

PARTS LIST AND DESCRIPTIONS (Continued)

CONTROLS (cont)

ITEM No.	REPLACEMENT DATA				INSTALLATION NOTES
	Curtis-Mathes PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	
R2A	2A19	B-70	AD47-Imeg-Z	FA16A	Bass, Channel 2
R2B	2A19	SR-70	Not Req.	RU16A	Bass, Channel 1
R2C	2A19	Not Req.	KSR-3	CS3500	Treble, Channel 1
R3A	2A19	B-70	AD47-Imeg-Z	FA16A	Treble, Channel 2
R3B	2A19	SR-70	Not Req.	RU16A	
R3C	2A19	Not Req.	KSR-3	CS3500	
R4A	8A6	WN-202	WN-202	CS3500	Hum
R4B	8A6	WN-401	A43-400	CS3500	
R4C	8A6	Not Req.	SE5	CS3500	

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R5	Imeg		R29	270K	
R6	22K		R30	500K	
R7	1000K		R31	470K	
R8	100K		R32	Imeg	
R9	100K		R33	33K	
R10	100K		R34	82K	
R11	56K 2W		R35	180K	
R12	39K		R36	6.8meg	
R13	27K		R37	150K	
R14	10K		R38	180K	
R15	10K		R39	33K	
R16	Imeg		R40	330K	
R17	68K		R41	470K	
R18	47K		R42	220K	
R19	100K		R43	Imeg	
R20	2.2meg		R44	100K	
R21	3.3meg		R45	2200K	
R22	12K		R46	100K	
R23	68K		R47	100K	
R24	100K		R48	130K 3W	
R25	33K		R49	100K	
R26	22K		R50	2400K	
R27	180K		R51	82K	
R28	560K		R52	6.8meg	

Note 1. Some versions may use 9100K in this application.
Note 2. Not used in some versions.
* Curtis Mathes Part Number.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA	ITEM No.	USE	REPLACEMENT DATA
L1	2nd FM IF Trans.	Curtis-Mathes PART No.	L10	1A10	
L2	Radio Detector	LA9	LA9	LA9	
L3	Loopstick	LA11	LA11	LA11	
L4	AM RF Coil	LA3	LA3	LA3	
L5	AM Osc. Coil	LA2	LA2	LA2	
L6	AM Input IF Trans.	LA4	LA4	LA4	
L7	AM Output IF Trans.	LA5	LA5	LA5	

† Use Adapter Plate

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA	ITEM No.	RATING	REPLACEMENT DATA
T1	SEC. 1 117V @ 1.55A SEC. 2 600 VCT 5V @ 3A SEC. 3 23A SEC. 4 6.3V @ 11V @ 3A SEC. 5 Not Used	Curtis-Mathes PART No. 12A5			

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA	ITEM No.	IMPEDANCE	REPLACEMENT DATA
T2	4500K	Curtis-Mathes PART No. 10A3	T3	4500K	Curtis-Mathes PART No. 10A3

① Alternate Part #10A3-1.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA	ITEM No.	TYPE	REPLACEMENT DATA
SP1	12" 8" PM	3-4Q 12LP-38A	SP6	5" 8" PM	5A15
SP2	8" 8" PM	8EV-38			
SP3	5" 8" PM	8EV-38			
SP4	12" 8" PM	12LP-38A			
SP5	8" 8" PM	8EV-38			
SP6	5" 8" PM	5CM-98			

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	REPLACEMENT DATA
K1	AM Det. RF Filter	50mmf, 50mmf, 47K	FA-99 Centralab Cornell-Dubilier Sprague

PHONO CARTRIDGE

ITEM No.	REPLACEMENT DATA	ITEM No.	REPLACEMENT DATA
M1	13T Not Req.	M2	13T Not Req.

PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

ITEM No.	REPLACEMENT DATA	ITEM No.	REPLACEMENT DATA
M2	W-204DD-1.5	M3	W-204DD-1.5

MISCELLANEOUS

ITEM No.	PART NAME	REPLACEMENT DATA	ITEM No.	PART NAME	REPLACEMENT DATA
M3	Tuner	3A4	M4	Tuning Cap	3A4
M4	Switch	6A13	M5	Switch	6A13
M5	Switch	6A13	M6	Switch	6A13

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

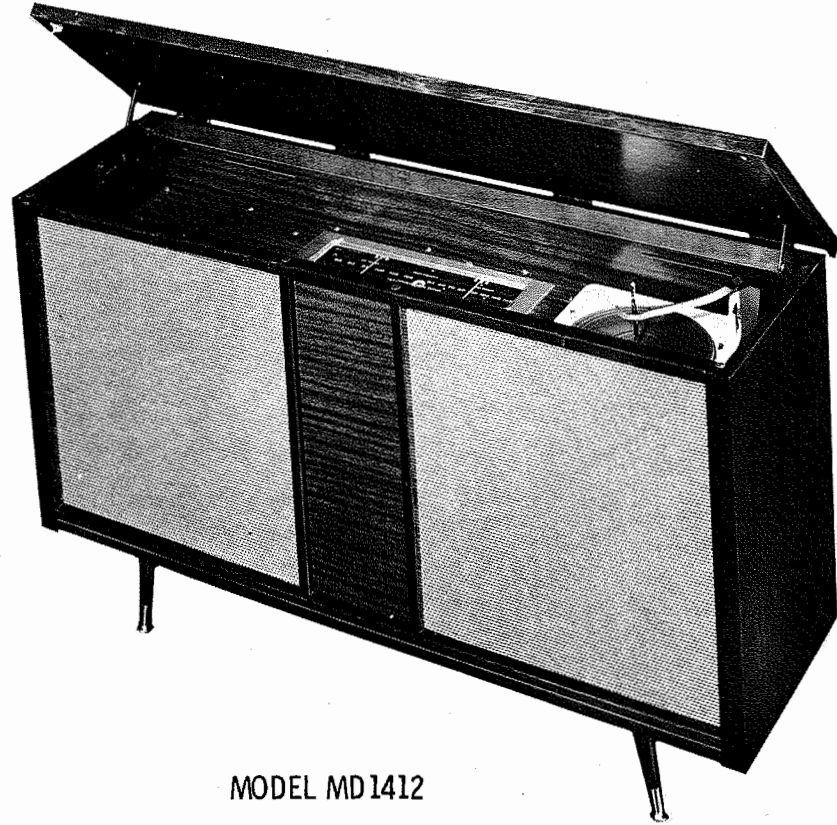
WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	8524 (Stranded) Available in Ten Colors
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 1725-K (7 1/2 Ft. Length)
Phono Pick-up Arm Cable	Use BELDEN No. 8401

CURTIS MATHES MODELS MD712, MD912, MD1012, MD1412, MD1512, MD1612, MD1712 (Ch. 12B)

FOLDER 9 SET 484

PHOTOFACT® Folder

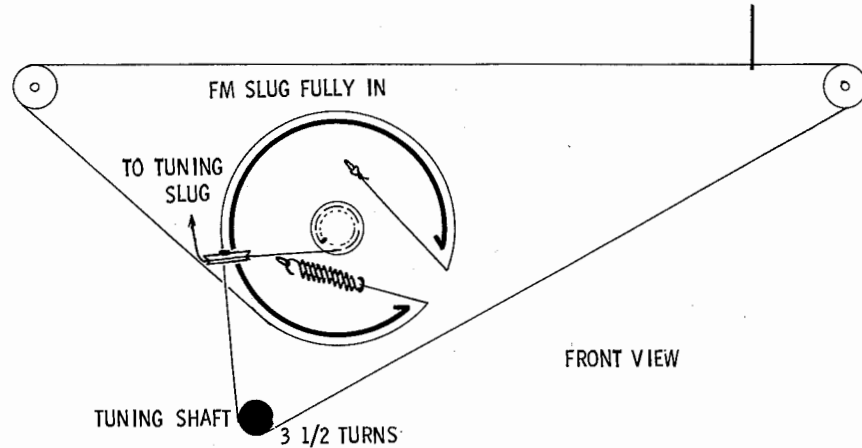


MODEL MD1412

TRADE NAME	Curtis Mathes Models MD712, MD912, MD1012, MD1412, MD1512, MD1612, MD1712, (Ch. 12B)
MANUFACTURER	Curtis Mathes Manufacturing Co., 2220 Young Street, Dallas, Texas
TYPE SET	AC Operated 17 Tube FM-AM Receiver With Stereo Output And 4 Speed Automatic Record Changer
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles
RATING	170 Watts, 1.55 Amp. @ 117 Volts AC
TUNING RANGE—BROADCAST	535 - 1620KC
FREQ. MOD.	88 - 108MC

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SIMILAR V-M 1201 - PHOTOFACT 436 FOLDER 18.

