

Electrohome Chanterbury MKI, Chorale MKI & Chorale MKII Specifications

HUM BALANCE CONTROLS

It may be found necessary to adjust the Hum Balance controls for minimum hum reproduction when the 12AU7 tubes on the preamp or the 6AV6 and 6AL5 tubes on the tuner are replaced. Set the Bass and Treble tone controls in their extreme right hand positions, the Selector Switch in one of the Phono positions the Level and Contour controls fully clockwise and adjust controls for minimum hum level.

PREAMPLIFIER SELECTOR (Specifications per Channel)

Frequency Response — 30 cps to 15,000 at Tape Input.
Intermodulation Disortion — (at Tape Input) Less Than 5% at 2 v Output.

Harmonic Distortion — At Tape Input .05% at 1 v Output
Hum and Noise — (at Tape Input) 80 db Below 2 volts
Rated Output

Voltage Gain — 9.

Measurements with tone Controls in flat position, level and contour controls fully clockwise.

Contour Control Dual Element — Designed to provide 15 db. lift at 30 cps. when control is 60° removed from CCW position with reference to response at 1000 cps. and at the same time provide 11 db lift at 15,000 cps.

Bass Tone Control Dual Element — Designed to provide 15 db. cut or lift at 50 cps. Covers sound spectrum from 20 - 1000 cps.

Treble Tone Control Dual Element - Designed to provide 15 db. cut or lift at 10,000 cps. Covers sound spectrum from 1000 - 15,000 cps.

SPECIFICATIONS

AM-FM TUNER

Standard Broadcast Range — 535 to 1605 Kc.
Frequency Modulation Range — 88 to 108 Mc.
I.F. Frequency AM — 455 Kc.

FM — 10.7 Mc.

Sensitivity AM — 2 uv. For 100 mv. at Detector.

FM — 3 uv. For 20 db Quieting.

Selectivity — AM — 16 Kc. Bandwidth at 10X Down. Tuner Selector Switch Set at DISTANT Position.
24 Kc. Bandwidth at 10X Down—Switch Set at Hi-Fi Position.

FM — 300 Kc. Bandwidth at 10X Down. Switch Set at FM Position.

SLAVE AMPLIFIER (Specifications per Channel)

Frequency Response - 30 cps. to 15,000 cps.

