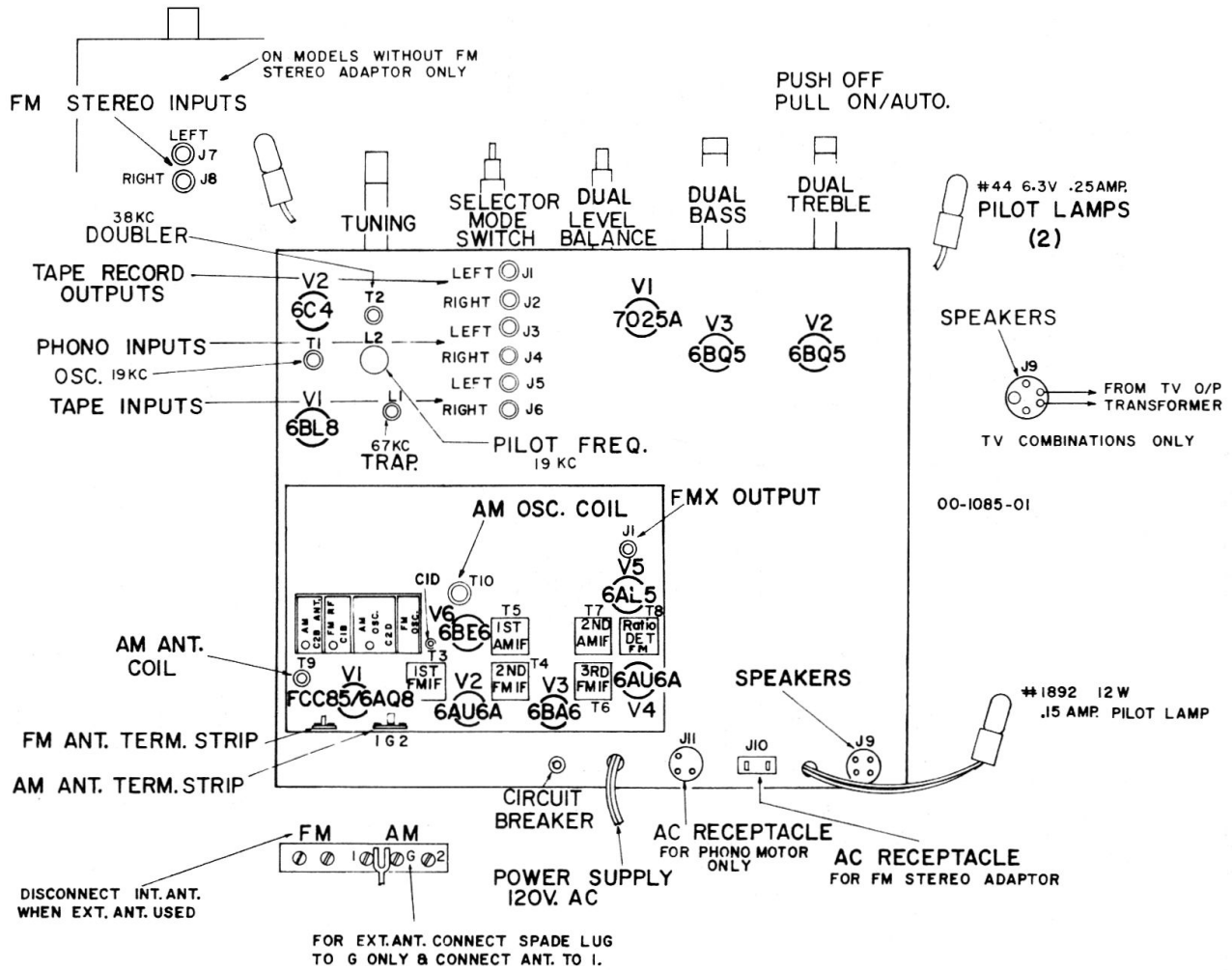
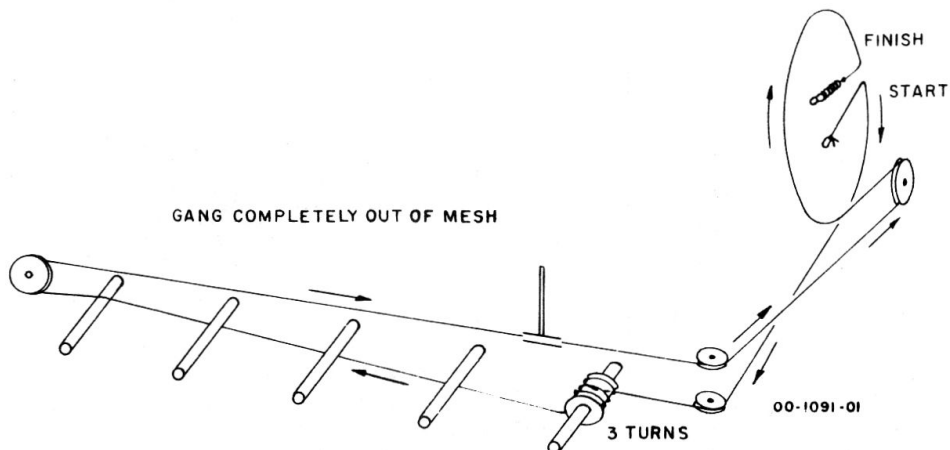