DIAL CORD STRINGING



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

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CURTIS MATHES MODELS MD712, MD912, MD1012, MD1412, MD1512, MD1612, MD1712 (Ch. 12B)

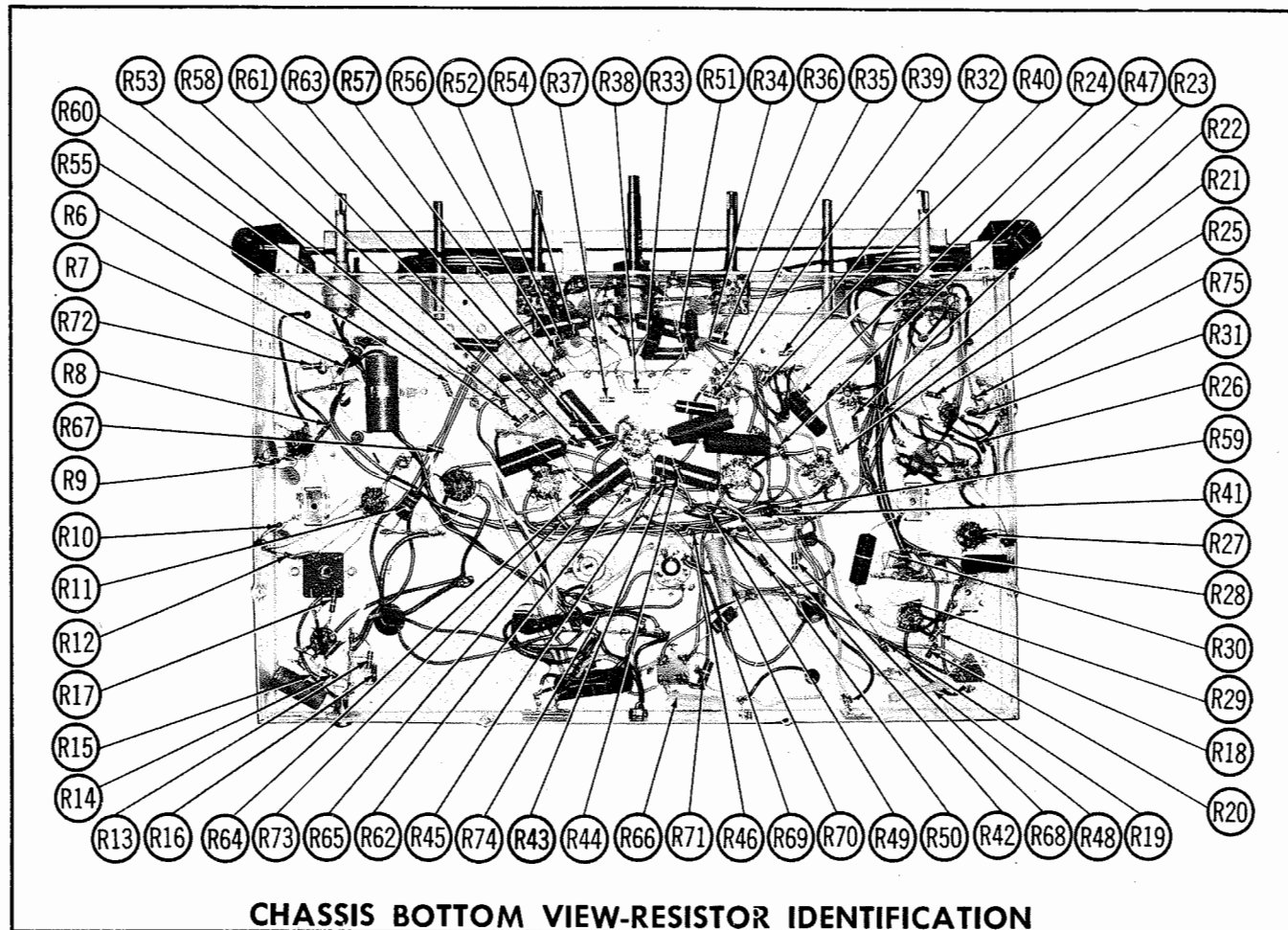
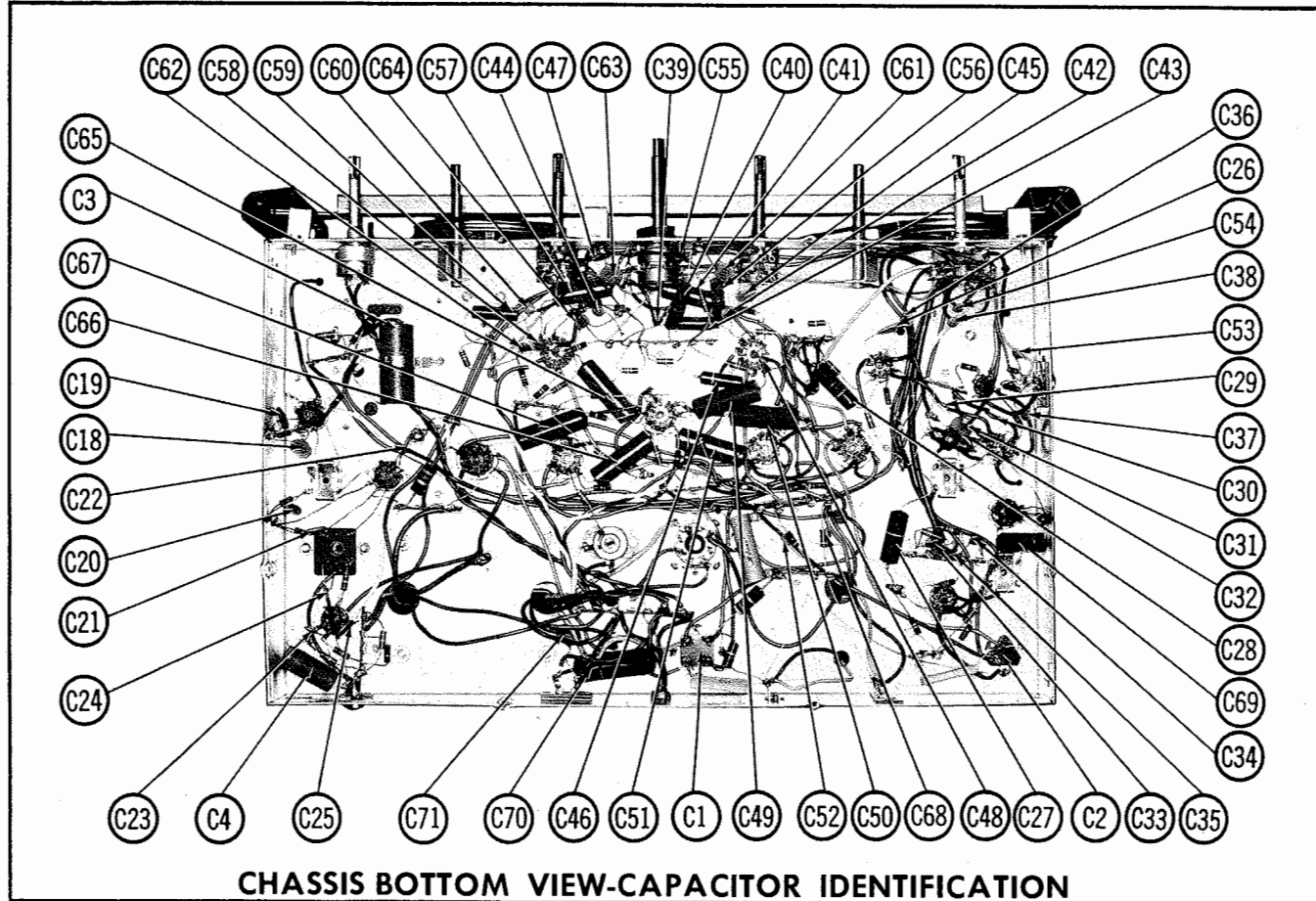
SET 484