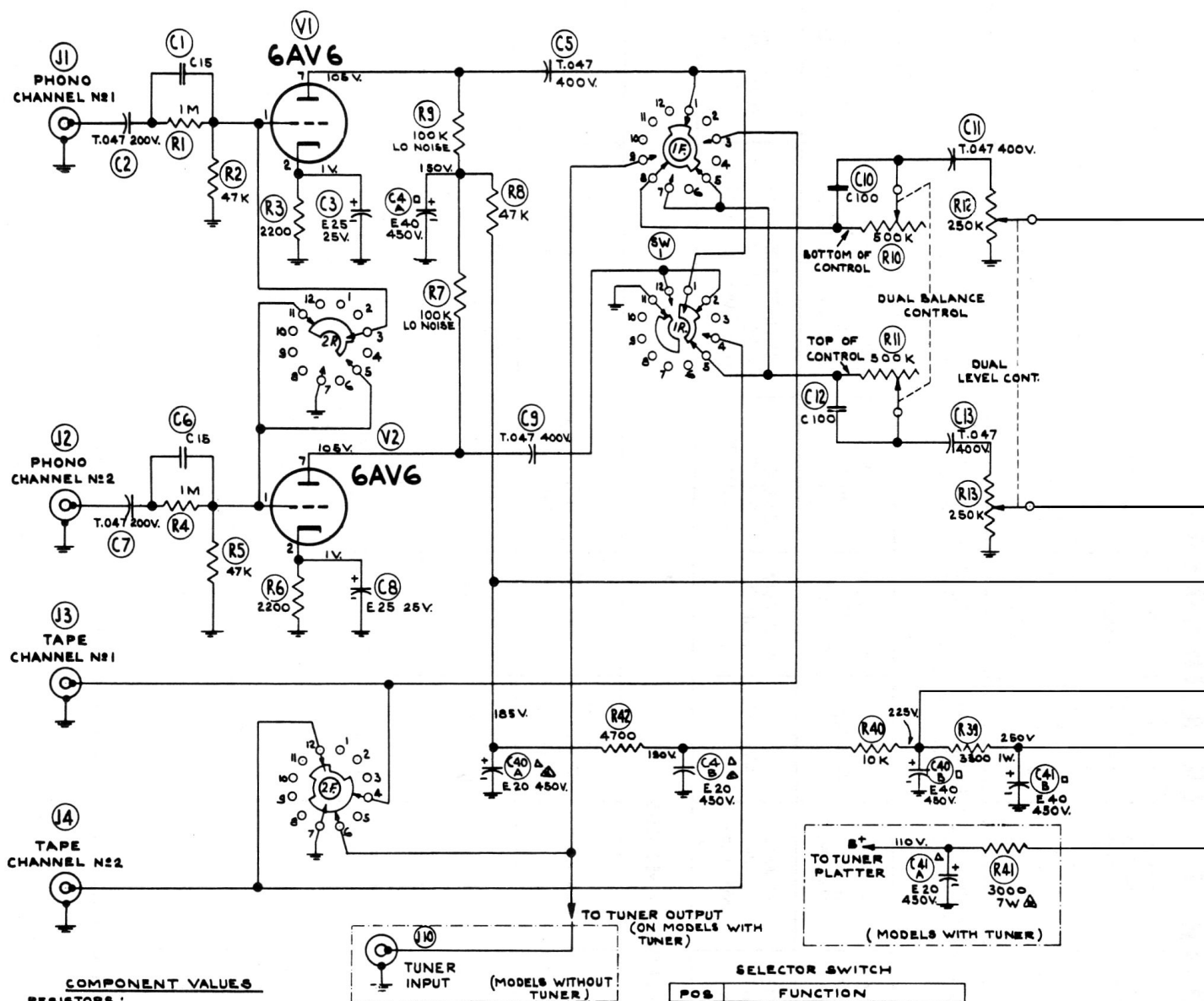
Intermodulation Distortion — Less than 1.5% at 1w output.
Hum and Noise — 80 db. below rated output.

Voltage Input Required for 5w Output .85 V AC Nominal.

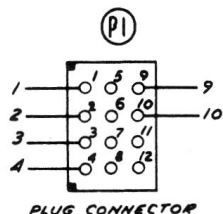
Power Output — Nominal undistorted at 1000 cps.

