

PARTS LIST AND DESCRIPTIONS (Continued)

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

ITEM No.	RATING	REPLACEMENT DATA		REMARKS	ITEM No.	RATING	REPLACEMENT DATA		REMARKS
		IRC PART No.	WORKMAN PART No.				IRC PART No.	WORKMAN PART No.	
R111	82K				R131	150K			Note 4
R112	22K				R132	33K			Note 5
R113	200K				R133	22K			
R114	50K				R134	10K 2W			
R115	150K				R135	4700Ω 5W			
R116	1500Ω				R136	33Ω 7W			
R117	300Ω				R137	33Ω 7W			
R118	300Ω				R138	470Ω 5W			
R119	300K				R139	470Ω 5W			
R120	82K				R140	18K			
R121	1Meg				R141	22Ω 7W			
R122	270K				R142	3.3Ω 5W			
R123	12K				R143	4.7Ω 5W			
R124	1200Ω				R144	68K			
R125	1.5Meg				R145	1000Ω			
R126	82K			Note 3	R146	1000Ω			
R127	32K			Note 3	R147	1000Ω			
R128	2700Ω			Note 3	R148	1000Ω			
R129	82K			Note 4	R149	22K			
R130	150K			Note 4	R150	22K			

Note 1. R89 & R91 are matched, Note 2. R92 & R93 are matched.
Note 3. R127 & R129 are matched, Note 4. R130 & R131 are matched.
Note 5. Not used in some versions.
* Alternate.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES
		SHERWOOD PART No.	Merit PART No.	Miller PART No.	Workman TV PART No.	
L1	FM Ant. Matching					
L2	FM Ant.					
L3	RF Choke (1uh)					
L4	RF Choke (1uh)					
L5	RF Choke (1.5uh)					
L6	RF Choke (3.9uh)					
L7	FM RF					
L8	FM Osc.					
L9	RF Choke (1uh)					
L10	1st FM IF					
L11	2nd FM IF					
L12	3rd FM IF					
L13	Limiter					
L14	Discriminator					
L15	Loopstick					
L16	AM Ant.					
L17	AM RF					
L18	AM Osc.					
L19	1st AM IF					
L20	2nd AM IF					
L21	IFL Choke (1.5uh)					
L22	IFL Choke (1.5uh)					

MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Tuning Cap.		
M3	Switch		
M4	Switch		
M5	Switch		
M6	Switch		
M7	Switch		
M8	Switch		
M9	Switch		
M10	Switch		
M11	Switch		

FM - 3 Gang
AM - 3 Gang
Input Selector
Function Selector (Rotary Type)
Normal AM Wide - Hi F. Audibly AM Narrow (4PDT Slide Type)
AFC (SPST Slide Type)
Normal - Phase Reverse (DPDT Slide Type)
Lead In-Out (DPDT Slide Type)
Lo Filter (DPDT Slide Type)
Norm. - Tape (DPDT Slide Type)

TRANSFORMER (POWER)

ITEM No.	REPLACEMENT DATA				NOTES
	SHERWOOD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
T1	B922LI-3				

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	SHERWOOD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
T2	6100Ω CT	16Ω Tap @ 8Ω, 4Ω	B920LI-4				
T3	6100Ω CT	8Ω, 4Ω	B920LI-4				

COMPONENT COMBINATIONS

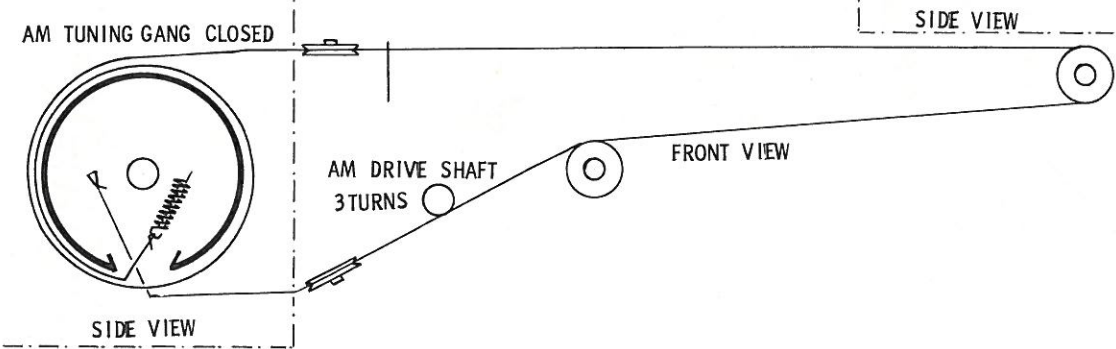
ITEM No.	USE	DESCRIPTION	SHERWOOD PART No.	REPLACEMENT DATA
K1	3rd FM IF Grid Bias	22mmf, 150K		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			SHERWOOD PART No.	LITTELFUSE PART No.	FUSE	BUSS PART No.
M1	3AG	3A 250V			312003 (3AG 3A 250V)	AGC 3 HKP



