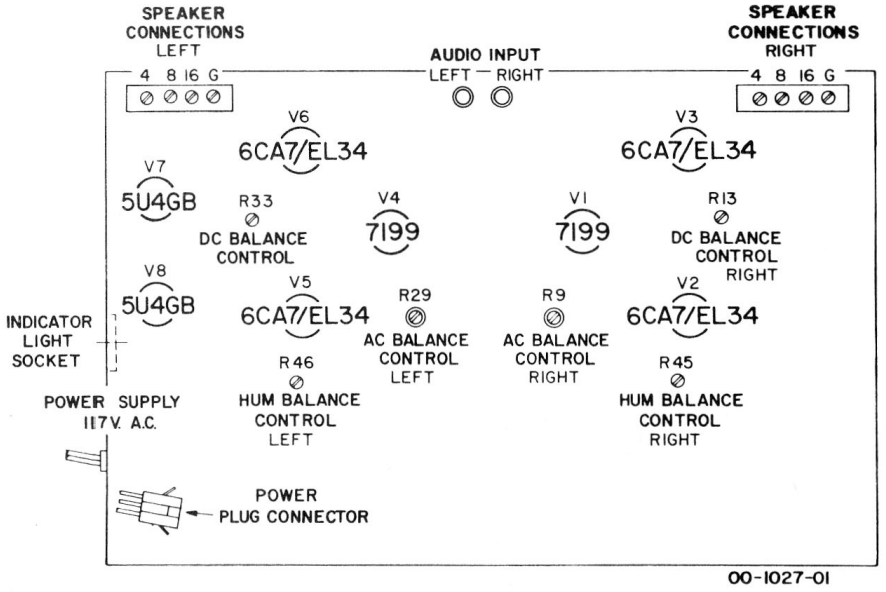
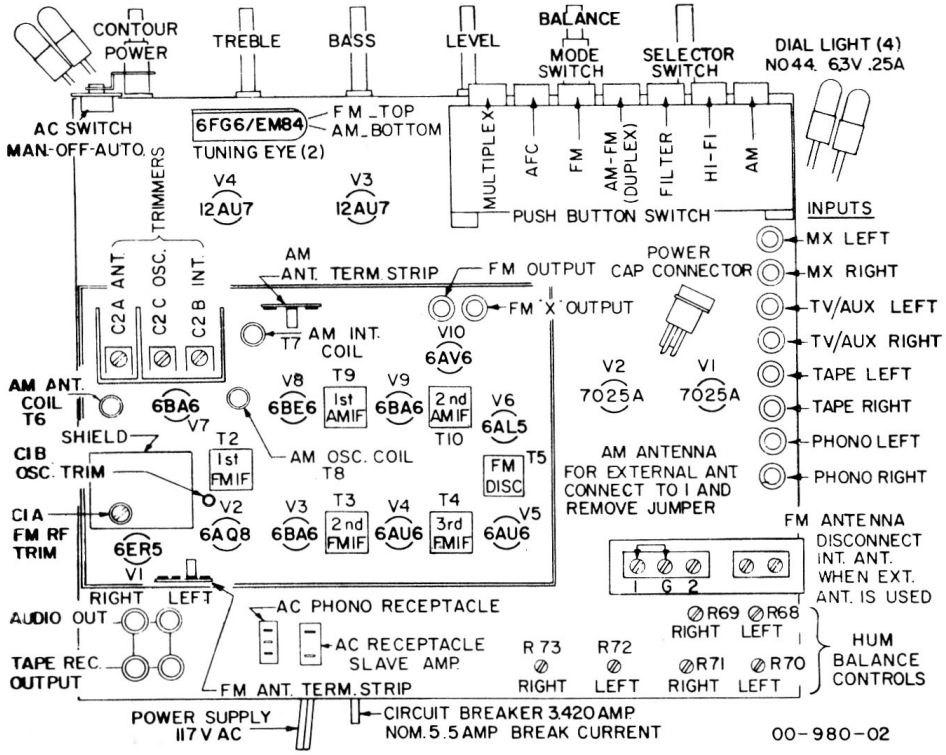
CHASSIS LAYOUT

