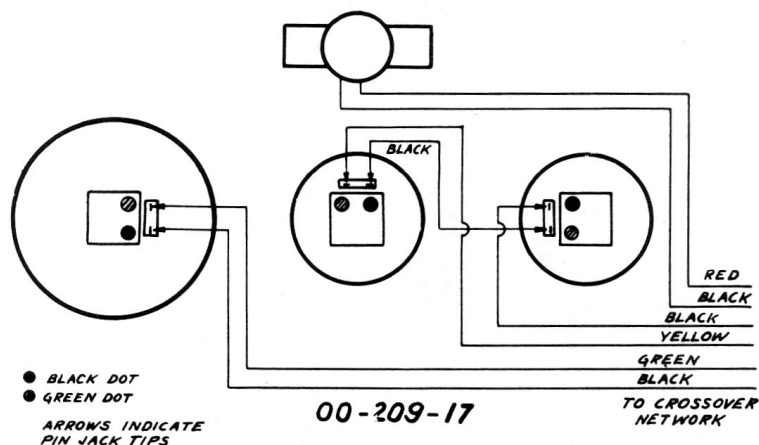


Electrohome Clarion, Clarion FM, Chippendale IV FM & Concord Imperial

Speaker Connections, Hum Balance, Chassis Layouts, Crossover Network & Dial Cord.

SPEAKER CONNECTIONS



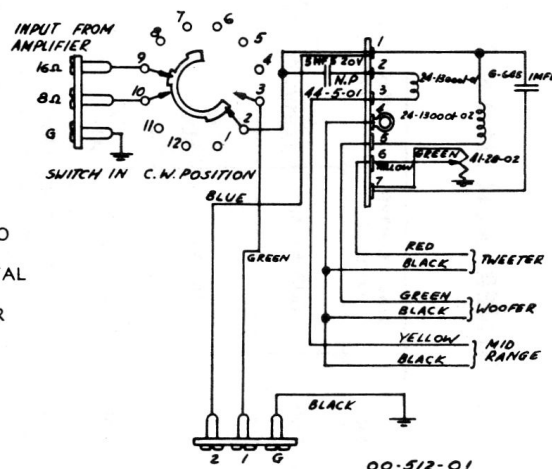
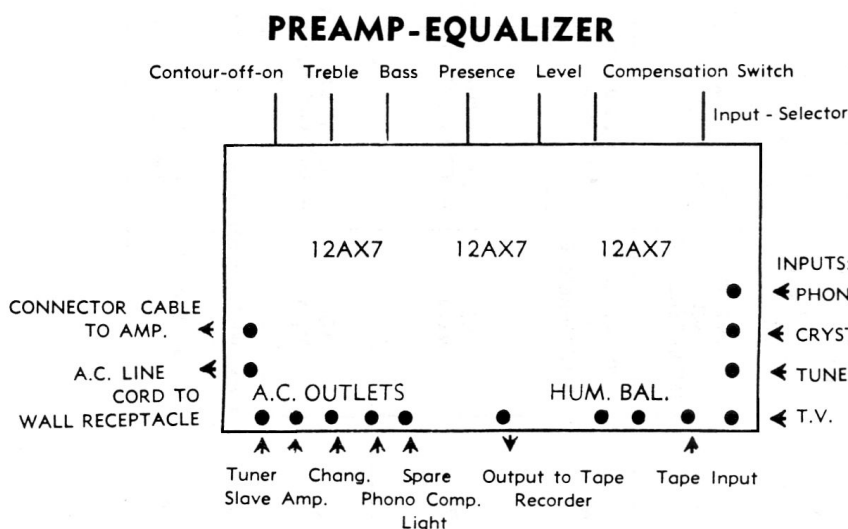
HUM BALANCE

It may be found necessary to adjust the hum balance controls R51, R52 for minimum hum balance when the tubes V1, V2, V3 (12AX7) are replaced.