6w ± 1 db

Peak Power ... 12w ± 1db



Electrohome Chanterbury MKI, Chorale MKI & Chorale MKII PREAMPLIFIER

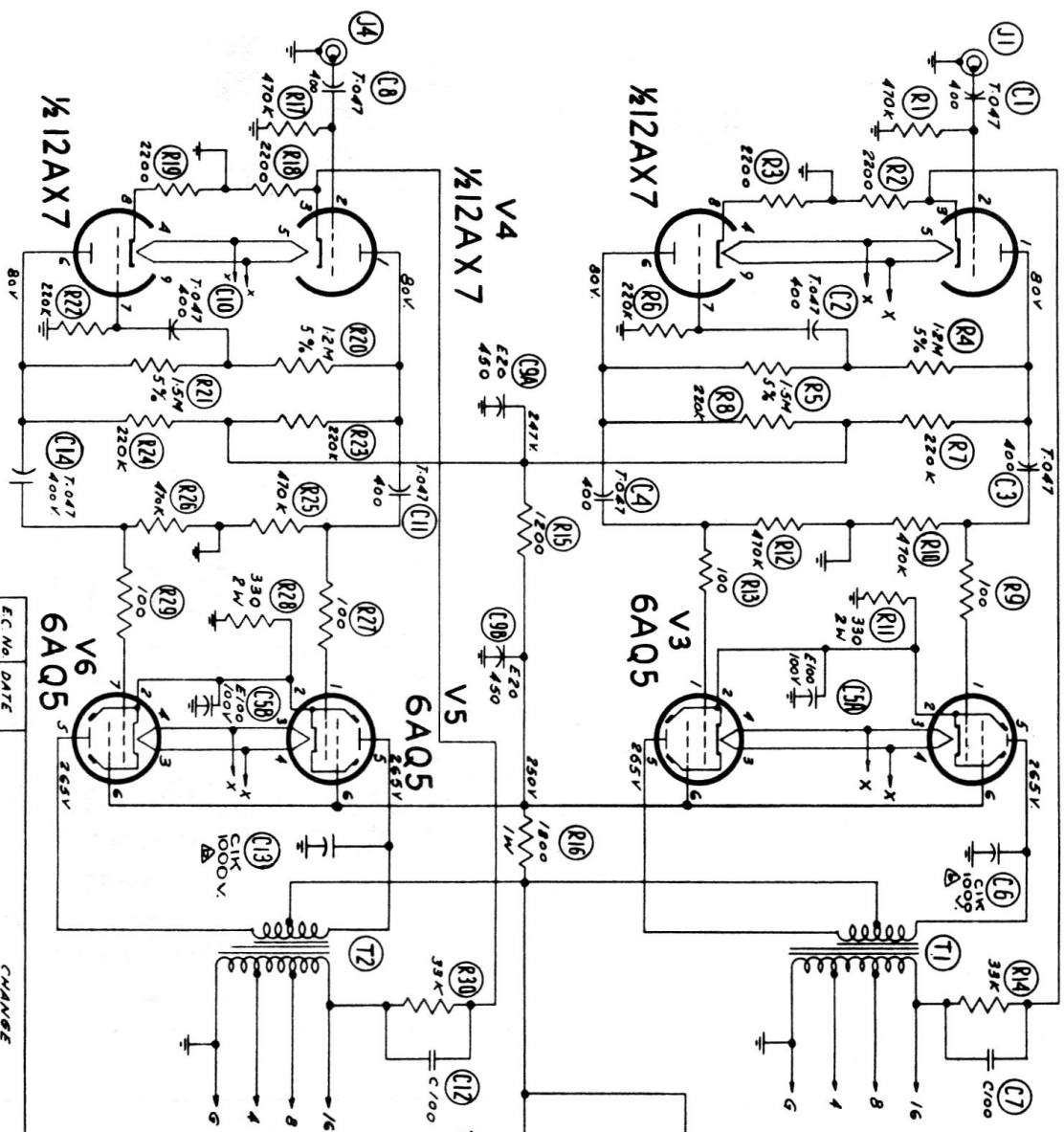


PHONO	R2 R5 R6 WERE 100K
STEREO	AND (M.C.)
STEREO	C33 DELETED (9) C39 DELETED (11)
ISSUES 12-20	NOTE ADDED (F)
ISSUES 12-20	F.I. FUSE C. NOTE ADDED (E)
ISSUES 12-20	PCB-360 ADDITIONS MADE, AS INDICATED
ISSUES 12-20	WAS 100K (A) WAS 100K (C)
ISSUES 12-20	WAS 100K (D) WAS 100K (E)
CHANGE DATE	CHANGE

● GREEN DOT
 ● BLACK DOT

ARROWS INDICATE PIN JACK TIPS
 V - INDICATES SPADE LUGS

V1 1/2 12AX7 V2 6AQ5

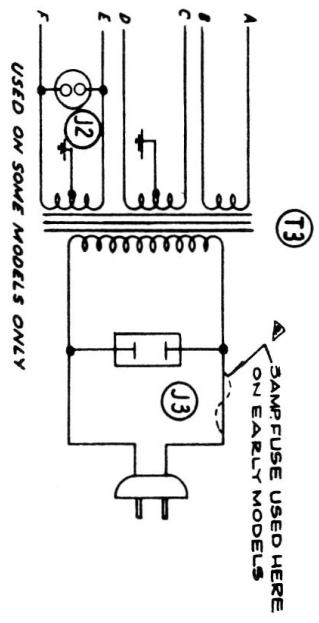


COMPONENT VALUES:

