

PHOTOFACT® Folder



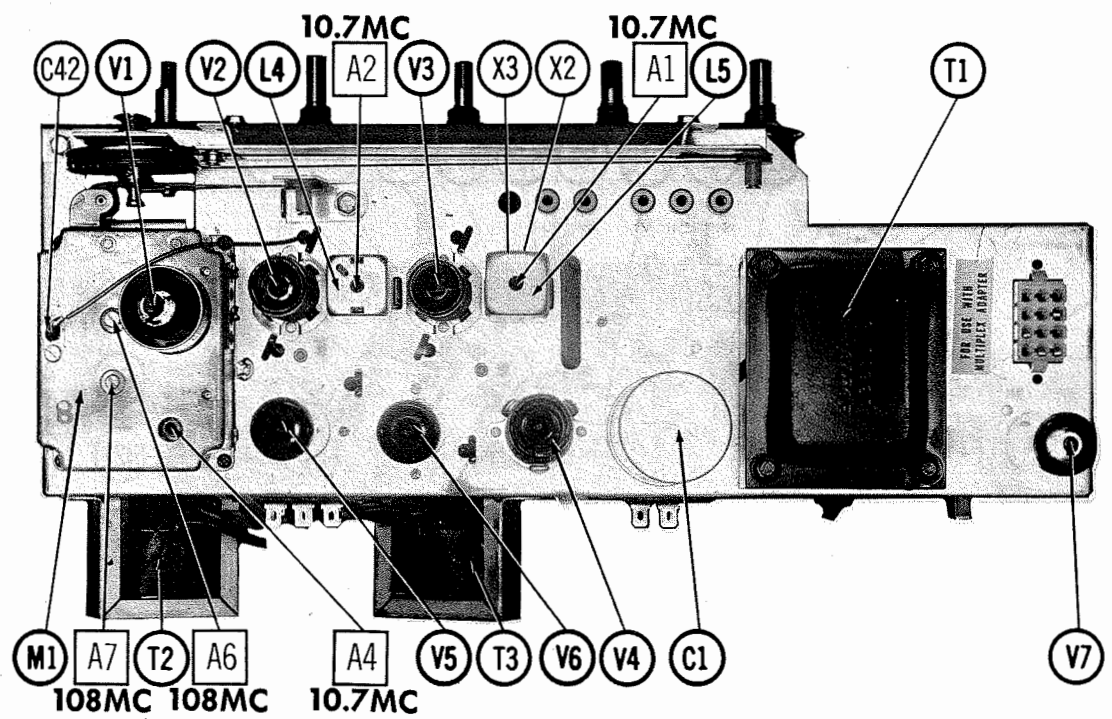
MAGNAVOX CHASSIS
69-01-00, 69-02-00



CHASSIS 69-02-00

TRADE NAME	Magnavox Chassis 69-01-00, 69-02-00		
MANUFACTURER	The Magnavox Co., 2131 Bueter Road, Fort Wayne 4, Indiana		
TYPE SET	AC Operated 7 Tube FM Receiver with Stereo Amplifier		
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles	RATING	69 Watts, .7 Amp. @117 Volts AC (Less Motor)
TUNING RANGE - FREQ. MOD.	88 - 108MC		