Procedure

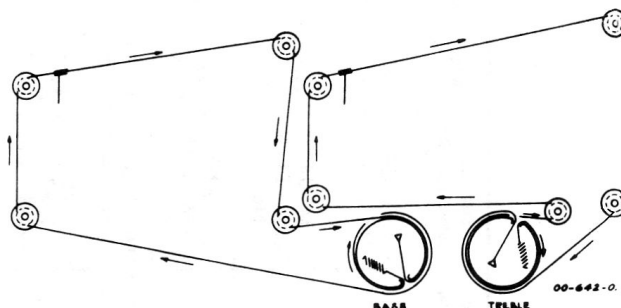
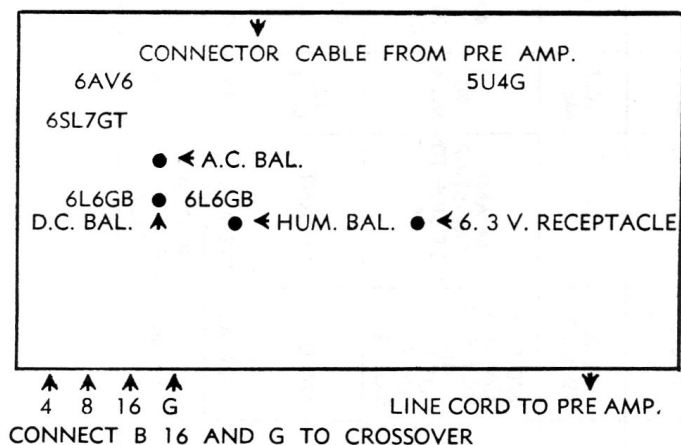
- (1) Turn unit on.
- (2) Set level control fully counterclockwise.
- (3) Set Bass and Contour controls fully clockwise.
- (4) Set presence control fully counterclockwise (off).
- (5) Set selector switch to Mag. Phono position and adjust R51 control for minimum hum level.
- (6) Level all controls set as above, turn level control fully clockwise and adjust R52 control for minimum hum level.

CROSSOVER NETWORK AND EXTERIOR SPEAKER SWITCH



CHASSIS LAYOUT

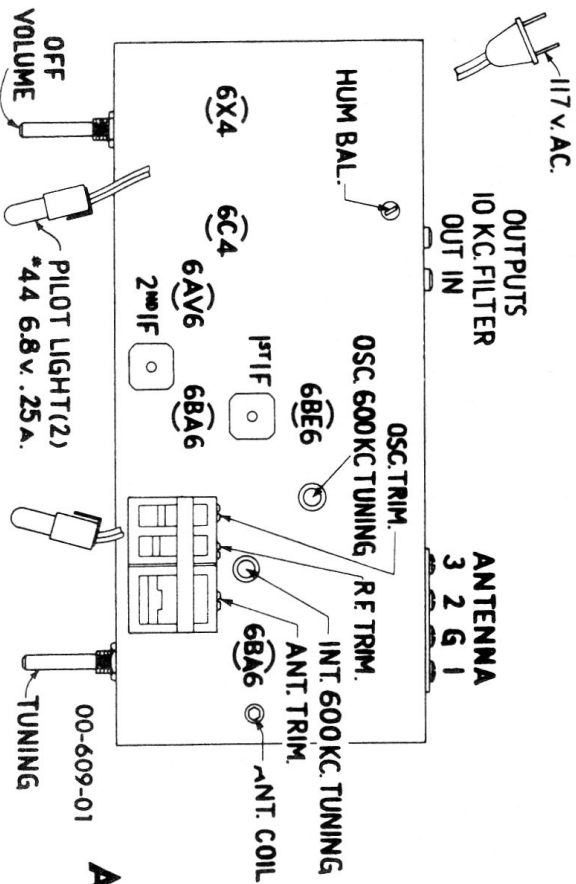
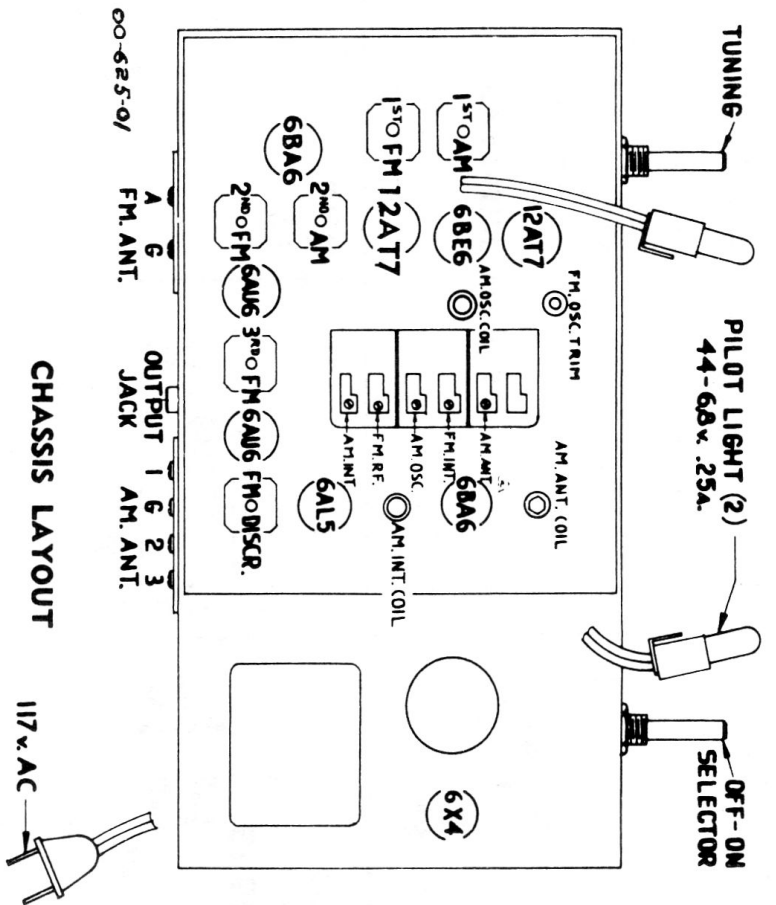
SLAVE AMPLIFIER



