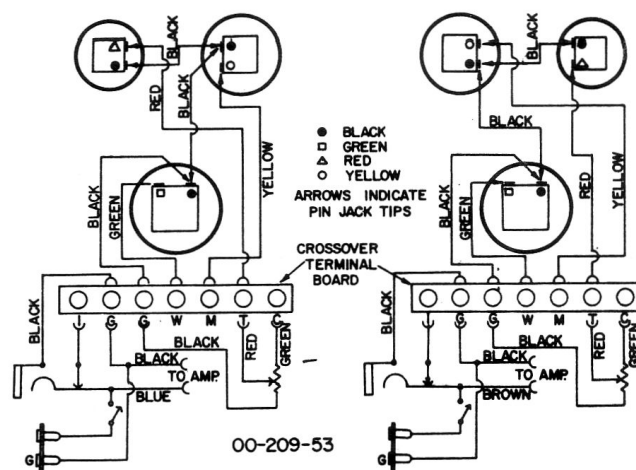
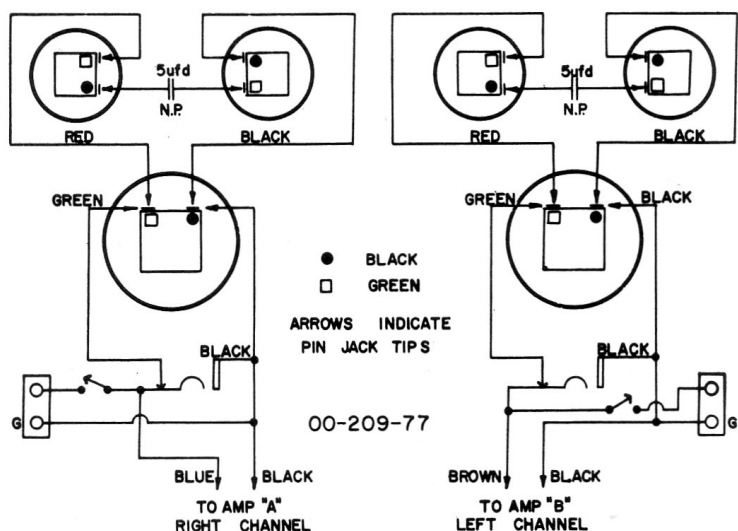
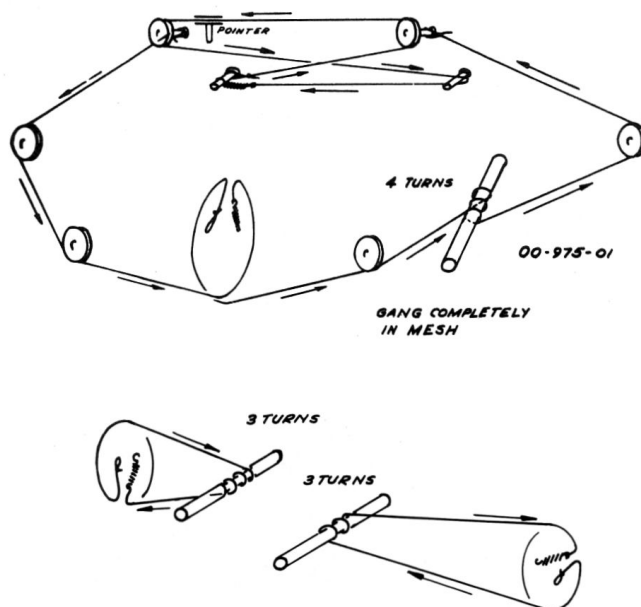
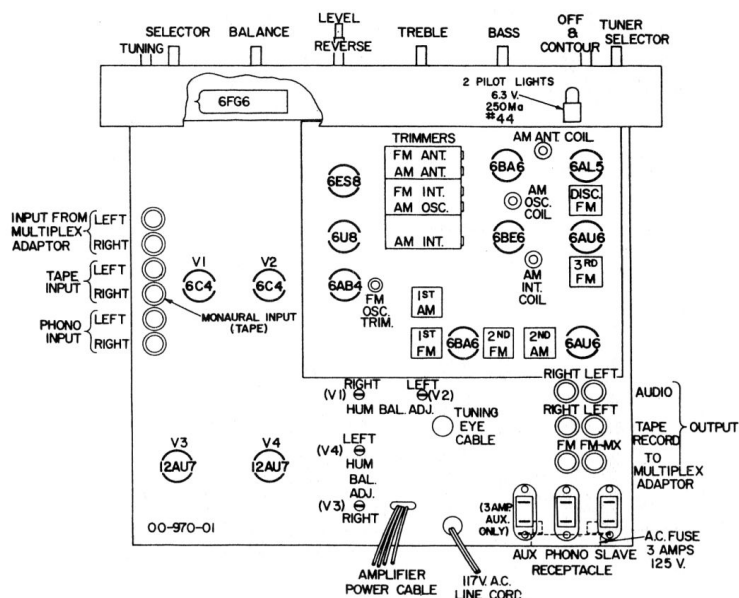