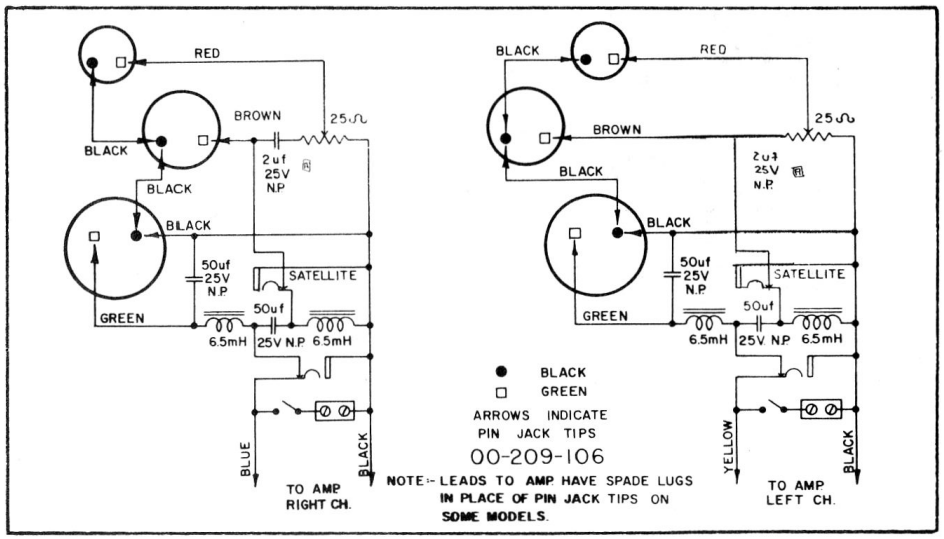
SLAVE AMPLIFIER



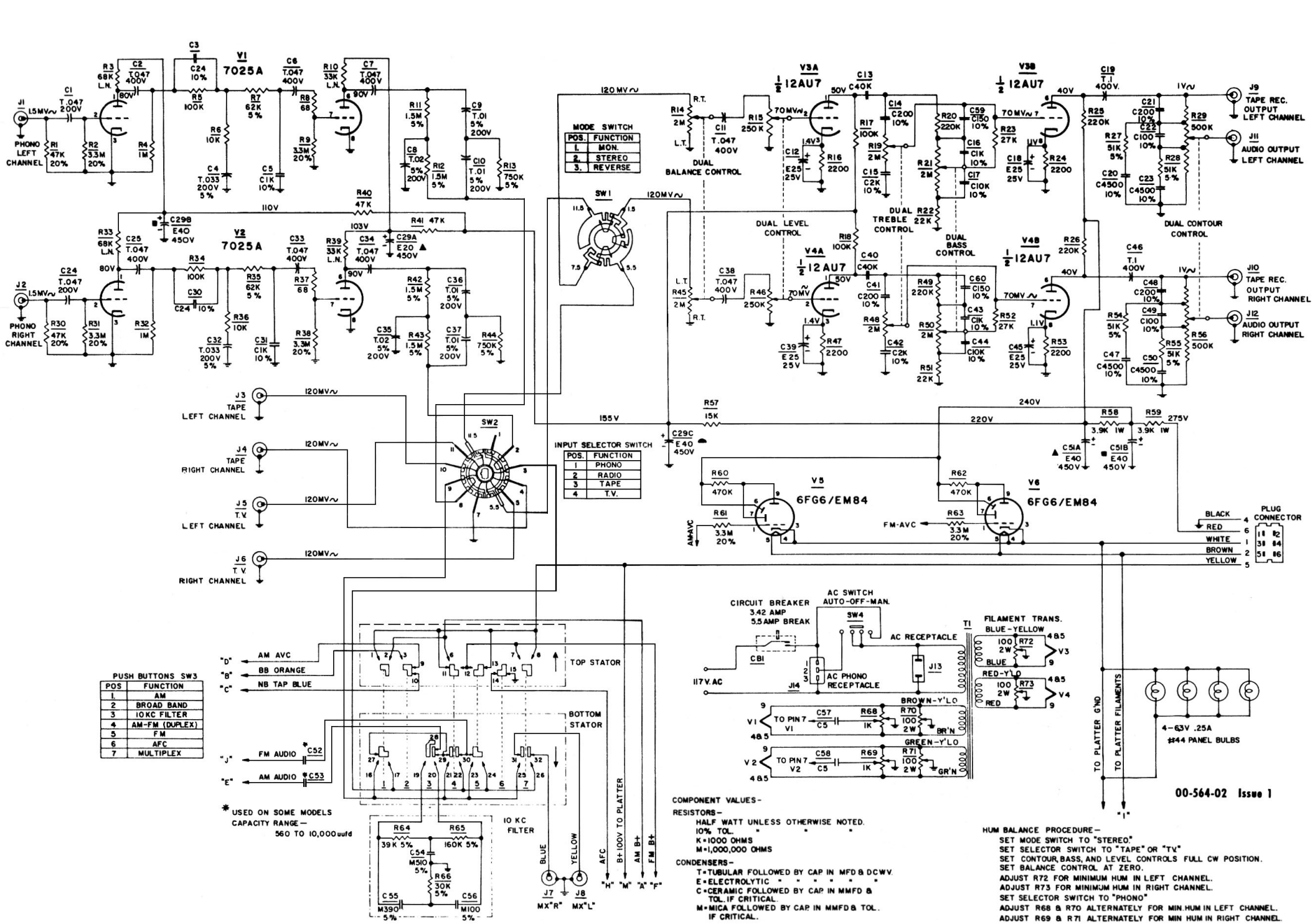
PREAMP - TUNER



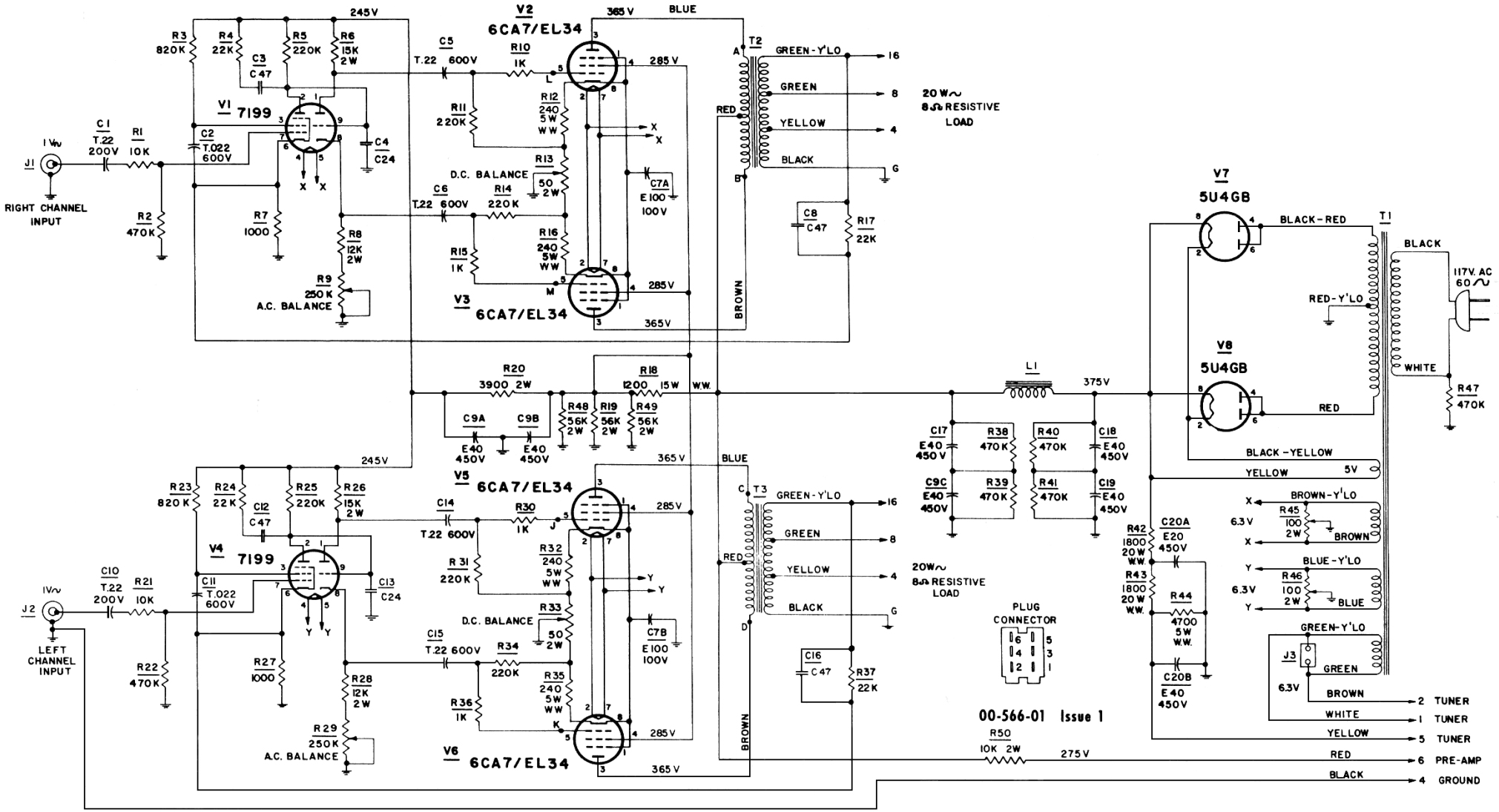
SPEAKER CONNECTIONS AND CROSSOVER NETWORK



Electrohome Monterrey & Versailles Chassis Layouts & Speaker Diagram



Electrohome Preamplifier Schematic



COMPONENT VALUES –

RESISTORS –

HALF WATT UNLESS OTHERWISE NOTED.
10% TOLERANCE UNLESS OTHERWISE NOTED.
K = 1000 OHMS.
M = 1,000,000 OHMS.

CONDENSERS –

T = TUBULAR, FOLLOWED BY CAPACITY IN MFD AND D.C.W.V.
E = ELECTROLYTIC, FOLLOWED BY CAPACITY IN MFD. AND D.C.W.V.
C = CERAMIC, FOLLOWED BY CAPACITY IN MMFD AND D.C.W.V. AND TOLERANCE IF CRITICAL.

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

∿ INDICATES SIGNAL VOLTAGE.

SIGNAL VOLTAGE MEASURED WITH AN AC V.T.V.M. ARE NOMINAL AND ARE THE REQUIRED VOLTAGES TO PRODUCE 20W OR 20V AT THE OUTPUT USING A 16Ω RESISTIVE LOAD.

DC BALANCE PROCEDURE –

1. CONNECT A DC V.T.V.M. ACROSS THE POINTS "A" & "B" AND ADJUST R13 FOR A MINIMUM READING.
2. CONNECT A DC V.T.V.M. ACROSS THE POINTS "C" & "D" AND ADJUST R33 FOR A MINIMUM READING.