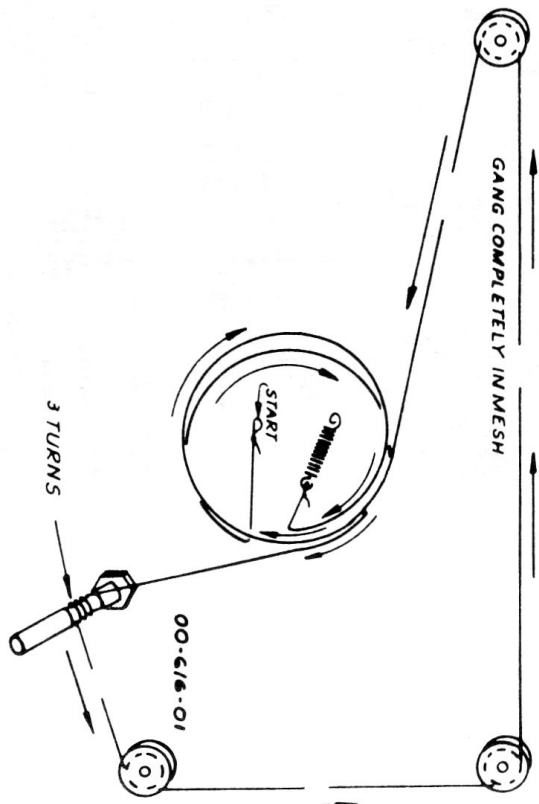
STRINGING DETAIL

Electrohome Clarion, Clarion FM, Chippendale IV FM & Concord Imperial Tuner Chassis Layouts and Dial Cord Stringing for AM and AM/FM Radios

