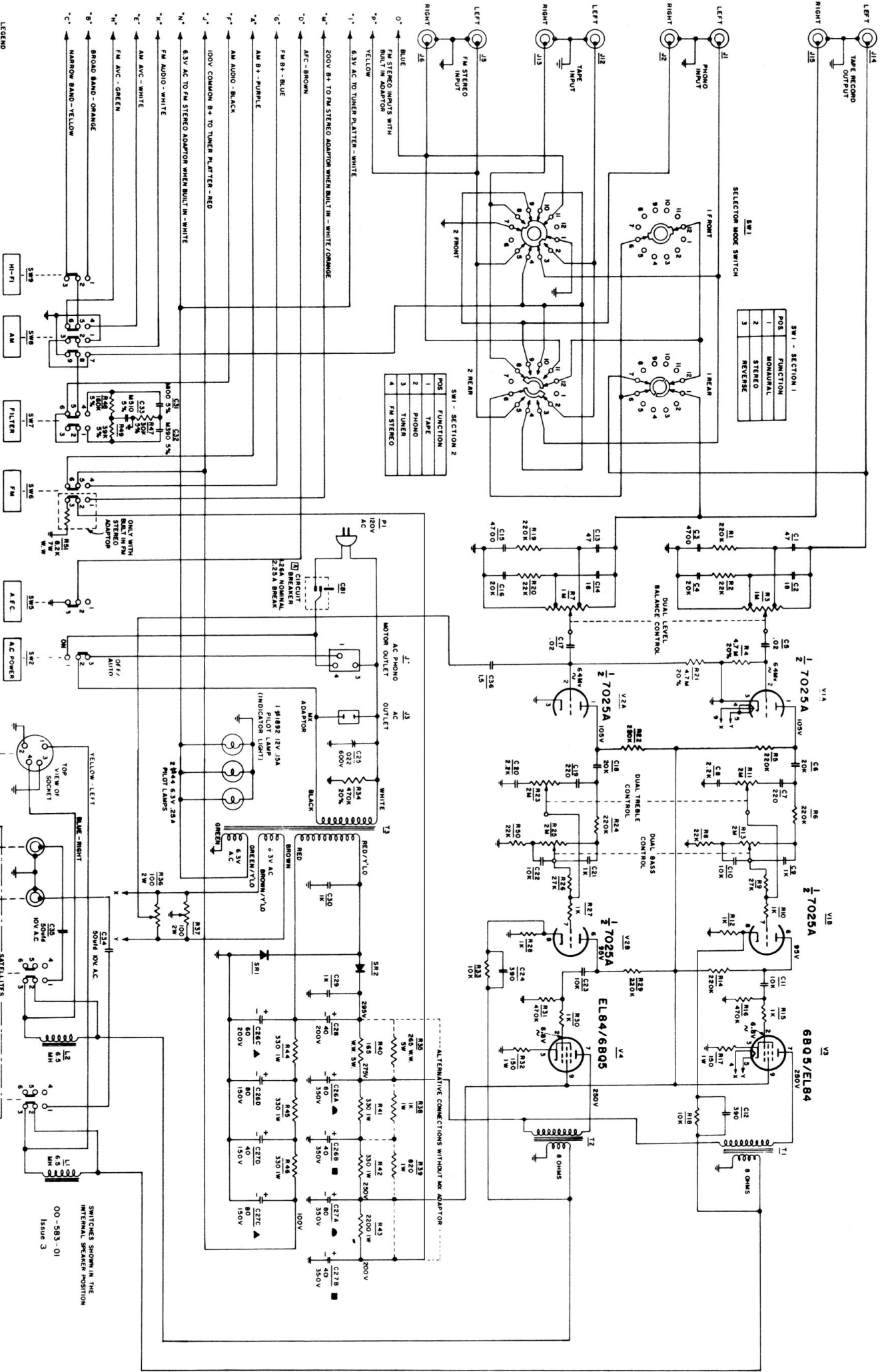




# AMPLIFIER SCHEMATIC - CASTANET MKII & M



SW1 - SECTION 1

POS	FUNCTION
1	NORMAL
2	STEREO
3	REVERSE

SW1 - SECTION 2

POS	FUNCTION
1	TAPE
2	PHONO
3	TUNER
4	FM STEREO

**LEGEND**

RESISTORS  
 HALF WATT UNLESS OTHERWISE NOTED  
 1/2 WATT UNLESS OTHERWISE NOTED  
 1/4 WATT UNLESS OTHERWISE NOTED  