Speaker Connections, Hum Balance, Dial Cord Stringing & Chassis Layout.

It may be found necessary to adjust the Hum Balance controls for minimum hum reproduction when the 12AU7 and 12AX7 tubes on the pre-amp platter are replaced. Set the Bass control full up (extreme clockwise position), Treble control flat, Level and Contour full up, Selector Switch on Tape Stereo. Adjust R65 and R66 (V2 and V4) for minimum hum. Switch to Phono Stereo on Selector Switch and R.I.A.A. on Equalizer Switch and adjust R63 and R64 (V1 and V3) for minimum hum.

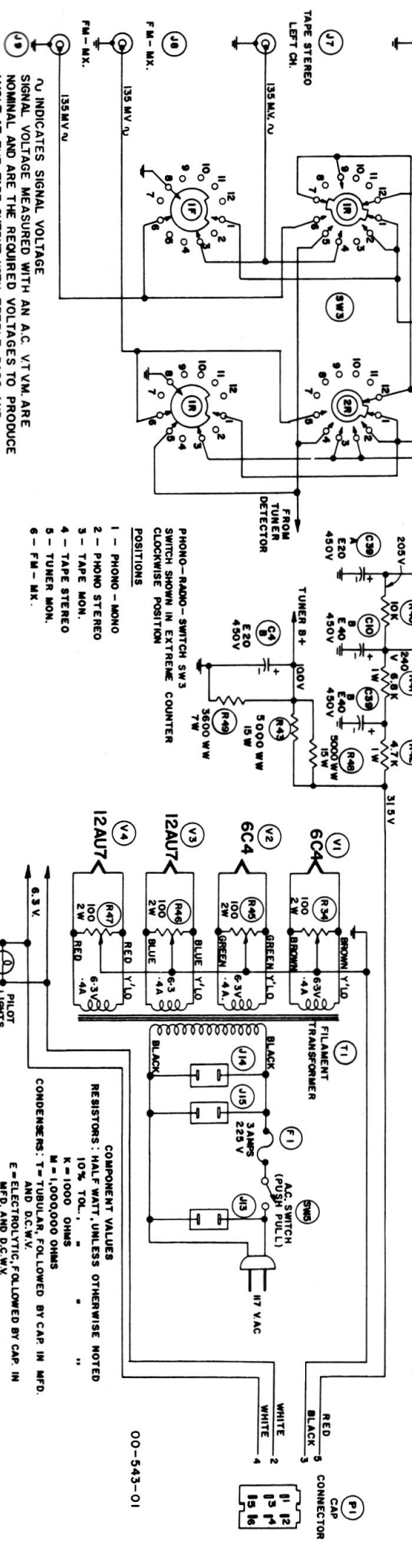
