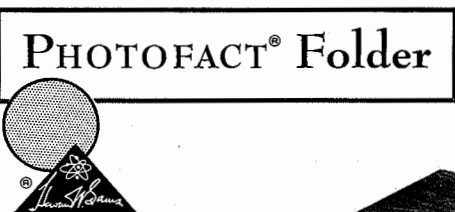
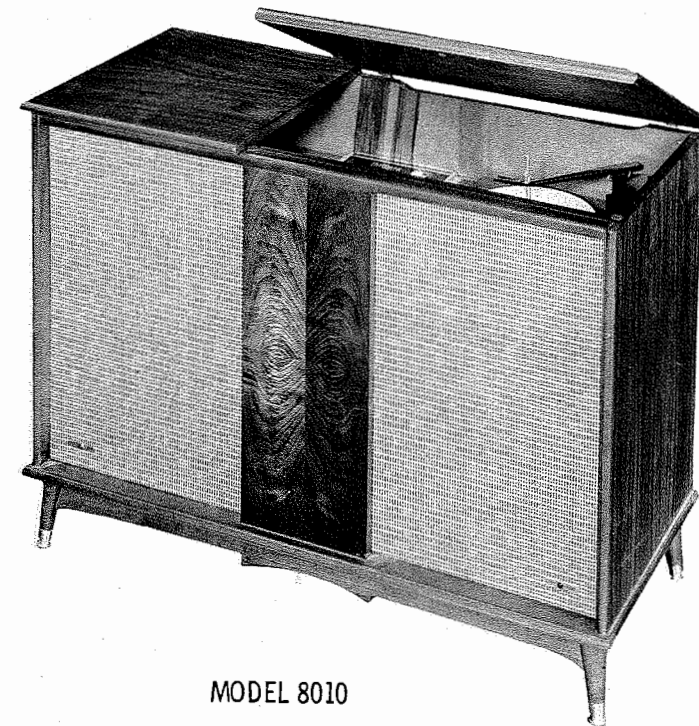


FOLDER 7  
SET 501



**HOFFMAN MODELS 8008, 8009, 8010 (Ch. 1136, 1138, 1140, 1141)**

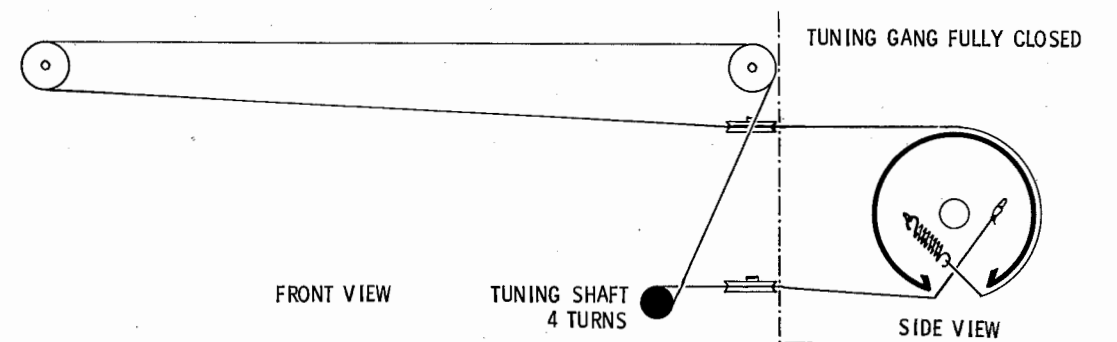
**HOFFMAN MODELS 8008, 8009, 8010 (Ch. 1136, 1138, 1140, 1141)**



TRADE NAME	Hoffman Models B8008, M8008, SP8008, W8008 (Tuner Ch. 1141, Amp. Ch. 1140) B8009, M8009, SP8009, W8009 (Tuner Ch. 1138, Amp. Ch. 1140) B8010, M8010, SP8010, W8010 (Tuner Ch. 1138, Amp. Ch. 1136)	
MANUFACTURER	Hoffman Electronics Corp., Consumer Products Div., 6200 S. Avalon Blvd., Los Angeles 3, Calif.	
TYPE SET	AC Operated FM-AM Receiver With Stereo Amplifier and 4 Speed Automatic Record Changer	
TUBES	Tuner Chassis 1138: 10 Tuner Chassis 1141: 9	Amplifier Chassis 1136: 7 Amplifier Chassis 1140: 4
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING 170 Watts, 1.5 Amp. @117 Volts AC (Ch. 1138 & 1136) 120 Watts, 1 Amp. @117 Volts AC (Ch. 1138 & 1140)
TUNING RANGES—BROADCAST	535 - 1620KC	FREQ. MOD. 88-108MC

FOR SERVICE INFORMATION ON RECORD CHANGER PART #990010 USED IN MODELS 8009 SERIES AND CHANGER PART #990012 USED IN MODELS 8010 SERIES — SEE GLASER-STEERS GS-77 — PHOTOFACT SET 399 FOLDER 7  
FOR SERVICE INFORMATION ON RECORD CHANGER PART #990011 USED IN MODELS 8008 SERIES — SEE V-M 1201 — PHOTOFACT SET 436 FOLDER 18 OR RECORD CHANGER MANUAL RC-12

