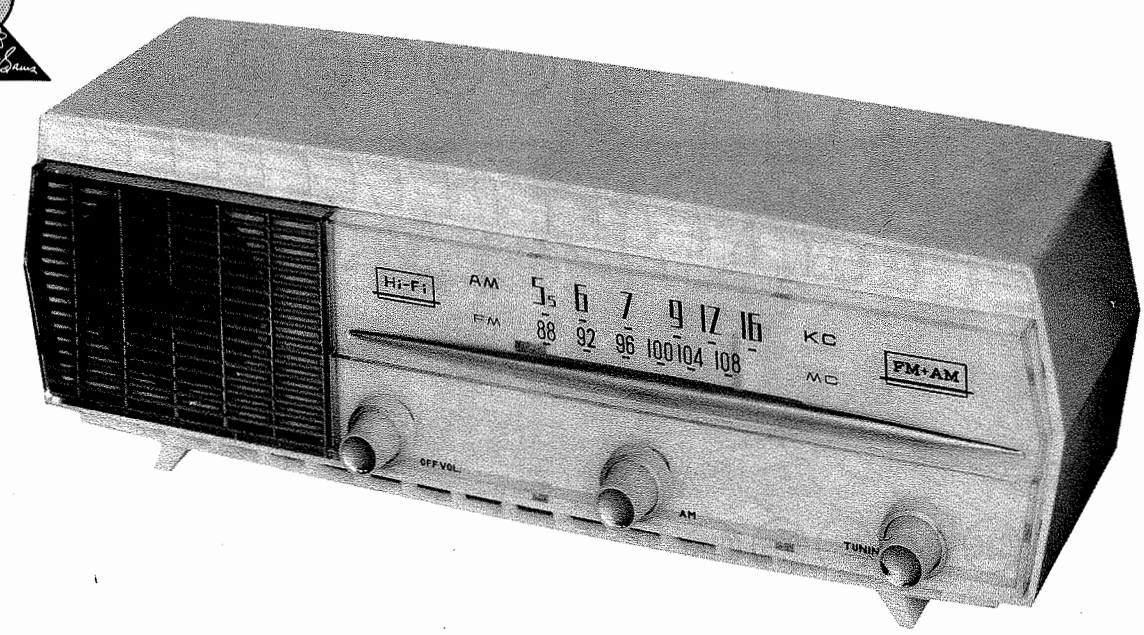


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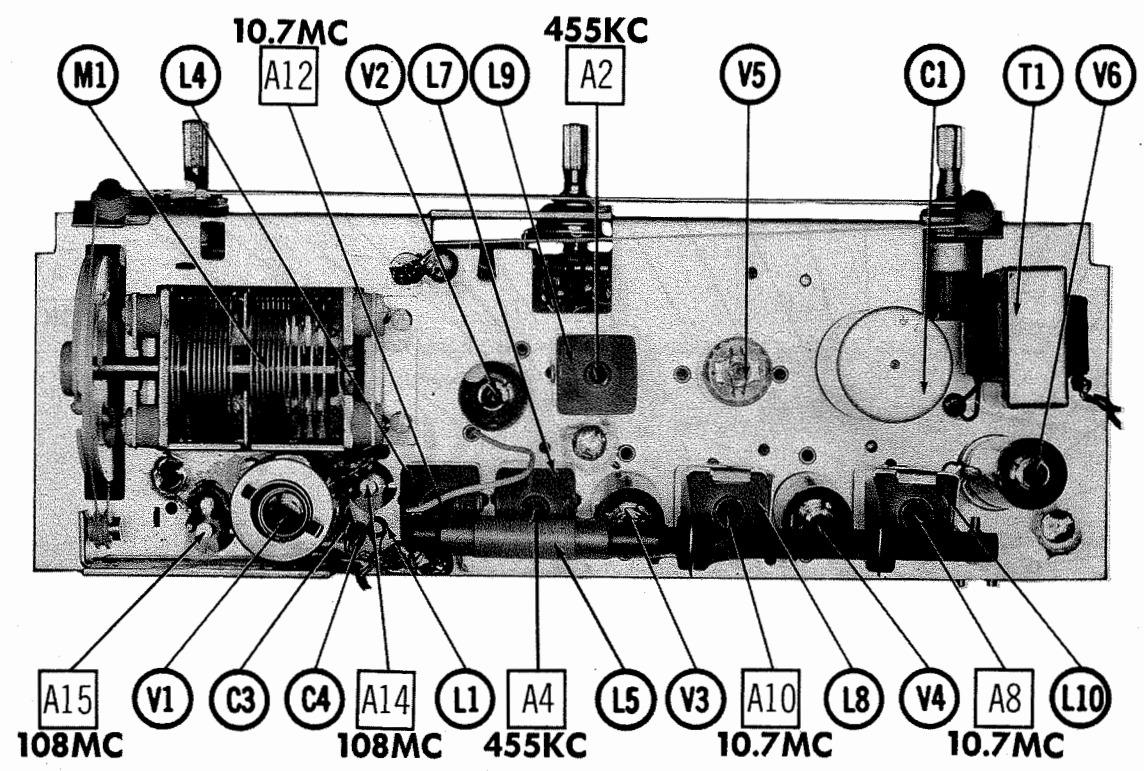