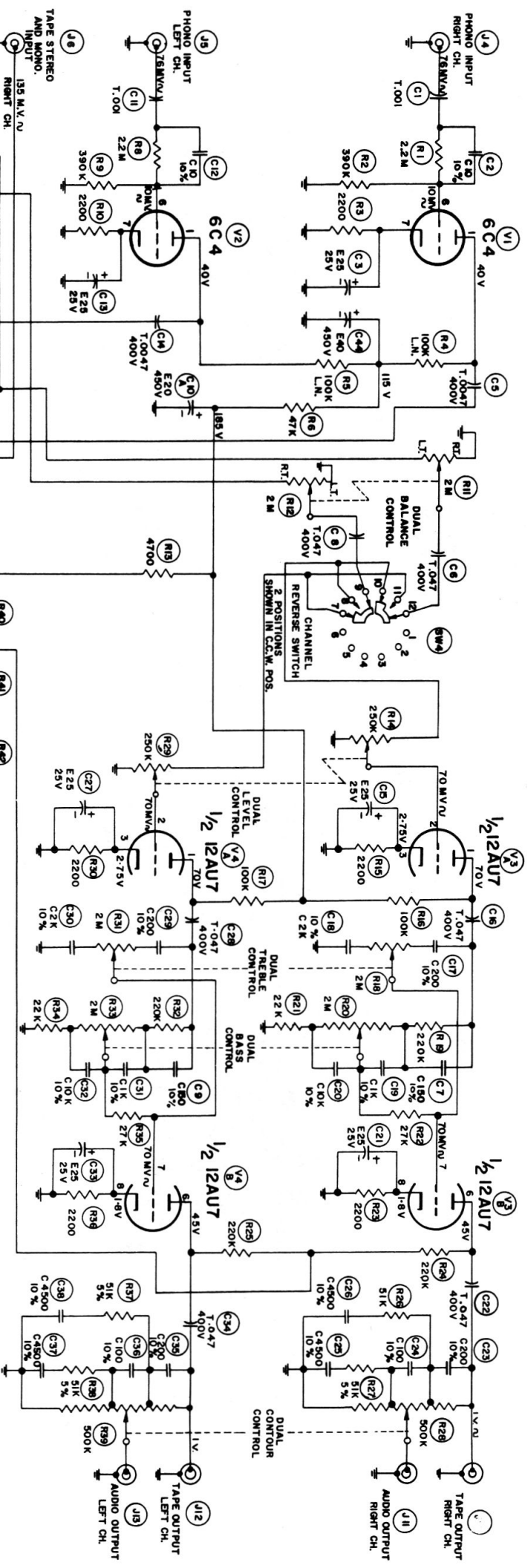


STRINGING DETAIL



00-976-01
DETAIL SHOWN WITH CONTROLS IN EXTREME
COUNTER-CLOCKWISE POSITION.

PREAMPLIFIER SCHEMATIC



0V INDICATES SIGNAL VOLTAGE
SIGNAL VOLTAGE MEASURED WITH AN A.C. V.T.M. ARE
NOMINAL AND ARE THE REQUIRED VOLTAGES TO PRODUCE
1VOLT AT THE TAPE OUTPUT WITH TREBLE, BASS AND
BALANCE CONTROLS IN FLAT POSITION. CONTOUR AND
LEVEL CONTROL FULL C.W.

- PHONO-RADIO-SWITCH SW 3
SWITCH SHOWN IN EXTREME COUNTER
CLOCKWISE POSITION
- POSITIONS
- 1 - PHONO-MONO
 - 2 - PHONO STEREO
 - 3 - TAPE MON.
 - 4 - TAPE STEREO
 - 5 - TUNER STEREO
 - 6 - FM-MX.

