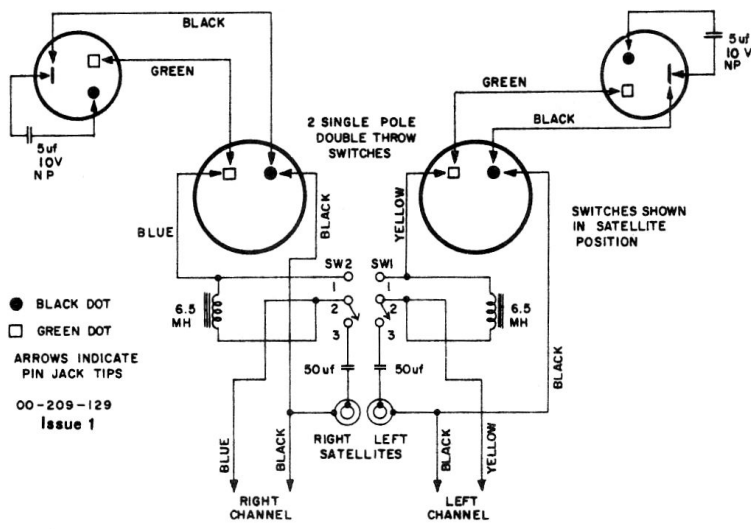
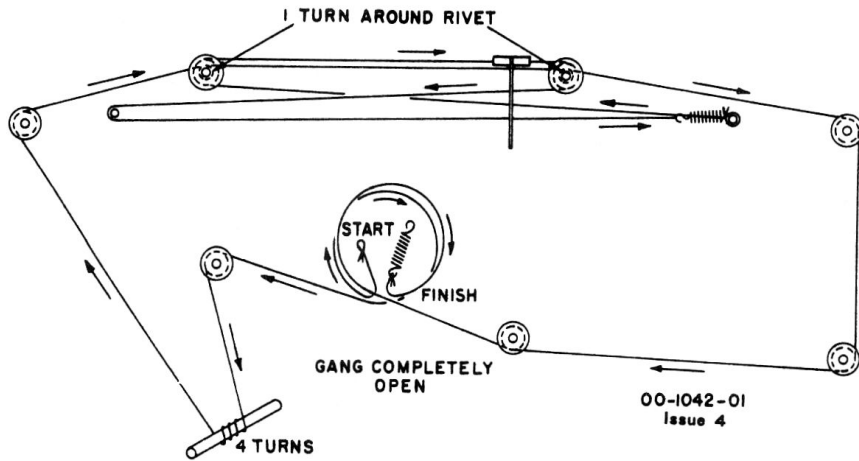