MAGNAVOX CHASSIS
69-01-00, 69-02-00



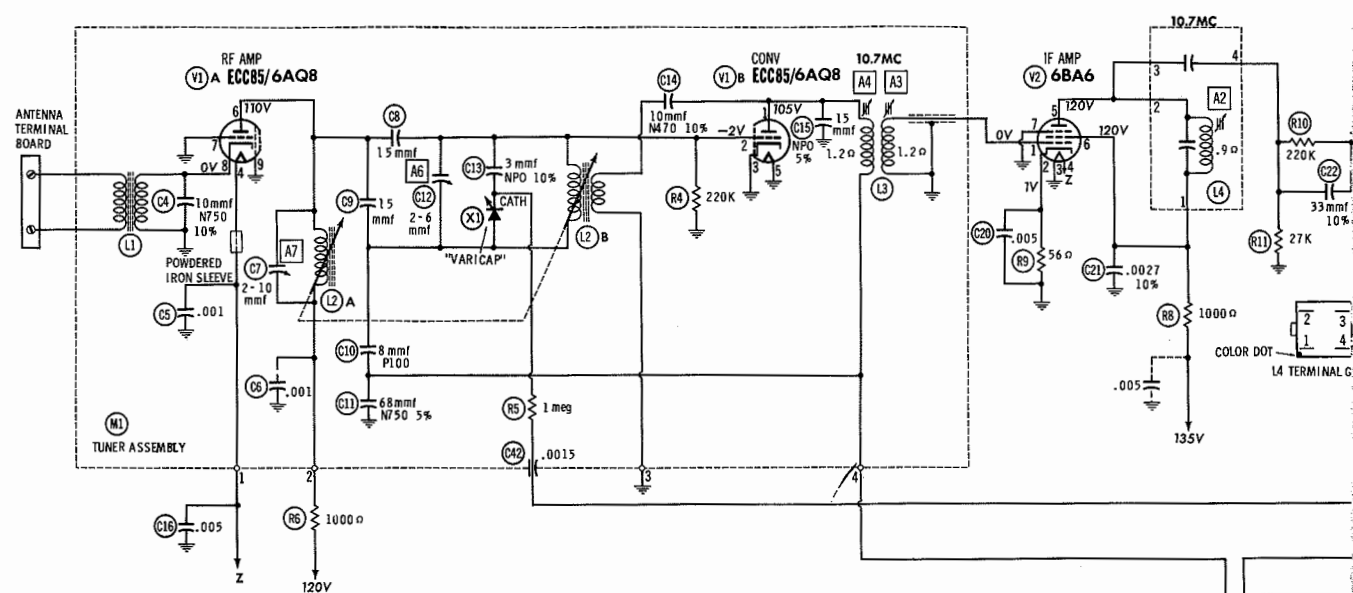
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



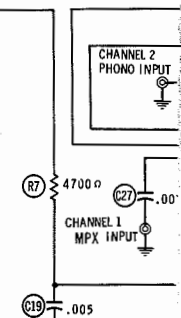
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L1798

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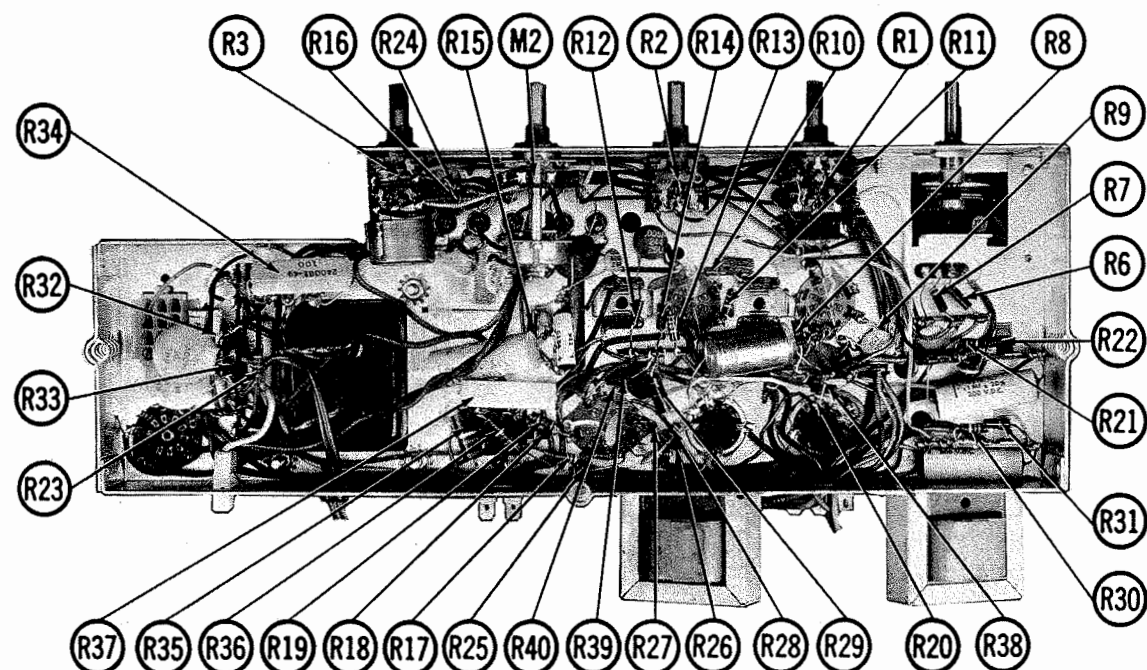
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NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.