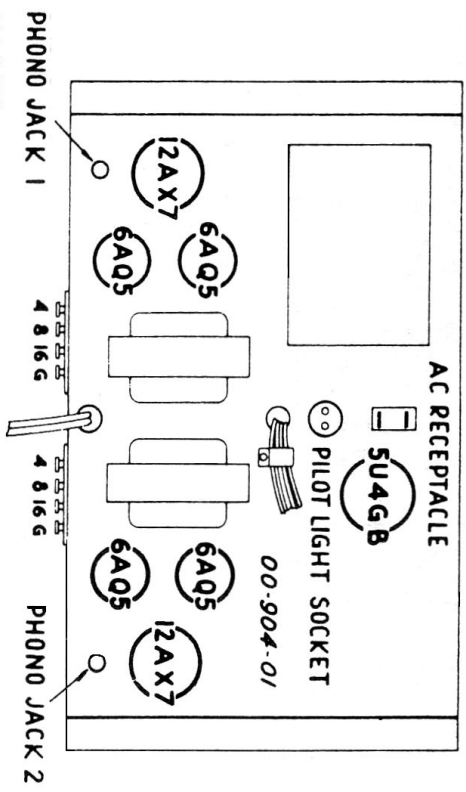
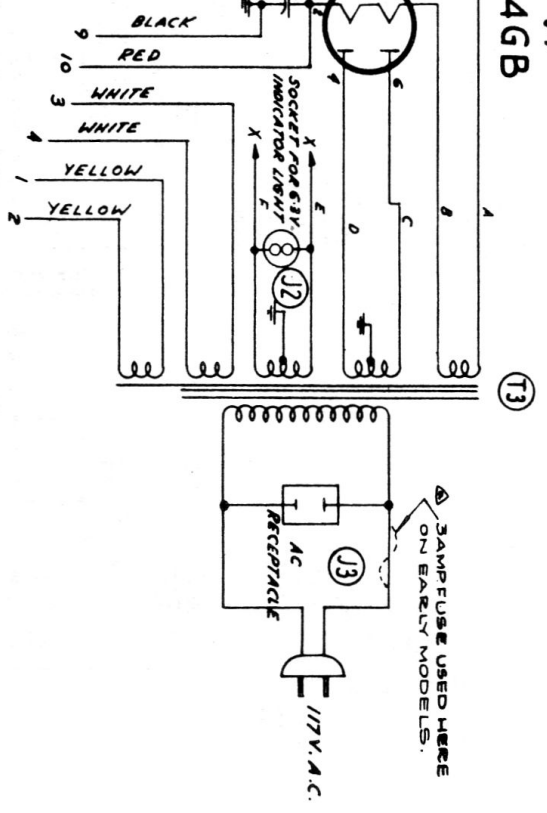
R = 1000 M = 1,000,000
 RESISTORS: HALF WATT, UNLESS OTHERWISE NOTED
 10% TOLERANCE, UNLESS OTHERWISE NOTED
 CONDENSERS: T = TUBULAR, FOLLOWED BY CAPACITY IN MFD AND DC V.
 E = ELECTROLYTIC, FOLLOWED BY CAP IN MFD AND DC V.
 C = CERAMIC, FOLLOWED BY CAP IN MFD AND TOLERANCE IF CRITICAL.

ALL VOLTAGES MEASURED TO CHASSIS WITH 20,000 OHM/VOLT METER AT 117 V LINE VOLTAGE.