 1/8 WATT UNLESS OTHERWISE NOTED  
 1/1000 M.F. UNLESS OTHERWISE NOTED

**CAPACITORS**

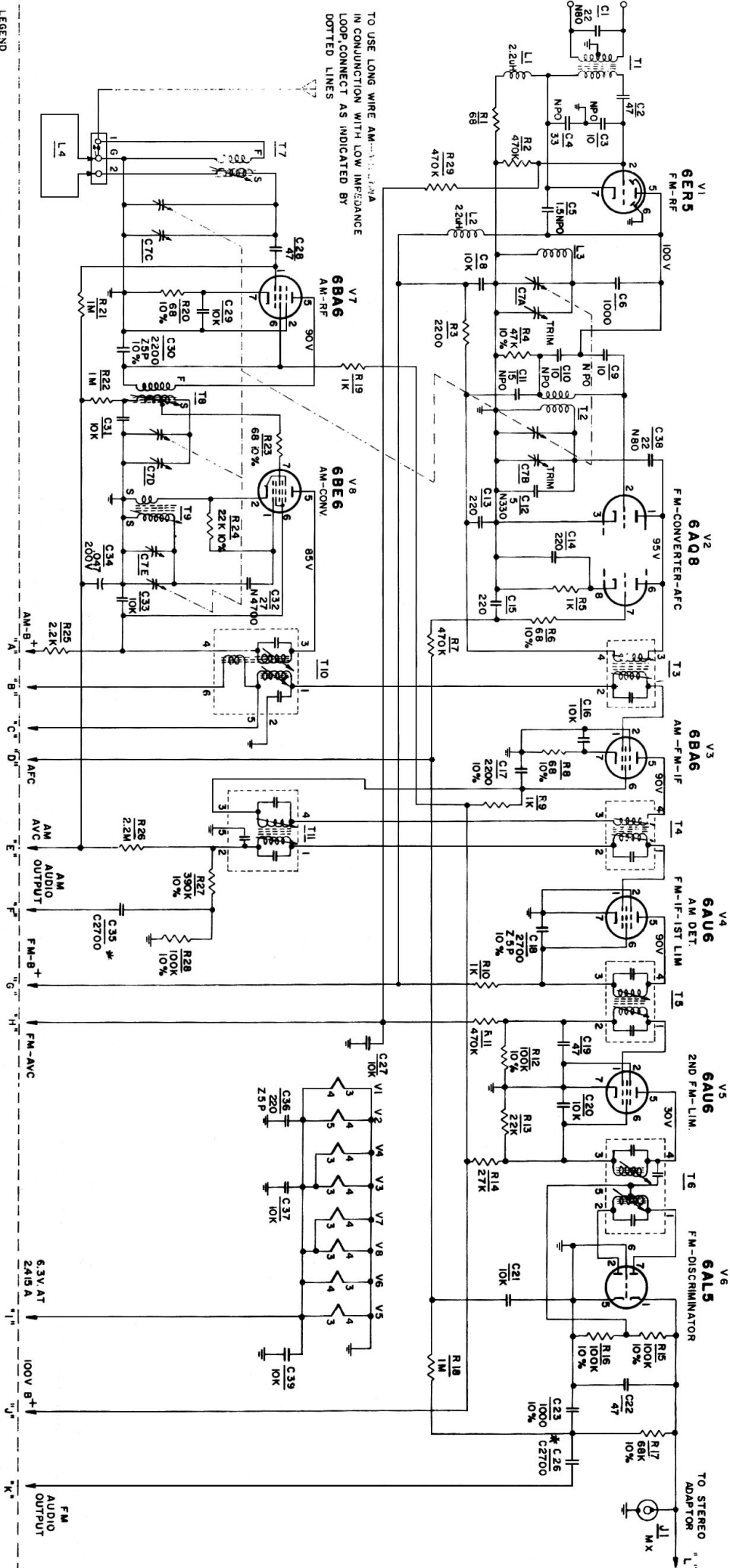
TUBULAR CAPACITORS IN W.V. AND D.C.W.V.  
 \* POLYESTER FILM CAPACITORS IN W.V. AND D.C.W.V.  
 † ELECTROLYTIC CAPACITORS IN D.C. & D.C.W.V.  
 ‡ CERAMIC ANTES OR OTHER TYPES WITH NO CAPACITY IN W.V. OR D.C.W.V.  
 § NP-NON POLARIZED