FOLDER 9

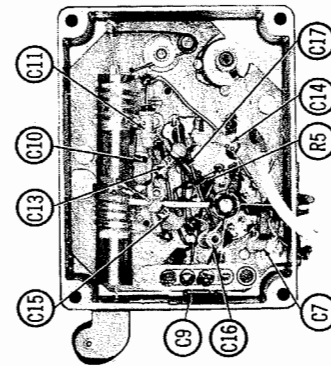
FOLDER 9

DATE 5-60

SET 484



FM RF SUBCHASSIS



PARTS LIST AND DESCRIPTIONS

♦ CBS ♦			♦ GENERAL ELECTRIC ♦		♦ RAYTHEON ♦		♦ SYLVANIA ♦	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE			
V1	FM RF Amp. - FM Conv.	6BQ7A	V10	Channel 1 AF Amp.	7025			
V2	1st FM IF Amplifier	6BA6	V11	Channel 1 Phase Inv.				
V3	FM Limiter	6AU6		Channel 2 Phase Inv.	12AX7			
V4	Ratio Detector	6AL5	V12	Channel 1 Output	EL84/6BQ5			
V5	AM RF Amplifier	6BA6	V13	Channel 2 AF Amp.	EL84/6BQ5			
V6	AM Converter	6BE6	V14	Channel 2 Output	7025			
V7	AM IF Amplifier	6BA6	V15	Channel 2 Output	EL84/6BQ5			
V8	AM Det. - AVC	6AV6	V16	Channel 2 Output	EL84/6BQ5			
V9	Tuning Indicator	6E5	V17	Rectifier	5U4GB			

EATING		REPLACEMENT DATA							NOTES
ITEM No.	CAP.	VOLT.	Curtis Mathes Part No.	AEROVOX Part No.	CORNELL-DUBIER Part No.	MALLORY Part No.	PYRAMID Part No.	SPRAGUE Part No.	
2A	60	400	4A4	AFH4-57-93	D0660	FP431. 7	TMQ-100	TVL-4747	
B	40	400							
C	10	400							
D	10	250							
22A	40	250							
B	100	25	4A13 ①	AFH2-86-45	B0623	FP229. 55	TMD-99	TVL-2709	
C	10	450	4A14 ①	PRS1720	BRU45	TC72	TD-10-450	TVA-1705	
D	25	450	4A3-A	PRS1910	BRB65-50	TC30	TT25X5	TVA-1203	
B	5	25		PRS7315	BBR20-50 †	TNC500		TVANS-1204.1*	
C	10	25NP		PRS7315	BBR20-50 †	TNC500		TVANS-1204.1*	
D	10	25NP							

D C3 may be part of C2 in some versions (Part #4A12).

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

Use 2 units. Connect negative terminals together. Connect positive terminals into

FIXED CAPACITORS

FIXED CAPACITORS
Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					SPRAGUE PART No.
			AEROVOX PART No.	CENTRALAB PART No.	CORNING DOWNEY PART No.	ELEMENTO PART No.	MALORY PART No.	
C7	10		SI 1000	DD-102	BYA10DI	CCD-102	GP210	10TS-D10
C8								
C9	1000							
C10	20							
C11	20							
C12								
C13	8.2							
C14	6.8							
C15	10							
C16	15							
C17	1000		SI 1000	DD-102	BYA10DI	CCD-102	GP210	10TS-D10
C18	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	GP247	5HK-D47
C19	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	GP247	5HK-D47
C20	47	N750	N750-D1 47	DTN-47	C10Q47U	CC-TN-470	GP447	10TCU-Q47
C21	21		BPD-0047	DD-472	BYA10D47M	CCD-472	GP247	5HK-D47
C22	222		BPD-0047	DD-472	BYA10D47M	CCD-472	GP247	5HK-D47
C23	4700		BPD-00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C24	330		BPD-00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C25	330		BPD-00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C26	2700		BPD-0027	DD-272	C10Q47U	CCD-272	GP227	10TS-D27
C27	2700		BPD-0027	DD-272	C10Q47U	CCD-272	GP227	10TS-D27
C28	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C29	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C30	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C31	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C32	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C33	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C34	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C35	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C36	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C37	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C38	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C39	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C40	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C41	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C42	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C43	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C44	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C45	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C46	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C47	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C48	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C49	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C50	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C51	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C52	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C53	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C54	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C55	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C56	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C57	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C58	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C59	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C60	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C61	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C62	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C63	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C64	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C65	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C66	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C67	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C68	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C69	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C70	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C71	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C72	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C73	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C74	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C76	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C82	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C83	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C85	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C90	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C121	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C122	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
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C131	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C132	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C133	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C134	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C135	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C136	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C137	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C138	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C139	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C140	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C141	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C142	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C143	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C144	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C145	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C146	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C147	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C148	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C149	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C150	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C151	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C152	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C153	2000		BPD-0020	DD-203	C10Q47U	CCD-203	GP203	5HK-S0
C154	2000		BPD-0020					