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 LK091



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

DATE 7-62

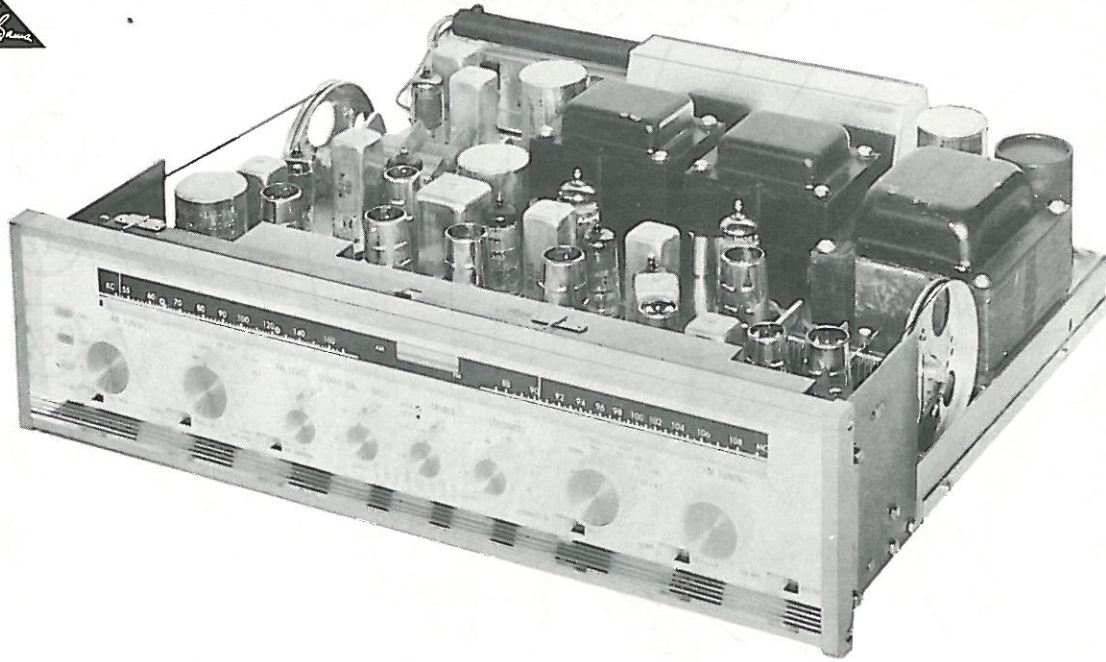
SET 586

FOLDER 12

SHERWOOD
MODEL S-7000

FOLDER 1
SET 586

PHOTOFACT® Folder

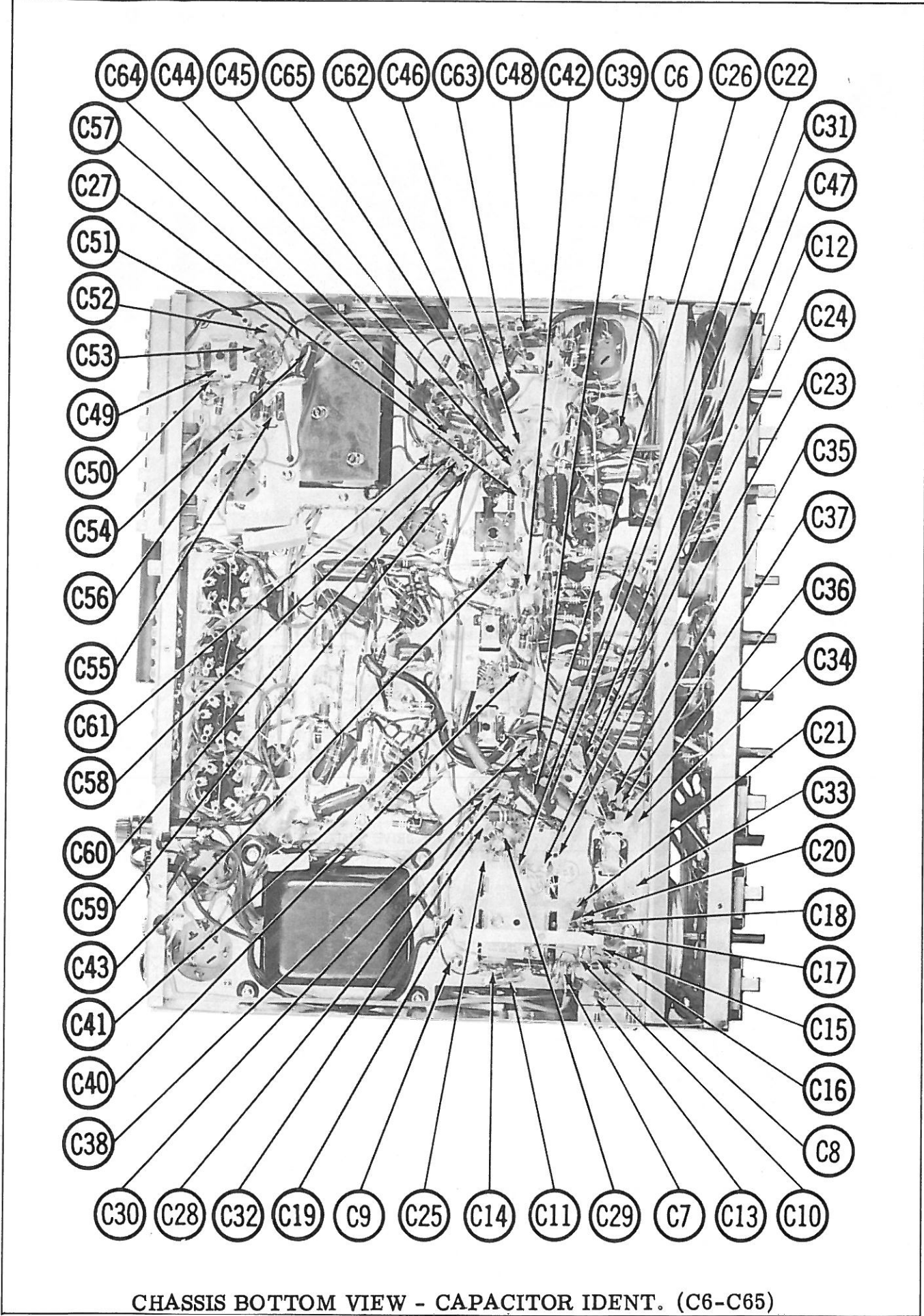


TRADE NAME Sherwood Model S-7000
MANUFACTURER Sherwood Electronic Laboratories, Inc., 4300 N. California Ave., Chicago 18, Illinois
TYPE SET AC Operated 22 Tube FM-AM Receiver With Stereo Amplifier
POWER SUPPLY 110 - 120 Volts AC, 60 Cycles RATING 175 Watts, 1.8 Amp. @117 Volts AC
TUNING RANGE-BROADCAST 530 - 1750KC FREQ. MOD. 88 - 108MC

SHERWOOD
MODEL S-7000

SHERWOOD
MODEL S-7000

SET 586 FOLDER 12



CHASSIS BOTTOM VIEW - CAPACITOR IDENT. (C6-C65)