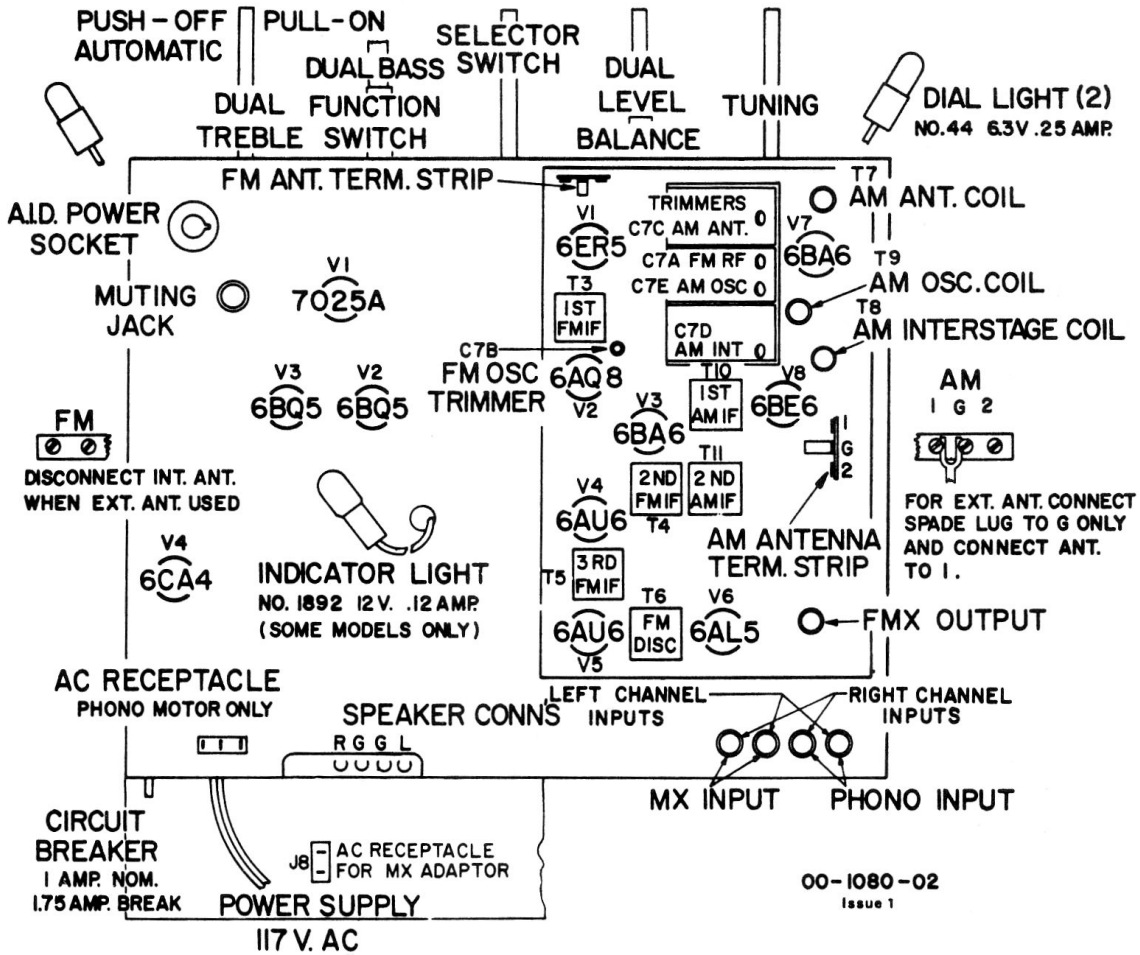
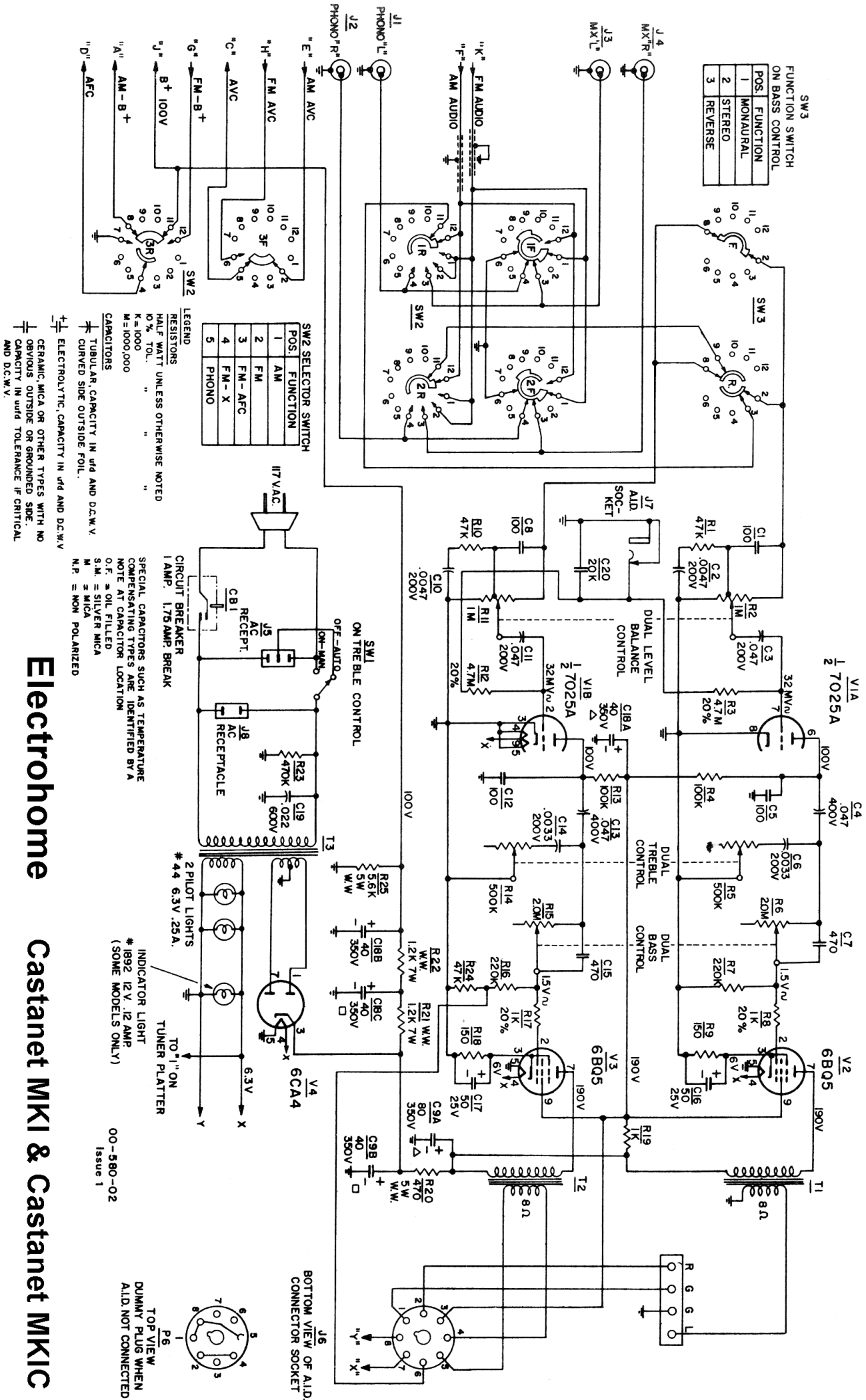