### DIAL CORD STRINGING



**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 JN868

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

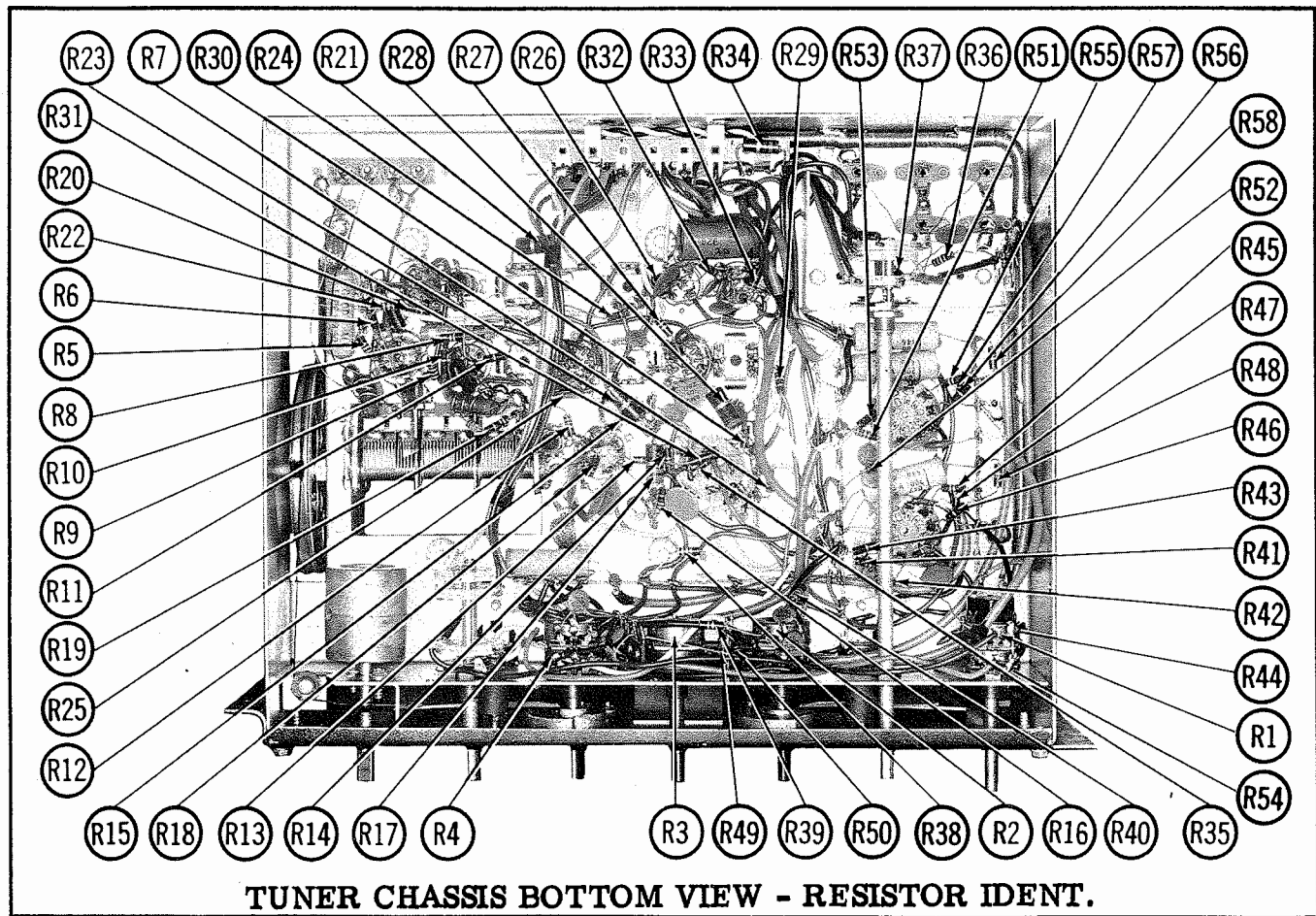
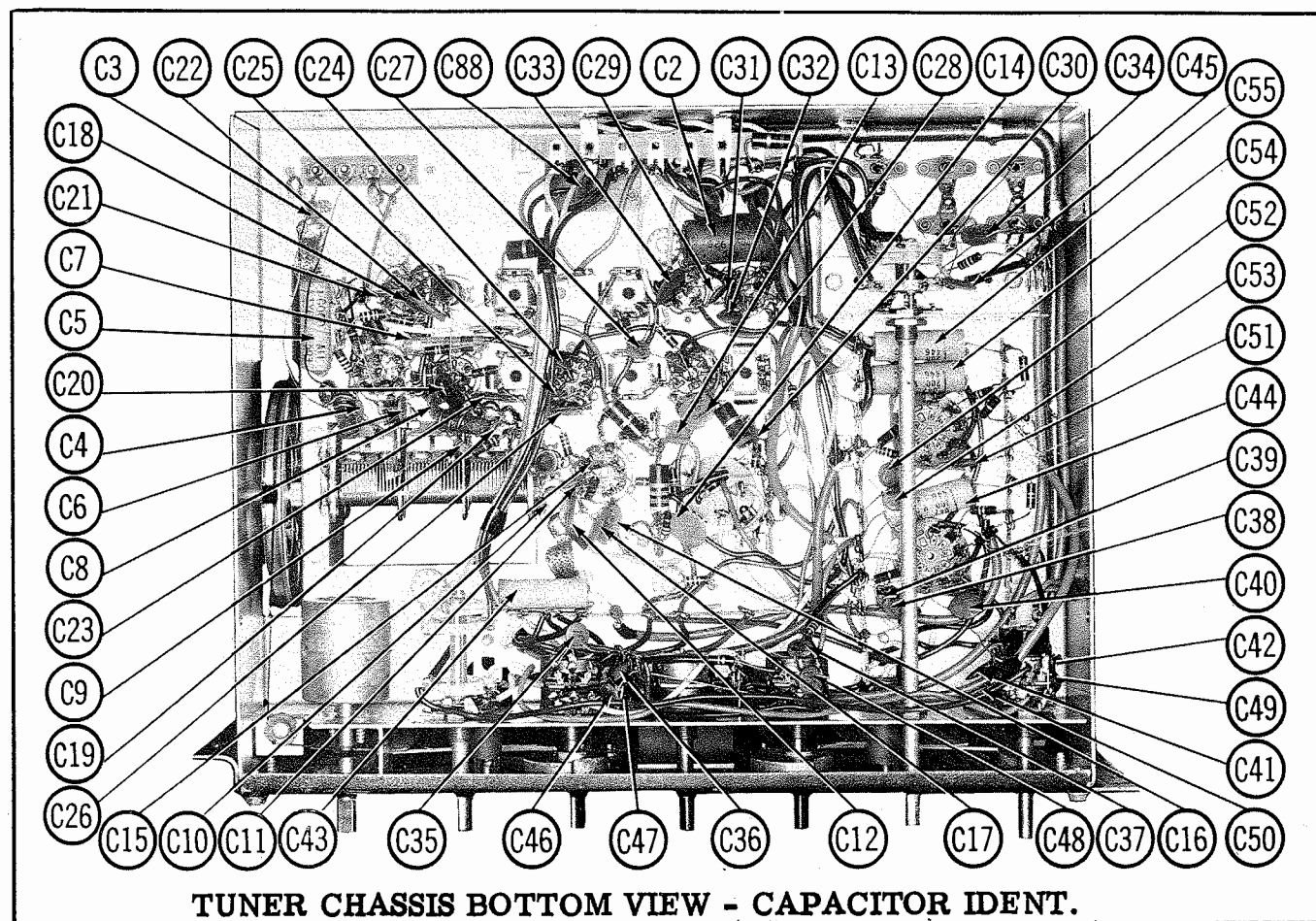
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SET 501

FOLDER 7

**HOFFMAN MODELS 8008, 8009, 8010 (Ch. 1136, 1138, 1140, 1141)**

SET 501 FOLDER 7



## 1140 AMP PARTS LIST AND DESCRIPTIONS

## TRANSFORMER (POWER)

ITEM No.	RATING					REPLACEMENT DATA					
	PRI.	SEC. 1	SEC. 2	HOFFMAN PART No.	Halliderson PART No.	Meritt PART No.	Ram PART No.	Stancor PART No.	Thorderson PART No.	Triad PART No.	
		SEC. 3	SEC. 4								SEC. 5
T4	117V @ 1A	530 VCT @ 3A		716019-2 ①							
		@ .150A									
	6.3V @ 2.7A	6.1A @ 2.4A									

① Alternate Part #716019.