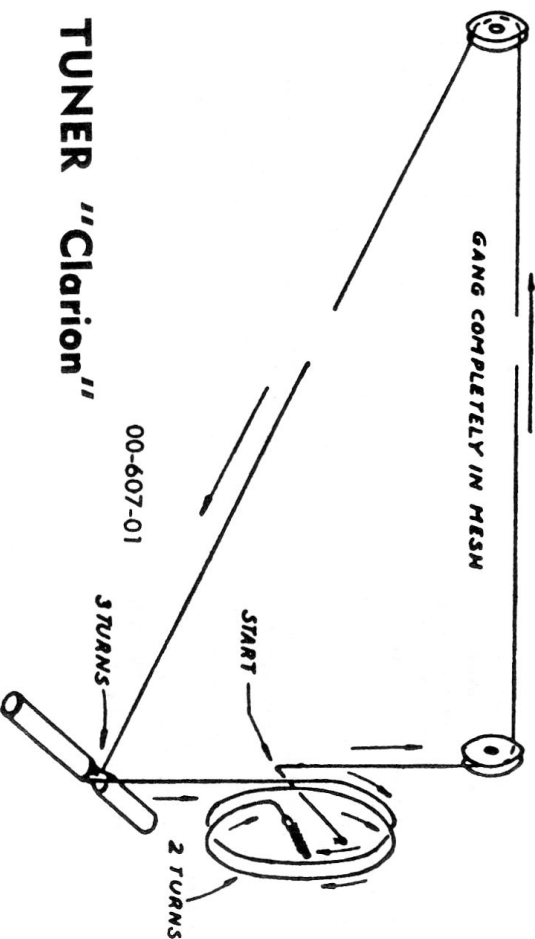
AM-FM TUNER "CLARION FM", "CHIPPENDALE IV FM"