PLAYMATE
MODEL FM-6



TRADE NAME	Playmate Model FM-6
SUPPLIER	Associated Importers, 1168 Battery Street, San Francisco 11, California
TYPE SET	AC-DC Operated 6 Tube AM-FM Receiver
POWER SUPPLY	110 - 120 Volts AC-DC
TUNING RANGE	BROADCAST 540 - 1605KC
RATING	32 Watts, .36 Amp. @117 Volts AC
FREQ. MOD.	88 - 108MC

PLAYMATE
MODEL FM-6



SET 628 FOLDER 8

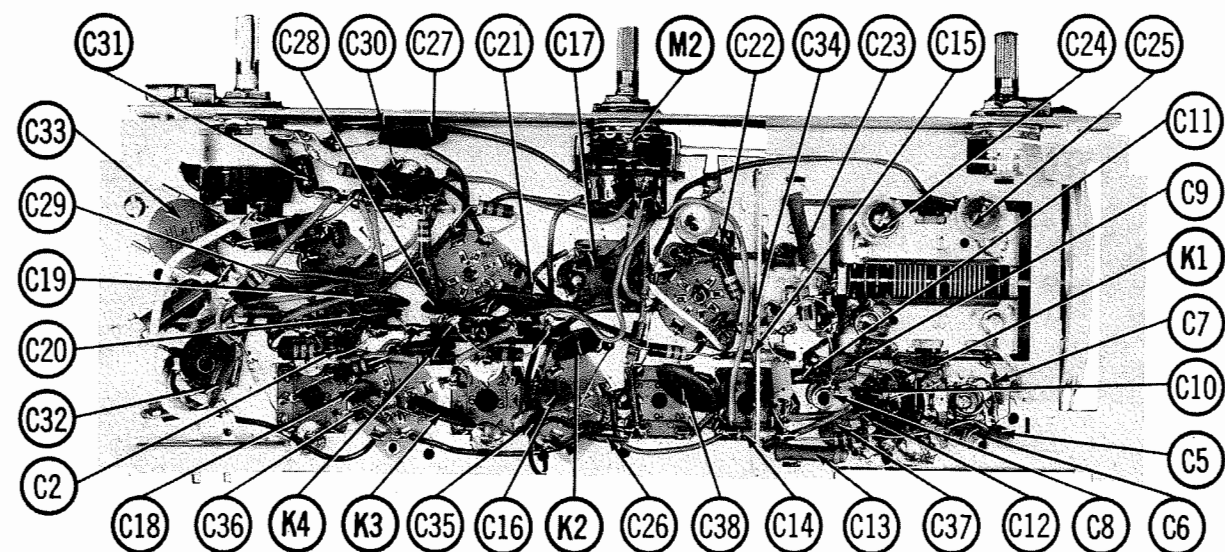
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana



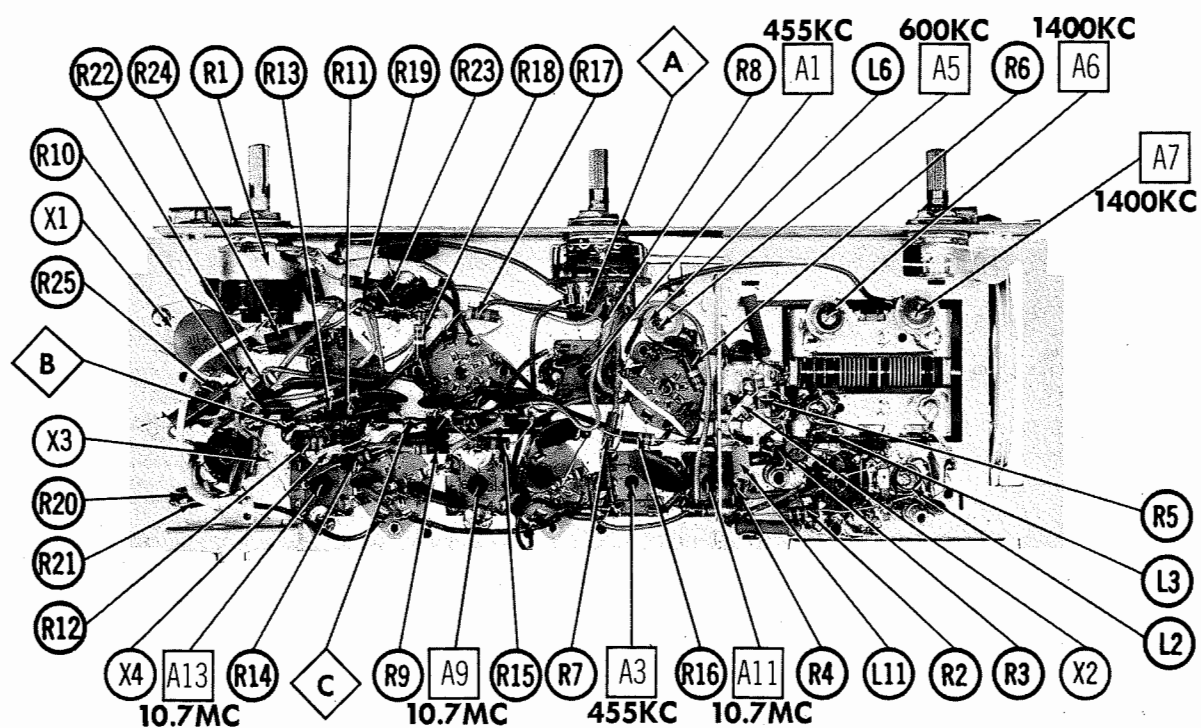
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement LK713

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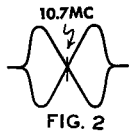
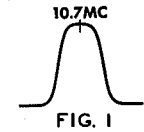
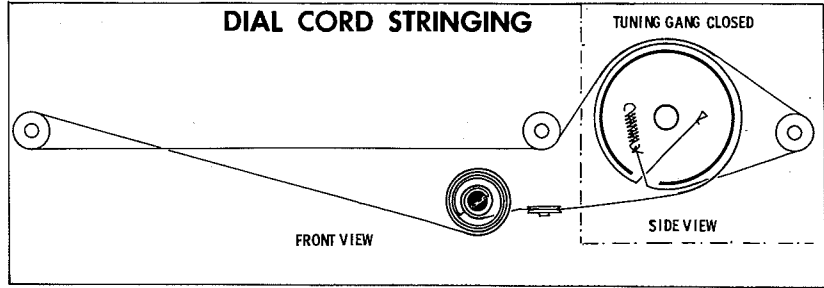
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CHASSIS BOTTOM VIEW - CAPACITOR & MISC IDENT.



CHASSIS BOTTOM VIEW - ALIGN, RESISTOR, INDUCTOR & DIODE IDENT.



ALIGNMENT INSTRUCTIONS

Use only enough generator output to provide a usable indication.
Suggested Alignment Tools:
A1 thru A15, GENERAL CEMENT #8290, 9868, 9087 WALSCO #2525, 2628, 2587

AM ALIGNMENT - SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
1.	High side thru. 1mfd to pin 7 of AM Converter, low side to chassis.	455KC (Unmod.)	Tuning gang fully open.	DC probe of VTVM to point ①, common to chassis.	A1, A2, A3, A4	Adjust for maximum deflection.
2.	"	600KC	600KC	"	A5	"
3.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	1400KC	1400KC	"	A6, A7	"

FM IF ALIGNMENT USING AM SIGNAL GENERATOR & VTVM - SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
4.	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 ①, common to chassis.	A8, A9, A10, A11, A12	Adjust for maximum deflection.
5.	"	"	"	DC probe to point ②, common to chassis.	A13	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR & OSCILLOSCOPE - SELECTOR IN FM POSITION

Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120V sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
6.	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 ①, low side to chassis.	A8, A9, A10, A11, A12	Disconnect stabilizing capacitor C2. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C2.
7.	"	"	"	Vert. amp. to point ②, low side to chassis.	A13	Adjust to place marker at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A9 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT - SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	INDICATOR	ADJUST	REMARKS
8.	High side thru 1500 to FM Ant. lead, low side thru 1500 to chassis.	108MC (Unmod.)	(FM) 108MC	DC probe of VTVM to point ①, common to chassis.	A14, A15	Adjust for maximum deflection.