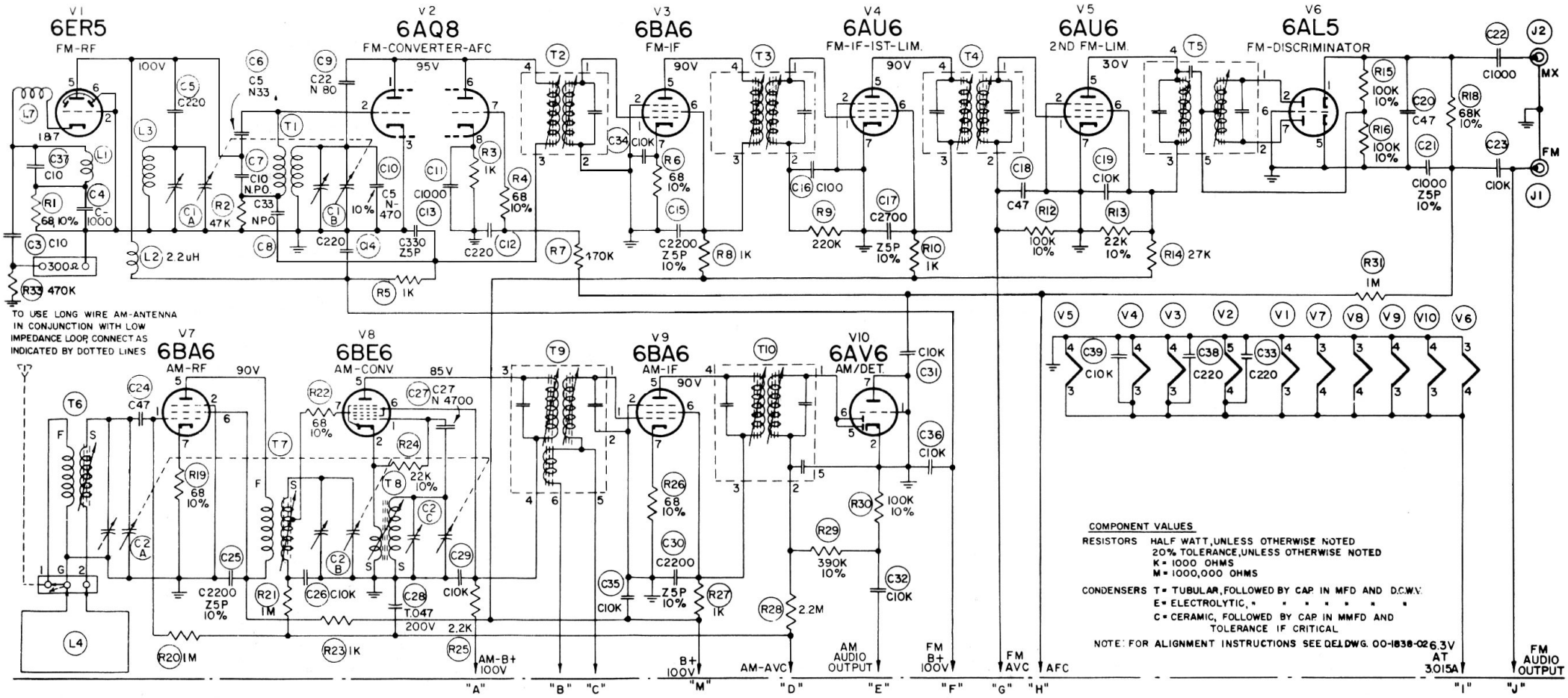
AC BALANCE PROCEDURE –

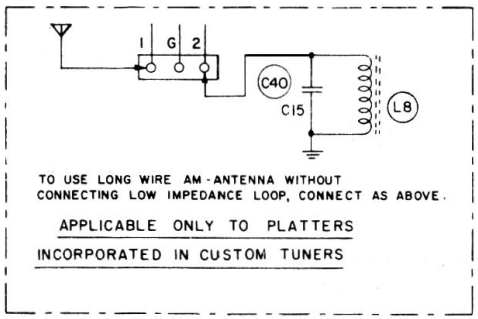
1. CONNECT AUDIO OSCILLATOR TO INPUT OF RIGHT AMPLIFIER AND ADJUST FOR FULL UNDISTORTED OUTPUT.
2. CONNECT ONE AC V.T.V.M. ACROSS POINTS "L" & GROUND. CONNECT SECOND AC V.T.V.M. ACROSS POINTS "M" & GROUND.
3. ADJUST R9 FOR EQUAL READINGS ON THE TWO V.T.V.M.'S
4. SIMILAR ADJUSTMENT IS MADE ON LEFT AMPLIFIER BY CONNECTING THE AC V.T.V.M.'S ACROSS POINTS "J" & GROUND, "K" & GROUND RESPECTIVELY, AND ADJUST R29 FOR EQUAL READINGS.