① Alternate Part #716019.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA							NOTES
	PRI.	SEC.	HOFFMAN PART No.	Halldarson PART No.	Merit PART No.	Ram PART No.	Stancor PART No.	Thorndarson PART No.	Triad PART No.	
T5	50002	1627AP ③ 83	724035-1①	24592 ②					24592②	
T6	54002	6-82	724034-1③	24507	A-2902	AU-604	A-3849		24507	S-53X

① Alternate Part #934035.

② Drill New Mounting Hole.

③ Alternate Part #934034.

## 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 CENTRALAB PART No.	CONDENSER CENTRALAB PART No.	ELMENCE CENTRALAB PART No.	MALLOY PART No.	
C79	4700	BPD-0047	DD-472	BYA10D47M	COD-472	B-247	5HK-D47
C80	100	BPD-0001	DD-101	BYA10D10M	COD-101	B-10	5KT-T10
C81	1000	BPD-100	DD-103	BYA10D10M	COD-103	B-10	5G3A-D10
C82	1500V	HVD-15-1500	DD30-152	HV B2D15	16DP-1-152	2HV-215	5HK-D15
C83	4700	BPD-0047	DD-472	BYA10D47M	COD-472	B-247	5HK-D47
C84	100	BPD-0001	DD-101	LI071	COD-101	GP310	10TS-T10
C85	1000	BPD-100	DD-103	BYA10D10M	COD-103	B-110	5HK-D10
C86	1500V	HVD-15-1500	DD30-152	HV B2D15	16DP-1-152	2HV-215	30GA-D15
C87	.047 600V	P868N-.047	DD-503	CUBES47	8DP-3-.473	GEM-6147	6TM-S47
C88		Note 1	BPD-001	LI071	COD-101	GP310	10TS-T10

Note 1. Not used in some versions.

## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST- ANCE	WATTS	HOFFMAN PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
RI0042503 B Shaft	1/4		800014	AB-2 AK-1		BLI-201 BM4		Hum Adjust R250L Not Req.

## RESISTORS (IRC or EQUIVALENT)

**RESISTORS (KΩ OR EQUIVALENT)**  
All wattages 1/2 watt. or less, unless otherwise listed.

ITEM No.	RATING	REMARKS
R101	120K	
R102	68K	
R103	2.2meg	
R104	220K	
R105	22002	
R106	10003	
R107	330K	
R108	2202	

ITEM No.	RATING	REMARKS
R109	1500 1W	
R110	120K	
R111	68K	
R112	2.2meg	
R113	220K	
R114	22002	
R115	10003	
R116	330K	

ITEM No.	RATING	REMARKS
R117	2202	
R118	1500 1W	
R119	1000 10W	IRC #PW10 1000
R120	4700 10W	IRC #PW10 4700
R121	4703 10W	IRC #PW10 4703
R122	330K	

## CABINETS & CABINET PARTS

**(When Ordering Cabinet's & Cabinet Parts, Specify Model, Chassis & Color)**

NAME	PART NO.	DESCRIPTION
Knob	500062	Tuning, All Models, Bass & Treble, Models 8009, 8010 Series
Knob	5000359	Loudness, Mode, Input Selector, & Balance All Models Bass, & Treble, Model 8008 Series
Dial Glass	619034	Model 8008 Series
Dial Glass	619033	Models 8009, 8010 Series
Cabinet	381053	Model W8008
Cabinet	381054	Model M8008
Cabinet	381055	Model B8003
Cabinet	381056	Model SP8008
Cabinet	381049	Model W8009
Cabinet	381050	Model M8009
Cabinet	381051	Model B8009
Cabinet	381052	Model SP8009
Cabinet	381045	Model W8010
Cabinet	381046	Model M8010
Cabinet	381047	Model B8010
Cabinet	381048	Model SP8010

## FOLDER 7

**HOFFMAN MODELS 8008, 8009,  
8010 (Ch. 1136, 1138, 1140, 1141)**



1136 AMP PARTS LIST AND DESCRIPTIONS

RESISTORS (IRC or EQUIVALENT)  
All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R81	100K		R87	220K	
R82	120K		R88	220K	
R83	470K		R89	68K	
R84	2200K		R90	1000K	
R85	68K		R91	220K	
R86	2700K		R92	220K	
R87	47K		R93	68K	
R88	47K		R94	150K 2W	
R89	100K		R95	100K 10W	IRC #PW10 100K
R90	220K		R96	820K 10W	IRC #PW10 820K
R91	220K		R97	100K 10W	IRC #PW10 100K
R92	68K		R98	330K	
R93	100K		R99	2700K	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	HOFFMAN PART No.	Holldorson PART No.	Merit PART No.	Triad PART No.
T1	117V @ 1.5A	660 VCT @ 200A	5V @ 3A	716021-2			
	SEC. 3	SEC. 4	SEC. 5				
	6.3V @ 4.4A	6.1V @ 2.4A					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	HOFFMAN PART No.	Holldorson PART No.	Merit PART No.	Stancor PART No.	
T2	9000 16Q		724023		A-3128 ①	22593	
T3	6800 16Q	① 8Q	724030		A-3130 ①	24557	

① Drill New Mounting Hole.

SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
	SIZE	V. C. IMP.	HOFFMAN PART No.	QUAM PART No.	
SP1	12"	PM 14-16Q	708814X		
SP2	5 1/4"	PM 14-16Q	708203-1 *	52A1Z15.9	
SP3	3 1/2"	PM 14-16Q	708015 *	52A1Z15.9	
SP4	12"	PM 14-16Q	708814 *	52A1Z12.4	
SP5	5 1/4"	PM 14-16Q	708203-1 *	52A1Z15.9	
SP6	3 1/2"	PM 14-16Q	708015 *	52A1Z15.9	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA		
			HOFFMAN PART No.	LITTELFUSE PART No.	BUSS PART No.
M6	3AG	3 2/10A 125V			
		S/B			

TUBES

ITEM No.	GENERAL ELECTRIC		TYPE	USE	ITEM No.	RAYTHEON		SYLVANIA	TYPE
	USE	TYPE				USE	TYPE		
V11	Left Channel AF Amp. - Phase Inverter	ECF80			V15	Right Channel Output Rectifier		EL84/6BQ5 (7189) *	
V12	Left Channel Output	EL84/6BQ5 (7189) *			V16	Right Channel Output		EL84/6BQ5 (7189) *	
V13	Right Channel Output	EL84/6BQ5 (7189) *			V17	Rectifier		5U4GB	
V14	Phase Inverter - Alternate	ECF80							

ELECTROLYTIC CAPACITORS

ITEM No.	CAP.	RATING	REPLACEMENT DATA				NOTES
			HOFFMAN PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MAJORITY PART No.	
C56A	40	450	857107	AFHS4-100-65	TC2501	TMT-136	
C57A	40	450	857107	AFHS4-100-65	TC2501	TMT-136	

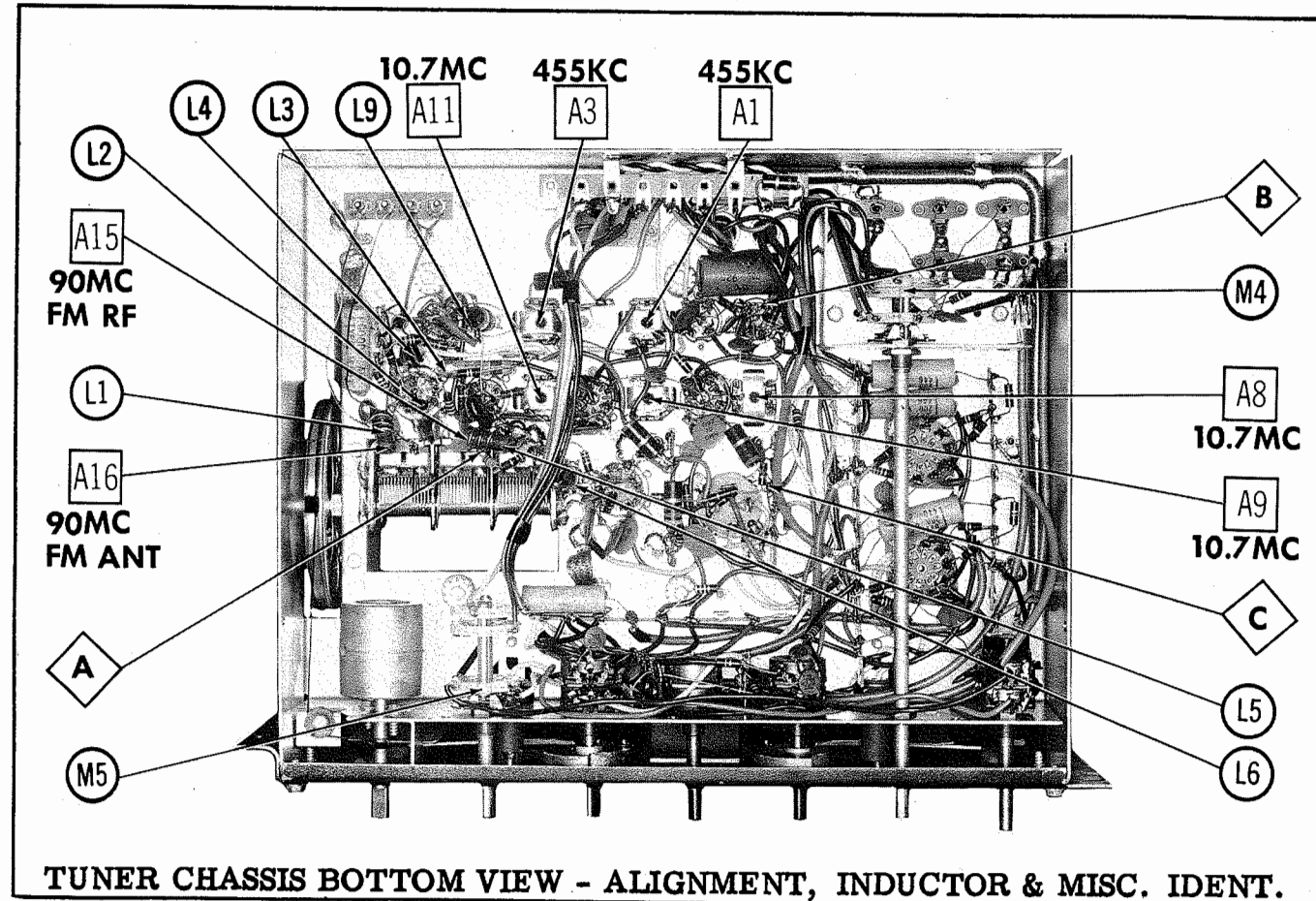
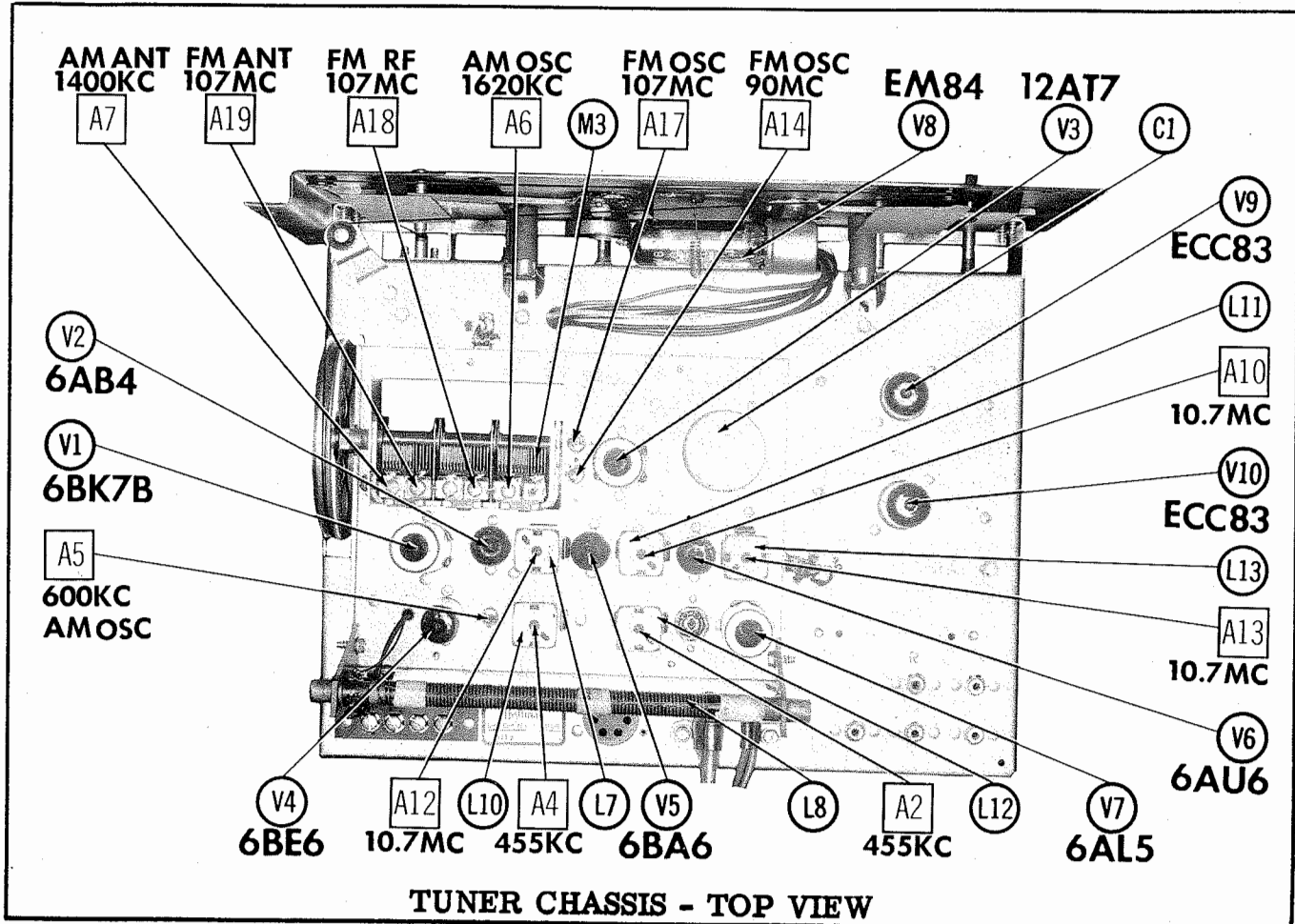
FIXED CAPACITORS