STRINGING DETAIL

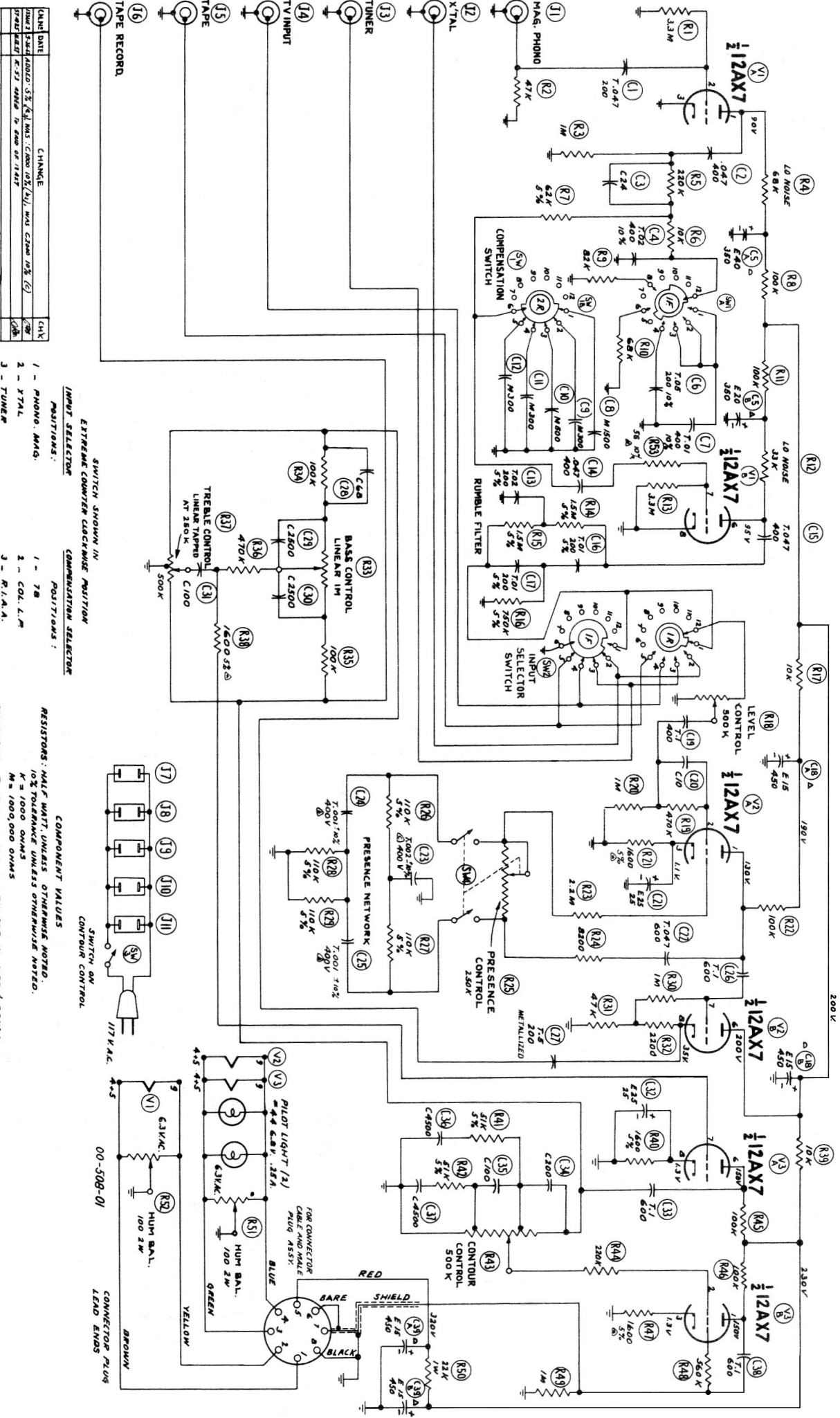


AM TUNER "Clarion"



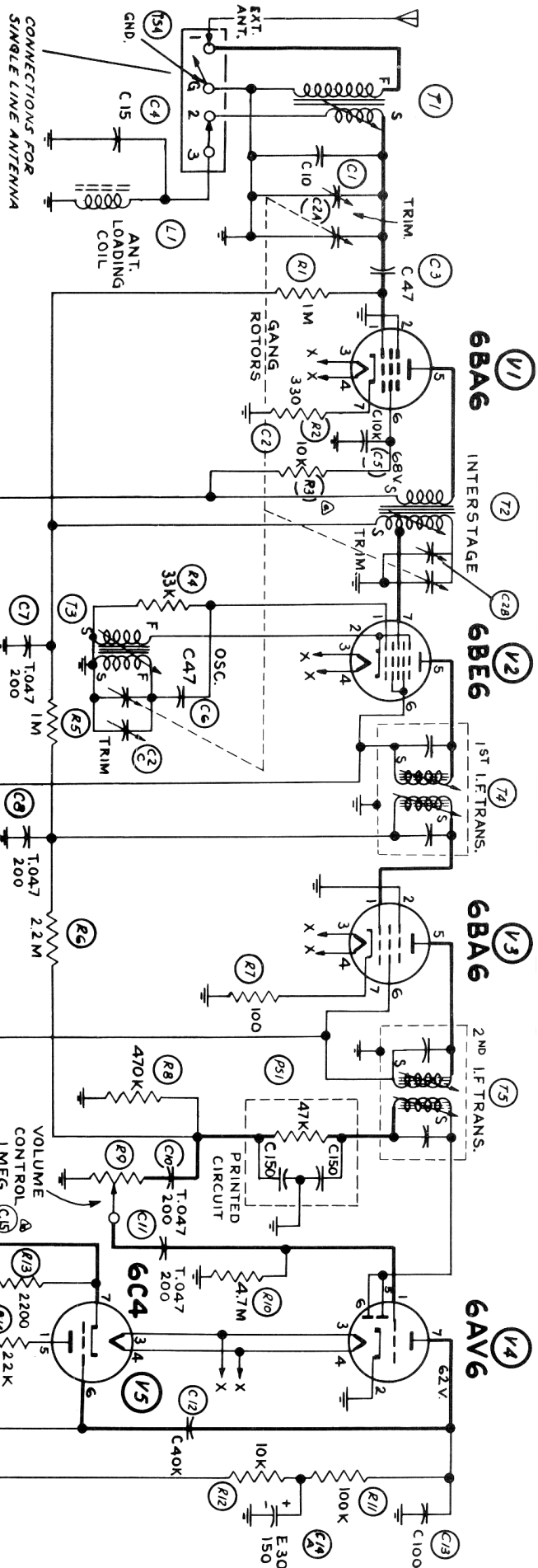
NOTE—2 Springs are used on this model.