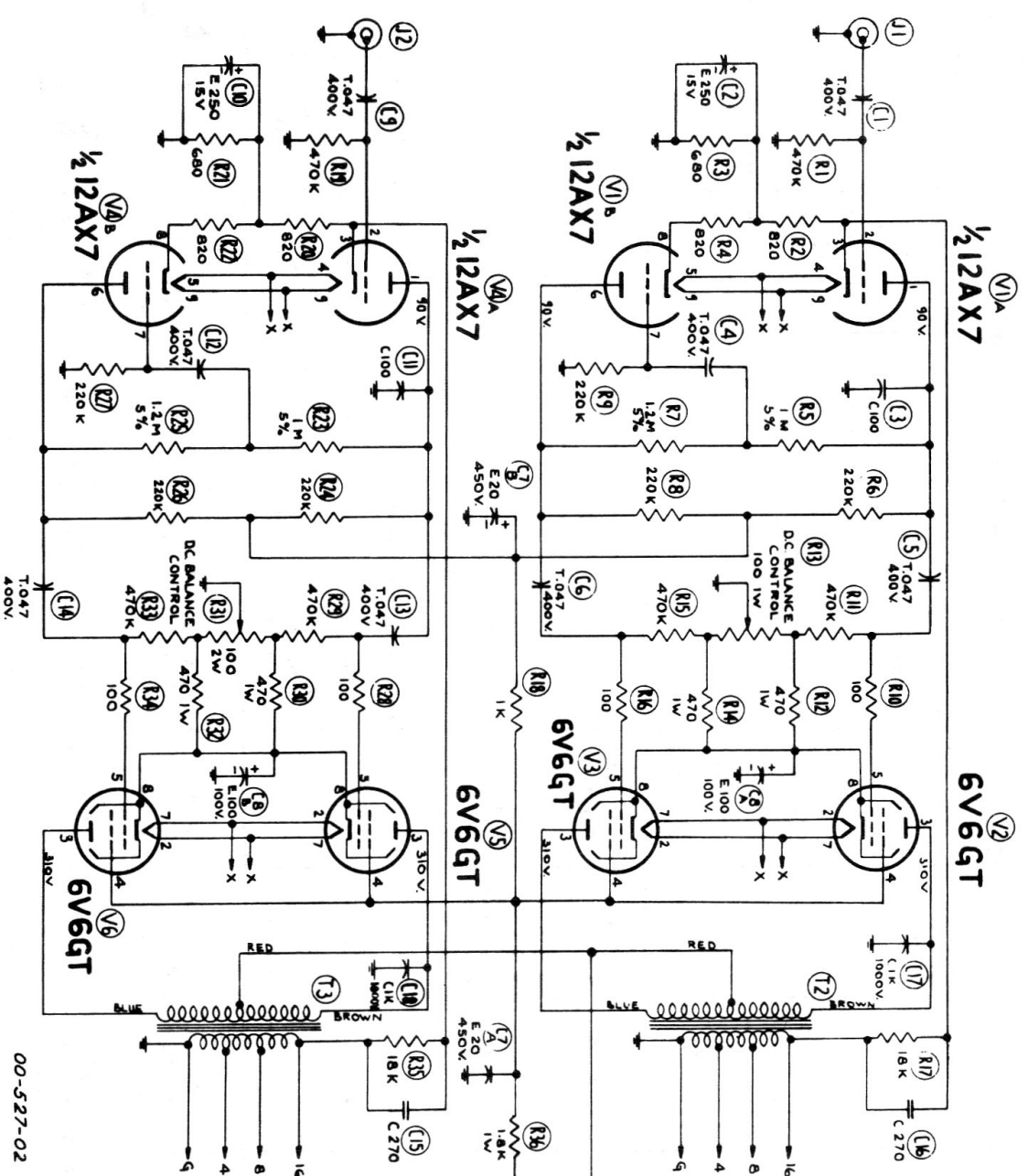
COMPONENT VALUES
RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED
10% TOL. -
K=1000 OHMS
M=1,000,000 OHMS
CONDENSERS: T=TUBULAR, FOLLOWED BY CAP. IN MFD.
AND D.C.W.V.
E-ELECTROLYTIC, FOLLOWED BY CAP. IN
MFD. AND D.C.W.V.
C-CERAMIC, FOLLOWED BY CAP. IN MFD
AND TOLERANCE IF CRITICAL