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 PART No.	ELMOCO PART No.	
C58	220	600V	DL-220	DD-221	L10T22	CCD-221	B-322
C59	22	600V	P888N-22	DF-104	CUB8P22	GEM-6022	61M-F22
C60	1	600V	HVD-15-1500	DD30-152	HVB20D15	2HV-215	30GA-D15
C61	1	600V	P888N-1	DF-104	CUB8P1	GEM-601	61M-F1
C62	1	600V	HVD-15-1500	DD30-152	HVB20D15	2HV-215	30GA-D15
C63	1	600V	P888N-1	DF-104	CUB8P1	GEM-601	61M-F1
C64	2200	10V	1464-0022	DD-221	L10T22	CCD-221	B-322
C65	220	600V	P888N-22	DF-104	CUB8P22	GEM-6022	61M-F22
C66	22	600V	HVD-15-1500	DD30-152	HVB20D15	2HV-215	30GA-D15
C67	1	600V	P888N-1	DF-104	CUB8P1	GEM-601	61M-F1
C68	1	600V	HVD-15-1500	DD30-152	HVB20D15	2HV-215	30GA-D15
C69	1	600V	P888N-1	DF-104	CUB8P1	GEM-601	61M-F1
C70	1500	1500V	1464-0022	DD-221	L10T22	CCD-221	B-322
C71	2200	10V	P888N-22	DF-104	CUB8P22	GEM-6022	61M-F22
C72	1	100V	P282Z-1.0	DD-503	CUB8S47	GEM-6147	61M-S47
C73	1	100V	P282Z-1.0	DD-503	CUB8S47	GEM-6147	61M-S47
C74	.047	600V	P888N-047	DD-503	CUB8S47	GEM-6147	61M-S47
C75	.05	600V	P888N-05	DD-503	CUB8S47	GEM-6147	61M-S47

CONTROLS

ITEM No.	RATING	RESISTANCE	REPLACEMENT DATA			INSTALLATION NOTES
			HOFFMAN PART No.	CENTRALAB PART No.	CTS-IRC PART No.	
R59A	500K	1/2	800067	AB-59	BI-133	
R60A	250K	1/2	800014	AK-1	BI-201	



ITEM No.	CBS	GENERAL ELECTRIC	RAYTHEON	SYLVANIA	USE	TYPE
V1		FM RF Amplifier		6BK7B	FM Ratio Det.	6AL5
V2		FM Mixer		6AB4	Tuning Indicator	EM84/6FG6 Note 1
V3		FM Osc. - AFC		12AT7	Left Channel AF Amp. -	ECC83/12AX7
V4		AM Converter		6BE6	Right Channel AF Amp. -	(7095)*
V5		FM-AM IF Amp.		6BA6	Cathode Follower	ECC83/12AX7
V6		AM Det. - FM IF Amp.		6AU6	Cathode Follower	(7095)*

Note 1. Not used in Tuner Chassis L141.  
\* Alternate.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
C1A	350	HOFFMAN	AFH4-53	TMQ-58	TVL-4622.3
C1B	350				
C1C	25				
C1D	25				
C2	150		PR81405	TD-8-150	TYA-1405

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	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
C3	12 N750 5%	TCN-12	AFH4-53	TMQ-58	TVL-4622.3
C4	1000	BPD-001			
C5	1.1 200V	P288N-1			
C6	1000	BPD-001			
C7	1000	BPD-001			
C8	1000	BPD-001			
C9	2.2 10%	NPO-SI 2.2			
C10	1-8	829-10			
C11	33 N750	DTN-33			
C12	1000	DD-103			
C13	1000	DD-101			
C14	10000	DD-103			
C15	12 N750 5%	TCN-12			
C16	10000	DD-103			
C17	10000	DD-101			
C18	100	BPD-001			
C19	12 N750 5%	TCN-12			
C20	300 5%	1469-0003			
C21	100	BPD-0001			
C22	47000	BPD-005			
C23	10000	BPD-001			
C24	10000	BPD-001			
C25	10000	BPD-001			
C26	10000	BPD-001			
C27	100	BPD-0001			
C28	10000	BPD-0001			
C29	270 10%	DI-270			
C30	880	BPD-00068			
C31	270 10%	DI-270			
C32	270 10%	DI-270			
C33	10000	DD-103			
C34	10000	DD-103			
C35	220	BPD-001			
C36	880	BPD-00068			
C37	470	BPD-00047			
C38	3300	BPD-0033			
C39	220	DI-220			
C40	4700	BPD-0047			

RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
R1A	Imeg	Imeg			
R1B	500K Tap	500K Tap			
R1C	Imeg	Imeg			
R1D	Imeg	Imeg			
R1E	Imeg	Imeg			
R1F	Imeg	Imeg			
R1G	Imeg	Imeg			
R1H	Imeg	Imeg			
R1I	Imeg	Imeg			
R1J	Imeg	Imeg			
R1K	Imeg	Imeg			
R1L	Imeg	Imeg			
R1M	Imeg	Imeg			
R1N	Imeg	Imeg			
R1O	Imeg	Imeg			
R1P	Imeg	Imeg			
R1Q	Imeg	Imeg			
R1R	Imeg	Imeg			
R1S	Imeg	Imeg			
R1T	Imeg	Imeg			
R1U	Imeg	Imeg			
R1V	Imeg	Imeg			
R1W	Imeg	Imeg			
R1X	Imeg	Imeg			
R1Y	Imeg	Imeg			
R1Z	Imeg	Imeg			

Note 1. Not used in Tuner Chassis L141.