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	REPLACEMENT DATA DISTRIBUTOR PART No.	ELMOCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C79	270 10%		DL-270	DD-271	LI0737	CCD-271	GP327	10TS-T27
C80	82 N750 10%		N750-D1 82	DTN-82	LI0737	CCD-271	GP327	10TS-T27
C81	470 10%		DL-470	DD-471	5R747	CCD-471	GP347	10TS-T47
C82	330 10%		DL-330	DD-331	LI0737	CCD-331	GP333	10TS-T33
C83	.01 400V		P488N-01	DD-103	LI0737	CCD-103	GP333	10TS-T33
C84	.05 200V		P288N-05	DD-503	LI0737	CCD-503	GP350	5HK-S50
C85	.15 200V		P288N-15	DD-503	LI0737	CCD-503	GP350	5HK-S50
C86	270 10%		DL-270	DD-271	LI0737	CCD-271	GP327	10TS-T27
C87	220 10%		DL-220	DD-221	LI0737	CCD-221	GP327	10TS-T22
C88	.0027 400V		DL-1000	DD-272	DPMSD27	CCD-272	GP322	6FS-D27
C89	.001 10%		DL-1000	DD-102	5R5D1	CCD-102	GP322	6FS-D10
C90	.01		BPD-01	DD-103	5R5D1	CCD-103	GP322	5HK-S10
C91	.05		BPD-05	DD-503	5R5D1	CCD-503	GP350	5HK-S50
C92	.047 400V		P488N-047	DD-503	5R5D1	CCD-503	GP350	5HK-S50
C93	68 N750 10%		N750-D1 68	DTN-68	LI0737	CCD-68	GP347	10TS-T47
C94	.12 100V		P288N-12	DD-104	LI0737	CCD-104	GP347	10TS-T47
C95	.022 400V		P488N-022	DD-203	LI0737	CCD-203	GP347	10TS-T47
C96	.0033 400V		P488N-0033	DD-332	LI0737	CCD-332	GP347	10TS-T47
C97	.05		BPD-05	DD-503	LI0737	CCD-503	GP350	5HK-S50
C98	180 5%		DL-180	DD-180	LI0737	CCD-180	GP347	10TS-T47
C99	.02		BPD-02	DD-203	LI0737	CCD-203	GP347	10TS-T47
C100	.068 600V		P688N-068	DD-203	LI0737	CCD-203	GP347	10TS-T47
C101	.068 600V		P688N-068	DD-203	LI0737	CCD-203	GP347	10TS-T47
C102	22 N750 10%		N750-D1 22	DTN-22	LI0737	CCD-22	GP347	10TS-T47
C103	.05		BPD-05	DD-503	LI0737	CCD-503	GP350	5HK-S50
C104	470 10%		DL-470	DD-471	5R747	CCD-471	GP347	10TS-T47
C105	.01 400V		P488N-01	DD-103	LI0737	CCD-103	GP333	10TS-T33
C106	.01 400V		P488N-01	DD-103	LI0737	CCD-103	GP333	10TS-T33
C107	.15 200V		P288N-15	DD-503	LI0737	CCD-503	GP350	5HK-S50
C108	.15 200V		P288N-15	DD-503	LI0737	CCD-503	GP350	5HK-S50
C109	270 10%		DL-270	DD-271	LI0737	CCD-271	GP327	10TS-T27
C110	220 10%		DL-220	DD-221	LI0737	CCD-221	GP327	10TS-T22
C111	.0027 400V		P488N-0027	DD-272	DPMSD27	CCD-272	GP322	6FS-D27
C112	.001 10%		DL-1000	DD-102	5R5D1	CCD-102	GP322	6FS-D10
C113	.01		BPD-01	DD-103	5R5D1	CCD-103	GP322	5HK-S10
C114	.05		BPD-05	DD-503	5R5D1	CCD-503	GP350	5HK-S50
C115	.047 400V		P488N-047	DD-503	5R5D1	CCD-503	GP350	5HK-S50
C116	68 N750 10%		N750-D1 68	DTN-68	LI0737	CCD-68	GP347	10TS-T47
C117	.12 100V		P288N-12	DD-104	LI0737	CCD-104	GP347	10TS-T47
C118	.022 400V		P488N-022	DD-203	LI0737	CCD-203	GP347	10TS-T47
C119	.0033 400V		P488N-0033	DD-332	LI0737	CCD-332	GP347	10TS-T47
C120	.05		BPD-05	DD-503	LI0737	CCD-503	GP350	5HK-S50
C121	180 5%		DL-180	DD-180	LI0737	CCD-180	GP347	10TS-T47
C122	.02		BPD-02	DD-203	LI0737	CCD-203	GP347	10TS-T47
C123	.068 600V		P688N-068	DD-203	LI0737	CCD-203	GP347	10TS-T47
C124	.068 600V		P688N-068	DD-203	LI0737	CCD-203	GP347	10TS-T47
C125	22 N750 10%		N750-D1 22	DTN-22	LI0737	CCD-22	GP347	10TS-T47
C126	.05		BPD-05	DD-503	LI0737	CCD-503	GP350	5HK-S50
C127A	.0022		BPD-2X0022	DD-222	BYA10D22	CCD-222	B-222	5HK-2D22
C127B	.0022		BPD-2X0022	DD-222	BYA10D22	CCD-222	B-222	5HK-2D22
C128A	.0022		BPD-2X0022	DD-222	BYA10D22	CCD-222	B-222	5HK-2D22
C128B	.0022		BPD-2X0022	DD-222	BYA10D22	CCD-222	B-222	5HK-2D22

† Alternate Value
Note 1: Not used in some versions.
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	SHERWOOD PART No.	CENTRALAB PART No.	REPLACEMENT DATA CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1A	Loudness, Right Ch.	300K	A67L3-5				
B	Loudness, Left Ch.	40K Tap					
R2A	Power Off-On Switch	40K Tap					
B	Treble, Right Ch.	Imeg	A670L2-5				
B	Treble, Left Ch.	Imeg					

CONTROLS (cont)

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

ITEM No.	USE	RESIST-ANCE	SHERWOOD PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R3A	Bass, Right Channel	Imeg	A670L2-5				
B	Bass, Left Channel	Imeg					
R4A	Stereo Balance	Imeg	A670L6-4				
B	Phono Level, Right Channel	500K					
C	Phono Level, Left Channel	500K					