FUNCTION SHOWN:
PHONO SWITCH:
1. STEREO
2. STEREO
3. FM



CHASSIS BOTTOM VIEW-RESISTOR & MISC IDENT

1. DC voltage meas.
AC voltages meas.
2. Socket connection
3. Measured values at
4. Line voltage mainline
5. Nominal tolerance
variation of $\pm 15\%$
A PHOTOFACT ST/ ©Howard

PARTS LIST AND DESCRIPTION

FM RF SUBCHASSIS

• AMPEREX •		GENERAL ELECTRIC •		RCA •		RAYTHEON •		SYLVANIA •	
ITEM No.	USE	TYPE		ITEM No.	USE				
V1	RF Amp.-Conv.	ECC85/ 6AQ8		V5	Output			6BQ5	
V2	IF Amp.	6BZ6		V6	Output			8BQ6	
V3	Limiter	6AU6		V7	Rectifier			6CA4	
V4	AF Amp.	6E7							

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS		NOTES
			MALLORY PART No.	SARKIS TARZIAN PART No.	
X1		250432-1			FM AFC (Varicap) Ratio Detector
X2		1N941			
X3		1N941			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	CAP.	VOIT.	MAGNAVOX PART No.	REPLACEMENT DATA		
					AEROVOX PART No.	CORNEILL DUBILIER PART No.	GENERAL ELECTRIC PART No.
C1A	40	350		270021-43	AF84-18-40	D0176	XC4-72
C1B	35	350					
C1C	30	350					
C1D	30	350					
C2	4	50		270059-5	PTT99	NLW4-50	MTI-3
C3	30	30		270027-38	PTT98	NLW30-50	MTI-12

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			AEROVOX PART No.	CENTRALAB PART No.	CORNEILL DUBILIER PART No.	ELWECO PART No.
C4	10 N750 10%		NT50-SI 10	TCN-10	C10Q10	CCTN-100
C5	.001		SI 1000	D8-102	L10D1	CCD-102
C6	2-10			829-10		B-210
C7	15		SI 15	D8-150	L10C15	CCD-150
C8	15		SI 15	D8-150	L10C15	CCD-150
C9	88 N750 5%			TCN-88	C10Q88U	CV-3
C10	2-8 N750 5%					
C11	3 NFO 10%					
C12	10 N470 10%					
C13	15 NFO 5%					
C14	15 NFO 5%					
C15	.001					
C16	.001					
C17	.001					
C18	.001					
C19	.005					
C20	.005					
C21	.0027 10%					
C22	33 10%					
C23	.005					
C24	.005					
C25	.1 30V					
C26	.0022					
C27	.0022					
C28	330					
C29	100					
C30	100					
C31	1 200V					
C32	1 200V					
C33	1 200V					
C34	.01					
C35	.01					
C36	.01					
C37	.01					
C38	.01					
C39	.01					
C40	.01 1400V					
C41	.01 1400V					

CONTROLS

Note 1. Magnavox Part Number.
Note 2. Not used in Chassis 89-01-00.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA		
			MAGNAVOX PART No.	CENTRALAB PART No.	CLAROSTAT PART No.
R1A	Loudness, 1	3.3meg	220177-1		
B	Loudness, 2	1.6meg Tap			
R2A	Base	3.3meg			
R3A	AFC Switch	1.6meg Tap			
R4	Volume	500k	220150-15		
R5	Treble, 1	1meg			
R6	Treble, 2	1meg			
R7	Power Switch				