FIXED CAPACITORS (cont)

ITEM No.	RATING	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
C41	220	DI-220			
C42	330	BPD-0033			
C43	047 200V	047 200V			
C44	047 200V	047 200V			
C45	1000	BPD-001			
C46	220	DI-220			
C47	680	BPD-00068			
C48	470	BPD-00047			
C49	3300	BPD-0033			
C50	220	DI-220			
C51	4700	BPD-0047			
C52	220	DI-220			
C53	3300	BPD-0033			
C54	047 200V	047 200V			
C55	047 200V	047 200V			

# Hoffman Part Number.  
† Alternate Value.  
⊙ Shielded Unit.

CONTROLS

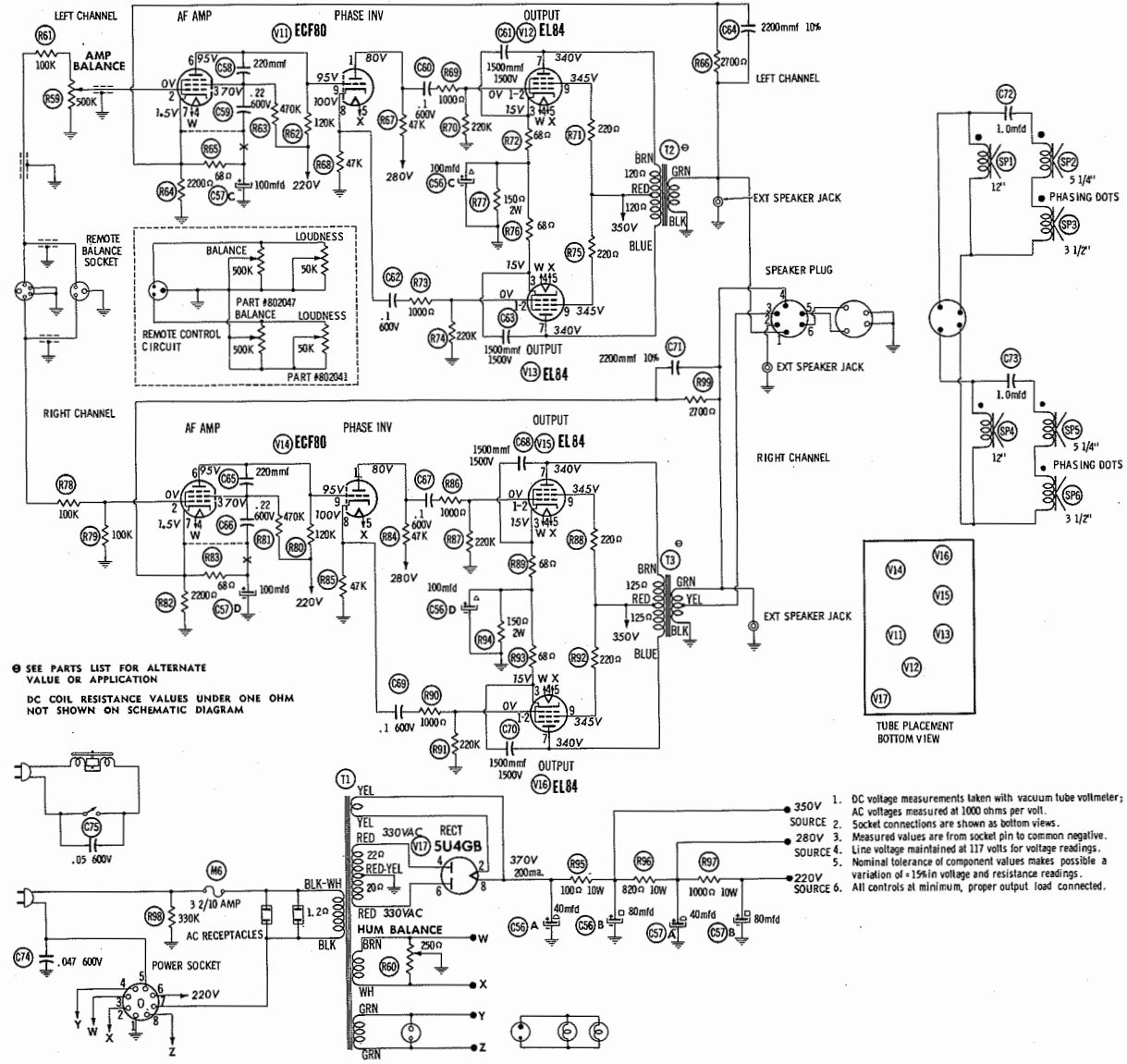
ITEM No.	RATING	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
R1A	Imeg	Imeg			
R1B	500K Tap	500K Tap			
R1C	Imeg	Imeg			
R1D	Imeg	Imeg			
R1E	Imeg	Imeg			
R1F	Imeg	Imeg			
R1G	Imeg	Imeg			
R1H	Imeg	Imeg			
R1I	Imeg	Imeg			
R1J	Imeg	Imeg			
R1K	Imeg	Imeg			
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R1P	Imeg	Imeg			
R1Q	Imeg	Imeg			
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R1S	Imeg	Imeg			
R1T	Imeg	Imeg			
R1U	Imeg	Imeg			
R1V	Imeg	Imeg			
R1W	Imeg	Imeg			
R1X	Imeg	Imeg			
R1Y	Imeg	Imeg			
R1Z	Imeg	Imeg			

RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REPLACEMENT DATA	HOFFMAN PART No.	SPRAGUE PART No.	NOTES
R23	82000 2W				
R24	2.2meg				
R25	680				
R26	100K				
R27	82K				
R28	82000 2W				
R29	3900				
R30	100K				
R31	2.2meg				
R32	68000				
R33	68000				
R34	1800 1W				
R35	22K				
R36	330K				
R37	150K				
R38	470K				
R39	220K				
R40	470K				