RESISTORS

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

ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS	ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS
R5	Imeg	PW5-1000	5W-SQ-1000	Note 5	R58	150K			Note 1
R6	10000 5W				R59	270K 1W			Note 1
R7	Imeg				R60	15000			Note 2
R8	100K				R61	Imeg			Note 5
R9	Imeg				R62	270K			
R10	150K				R63	15000			
R11	100K				R64	1.2meg			
R12	1000 1W				R65	220K			
R13	33K				R66	220K			
R14	15K				R67	300K			
R15	100K				R68	Imeg			
R16	270K 1W				R69	470K			
R17	270K				R70	680K			
R18	1.5meg				R71	39K			
R19	Imeg				R72	82K			
R20	470K				R73	22K			
R21	82K				R74	22K			
R22	100K				R75	33K			
R23	15000				R76	180K			
R24	39K				R77	15000			
R25	27K				R78	330K			
R26	100K				R79	3300K			
R27	1.5meg				R80	330K			
R28	47000				R81	82K			
R29	6800K				R82	Imeg			
R30	68K				R83	Imeg			
R31	68K				R84	270K			
R32	150K				R85	12K			
R33	Imeg				R86	220K			
R34	220K				R87	22K			
R35	470K				R88	Imeg			
R36	220K				R89	220K			
R37	220K				R90	82K			
R38	82K				R91	82K			
R39	82K				R92	150K			
R40	2200K				R93	330K			
R41	82K				R94	330K			
R42	56K				R95	47K			
R43	22K				R96	150K			
R44	22K				R97	Imeg			
R45	10000				R98	270K			
R46	6800				R99	270K 1W			
R47	330K				R100	15000			
R48	27000				R101	1.2meg			
R49	150K				R102	220K			
R50	390K				R103	220K			
R51	220K				R104	390K			
R52	6800K				R105	470K			
R53	680K				R106	470K			
R54	2.2meg				R107	1000K			
R55	150K				R108	39K			
R56	Imeg				R109	470K			
R57	47K				R110	470K			

PARTS LIST AND DESCRIPTIONS

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
8524 (Stranded) Available in 12 Colors
Power Cord Use BELDEN No. 17105 (Plastic) or 17128 (Rubber) - 6 Ft.
17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

TUBES

AMPEREX			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amplifier	6ES8	V14	Left Channel Preamp.	ECC83/12AX7						
V2	FM Mixer	6CB6A (6AB4)*	V15	Right Channel Cath. Foll.	ECC83/12AX7						
V3	FM Osc.	12AZ7A	V16	Left Channel Cath. Foll.	ECC83/12AX7						
V4	1st FM IF Amplifier	6AU6	V17	Right Channel Cath. Foll.	ECC83/12AX7						
V5	2nd FM IF Amplifier	6AU6	V18	Left Channel AF Amp.	ECC83/12AX7						
V6	1st FM Limiter	6AU6	V19	Right Channel AF Amp.	ECC83/12AX7						
V7	2nd FM Limiter	6AU6	V20	Left Channel AF Amp.	ECC83/12AX7						
V8	Discriminator	6AL5	V21	Right Channel AF Amp.	ECC83/12AX7						
V9	Tuning Indicator	6X4	V22	Right Channel Output	7591						
V10	FM Amplifier	6BA6									
V11	AM Co. Amplifier	6BE6									
V12	AM IF Amplifier	6BA6									
V13	Left Channel Preamp.	ECC83/12AX7									

* Used in some versions.

POWER RECTIFIERS & SIGNAL DIODES

RECTIFIERS			DIODES		
ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	SARKES TARZIAN Part No.	GENERAL ELECTRIC Part No.	RAYTHEON Part No.
X1	.210A	IN763	F8		
X2	.210A	IN763	F8		
X3	.085A	IN763	2F4		
X4	.085A	IN763	2F4		
X5					
X6					

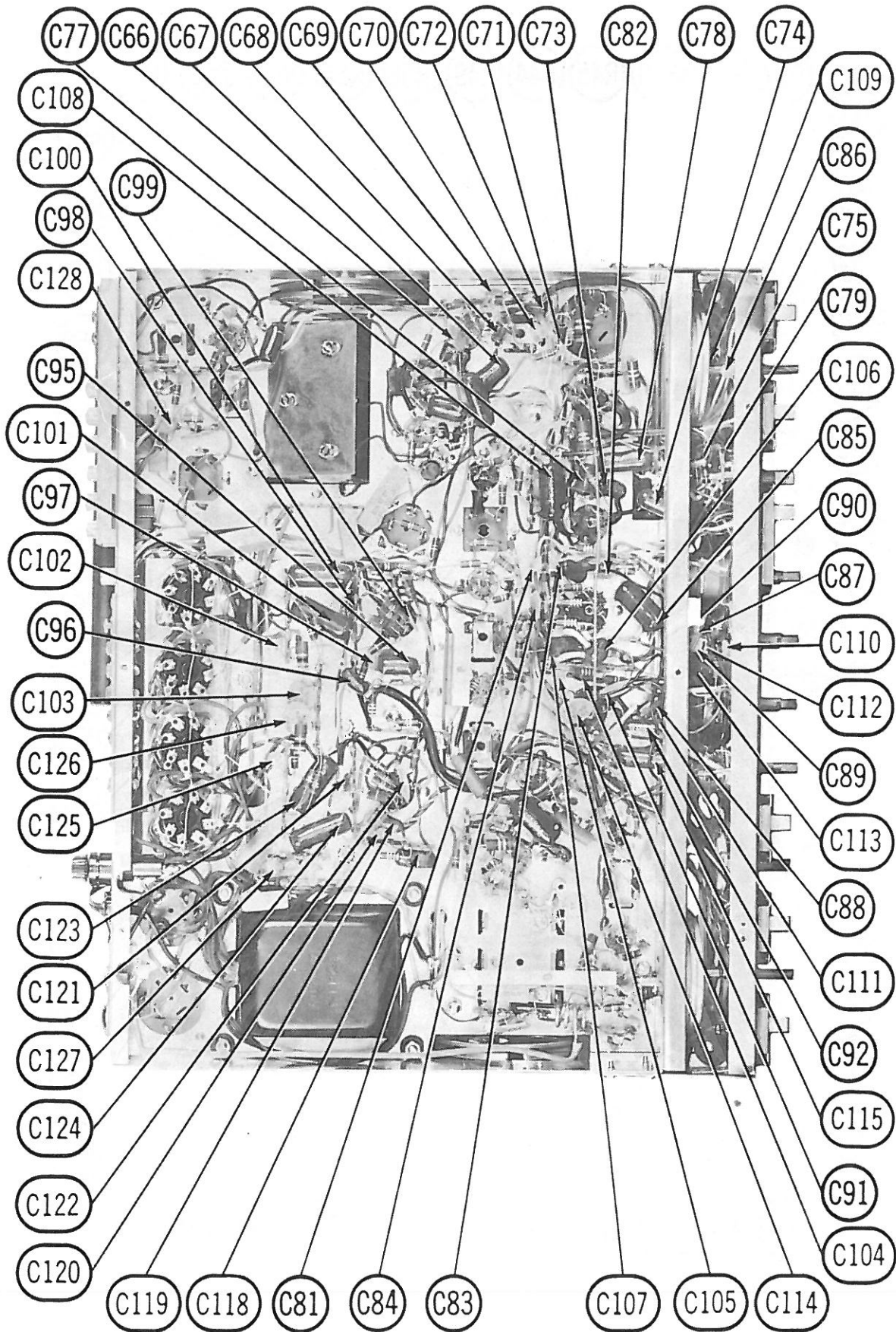
ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VOLT.	SHERWOOD Part No.	AEROVOX Part No.	GENERAL ELECTRIC Part No.	MALLORY Part No.	SPRAGUE Part No.
C1	120	200		AFH1-31-75	XCI-19	FPI21	TVL-1540
C2	120	200		AFH2-56			
C3	120	200		FRS595			
C4	40	400		AFH2-56			
C5	40	400		FRS595			
C6	40	400		AFH2-56			
C7	40	400		FRS595			
C8	40	400		AFH2-56			
C9	40	400		FRS595			
C10	40	400		AFH2-56			
C11	40	400		FRS595			
C12	40	400		AFH2-56			
C13	40	400		FRS595			
C14	40	400		AFH2-56			
C15	40	400		FRS595			
C16	40	400		AFH2-56			
C17	40	400		FRS595			
C18	40	400		AFH2-56			