# Electrohome Castanet MKI & Castanet MKIC



# AMPLIFIER SCHEMATIC



SW3  
FUNCTION SWITCH  
ON BASS CONTROL

POS.	FUNCTION
1	MONAURAL
2	STEREO
3	REVERSE

SW2 SELECTOR SWITCH

POS.	FUNCTION
1	AM
2	FM
3	FM-AFC
4	FM-X
5	PHONO

LEGEND  
RESISTORS  
HALF WATT UNLESS OTHERWISE NOTED  
10% TOL. " "  
K=1000  
M=1000,000  
CAPACITORS  
TUBULAR CAPACITY IN  $\mu$ F AND D.C.W.V.  
CURVED SIDE OUTSIDE FOIL.  
ELECTROLYTIC CAPACITY IN  $\mu$ F AND D.C.W.V.

CERAMIC, MICA OR OTHER TYPES WITH NO OBVIOUS OUTSIDE OR GROUNDED SIDE.  
CAPACITY IN  $\mu$ F TOLERANCE IF CRITICAL AND D.C.W.V.

SPECIAL CAPACITORS SUCH AS TEMPERATURE COMPENSATING TYPES ARE IDENTIFIED BY A NOTE AT CAPACITOR LOCATION  
O.F. = OIL FILLED  
S.M. = SILVER MICA  
M = MICA  
N.P. = NON POLARIZED