SPECIAL CAPACITORS SUCH AS TEMPERATURE COMPENSATING TYPES  
 ARE SPECIALLY IDENTIFIED BY LOCATION  
 †† NP-NON POLARIZED

1. 1R1892 12V 15A (INDICATOR LIGHT)  
 2. 2R44 6.3V 25A PILOT LAMP  
 3. 2R45 6.3V 25A PILOT LAMP  
 4. 2R46 6.3V 25A PILOT LAMP  
 5. 2R47 6.3V 25A PILOT LAMP  
 6. 2R48 6.3V 25A PILOT LAMP  
 7. 2R49 6.3V 25A PILOT LAMP  
 8. 2R50 6.3V 25A PILOT LAMP  
 9. 2R51 6.3V 25A PILOT LAMP  
 10. 2R52 6.3V 25A PILOT LAMP  
 11. 2R53 6.3V 25A PILOT LAMP  
 12. 2R54 6.3V 25A PILOT LAMP  
 13. 2R55 6.3V 25A PILOT LAMP  
 14. 2R56 6.3V 25A PILOT LAMP  
 15. 2R57 6.3V 25A PILOT LAMP  
 16. 2R58 6.3V 25A PILOT LAMP  
 17. 2R59 6.3V 25A PILOT LAMP  
 18. 2R60 6.3V 25A PILOT LAMP  
 19. 2R61 6.3V 25A PILOT LAMP  
 20. 2R62 6.3V 25A PILOT LAMP  
 21. 2R63 6.3V 25A PILOT LAMP  
 22. 2R64 6.3V 25A PILOT LAMP  
 23. 2R65 6.3V 25A PILOT LAMP  
 24. 2R66 6.3V 25A PILOT LAMP  
 25. 2R67 6.3V 25A PILOT LAMP  
 26. 2R68 6.3V 25A PILOT LAMP  
 27. 2R69 6.3V 25A PILOT LAMP  
 28. 2R70 6.3V 25A PILOT LAMP  
 29. 2R71 6.3V 25A PILOT LAMP  
 30. 2R72 6.3V 25A PILOT LAMP  
 31. 2R73 6.3V 25A PILOT LAMP  
 32. 2R74 6.3V 25A PILOT LAMP  
 33. 2R75 6.3V 25A PILOT LAMP  
 34. 2R76 6.3V 25A PILOT LAMP  
 35. 2R77 6.3V 25A PILOT LAMP  
 36. 2R78 6.3V 25A PILOT LAMP  
 37. 2R79 6.3V 25A PILOT LAMP  
 38. 2R80 6.3V 25A PILOT LAMP  
 39. 2R81 6.3V 25A PILOT LAMP  
 40. 2R82 6.3V 25A PILOT LAMP  
 41. 2R83 6.3V 25A PILOT LAMP  
 42. 2R84 6.3V 25A PILOT LAMP  
 43. 2R85 6.3V 25A PILOT LAMP  
 44. 2R86 6.3V 25A PILOT LAMP  
 45. 2R87 6.3V 25A PILOT LAMP  
 46. 2R88 6.3V 25A PILOT LAMP  
 47. 2R89 6.3V 25A PILOT LAMP  
 48. 2R90 6.3V 25A PILOT LAMP  
 49. 2R91 6.3V 25A PILOT LAMP  
 50. 2R92 6.3V 25A PILOT LAMP  
 51. 2R93 6.3V 25A PILOT LAMP  
 52. 2R94 6.3V 25A PILOT LAMP  
 53. 2R95 6.3V 25A PILOT LAMP  
 54. 2R96 6.3V 25A PILOT LAMP  
 55. 2R97 6.3V 25A PILOT LAMP  
 56. 2R98 6.3V 25A PILOT LAMP  
 57. 2R99 6.3V 25A PILOT LAMP  
 60. 2R100 6.3V 25A PILOT LAMP