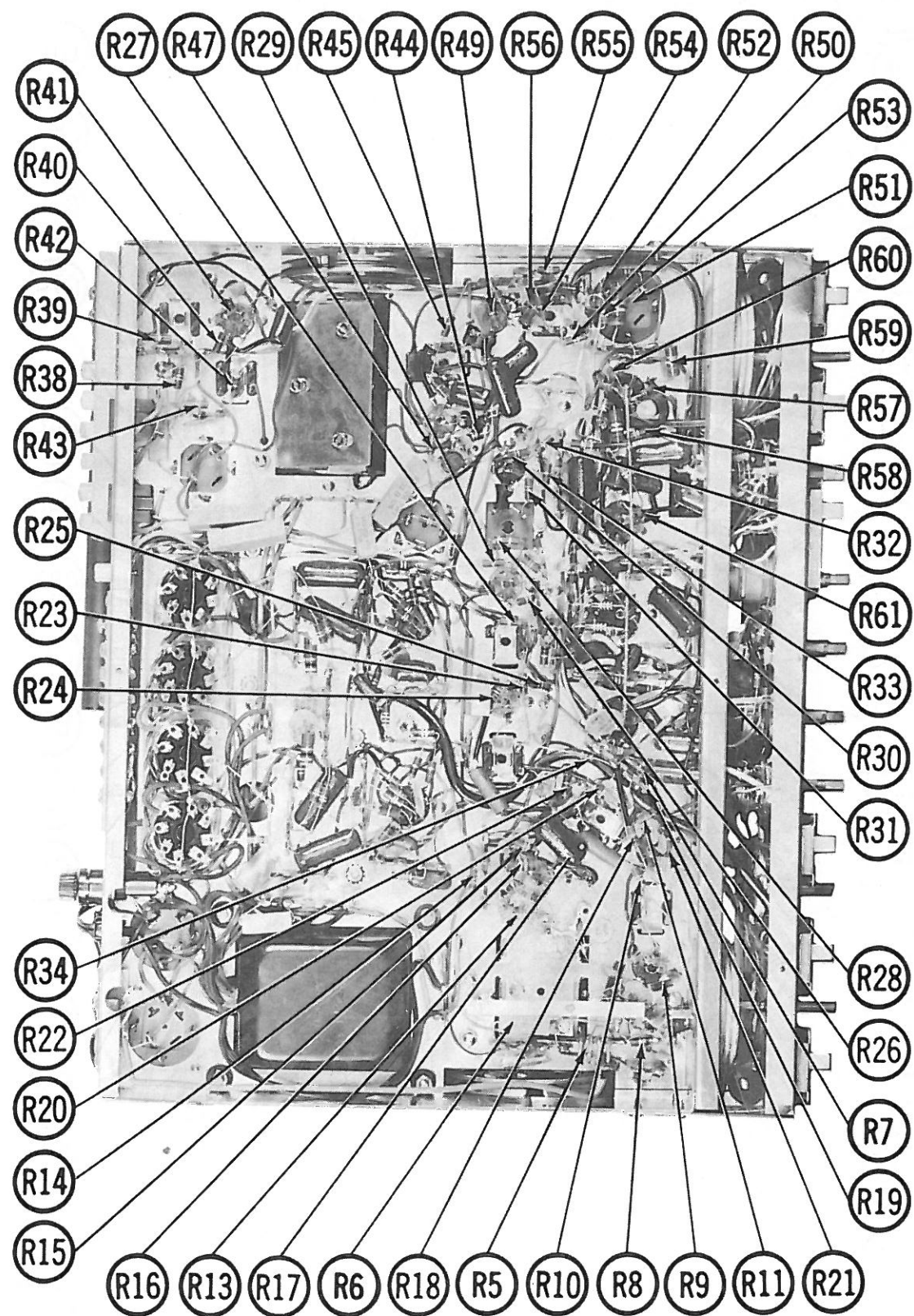
* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