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORRELL DUBILIER PART No.	ELEMENTO PART No.	MALORY PART No.	SPRAGUE PART No.
C40	.01 200V		P 288N-01	DD-103	CUB34S1	4DP-1-103	GEM-411	4TM-S10
C41	.047 200V		P 288N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C42	.220		DI-220	DD-221	L10722	CCD-221	GP322	10TS-T22
C43	.0047 400V		P 488N-0047	DD-472	CUB36D47	6DP-1-472	GEM-6247	6TM-D47
C44	.330		BPD-.00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C45	4700		BPD-.0047	DD-472	BYA10AD47M	CCD-472	GP247	5HK-D47
C46	.0015 400V		P 488N-0015	DD-152	CUB36D15	6DP-1-152	GEM-6215	6TM-D15
C47	4700		BPD-.0047	DD-472	BYA10AD47M	CCD-472	GP247	5HK-D47
C48	100 N150							4TM-S10
C48	.047 400V		P 488N-047	DD-508	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C49	.047 400V		P 488N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C50	.047 400V		P 488N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C51	.047 400V		DI-680	DD-680	BYA10T68	CCD-681	GP368	10TS-T68
C52	.680		BPD-.00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C53	.330		BPD-.00047	DD-471	BYA10T47	CCD-471	GP347	10TS-T47
C54	.330		BPD-.00047	DD-471	BYA10T47	CCD-471	GP347	10TS-T47
C55	.47 200V		DI-47	DD-470	L10047	CCD-470	GP447	10TS-Q47
C56	.05 200V		P 288N-01	DD-103	CUB34S1	4DP-1-103	GEM-411	4TM-S47
C57	.047 200V		P 288N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C58	.220		DI-220	DD-221	L10722	CCD-221	GP322	10TS-T22
C59	.0047 400V		P 488N-0047	DD-472	CUB36D47	6DP-1-472	GEM-6247	4TM-D47
C60	4700		BPD-.00033	DD-331	L10733	CCD-331	GP333	10TS-T33
C61	4700		BPD-.0047	DD-472	CUB36D47	CCD-472	GP247	5HK-D47
C62	1500		BPD-.0015	DD-152	BYA10AD15	CCD-152	GP215	5HK-D15
C63	4700		BPD-.0047	DD-472	BYA10AD47M	CCD-472	GP247	10VCP-T10
C64	100 N150							4TM-S47
C65	.047 400V		P 488N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C66	.047 400V		P 488N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C67	.047 300V		P 488N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	4TM-S47
C68	.680		DI-680	DD-680	BYA10T68	CCD-681	GP368	10TS-T68
C69	.047 200V		P 288N-047	DD-503	CUB34S47	4DP-3-473	GEM-4147	2TM-S47
C70	.1 600V		P 688N-1	DD-103	CCD-103		GEM-601	5HK-P1
C71	10000		BPD-.01	DD-103	DD-103		GP110	5HK-S10

† Alternate Value.

† Alternate Value.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	Quartz Number	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RIA	2mg	1						Loudness, Channel 2
B	200K Tap 2mg	1	2A20					Loudness, Channel 1

**CURTIS MATHES MODELS MD712,
MD912, MD1012, MD1412, MD1512,
MD1612, MD1712 (Ch. 12B)**

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.	
Suggested alignment tools:	
A1 thru A4, A9.....	GENERAL CEMENT #5009, 8195, 8274, 8275, 8728, 8729, 8987, 8988, 8989
WALSCO #2515, 2531, 2532	
A5, A6, A7.....	GENERAL CEMENT #5004, 5008, 5009
WALSCO #2520	
A8, A12.....	GENERAL CEMENT #9091, 9091-L
WALSCO #2542	
A10, A11.....	GENERAL CEMENT #8282, 8606, 8606-L, 9091
WALSCO #2526, 2541, 2542, 2543, 2544	
A13, A14.....	GENERAL CEMENT #5004, 5009, 8195, 8274, 8275, 8607, 8728, 8987, 8988, 8989, 9291
WALSCO #2515, 2520, 2522, 2523, 2531, 2532, 2534, 2537, 2538	

AM ALIGNMENT — SELECTOR IN AM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. High side thru .1mfd to AM external antenna terminal. Low side to chassis.	455KC (400v Mod.)	(AM) Tuning gang fully open.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output.
2. High side thru .1mfd to pin 1 (grid) of AM RF Amp. Low side to chassis.	1620KC	"	"	A5	"
3. "	1400KC	Tune to 1400KC Signal.	"	A6	Set pointer to 1400KC. Adjust A6 for maximum output.
4. High side thru 50mmf to AM external antenna. Low side to chassis.	"	"	"	A7	Adjust for maximum output while rocking tuning gang.