PREAMP-EQUALIZER "CLARION, CLARION FM, CHIPPENDALE IV FM, CONCORD IMPERIAL"

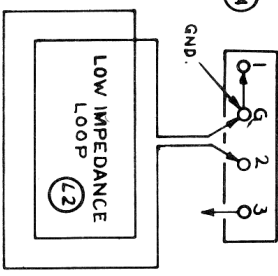


ADJUSTMENT OF CONTROLS
D. C. BALANCE :-
 WITH INPUT SHORTED CONNECT A MOVING COIL VOLTMETER (0-10 V APPROX) ACROSS POINTS A & B.
 ADJUST R20 FOR ZERO READING.
A. C. BALANCE :-
 CONNECT AUDIO GENERATOR TO INPUT AND DRIVE AMPLIFIER TO FULL UNDISTORTED OUTPUT WITH A 1 KC. SIGNAL. ADJUST R-12 FOR EQUAL VOLTAGE AT PINS N°5 OF V3 AND V4. AN A. C. V.T.V.M. SHOULD BE USED.
HUM BALANCE :-
 WITH INPUT SHORTED ADJUST R27 FOR MINIMUM HUM.

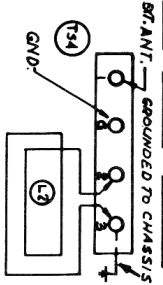




CONNECT FOR SINGLE LINE ANTENNA



CONNECTIONS AND LINK POSITIONS FOR LOW IMPEDANCE LOOP



NOTE: USED ON SOME MODELS. L1, C4 AND LINKS ARE NOT USED FOR THIS CONNECTION. LOOP INSTALLED IN CABINET AS ORIGINAL EQUIPMENT. JUMPER WIRE BETWEEN 7 & 6. REMOVE JUMPER WIRE BETWEEN 7 & 6 WHEN AN EXTERNAL ANTENNA IS USED.

ALIGNMENT AND SENSITIVITY			
STEP	APPLY SIGNAL AT KC	THRU SET GANG TO DUMMY AT	ADJUST FOR NOMINAL SENSITIVITY FOR 3 VOLTS AT OUTPUT JACK
1	455	6BA6 1.5% MIN	2ND 1.5% 1800 uV
2	435	6BE6 0.5% MIN	60 uV
3	1460	6BA6 0.5% MIN	OSC. AND INTERSTAGE TRIMMERS ADJUST OSCILLATOR SLUG AT 600
4	1460	ANT. 200 uH	4 uV
5	600	ANT. 200 uH	4 uV

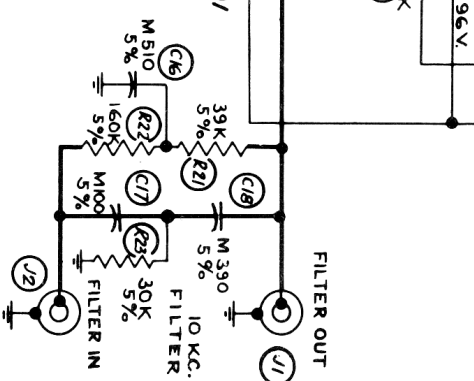
C.N. NO.	DATE	CHANGE	SYMB. CHK.	MODEL
1	1-9-57	WAS C3 (4) "C15" ADDED TO E5 100V CONDENSER	b	11
2	4-11-57	WAS J-4037, WAS 100V (c)		11

RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED. 20% TOLERANCE, UNLESS OTHERWISE NOTED.