NOTE –

IF A HARMONIC METER IS AVAILABLE R9 AND R29 CAN BE ADJUSTED TO GIVE MINIMUM IM DISTORTION IN EACH AMPLIFIER. THIS PROCEDURE IS MORE DESIRABLE THAN ADJUSTING FOR EQUAL VOLTAGES AT THE OUTPUT TUBE GRIDS AS DESCRIBED ABOVE. ADJUST AT 15W LEVEL AND 1Kc INPUT.

SLAVE AMPLIFIER SCHEMATIC - MONTERREY, VERSAILLES





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Electrohome Monterrey & Versailles

AM-FM DUPLEX TUNER SCHEMATIC

Electrohome Monterrey & Versailles

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 uf	Pin No. 1 V9 6BA6	455 Kc/s	400 c.p.s. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "E"	T10 2nd. AM-IF	Adjust for maximum output.	4000 uv for 20 mv output
2	.05 uf	Pin No. 7 V8 6BE6	455 Kc/s	400 c.p.s. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "E"	T9 1st. AM-IF	Adjust for maximum output.	300 uv for 20 mv output
3	Change Band Switch to (AM Hi-Fi) Tune Signal Generator across 440-470 Kc/s Frequency Range and check for approx. response curve as shown. This test should preferable be made with a proper sweep generator and scope.									
4	200 uuf	AM Ant. Term. Strip No. 1	600 Kc/s	400 c.p.s. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "E"	T6, T7 and T8	Connect for long wire antenna, adjust for maximum output.	2.5 mv for 20 mv output
5	200 uuf	AM Ant. Term. Strip No. 1	1460 Kc/s	400 c.p.s. Am at 30%	AM	1460 Kc/s	AC-VTVM To Point "E"	C2A, C2B and C2C Trimmers	Connect for long wire antenna, adjust for maximum output.	1.8 mv for 20 mv output
6	Repeat steps 3 and 4, check for band coverage at 535 Kc/s - 1650 Kc/s and for tracking at 950 Kc/s.									
7	-	Pin No. 1 V4 6AU6	10.7 Mc/s	-	FM	Point of no Interference	DC-VTVM To Point "G"	T4 3rd. FM-IF	Adjust for maximum meter deflection.	15000 uv for 1V output
8	-	Pin No. 1 V3 6BA6	10.7 Mc/s	-	FM	Point of no Interference	DC-VTVM To Point "G"	T3 2nd. FM-IF	Adjust for maximum meter deflection.	250 uv for 1V output
9	-	C1A FM Gang	10.7 Mc/s	-	FM	Point of no Interference	DC-VTVM To Point "G"	T2 1st. FM-IF	Adjust for maximum meter deflection.	-
10	-	Pin No. 1 V4 6AU6	10.7 Mc/s	-	FM	Point of no Interference	DC-VTVM to Pin No. 5 of T5	T5 FM Discriminator Primary	Adjust for maximum meter deflection.	10000 uv for 3V output
11	-	Pin No. 1 V4 6AU6	10.7 Mc/s	-	FM AFC	Point of no Interference	DC-VTVM To Point "H"	T5 FM Discriminator Secondary	Adjust for zero voltage.	-
12	270 ohms	FM Ant. Term. Strip	90 Mc/s	400 c.p.s. FM 22.5 Kc/s Deviation	FM	90 Mc/s	AC-VTVM To Point "J"	Expand or compress L3 and T1	Adjust for maximum output.	3 uv for 100 mv output
13	270 ohms	FM Ant. Term. Strip	106 Mc/s	400 c.p.s. FM 22.5 Kc/s Deviation	FM	106 Mc/s	AC-VTVM To Point "J"	C1B and C1A Trimmers	Adjust for maximum output.	2.5 uv for 100 mv output
14	Repeat steps 11 and 12 until output drops at least 20 db. when mod. is turned off.									3.5 uv

NOTE: To achieve more accurate alignment of FM IF's and Discriminator it is preferable to use a proper sweep generator and oscilloscope.