SWITCHES SHOWN IN THE INTERNAL SPEAKER POSITION  
 00-583-01  
 Issue 3

# Electrohome Castanet MKII/M AM-FM TUNER SCHEMATIC



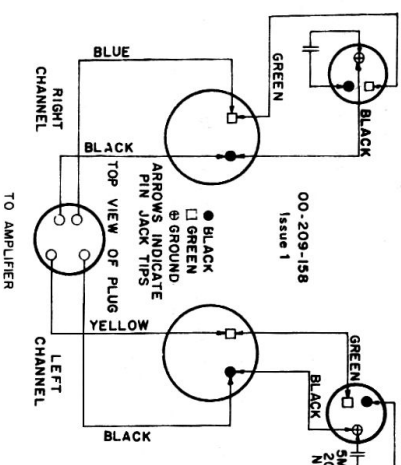
TO USE LONG WIRE AM... IN CONJUNCTION WITH LOW IMPEDANCE LOOP CONNECTION AS INDICATED BY DOTTED LINES

- LEGEND**
- RESISTORS-**  
 HALF WATT UNLESS OTHERWISE NOTED.  
 20% UNLESS OTHERWISE NOTED.  
 K=1000 OHMS  
 M=1000000 OHMS
- CAPACITORS**  
 TUBULAR CAPACITY IN W.D. AND D.C.W.V.  
 CURVED LINE-OUTSIDE FOIL  
 ELECTROLYTIC CAPACITY IN W.D. AND D.C.W.V.  
 CERAMIC, MICA OR OTHER TYPES WITH NO OBLIVIOUS OUTSIDE OR GROUNDED SIDE CAPACITY IN W.D., TOLERANCE IF CRITICAL AND D.C.W.V.  
 M=MICA  
 NP=NON POLARIZED
- SPECIAL CAPACITORS SUCH AS TEMPERATURE COMPENSATING TYPES ARE IDENTIFIED BY A NOTE AT CAPACITOR LOCATION.**  
 OIL FILLED  
 S.M.=SILVER MICA  
 M=MICA  
 NP=NON POLARIZED

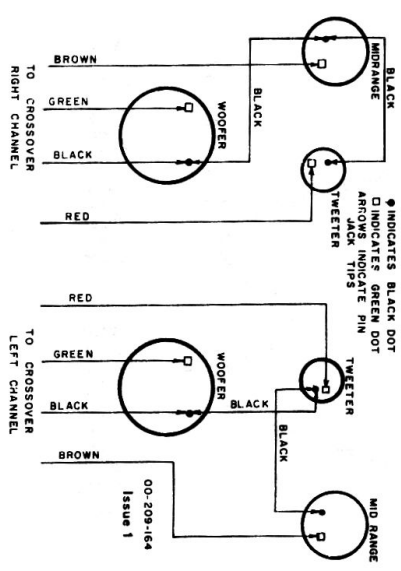
NOTE: FOR ALIGNMENT INSTRUCTIONS SEE D.E.I. DWG. 00-1909-01

\* NOTE 2 - 10K ON ALL 6 WATT MODELS.