ALL D.C. VOLTAGES MEASURED TO GROUND WITH A
20,000 OHM/VOLT METER WITH NO SIGNAL APPLIED

00-543-01

Electrohome Cathedral & Cosmopolitan

Electrohome Cathedral & Cosmopolitan

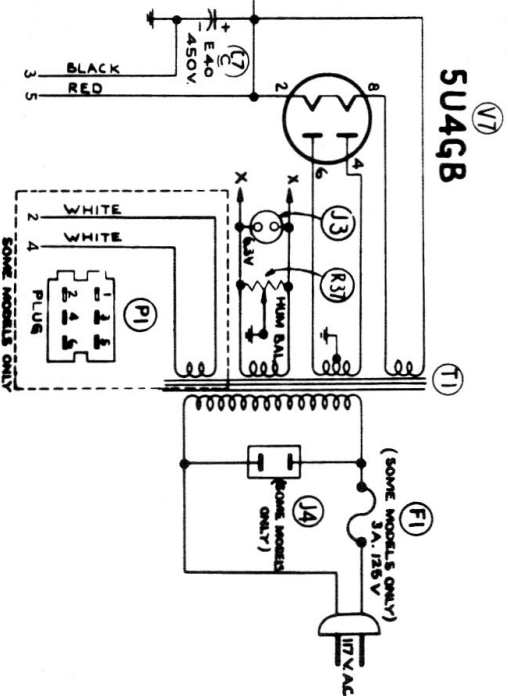


COMPONENT VALUES

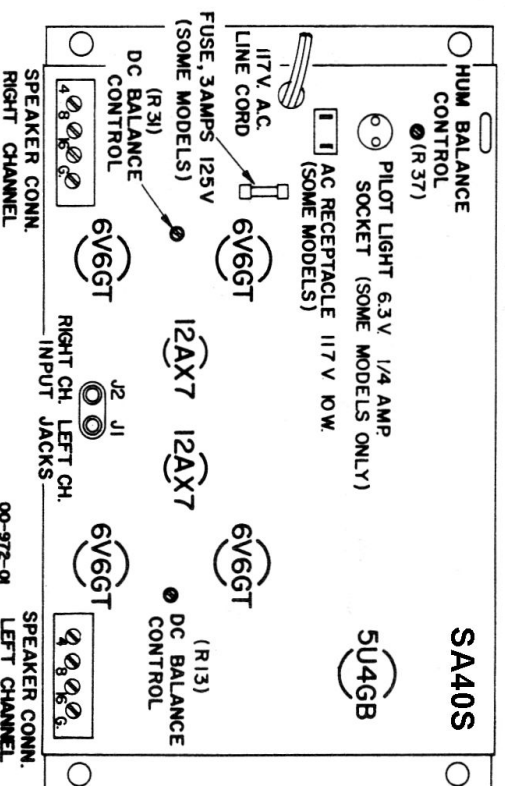
RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED.
10% TOLERANCE, UNLESS OTHERWISE NOTED.
K = 1000 OHMS.
M = 1000,000 OHMS.

CONDENSERS:

T = TUBULAR, FOLLOWED BY CAPACITY IN MFD & DCV.
E = ELECTROLYTIC, " " " " IN MFD & DCV.
C = CERAMIC, " " " " IN MFD & VOL. IF CRITICAL.
ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER AT 117 LINE VOLTAGE.