Electrohome Courtleigh MKII & Belfontaine MKI Chassis Layout & Dial Cord Stringing

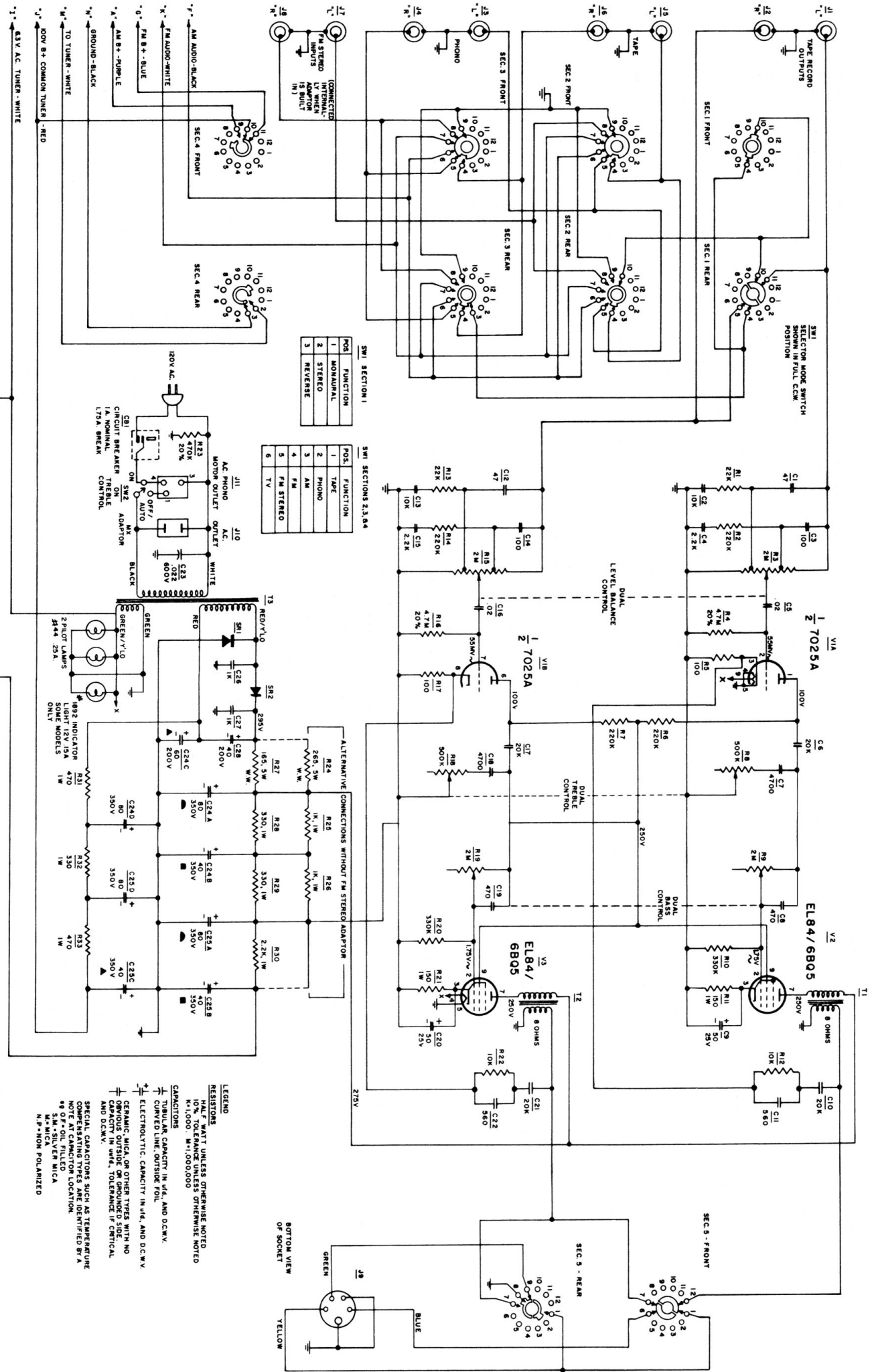
CHASSIS LAYOUT — COURTLEIGH MK II, BELFONTAINE MK I



STRINGING DETAIL — COURTLEIGH MK II, BELFONTAINE MK I



AMPLIFIER SCHEMATIC — COURTLIEGH MK II, BELFONTAINE MK I



SW1 SECTION I

POS.	FUNCTION
1	MONO/AURAL
2	STEREO
3	REVERSE

SW1 SECTIONS 2,3, & 4

POS.	FUNCTION
1	TAPE
2	PHONO
3	AM
4	FM STEREO
5	FM
6	TV

ALTERNATIVE CONNECTIONS WITHOUT FM STEREO ADAPTOR

RESISTOR	VALUE	RESISTOR	VALUE
R24	265.5W	R28	330.1W
R25	1K.1W	R29	330.1W
R26	1K.1W	R30	330.1W
R27	165.5W	R31	2.2K.1W
R28	330.1W	R32	330.1W
R29	330.1W	R33	470.1W
R30	330.1W		