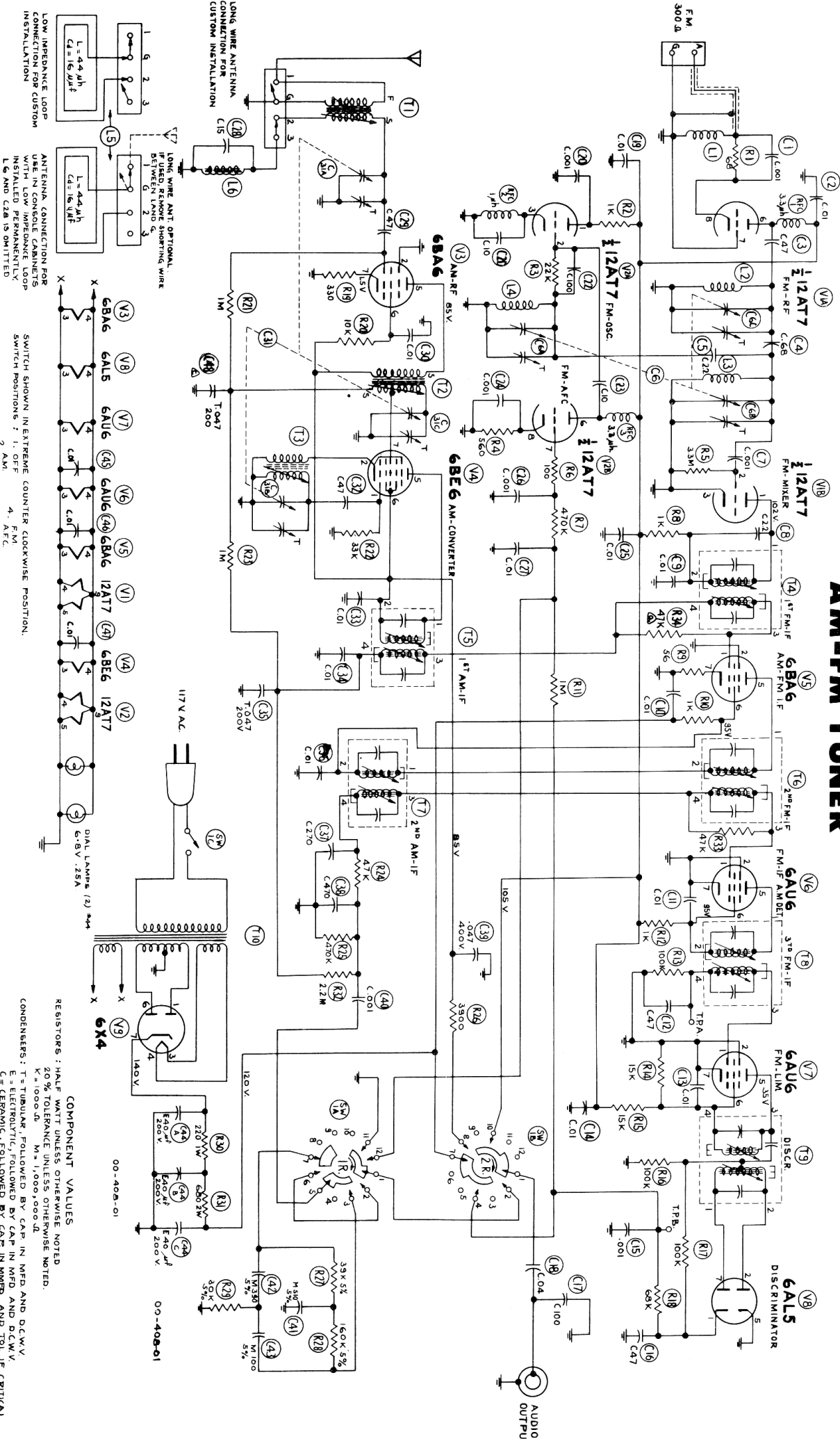
CONDENSERS: T = TANTALUM, FOLLOWED BY CAP. IN MFD. AND D.C. V. E = ELECTROLYTIC, FOLLOWED BY CAP. IN MFD. & D.C. V. C = CERAMIC, FOLLOWED BY CAP. IN MFD. & TOL. IF CRITICAL. M = MICA, FOLLOWED BY CAP. IN MFD. & TOLERANCE IF CRITICAL.

NOTE: (C6) CHANGED FROM C47 to C27 N5600

AM Tuner for Clarion



AM-FM TUNER



ALL VOLTAGES $\pm 10\%$ MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER, 117 VOLTS 60 CYCLE LINE AND ZERO SIGNAL INPUT.