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

Connect two matched 100K (+ 1%) resistors in series from point A to chassis. The junction of these two resistors is alignment point B as shown on the schematic.					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5. Across FM antenna terminals with 120Ω in each lead.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point A. Common to chassis.	A8, A9, A10, A11	Adjust for maximum deflection.
6. "	"	"	DC probe to point B. Common to point A.	A12	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 AND 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	CONNECT SCOPE	ADJUST	REMARKS
5. Across FM antenna terminals with 120Ω in each lead.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert amp. to point A. Low side to chassis.	A8, A9, A10, A11	Disconnect Stabilizing Capacitor C4. Adjust for maximum gain and symmetry of response similar to Fig. 1. Reconnect C4.
6. "	"	"	Vert. amp. to point B. Low side to chassis.	A12	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A8 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT — SELECTOR IN FM POSITION

SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
7. Across FM antenna terminals with 120Ω in each lead.	108MC (Unmod.)	(FM) 108MC	DC probe to point A. Common to chassis.	A13	Adjust for maximum deflection.
8. "	98MC	98MC	"	A14	"

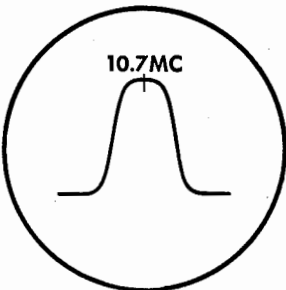


FIG. 1

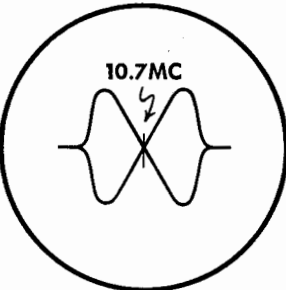
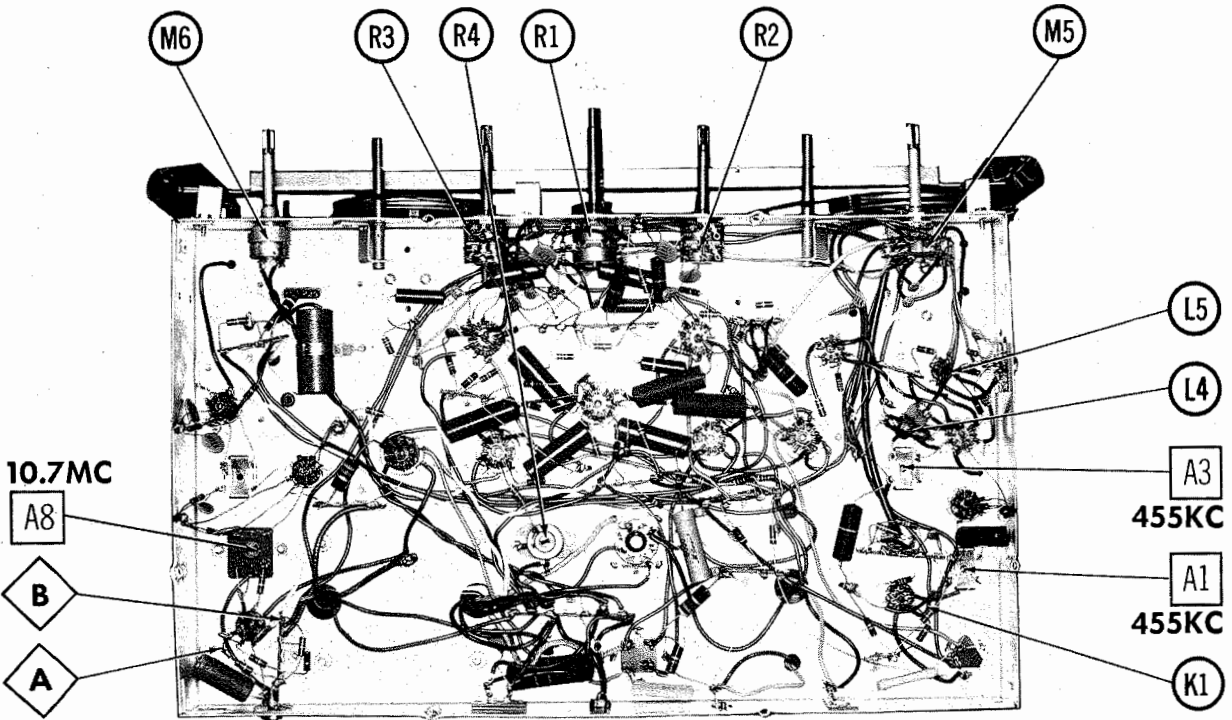