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA		ITEM No.	RATING	REPLACEMENT DATA	
		IRC PART No.	WORKMAN PART No.			IRC PART No.	WORKMAN PART No.
R34	1000 TW		TG-100	R37	38002 TW		TG-3800

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA	
		MAGNAVOX PART No.	MERIT PART No.	STANCOR PART No.			WORKMAN PART No.	NOTES
L1	AnL		380789-1					
L2A	RF		380789-1					
L3	Base		380790-1					
L4	2nd IF		380882-1					
L5	Ratio Detector		FM-235*	1465*	RTC-8800*	T835*		

TRANSFORMER (POWER)

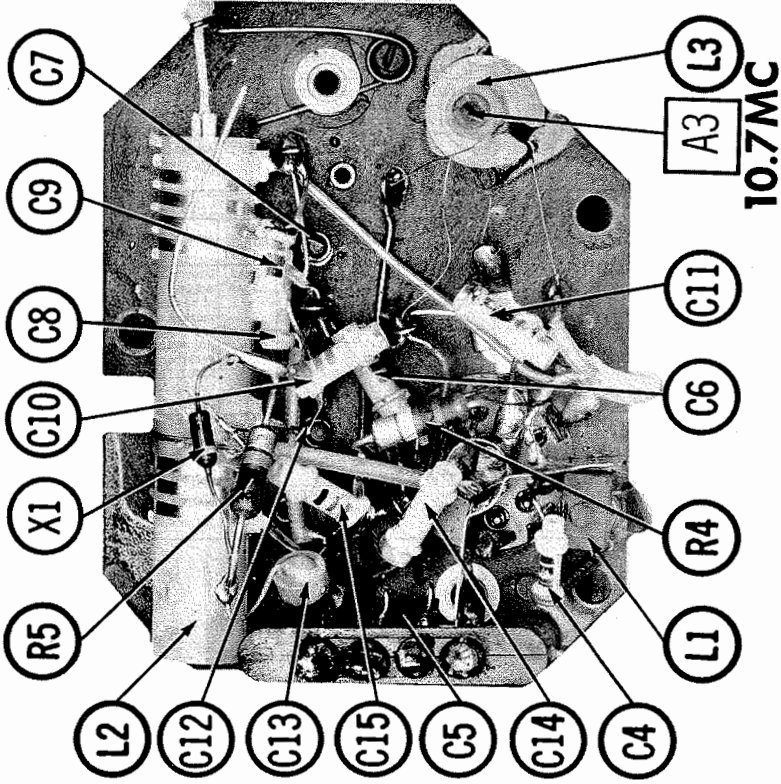
ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA	
		MAGNAVOX PART No.	MERIT PART No.	STANCOR PART No.			WORKMAN PART No.	NOTES
T1	117VAC SEC. 1 SEC. 2							
	460VCT 6.3VAC							
	@ .7A @ 125A DC							
	SEC. 3 SEC. 4 SEC. 5							
	8.3VAC @ 1.1A							

TRANSFORMER (AUDIO OUTPUT)

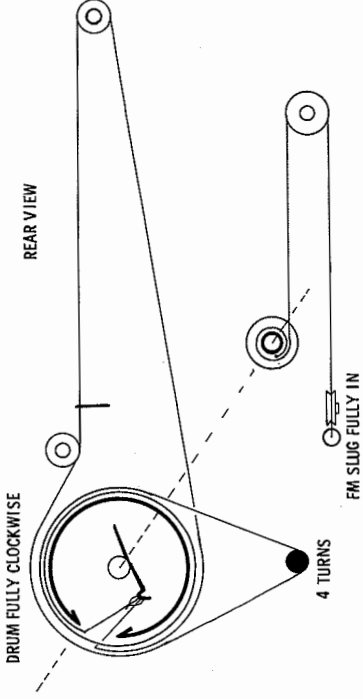
ITEM No.	IMPEDANCE	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA	
		MAGNAVOX PART No.	MERIT PART No.	STANCOR PART No.			WORKMAN PART No.	NOTES
T2	55000		320082-8					
T3	55000		320082-8					