PLAYMATE
MODEL FM-6

PARTS LIST AND DESCRIPTION

TUBES

ITEM No.	AMPEREX	GENERAL ELECTRIC	RCA	RAYTHEON	SYLVANIA	TYPE
V1	FM RF Amp. - FM Conv.	12BE6	12BE6	12BE6	12BE6	12BA4
V2	AM Conv.	12BA6	12BA6	12BA6	12BA6	12AV6
V3	FM AM IF Amp.					50EH5

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	MALLORY PART No.	RCA PART No.	SARKIS PART No.	TARZIAN PART No.	GENERAL ELECTRIC PART No.	NOTES
X1	90MA		A300	1N3194	40H		FM AFC	
X2							Ratio Detector	
X3								
X4								

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	PLAYMATE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1A	A 80	150							
B	B 60	150							
C	C 60	150							
C2	2	50		PTT88	NLW2-50	MTL-1	TT50X2	MLV2-50	TE-1301

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA
C3	50		CORNELL-DUBILIER PART No. 120Q5
C4	10 + 1mmf		CORNELL-DUBILIER PART No. 120Q5
C5	.001		CORNELL-DUBILIER PART No. 120Q5
C6	.002		CORNELL-DUBILIER PART No. 120Q5
C7	.002		CORNELL-DUBILIER PART No. 120Q5
C8	5 + .5mmf		CORNELL-DUBILIER PART No. 120Q5
C9	10 + .5mmf		CORNELL-DUBILIER PART No. 120Q5
C10	20 5%		CORNELL-DUBILIER PART No. 120Q5
C11	20 5%		CORNELL-DUBILIER PART No. 120Q5
C12	15 5%		CORNELL-DUBILIER PART No. 120Q5
C13	300		CORNELL-DUBILIER PART No. 120Q5
C14	.001		CORNELL-DUBILIER PART No. 120Q5
C15	.001		CORNELL-DUBILIER PART No. 120Q5
C16	.002		CORNELL-DUBILIER PART No. 120Q5
C17	.002		CORNELL-DUBILIER PART No. 120Q5
C18	.002		CORNELL-DUBILIER PART No. 120Q5
C19	.002		CORNELL-DUBILIER PART No. 120Q5
C20	.01		CORNELL-DUBILIER PART No. 120Q5
C21	.01		CORNELL-DUBILIER PART No. 120Q5
C22	100		CORNELL-DUBILIER PART No. 120Q5
C23	320 5%		CORNELL-DUBILIER PART No. 120Q5
C24			CORNELL-DUBILIER PART No. 120Q5
C25	.02		CORNELL-DUBILIER PART No. 120Q5
C26	.01		CORNELL-DUBILIER PART No. 120Q5
C27	100		CORNELL-DUBILIER PART No. 120Q5
C28	.01		CORNELL-DUBILIER PART No. 120Q5
C29	.01		CORNELL-DUBILIER PART No. 120Q5
C30	100		CORNELL-DUBILIER PART No. 120Q5
C31	.1		CORNELL-DUBILIER PART No. 120Q5
C32	.01		CORNELL-DUBILIER PART No. 120Q5
C33	.01		CORNELL-DUBILIER PART No. 120Q5
C34	.001		CORNELL-DUBILIER PART No. 120Q5
C35	.002		CORNELL-DUBILIER PART No. 120Q5
C36	.002		CORNELL-DUBILIER PART No. 120Q5
C37	.002		CORNELL-DUBILIER PART No. 120Q5
C38	.01		CORNELL-DUBILIER PART No. 120Q5

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	PLAYMATE PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume & Switch	500K		B-40-S, or S204, KR-4	A17-500K-Z1, KSS-3, SWE-12	Q13-133, 76-1 of (BUI, CFP5, S81, GCY-4)	U48 US-28 or (U451A, SK1000, US-41)

COILS (RF-IF)

ITEM No.	USE	PLAYMATE PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	NOTES
L1	FM Ant.						
L2	RF Choke						
L3	FM Osc.						
L4	1st FM IF						
L5	Loopstick						
L6	AM Osc.						
L7	1st AM IF						
L8	2nd FM IF						
L9	2nd AM IF						
L10	Ratio Detector						
L11	Full Choke (hub)						

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	PLAYMATE PART No.	Meit PART No.	Stancor PART No.	Thorndon PART No.	NOTES
T1	2100Ω					

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA	NOTES
SP1	4" PM	PLAYMATE PART No. 4A0728	

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PLAYMATE PART No.	REPLACEMENT DATA
K1	RF Coupling	82Ω, .002mfd		
K2	IF Coupling	50mfd, 220K		
K3	Limiting Grid Bias	200mfd, .0015mfd		
K4	De-Emphasis Filter			

MISCELLANEOUS

ITEM No.	PART NAME	PLAYMATE PART No.	NOTES
M1	Tuning Cap.		
M2	Selector Switch	AM-FM, 2 Gang	

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 17126 (Rubber) - 6 Ft.
Power Cord (Interlock Type) Use BELDEN No. 1706 (Plastic) or 17126 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