## CASTANET MK II & M



## MONTEGO & M

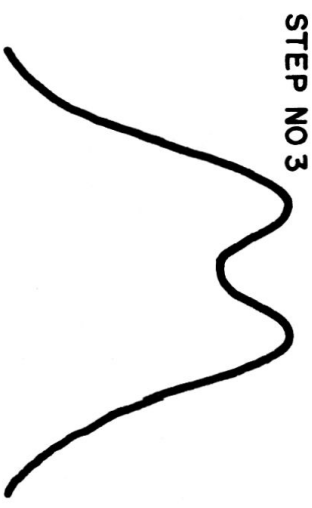


## SPEAKER CONNECTIONS AND CROSSOVER NETWORK

# Electrohme Castanet MKII/M 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 V3 6BA6	455 Kc/s	400 c.p.s. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "F"	T11 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 "F"	T10 1st. AM-IF	Adjust for maximum output.	300 uv for 20 mv output
3	Change Band Switch Setting 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 preferably be made with a proper sweep Generator and Scope.									
4	200 uf	AM Ant. Term. Strip No. 1	600 Kc/s	400 c.p.s. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "F"	T7, T8, and T9	Connect for long wire antenna, adjust for maximum output.	2.5 uv for 20 mv output
5	200 uf	AM Ant. Term. Strip No. 1	1400 Kc/s	400 c.p.s. AM at 30%	AM	1400 Kc/s	AC-VTVM To Point "E"	C1C, C1D, and C1E Trimers	Connect for long wire antenna, adjust for maximum output.	1.8 uv for 20 mv output
6	Repeat steps 4 and 5, 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 "H"	T5 3rd. FM-IF	Adjust for maximum meter deflection.	15000 uv for 1v output
8	-	Pin No. 1 V4 6AU6	10.7 Mc/s	-	FM	Point of no interference	DC-VTVM To Pin No.5 of T6	T6 FM Discriminator Primary	Adjust for maximum meter deflection.	10000 uv for 3v output
	-	Pin No. 1 V4 6AU6	10.7 Mc/s	-	FM AFC	Point of no interference	DC-VTVM To Point "D"	T5 FM Discriminator Secondary	Adjust for zero voltage	-
10	-	Pin No. 1 V3 6BA6	10.7 Mc/s	-	FM	Point of no interference	DC-VTVM To Point "H"	T4 2nd FM-IF	Adjust for maximum meter deflection	250 uv for 1v output
11	-	C1A FM Gang	10.7 Mc/s	-	FM	Point of no interference	DC-VTVM To Point "H"	T3 1st FM-IF	Adjust for maximum meter deflection.	-
12	*	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 "K"	Expand or compress L3 and T2	Adjust for maximum output.	3 uv for 100 mv output
13	*	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 "K"	C1B and C1A Trimers	Adjust for maximum output.	3 uv for 100 mv output
14	Repeat steps 12 and 13 until output drops at least 20 db. when mod. is turned off.									

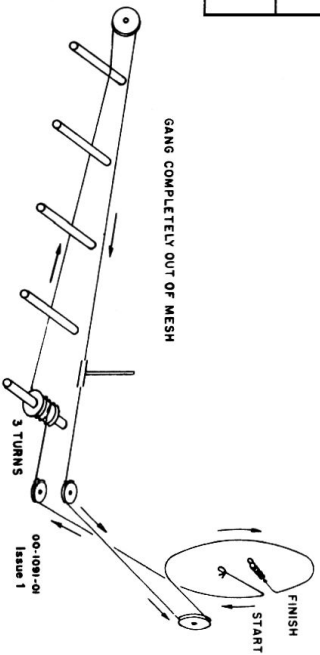
NOTE: To achieve more accurate alignment of FM-IF's and Discriminator it is preferable to use a proper sweep generator and oscilloscope.



STEP NO 3

\* For FM dummy antenna connect one 150 $\mu$ carbon resistor from grounded side of sig. gen. to ant. term. and one 120 $\mu$ carbon resistor from hot side of sig. gen. to ant. term.

### STRINGING DETAIL



GANG COMPLETELY OUT OF MESH