CIRCUIT BREAKER  
1 AMP. 1.75 AMP. BREAK  
RECEPTACLE  
AC  
RECEPTACLE

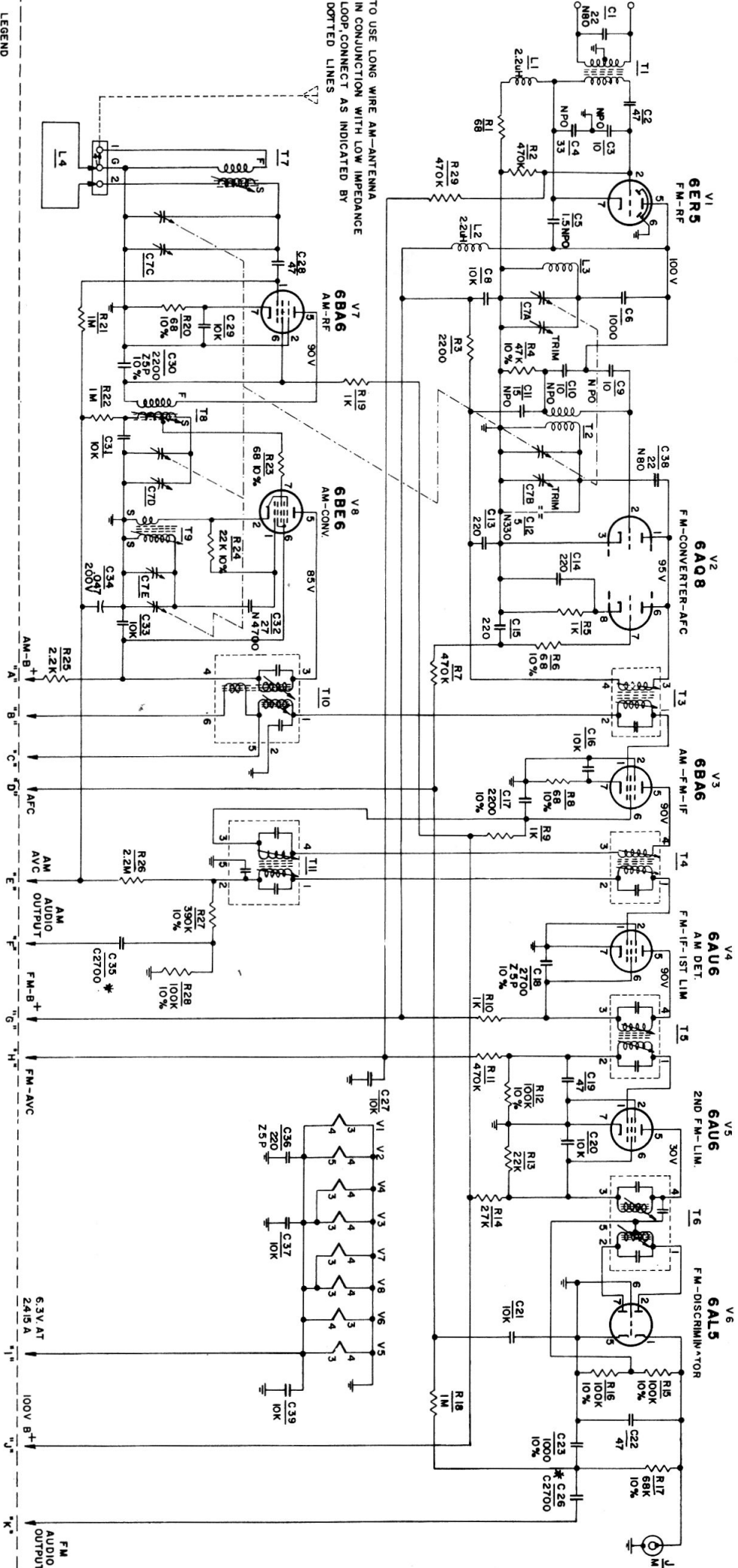
INDICATOR LIGHT  
# 1892 12 V. .12 AMP.  
(SOME MODELS ONLY)

TOP VIEW  
DUMMY PLUG WHEN  
AID NOT CONNECTED

## Electrohome Castanet MKI & Castanet MKIC

00-580-02  
Issue 1

# AM-FM TUNER



TO USE LONG WIRE AM-ANTENNA  
IN CONJUNCTION WITH LOW IMPEDANCE  
LOOP, CONNECT AS INDICATED BY  
DOTTED LINES

## LEGEND

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

**CAPACITORS**  
TUBULAR CAPACITY IN ufd., AND D.C.W.V.  
CURVED LINE-OUTSIDE FOIL

**†** ELECTROLYTIC CAPACITY IN ufd., AND D.C.W.V.  
**‡** CERAMIC, MICA, OR OTHER TYPES WITH NO CAPACITY IN ufd., TOLERANCE IF CRITICAL AND D.C.W.V.

SPECIAL CAPACITORS SUCH AS TEMPERATURE COMPENSATING TYPES ARE IDENTIFIED BY A NOTE AT CAPACITOR LOCATION.  
9. OF-OIL FILLED  
SM.-SILVER MICA  
M-MICA  
N.P.=NON POLARIZED

NOTE 1-FOR ALIGNMENT INSTRUCTIONS SEE D.E.I. DWG 00-449-01  
NOTE 2-10K OHM ON ALL 6 WATT MODELS.  
Issue 3

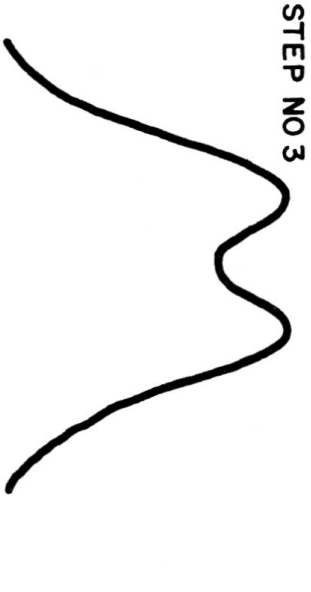
**Electrohome Castanet MKI & Castanet MKIC**

# Electrohome Castanet MKI & Castanet MKIC

## 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 or 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 To	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 voltag	-
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.



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