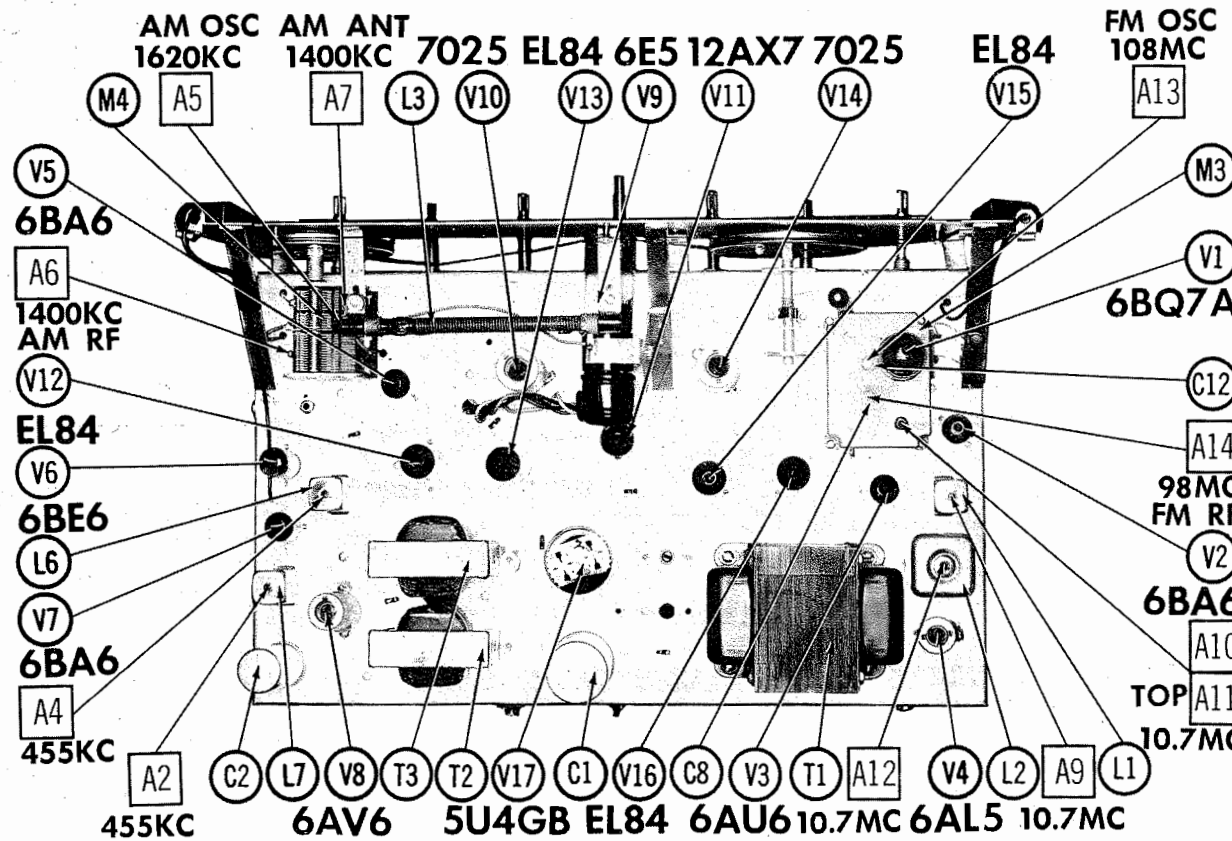
FIG. 2

CURTIS MATHEWS MODELS MD712, MD912, MD1012, MD1412, MD1512, MD1612, MD1712 (Ch. 12B)

FOLDER 9



CHASSIS BOTTOM VIEW - ALIGNMENT, INDUCTOR & MISC. IDENT.



CHASSIS - TOP VIEW