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	REPLACEMENT DATA	
			MAGNAVOX PART No.	REPLACEMENT DATA
X1	Ratio Det. Network	330mf, 330mf, 330mf, 180K, 680K, 680K, 180K, 68K	250254-5	
X2	Tone Comp.	100mf, .001mf, 100mf, .001mf, 220K, 220K	250982-1	



DIAL CORD STRINGING

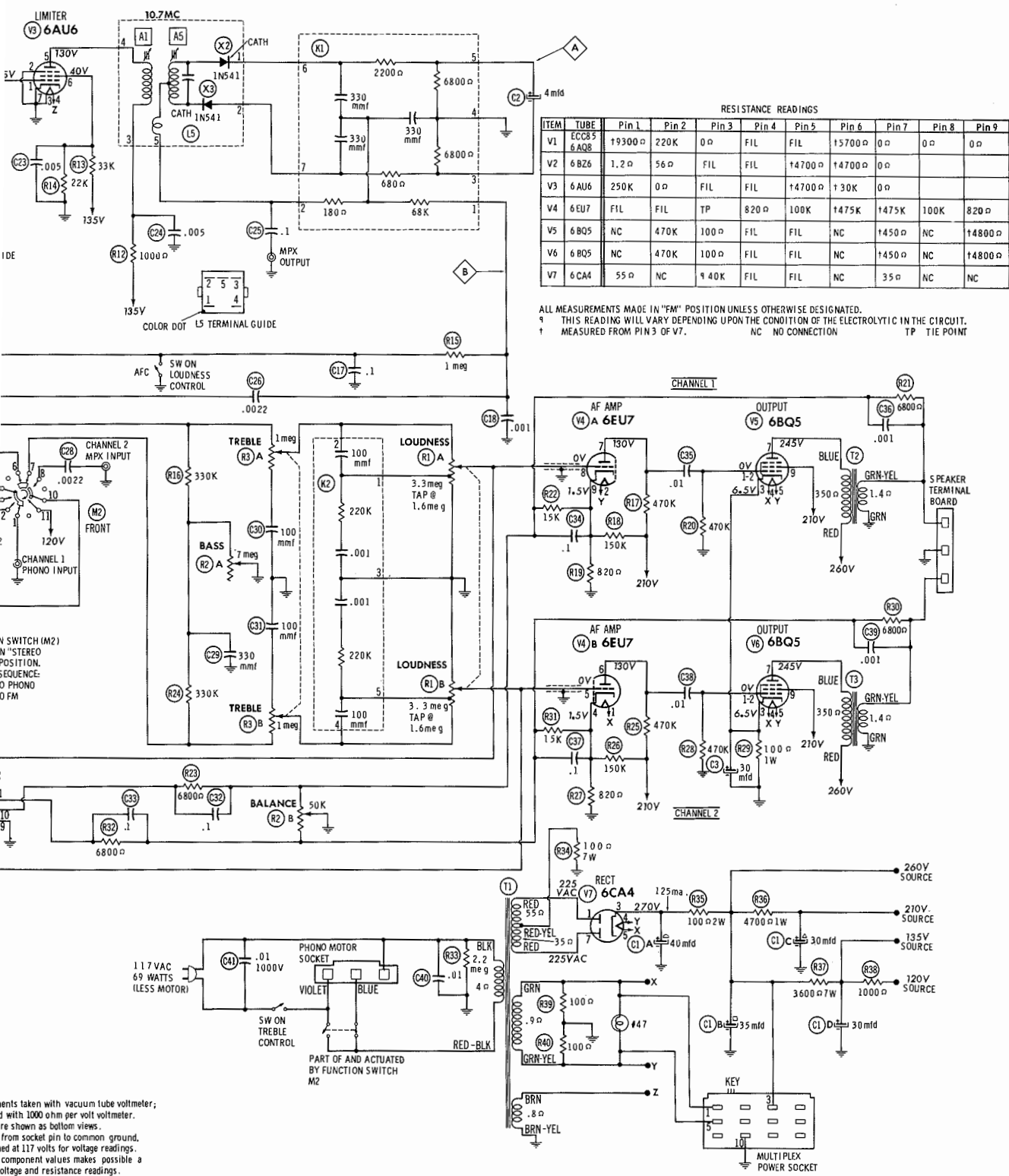


MISCELLANEOUS

ITEM No.	PART NAME	MAGNAVOX PART No.	NOTES
M1	FM Tuner Switch	340003-1	Complete Assembly Function
M2		180946-3	