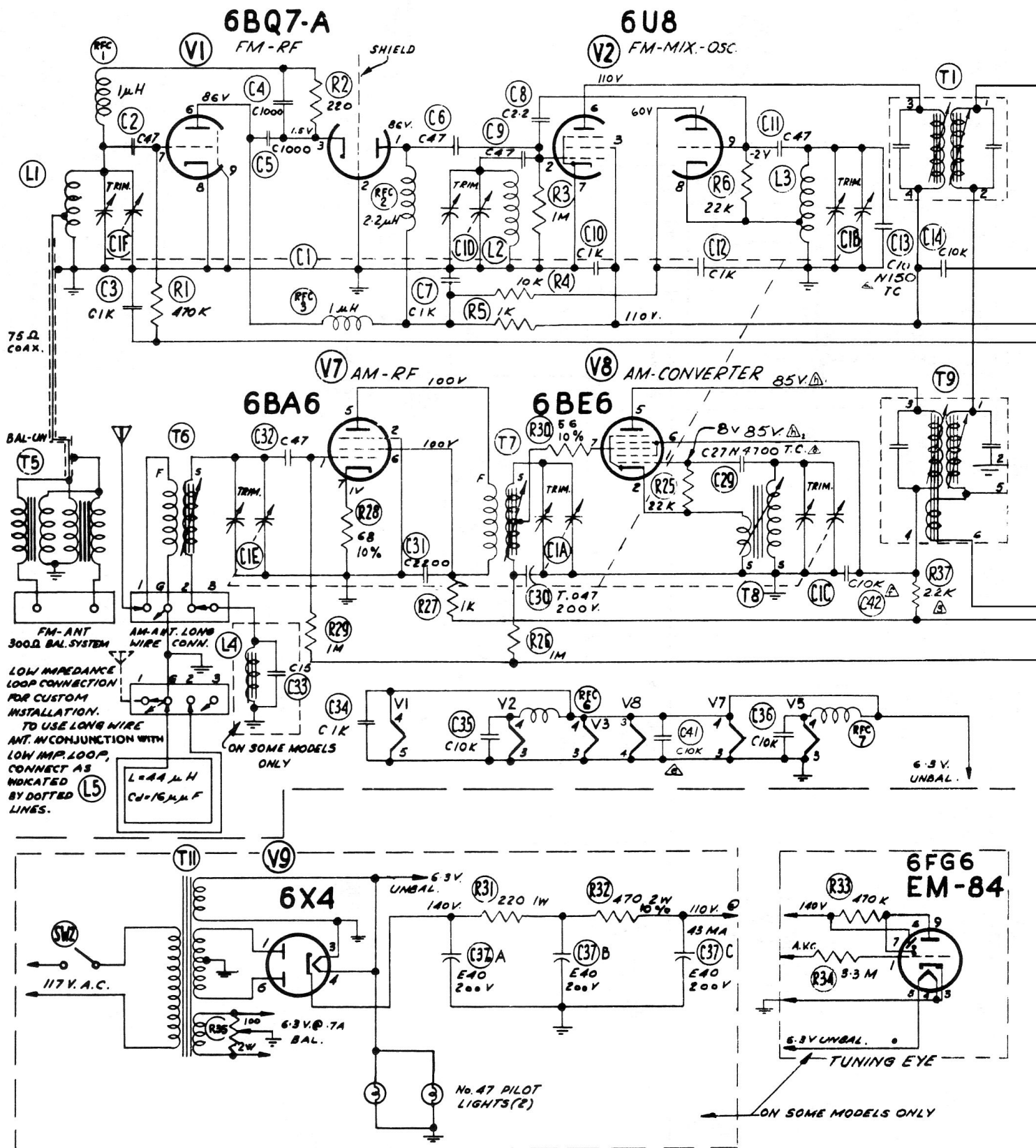
EC. NO.	DATE	CHANGE
58 864	12 21	F I R U S E D E L E T E D N O T E A D D E D (A)
58 945	10 30 58	C E C I S I V E R T O O I 6 0 0 V (B)



SLAVE AMPLIFIER



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C.N. No.	DATE	CHANGE
58-1023	11-14-58	C13 WAS N750 (A)
58-118	12-15-58	C29 WAS N5500 (A) R22 WAS 470K (C) DF1 Deleted & Replaced By R36 & C40 (A)
ISSUE 4	1-14-59	6FG6 TUBE DESIGNATION ADDED
59-70	1-29-59	C41 ADDED (C)
59-95	2-6-59	C42 ADDED (M) R37 ADDED (M) WAS 110V (A)