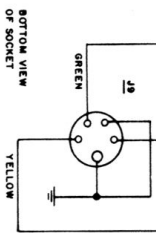
LEGEND

RESISTORS
 VALUE WATT LIMITS UNLESS OTHERWISE NOTED
 K=1,000. M=1,000,000

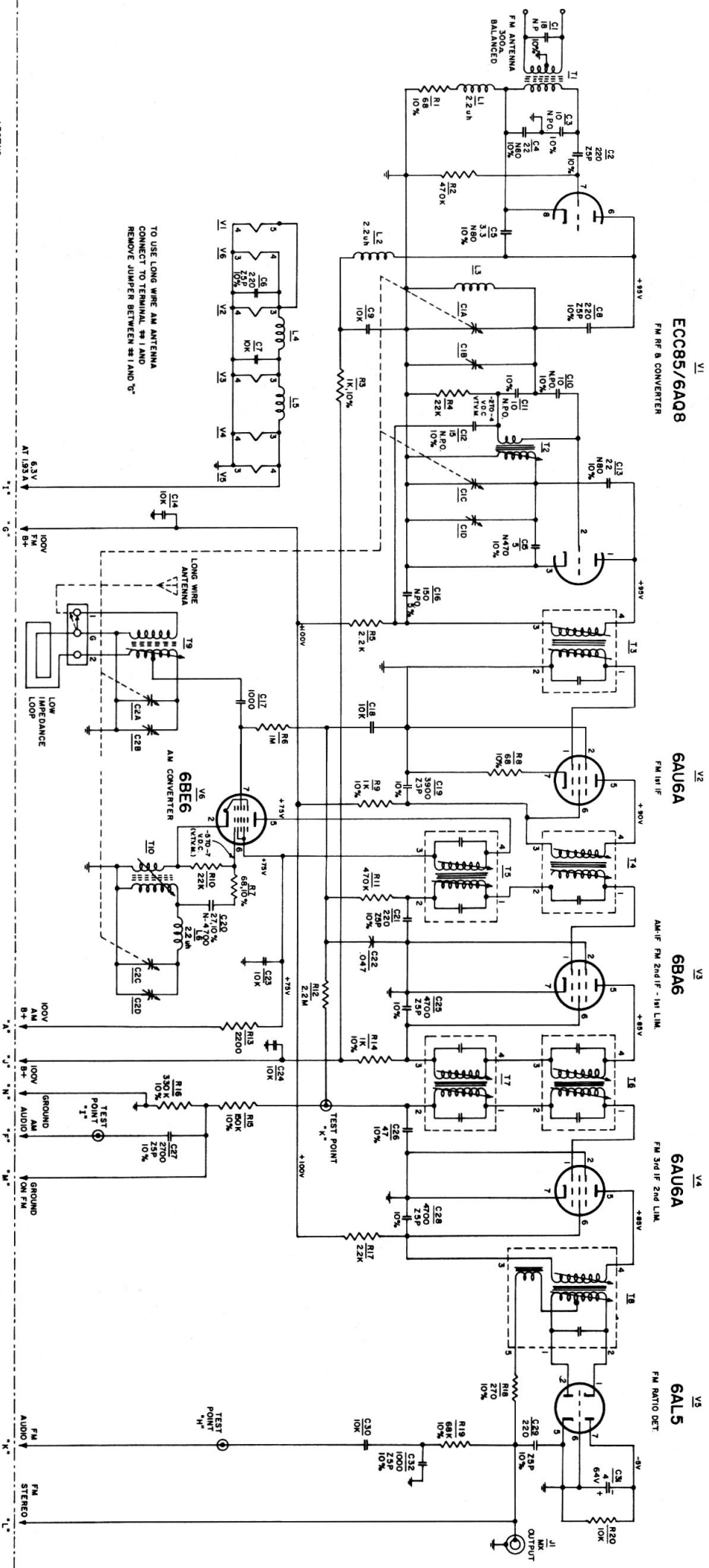
CAPACITORS
 TUBULAR CAPACITY IN uF, AND DC WV.
 CURVED LINE OUTSIDE FOIL
 ELECTROLYTIC CAPACITY IN uF, AND DC WV.
 CERAMIC MICA OR OTHER TYPES WITH NO
 OMBROS OUTSIDE OR GROUND SIDE
 CAPACITY IN uF, TOLERANCE IF CRITICAL
 AND DC WV.
 SPECIAL CAPACITORS SUCH AS TEMPERATURE
 COMPENSATING TYPES ARE IDENTIFIED BY A
 * S.M.-SILVER MICA
 M.-MICA
 N.P.-NON POLARIZED

1-1 83V A.C. TUNER - WHITE
 1-2 6.3V A.C. TO FM STEREO ADAPTOR (WHEN BUILT IN) - WHITE
 1-3 200V 8-8 TO FM STEREO ADAPTOR (WHEN BUILT IN) - RED

OO-581-02



AM-FM TUNER SCHEMATIC — COURTLEIGH MK II, BELFONTAINE MK I



LEGEND

RESISTORS
 HALF WATT UNLESS OTHERWISE NOTED
 20% TOL.
 K=1,000 OHMS
 M=1,000,000 OHMS

CAPACITORS
 TUBULAR CAPACITY IN μ F AND D.C.W.V.
 CURVED LINE, OUTSIDE FOIL.
 ELECTROLYTIC CAPACITY IN μ F AND D.C.W.V.
 CERAMIC MICA OR OTHER TYPES WITH NO
 OBVIOUS OUTSIDE OR GROUNDING SIDE
 CAPACITY IN μ F AND TOL. IF CRITICAL, AND D.C.W.V.