WIRING DATA

General-use Unshielded Hook-up Wire Use Belden No. 8530 (Solid) Available in 12 Colors
Power Cord Use Belden No. 8524 (Stranded) Available in 12 Colors
Power Cord Use Belden No. 1706 (Plastic) or 1726 (Rubber) - 6 Ft.
Power Cord (Interlock Type) Use Belden No. 8874 (Rubber) or 8895 (Plastic)



Measurements taken with vacuum tube voltmeter;
 * with 1000 ohm per volt voltmeter.
 † are shown as bottom views.
 from socket pin to common ground.
 † at 117 volts for voltage readings.
 component values makes possible a
 voltage and resistance readings.

STANDARD NOTATION SCHEMATIC
 Sams & Co., Inc. 1963

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.
 Suggested Alignment Tools: GENERAL CEMENT 8282, 8808, 9302.... WALSCO #2543, 2544, 2588

IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — SELECTOR IN FM POSITION

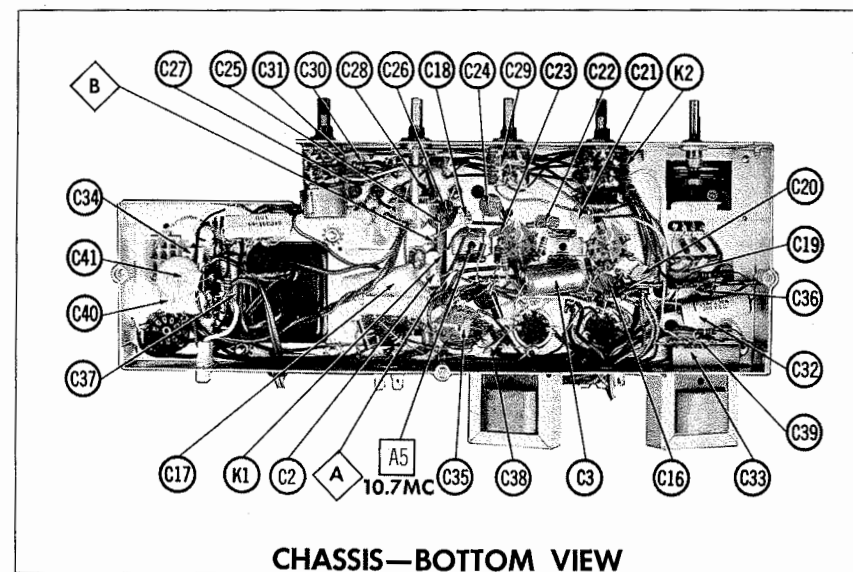
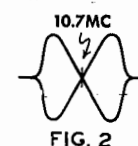
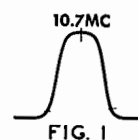
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. High side to ungrounded tube shield over V1, low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe of VTVM to point A, common to chassis.	A1, A2, A3, A4	Adjust for maximum.
2. "	"	"	DC probe to point B, common to chassis.	A5	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
3. High side to ungrounded tube shield over V1, low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	Vert. amp. of scope to point A, low side to chassis.	A1, A2, A3, A4	Disconnect stabilizing capacitor C2. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C2.
4. "	"	"	Vert. amp. to point B, low side to chassis.	A5	Adjust to place marker at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A1 for maximum amplitude and straightness of crossover lines.

RF ALIGNMENT — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. Across antenna terminals with 150K in each lead.	108MC (Unmod.)	(FM) 108MC	DC probe of VTVM to point C, common to chassis.	A6, A7	Adjust for maximum deflection.



CHASSIS—BOTTOM VIEW