FOR ALIGNMENT INSTRUCTIONS SEE D.E.I. N: 00-223-01

C/N#	DATE	CHANGE	SYMB.	CHK.	MODEL.
67-483	5-20-59	A7K RESISTOR ASSEMBLY PART NO. VA-90-608-01	b	y/y	m/m
67-484	4-17-59	ADDED C 4A - CONDENSER	c	y/y	k/k

WIRING DIAGRAM

NOTE: 2 UNDER SWITCH POSITIONS
Changed to read " or AM FFR"

NOTE: (C25) C.01 COND. DELETED. (C11) C36 CHANGED TO C 2200.
(C32) C47 CHANGED TO C27 N-5600

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.	PIN7 (GRID) V4 (6BE6)	455 Kc/s.	400 C.P.S. AM 30%	A.M.-FDR	600 Kc/s.	AC - VTVM AUDIO OUTPUT	1st & 2nd AM IF TRANSFORMERS	ADJUST FOR MAX. OUTPUT	140 μ V FOR 100 mV
2	200 uufd.	AM ANT. TERM. STRIP No. 1	600 Kc/s.	400 C.P.S. AM 30%	A.M.-FDR	600 Kc/s.	AC - VTVM AUDIO OUTPUT	AM OSC., ANT. & INT. COIL SLUGS	CONNECT FOR LONG WIRE ANT. ADJUST FOR MAXIMUM OUTPUT	6 μ V FOR 100 mV OUTPUT
3	200 uufd.	AM ANT. TERM. STRIP No. 1	1460 Kc/s.	400 C.P.S. AM 30%	A.M.-FDR	1460 Kc/s.	AC - VTVM AUDIO OUTPUT	AM OSC. ANT. AND INT. TRIMMERS	ADJUST FOR MAX. OUTPUT	7 μ V FOR 100 mV OUTPUT
4	REPEAT STEPS 2 & 3 AND CHECK FOR TRACKING AT 950 Kc/s. TRACKING ERROR TO BE LESS THAN 3 db.									
5	TUBE SHIELD	V1 12AT7 FM-RF-MIX.	10.7 Mc/s.	NONE	F.M.	POINT OF NO INTERFERENCE	DC - VTVM TO TEST POINT "A" (PIN 4 OF 3rd FM IF)	1st, 2nd & 3rd FM IF TRANSFORMERS	ADJUST FOR MAX. METER DEFLECTION	
6	TUBE SHIELD	V1	10.7 Mc/s.	NONE	F.M.	POINT OF NO INTERFERENCE	DC - VTVM TO TEST POINT "B"	DETUNE FM DISCR. TOP SLIGHTLY ADJUST DISCR. BOTTOM	ADJUST FOR MAX. METER DEFLECTION	
7	TUBE SHIELD	V1	10.7 Mc/s.	NONE	F.M.	POINT OF NO INTERFERENCE	DC - VTVM TO TEST POINT "B"	FM DISCR. TOP	ADJUST FOR ZERO BETWEEN POS. & NEG. READING	
8	270 OHM CARBON RESISTOR IN HOT LEAD OF FM. SIG. GEN.	FM ANT. TERM. STRIP HOT SIDE TO A	90 Mc/s.	400 C.P.S. FM 22.5 Kc/s. DEVIATION	F.M.	90 Mc/s.	AC - VTVM AUDIO OUTPUT	EXPAND OR COMPRESS OSC. RF & INT. COILS	ADJUST FOR MAX. OUTPUT	4 μ V FOR 20 db QUIETING
9	270 OHM	FM ANT.	106 Mc/s.	400 C.P.S. FM 22.5 Kc/s. DEV.	F.M.	106 Mc/s.	AC - VTVM AUDIO OUTPUT	OSC. RF. & INT. TRIMMERS	ADJUST FOR MAX. OUTPUT	3 μ V FOR 20 db QUIETING
10	REPEAT STEPS 8 AND 9 UNTIL OUTPUT DROPS AT LEAST 20 db, WITH INDICATED INPUT, WHEN FM MODULATION IS TURNED OFF.									
11	NONE	INPUT SIDE OF 10 Kc/s. FILT.	1 Kc.	NONE	A.M.	REMOVE 6AU6 V6	AC - VTVM AUDIO OUTPUT	ADJUST FOR 3V. REFERENCE LEVEL ON OUTPUT METER & CHANGE GEN. TO 10 Kc/s.	ATTENUATION 40 db. MIN.	