AM-FM TUNER

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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	PIN #7 V8 (68E6)	455 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	600 Kc/S	AC-VTVM AUDIO OUTPUT	T9 & T10 1st & 2nd AM IF	ADJUST FOR MAXIMUM OUTPUT	300 uv FOR 100 mv OUTPUT
2	CHANGE BAND SWITCH SETTING TO POSITION #3-AM-WIDE BAND (AM-HI FI), TUNE SIGNAL GEN. ACROSS 440-470 Kc/S FREQ. RANGE AND CHECK FOR APPROXIMATE RESPONSE CURVE AS SHOWN THIS TEST CAN ALSO BE MADE WITH A PROPER SWEEP GEN. & SCOPE.									
3	200 ufd	AM ANT. TERM. STRIP #1	600 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	600 Kc/S	AC-VTVM AUDIO OUTPUT	T6, T7 AND T8	CONNECT FOR LONG WIRE ANT. ADJUST FOR MAX. OUTPUT	2 uv FOR 100 mv OUTPUT
4	200 ufd	AM ANT. TERM. STRIP #1	1460 Kc/S	400 CPS AM AT 30%	#2 AM-SHARP (AM DAY)	1460 Kc/S	AC-VTVM AUDIO OUTPUT	C1A, C1E & C1C TRIMMERS	CONNECT FOR LONG WIRE ANT. ADJUST FOR MAX. OUTPUT	2 uv FOR 100 mv OUTPUT
5	REPEAT STEPS 3 & 4 AND CHECK FOR TRACKING AT 950 Kc/S									
6	UNGROUNDED TUBE SHIELD	V2 (6U8) FM MIX-OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM TO TPA	T1, T2 & T3 1st, 2nd & 3rd FM IF	ADJUST FOR MAXIMUM METER DEFLECTION	
7	UNGROUNDED TUBE SHIELD	V2 (6U8) FM MIX-OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM ACROSS C 23	T4 FM RATIO DET TRANS	ADJUST PRIMARY (BOTTOM SLUG) FOR MAX DEFLECTION	
8	UNGROUNDED TUBE SHIELD	V2 (6U8) FM MIX-OSC.	10.7 Mc/S	NONE	#4 FM	POINT OF NO INTER-FERENCE	DC-VTVM TO MULTI PLEX O.P.	T4 FM RATIO DET TRANS	ADJUST SECONDARY (TOP SLUG) FOR ZERO VOLTAGE	
9	*	FM ANT. TERM. STRIP	90 Mc/S	400 CPS FM 75 Kc/S DEVIATION	#4 FM	90 Mc/S	AC-VTVM AUDIO OUTPUT	EXPAND OR COMPRESS L1, L2 & L3	ADJUST FOR MAXIMUM OUTPUT	3 uv FOR 20 db QUIETING
10	*	FM ANT. TERM. STRIP	106 Mc/S	400 CPS FM 75 Kc/S DEVIATION	#4 FM	106 Mc/S	AC-VTVM AUDIO OUTPUT	C1B, C1D & C1F TRIMMERS	ADJUST FOR MAXIMUM OUTPUT	3 uv FOR 20 db QUIETING
11	REPEAT STEPS 9 & 10 UNTIL OUTPUT DROPS AT LEAST 20db WITH INDICATED INPUT, WHEN FM MODULATION IS TURNED OFF									
12	NONE	INPUT SIDE OF 10Kc/S FILT.	1 Kc/S	NONE	#1 AM SHARP 10 Kc/S FILT. (AM. DIST)	REMOVE 6AU6 V4	AC-VTVM AUDIO OUTPUT	ADJUST 1 Kc/S LEVEL FOR 3 VOLTS ON OUTPUT METER AND CHANGE GEN. TO 10 Kc/S	ATTENUATION 40 db MIN	

120 OHMS IN HOT LEAD AND 150 OHMS IN COLD LEAD FROM SIG GENERATOR