FIXED CAPACITORS

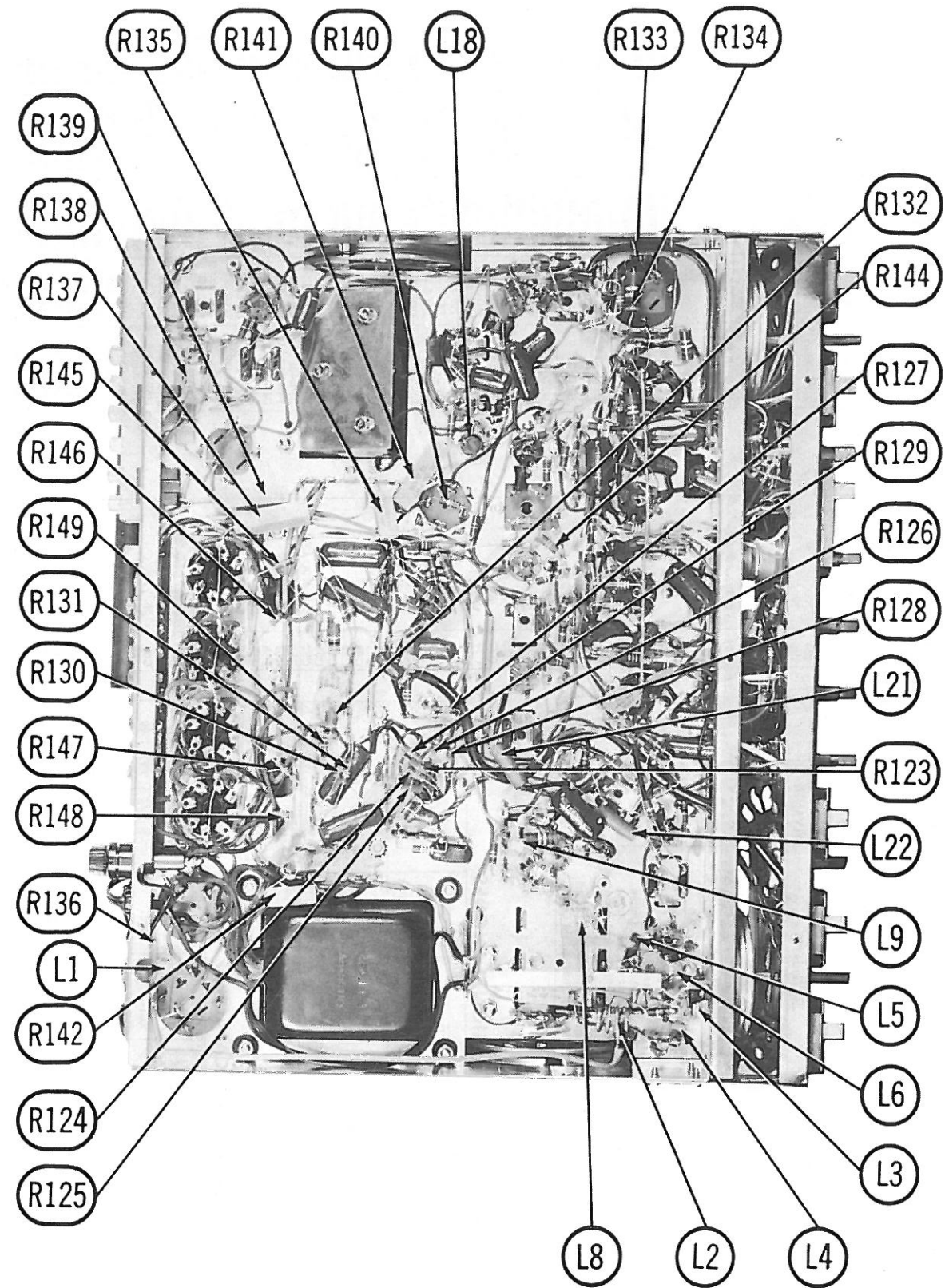
ITEM No.	RATING	REMARKS	AEROVOX Part No.	CENTRALAB Part No.	REPLACEMENT DATA CORNELL-DUBIERRE Part No.	ELMENTCO Part No.	MALLORY Part No.	SPRAGUE Part No.
C7	4.7 N750 10%	(6.8) †	BPD-001	DD-102	C10V5U	CCTN-050	CN7-547	107CU-V47
C8	.001				BYA10D1	CCD-102	B-210	5HK-D50
C9	390		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C10	.05		BPD-05	DD-503	CUB4S5	4DP-3-503	GP150	5HK-S50
C11	.005		BPD-005	DD-502	CUB4S5	4DP-3-502	GP150	5HK-D50
C12	390		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C13	.005		BPD-005	DD-502	CUB4S5	4DP-3-502	GP150	5HK-D50
C14	.005		BPD-005	DD-502	CUB4S5	4DP-3-502	GP150	5HK-D50
C15	390		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C16	.001		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C17	.001		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C18	.001		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C19	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	107CC-V68
C20	4.7 N750 10%			DTN-5	C10V5U	CCTN-050	CN7-547	107CU-V47
C21	22 N150 10%							107CF-Q22
C22	10 N150 10%							107CP-Q10
C23	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C24	.15 200V		P288N-15	DD-502	CUB4S5	4DP-3-154	GEM-2005	5HK-D50
C25	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C26	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C27	2.2 NPO +.25mmf		NPO-DI 2.2	DTZ-2R2	C10V22C	CCTO-2R2	CNO-522	107CC-V22
C28	4.7 N750 10%			DTN-5	C10V5U	CCTN-050	CN7-547	107CU-V47
C29	1.5 NPO +.25mmf			DTZ-1R5	C10V15C	CCTN-050	CNO-515	107CC-V15
C30	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C31	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C32	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C33	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C34	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C35	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C36	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C37	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C38	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C39	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C40	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C41	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C42	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C43	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C44	.005		BPD-005	DD-502	CUB4S5	4DP-3-503	GEM-2005	5HK-D50
C45	100 N2200 10%		DI-390	DD-391	L10T39	CCD-391	B-339	107S-T39
C46	470		DI-470	DD-471	BYA10T47	CCD-471	B-347	107S-T47
C47	.1 100V		BPD-05	DD-104	CUB4S5	4DP-2-104	GEM-401	2TM-P10
C48	.05		BPD-05	DD-104	CUB4S5	4DP-2-104	GEM-401	2TM-P10
C49	.015		BPD-05	DD-104	CUB4S5	4DP-2-104	GEM-401	2TM-P10
C50	.05		BPD-05	DD-104	CUB4S5	4DP-2-104	GEM-401	2TM-P10
C51	.05		BPD-05	DD-104	CUB4S5	4DP-2-104	GEM-401	2TM-P10
C52	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	107CC-V68
C53	.01		BPD-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C54	.033 400V		P488N-033	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C55	.01		BPD-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C56	.05		BPD-05	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C57	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	107CC-V68
C58	47 N750		DI-470	DD-471	BYA10T47	CCD-471	B-347	107S-T47
C59	12 NPO 10%			DTN-12	C10V12C	CCTN-120	CNO-412	107CC-Q12
C60	.01		BPD-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C61	.033 400V		P488N-033	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C62	.047 400V		P488N-047	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C63	.360 5%		1469-00036	DD-503	5H5T36	CM-19B-361J	GEM-4147	4TM-S47
C64	.360 5%		1469-00036	DD-503	5H5T36	CM-19B-361J	GEM-4147	4TM-S47
C65	.360 5%		1469-00036	DD-503	5H5T36	CM-19B-361J	GEM-4147	4TM-S47
C66	.05		BPD-05	DD-503	CUB4S5	4DP-3-503	GP150	5HK-S50
C67	.033 400V		P488N-033	DD-503	CUB4S5	4DP-3-503	GP150	5HK-S50
C68	.180 5%		1469-00018	DD-503	5H5T18	CM-19B-181J	GEM-4133	5HK-S10
C69	.005		BPD-005	DD-502	CUB4S5	4DP-2-333	CNO-318	5HK-D50
C70	22 N750 10%		N750-DI 22	DTN-22	C10Q22U	CCTN-220	CNT-422	107CU-Q22
C71	47 N750		N750-DI 47	DTN-47	C10Q47U	CCTN-470	CNT-447	107CU-Q47
C72	.01		BPD-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C73	.01 400V		P488N-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C74	.047 400V		P488N-047	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C75	270 10%		N750-DI 82	DTN-82	C10Q82U	CCTN-820	CNT-482	107CU-Q82
C76	.01 400V		P488N-01	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10
C77	.047 400V		P488N-047	DD-103	CUB4S5	4DP-2-333	GEM-4133	5HK-S10