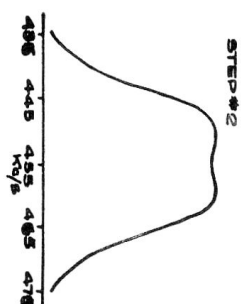


SLAVE AMPLIFIER



AM-FM TUNER ALIGNMENT

STEP	DUMMY ANTENNA	SIGNAL APPLIED TO	FREQ	MODULATION	BAND-SWITCH SETTING	DIAL POINTER SETTING	INDICATING METER	ADJUST	REMARKS	NOMINAL SENSITIVITY
1	.05 ufd	PIN # 7 V 9 (6 BE 6)	455 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	600 Kc/S	AC-VTVM AUDIO OUTPUT	T9 G T10 1st & 2nd AM IF	ADJUST FOR MAXIMUM OUTPUT	300 uv FOR 20 mv OUTPUT
2	CHANGE BAND SWITCH SETTING TO POSITION #3-AM-WIDE BAND (AM-HI FI). TUNE SIGNAL GEN. ACROSS 440-470 Kc/S FREQ. RANGE AND CHECK FOR APPROXIMATE RESPONSE CURVE AS SHOWN. THIS TEST CAN ALSO BE MADE WITH A PROPER SWEEP GEN. G SCOPE.									
3	200 ufd	AM ANT. TERM. STRIP #1	600 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	600 Kc/S	AC-VTVM AUDIO OUTPUT	T6, T7 AND T8	CONNECT FOR LONG WIRE ANT. ADJUST FOR MAX. OUTPUT	2 uv FOR 20 mv OUTPUT
4	200 ufd	AM ANT. TERM. STRIP #1	1460 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	1460 Kc/S	AC-VTVM AUDIO OUTPUT	C1D, C1E & C1F TRIMMERS	CONNECT FOR LONG WIRE ANT. ADJUST FOR MAX. OUTPUT	2 uv FOR 20 mv OUTPUT
5	REPEAT STEPS 3 & 4 AND CHECK FOR TRACKING AT 950 Kc/S									
6		PIN #2 V2 (6U8) FM MIX OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM ACROSS C20 & R11	T1, T2 & T3 1st, 2nd & 3rd FM IF	ADJUST FOR MAXIMUM METER DEFLECTION	
7		V2 (6U8) FM MIX-OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM TO FM OUTPUT	T4 FM DISCRIM. TRANS.	ADJUST PRI. FOR MAX. DEFLECTION WITH SEC. SLIGHTLY DETUNED	
8		V2 (6U8) FM MIX-OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM TO FM OUTPUT	T4 FM DISCRIM. TRANS.	ADJUST SECONDARY (TOPSLUG) FOR ZERO VOLTAGE	
9	*	FM ANT. TERM. STRIP	90 Mc/S	400 CPS FM 22.5 Kc/S DEVIATION	#4 FM	90 Mc/S	AC-VTVM AUDIO OUTPUT	EXPAND OR COMPRESS L7,8,9	ADJUST FOR MAXIMUM OUTPUT	2.5 uv FOR 20 db QUIETING
10	*	FM ANT. TERM. STRIP	106 Mc/S	400 CPS FM 22.5 Kc/S DEVIATION	#4 FM	106 Mc/S	AC-VTVM AUDIO OUTPUT	C1A, C1B & C1C TRIMMERS	ADJUST FOR MAXIMUM OUTPUT	2.5 uv FOR 20 db QUIETING
11	REPEAT STEPS 9 & 10 UNTIL OUTPUT DROPS AT LEAST 20db WITH INDICATED INPUT, WHEN FM MODULATION IS TURNED OFF									
12	NONE	INPUT SIDE OF 10Kc/S FILT.	1 Kc/S	NONE	#1 AM SHARP 10 Kc/S FILT. (AM. DIST)	REMOVE 6AUG V5	AC-VTVM AUDIO OUTPUT	ADJUST 1 Kc/S LEVEL FOR .5 VOLTS ON OUTPUT METER AND CHANGE GEN. TO 10 Kc/S	ATTENUATION 40 db MIN	



* 120 OHMS IN HOT LEAD AND 150 OHMS IN COLD LEAD FROM SIG. GENERATOR.