**SPECIAL CAPACITORS SUCH AS TEMPERATURE
 COMPENSATING TYPES ARE IDENTIFIED BY A
 NOTE AT CAPACITOR LOCATION.**

6.8 O.F.-OIL FILLED
 M=MICA
 N=NON POLARIZED
 N.P.O. = NEG POS ZERO
 N.4700 = TEMP COMPENSATION

NOTE - FOR ALIGNMENT INSTRUCTIONS SEE DEL. DWG 00-1482-01

00-474-01

AM-FM TUNER ALIGNMENT INSTRUCTIONS — COURTLIEGH MK II, BELFONTAINE MK I

STEP	DUMMY ANTENNA	SIGNAL APPLIED TO	FREQ.	MODULATION	BAND SWITCH SETTING	DIAL POINTER SETTING	INDICATING METER	ADJUST	REMARKS	NOMINAL SENSITIVITY
1	.05 uf	Pin #1 V3 6BA6	455 Kc/s	400 C.P.S. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "I"	T7 2nd AM-IF	Adjust for maximum output	3000 uv. for 70 Mv. output
2	.05 uf	Pin #7 V6 6BE6	455 Kc/s	400 C.P.S. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "I"	T5 1st AM-IF	Adjust for maximum output	100 uv. for 70 Mv. output
3	200 uuf	AM Ant. Term. #1 Strip	600 Kc/s	400 C.P.S. AM at 30%	AM	600 Kc/s	AC-VTVM To Point "J"	T10 and T9 AM-Osc. & AM Ant.	Connect for long wire ant. Adjust for Max. output***	35 uv. for 70 Mv. output
4	200 uuf	AM Ant. Term. #1 Strip	1400 Kc/s	400 C.P.S. AM at 30%	AM	1400 Kc/s	AC-VTVM To Point "J"	C2D and C2B Trimmers	Connect for long wire ant. Adjust for Max. output***	45 uv. for 70 Mv. output
5	Repeat steps 3 and 4, check band coverage at 535 Kc/s - 1650 Kc/s and for tracking at 950 Kc/s.									
6	—	Pin #1 V3 6BA6	10.7 Mc/s	Nil	FM	Point of no inter- ference	DC-VTVM To Point "K"	T6 3rd. FM-IF	Adjust for maximum meter deflection	10000 uv. for 1V output
7	—	Pin #1 V3 6BA6	10.7 Mc/s	Nil	FM	Point of no inter- ference	DC-VTVM To MX Output	T8 FM Ratio Det. Primary (Bo.t)	Adjust for maximum meter deflection	1250 uv. for 1V output
8	—	Pin #1 V3 6BA6	10.7 Mc/s	Nil	FM	Point of no inter- ference	DC-VTVM To MX Output	T5 FM Discriminator Secondary (Top)	Adjust for zero voltage. NOTE **	—
9	—	Pin #1 V2 6AU6A	10.7 Mc/s	Nil	FM	Point of no inter- ference	DC-VTVM To Point "K"	T4 2nd FM-IF	Adjust for maximum meter deflection	160 uv. for 1V output
10	—	C1A FM Gang	10.7 Mc/s	Nil	FM	Point of no inter- ference	DC-VTVM To Point "K"	T3, 1st. FM-IF	Adjust for maximum meter deflection	—
11	NOTE *	FM Ant. Term. Strip	90 Mc/s	400 C.P.S. FM 22.5 Kc/s Dev.	FM	90 Mc/s	AC-VTVM To Point "H"	T2 Slug and L3 coil	Adjust for maximum output	3 uv. for 200 Mv. output
12	NOTE *	FM Ant. Term. Strip	106 Mc/s	400 C.P.S. FM 22.5 Kc/s Dev.	FM	106 Mc/s	AC-VTVM To Point "H"	C1D and C1B Trimmers	Adjust for maximum output	3 uv. for 200 Mv. output
13	Repeat steps 11 and 12 until output drops at least 20 db. when mod. is turned off. 3.0 uv.									

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

* For FM dummy antenna connect one 150 ohm carbon resistor from grounded side of sig. gen. to antenna terminal and one 120 ohm carbon resistor from hot side of signal generator to antenna terminal.

** With ground lead of DC VTVM connected to two 100 K resistors. To be temporarily connected in series across C31 (4 ufd CAP)

*** For AM-RF alignment purpose. The low impedance loop, installed in the cabinet or its electrical equivalent must be connected to the set as shown in the schematic.

NOTE: Input to set is one half, output reading of sig. generator.