CHASSIS BOTTOM VIEW - CAPACITOR IDENT. (C66-C128)



CHASSIS BOTTOM VIEW - RESISTOR IDENT. (R5-R61)
(OTHER RESISTOR PHOTOS - PAGES 5 & 13)



CHASSIS BOTTOM VIEW - INDUCTOR & RESISTOR IDENT. (R123-R149)
(OTHER RESISTOR PHOTOS - PAGES 4 & 5)

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.
Suggested Alignment Tools:
A1 thru A7, All thru A19..... GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440
WALSCO #2528, 2543, 2544, 2545
A8, A9, A10, A20, A21, A22..... 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
With AM Tuning gang fully closed, set pointer at left hand start mark.

	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	(AM Narrow) 400v 30% AM	AC probe across Audio Output jack.	A1, A2, A3, A4	Adjust for maximum deflection.
2.	Fashion loop of several turns of wire and radiate signal into loop of receiver.	600KC	600KC	"	A5, A6 A7	Adjust for maximum deflection while rocking tuning gang.
3.	"	1400KC	1400KC	"	A8, A9, A10	Adjust for maximum deflection. Repeat steps 2 and 3.

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
4.	High side to ungrounded tube shield over FM Mixer. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point $\odot$. Common to chassis.	A11, A12, A13, A14, A15, A16, A17	Adjust for maximum deflection.
5.	"	"	"	DC probe thru lmg to point $\odot$. Common to chassis.	A18	"
6.	"	"	"	DC probe to point $\odot$. Common to chassis.	A19	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 50% modulation and 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.
AFC Off.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
4.	High side to ungrounded tube shield over FM Mixer. Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. to point $\odot$. Low side to chassis.	A11, A12, A13, A14, A15, A16, A17	Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown.
5.	"	"	"	Vert. amp. thru 47K to point $\odot$. Low side to chassis.	A18	"
6.	"	"	"	Vert. amp. to point $\odot$. Low side to chassis.	A19	Adjust to place marker at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A18 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 150 Ω in each lead.	90MC (Unmod.)	(FM) 90MC	DC probe to point $\odot$. Common to chassis.	L8, L7, L2	Adjust for maximum deflection by expanding or compressing coil turns.
8.	"	106MC	106MC	"	A20, A21, A22	Adjust for maximum deflection.