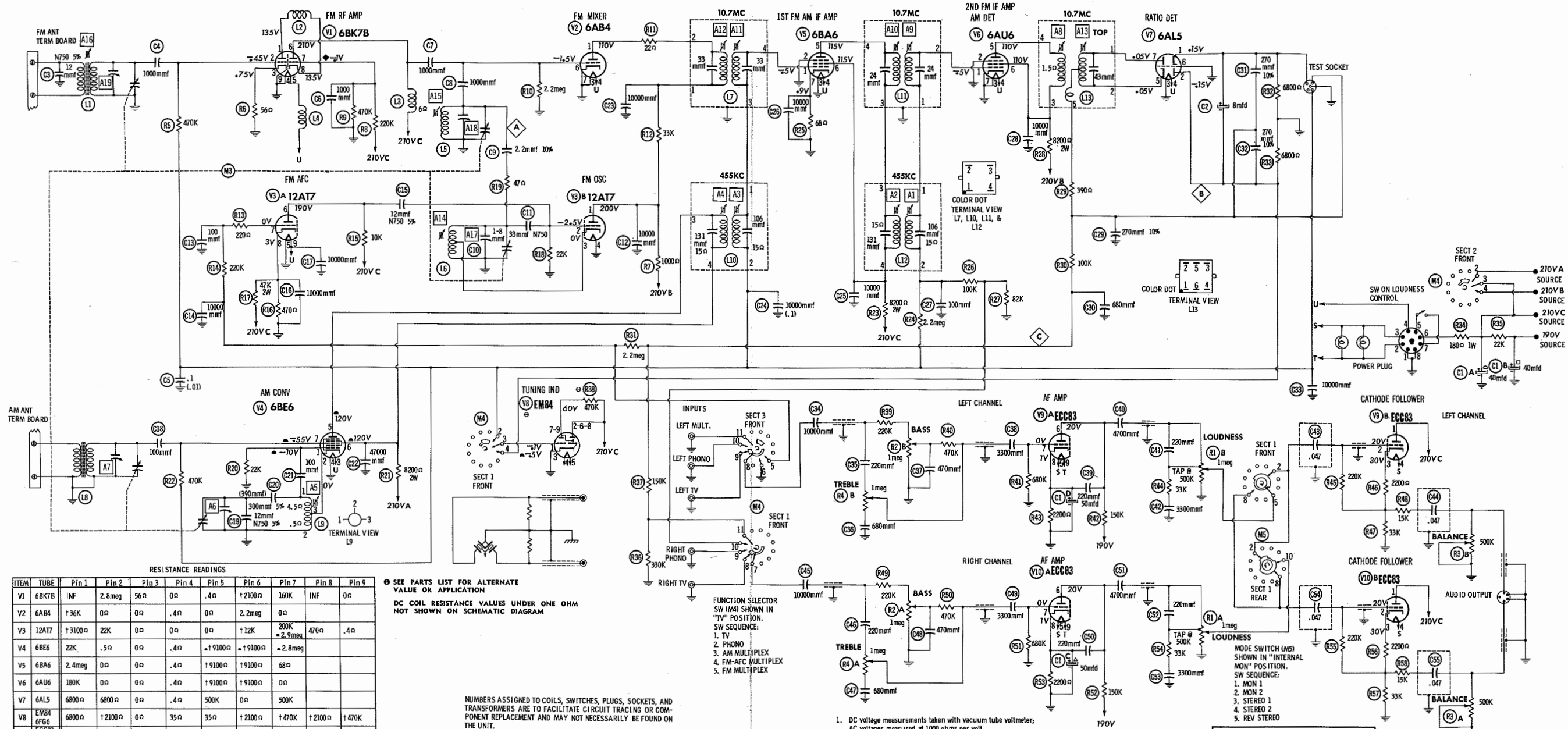
Note 1. Not used in Tuner Chassis L141.



A PHOTOFACT STANDARD NOTATION SCHEMATIC  
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AMP SCHEMATIC

HOFFMAN MODELS 8008, 8009, 8010 (Ch. 1136, 1138, 1140, 1141)



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## TUNER SCHEMATIC



## PARTS LIST AND DESCRIPTIONS (Continued)

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		HOFFMAN PART No.	Granger PART No.	Meissner PART No.	Merit PART No.	Miller PART No.	
L1	FM Ant. Trans.	776003					
L2	RF Choke	750008	19-1000	19-1000	BC-561	4602	1. kuh 5. kuh ① 1. kuh
L3	RF Choke	750009	19-2013	19-2013	SW-531	4609	
L4	F.L. Choke	750007	19-1000	19-1000	BC-561	4602	
L5	FM RF Coil	776001					
L6	FM Osc. Coil	768009	16-3487	16-3487	FM-254	1463	
L7	1st FM IF Trans.	924002	14-9003	14-9003	BC-418	705-A	
L8	Loopstick	768010	14-1055	14-1055	BC-352	12-C1	
L9	AM Osc. Coil	768011	16-6758	16-6758	BC-352	1463	
L10	1st AM IF Trans.	768012	16-3487	16-3487	FM-254	1463	
L11	2nd AM IF Trans.	768013	16-6758	16-6758	BC-353	12-C2	
L12	2nd AM IF Trans.	768011	16-6758	16-6758	BC-353	12-C2	
L13	Ratio Det.	774004	17-3498	17-3498	FM-255	1465	

① IRC Part #CL1.

## PHONO CARTRIDGE

ITEM No.	HOFFMAN PART No.	ASTATIC PART No.	REPLACEMENT DATA			SONOTONE PART No.
			ELECTRO-VOICE PART No.	JENSEN PART No.	JENSEN PART No.	
M1	981022 ① (Includes M3)	13TB	Not Req.	26S	SI-1 SI-3	10T2-S Not Req.

① Part #981021 used in Models 8006, 8009.

## PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

ITEM No.	HOFFMAN PART No.	CLEVITE WALCO PART No.	JENSEN PART No.	REMARKS
M2		W-204DS * or W-204DD-1 *		† Jewel, Dual ♦ Diamond, Dual ‡ Dual Sapphire * Includes Cartridge

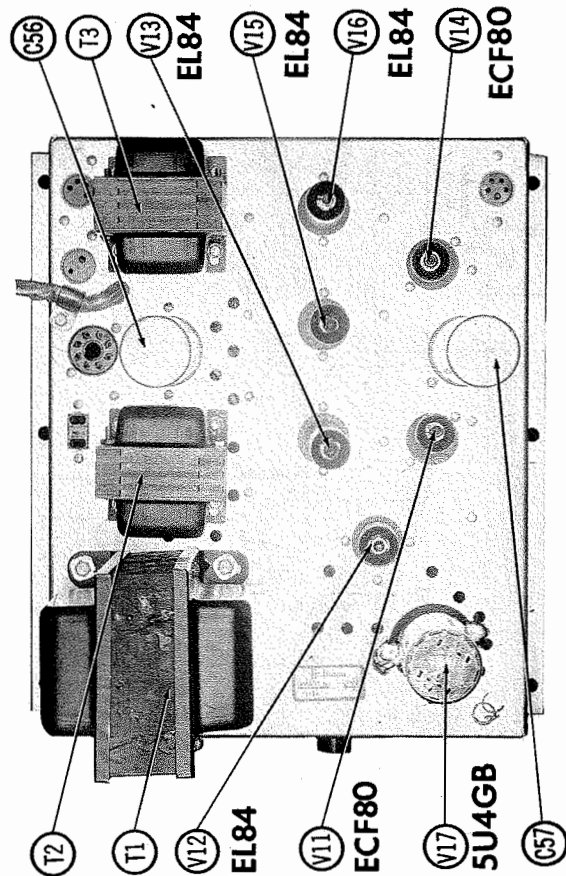
## MISCELLANEOUS

ITEM No.	PART NAME	HOFFMAN PART No.	NOTES
M3	Tuning Cap.	872009	FM-AM, 6 Gang, (AM Sections: Ant. 9-288mmf, Osc. 9-284mmf)
M4	Switch	902033	Input Selector (Rotary)
M5	Switch	902032	Mode Selector (Rotary)

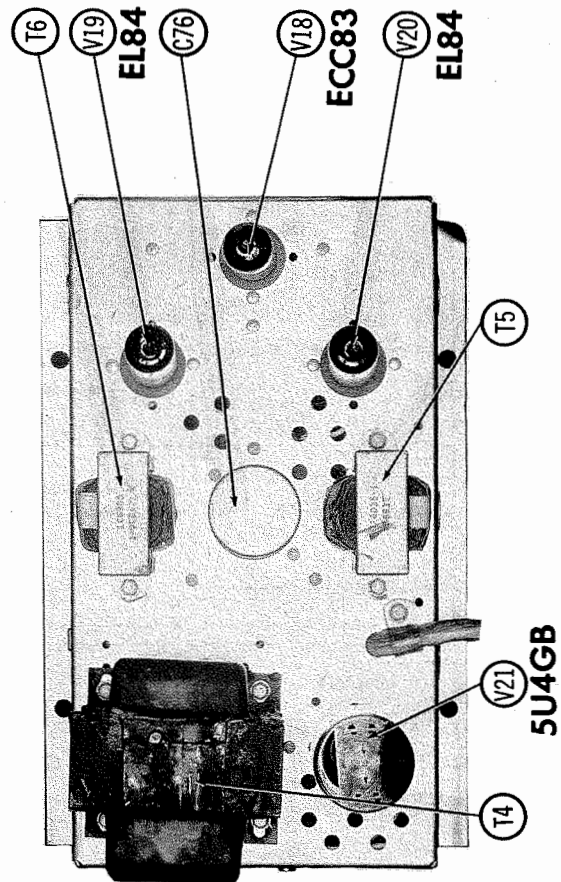
## WIRING DATA

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. 1765-B (6 Ft. Length)
Phono Pick-up Arm Cable	1725-K (7 1/2 Ft. Length)
	Use BELDEN No. 8401
	Use BELDEN No. 8430 (Two Conductor - Twisted)

## 1136 AMP CHASSIS - TOP VIEW



## 1140 CHASSIS - TOP VIEW



## ALIGNMENT INSTRUCTIONS

## ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer, turn tuning capacitor fully closed and set pointer to last reference mark at low frequency end of dial. Use only enough generator output to provide a usable indication.

Suggested alignment tools: A1 thru A4, A8 thru A13. GENERAL CEMENT #5097, 8727

WALSCO #2515

A5, A14, A17. GENERAL CEMENT #8721, 8722

WALSCO #2519

A6, A7, A18, A19. GENERAL CEMENT #5004, 5008, 5009

WALSCO #2520

A15, A16. GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440

WALSCO #2526, 2543, 2544, 2545

## AM ALIGNMENT—SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru .01mfd to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (400v Mod.)	(AM) Tuning gang fully open.	AC probe across tuner output cable.	A1, A2, A3, A4	Adjust for maximum deflection.
2.	High side thru 150mmf to AM antenna terminal. Low side to chassis.	600KC	600KC	"	A5	"
3.	"	1620KC	Tuning gang fully closed.	"	A6	"
4.	"	1400KC	1400KC	"	A7	"

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

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
5.	High side thru .01mfd to point A. Low side to chassis.	10.7MC (Unmod.)	(FM) Tuning gang fully open.	DC probe to point B. Common to chassis.	A8, A9, A10, A11, A12	Adjust for maximum deflection.
6.	"	"	"	DC probe to point C. 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 AND OSCILLOSCOPE—SELECTOR IN FM POSITION

Use frequency modulated signal with 60v 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.	High side thru .01mfd to point A. Low side to chassis.	10.7MC (450KC Swp)	(FM) Tuning gang fully open.	Vert. amp. to point B. 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. Reconnect C2.
6.	"	"	"	Vert. amp. to point C. Low side to chassis.	A13	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.	90MC (Unmod.)	(FM) 90MC	DC probe to point B. Common to chassis.	A14, A15, A16	Adjust for maximum output.
8.	"	107MC	107MC	"	A17, A18, A19	Adjust for maximum deflection. Repeat Steps 7 and 8.

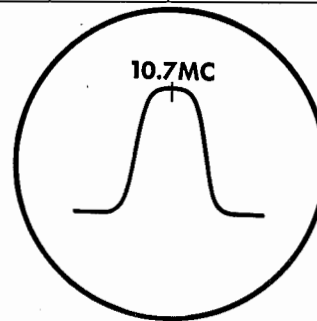


FIG. 1

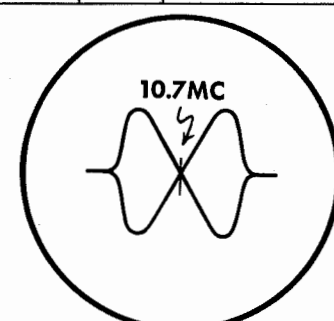


FIG. 2