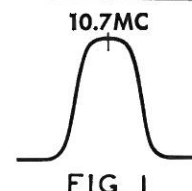


FIG. 1

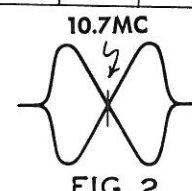
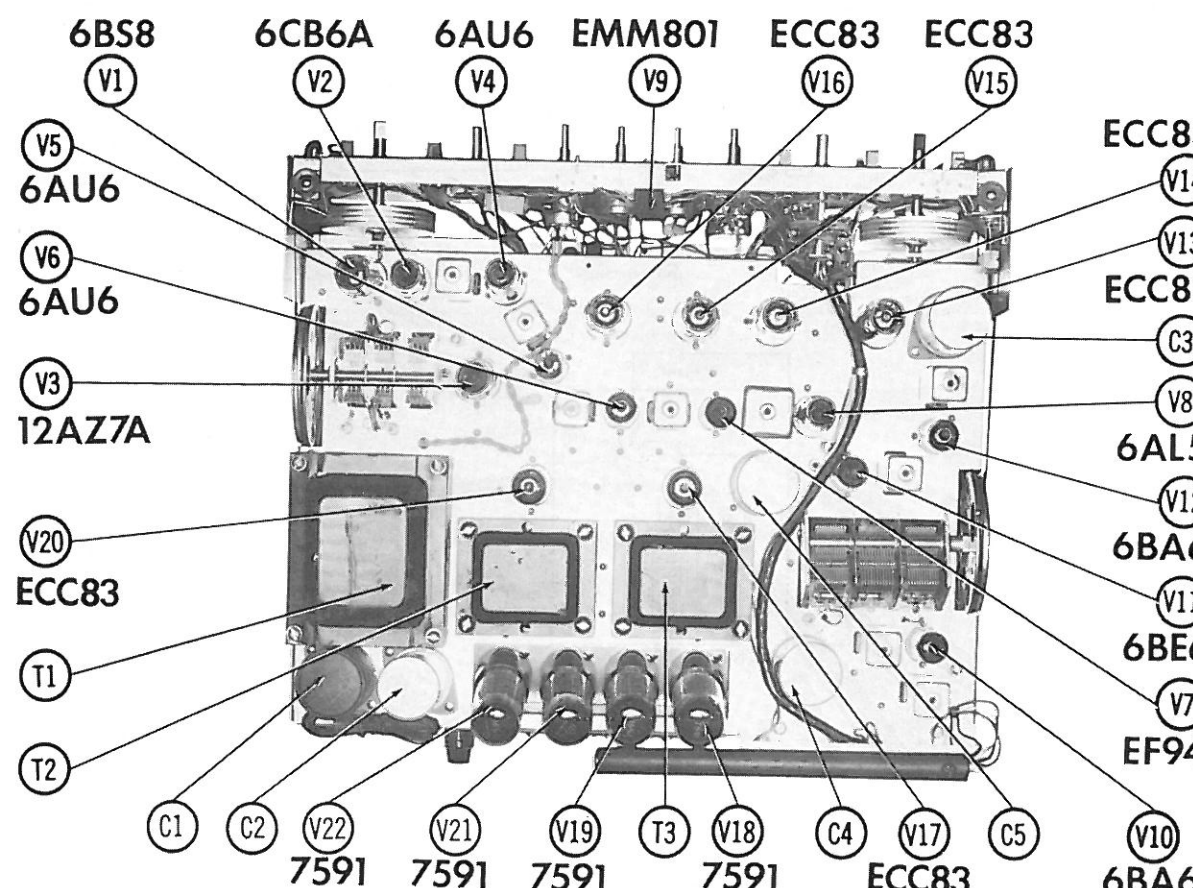
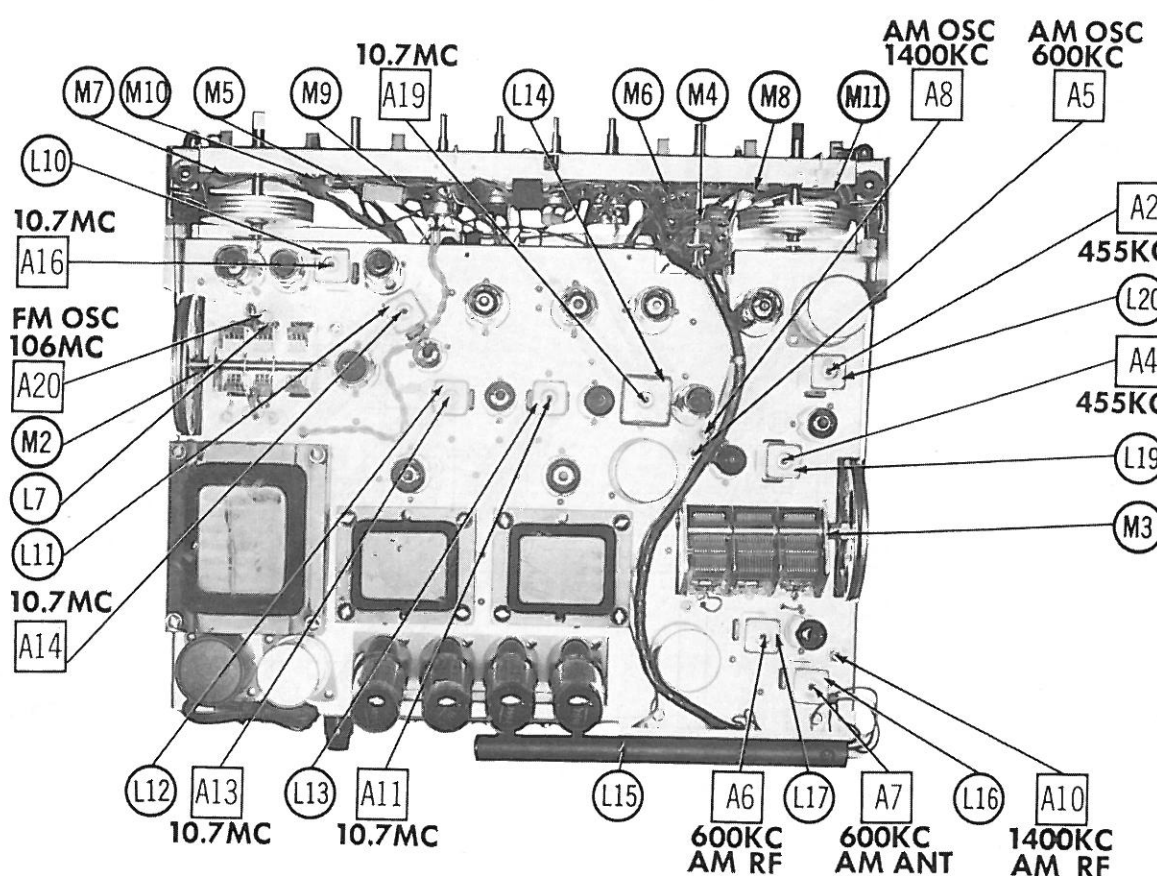
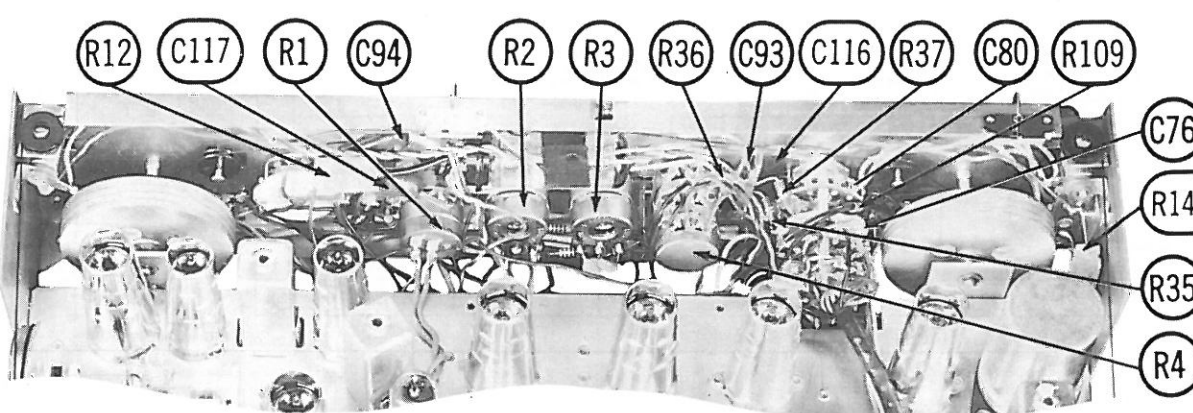


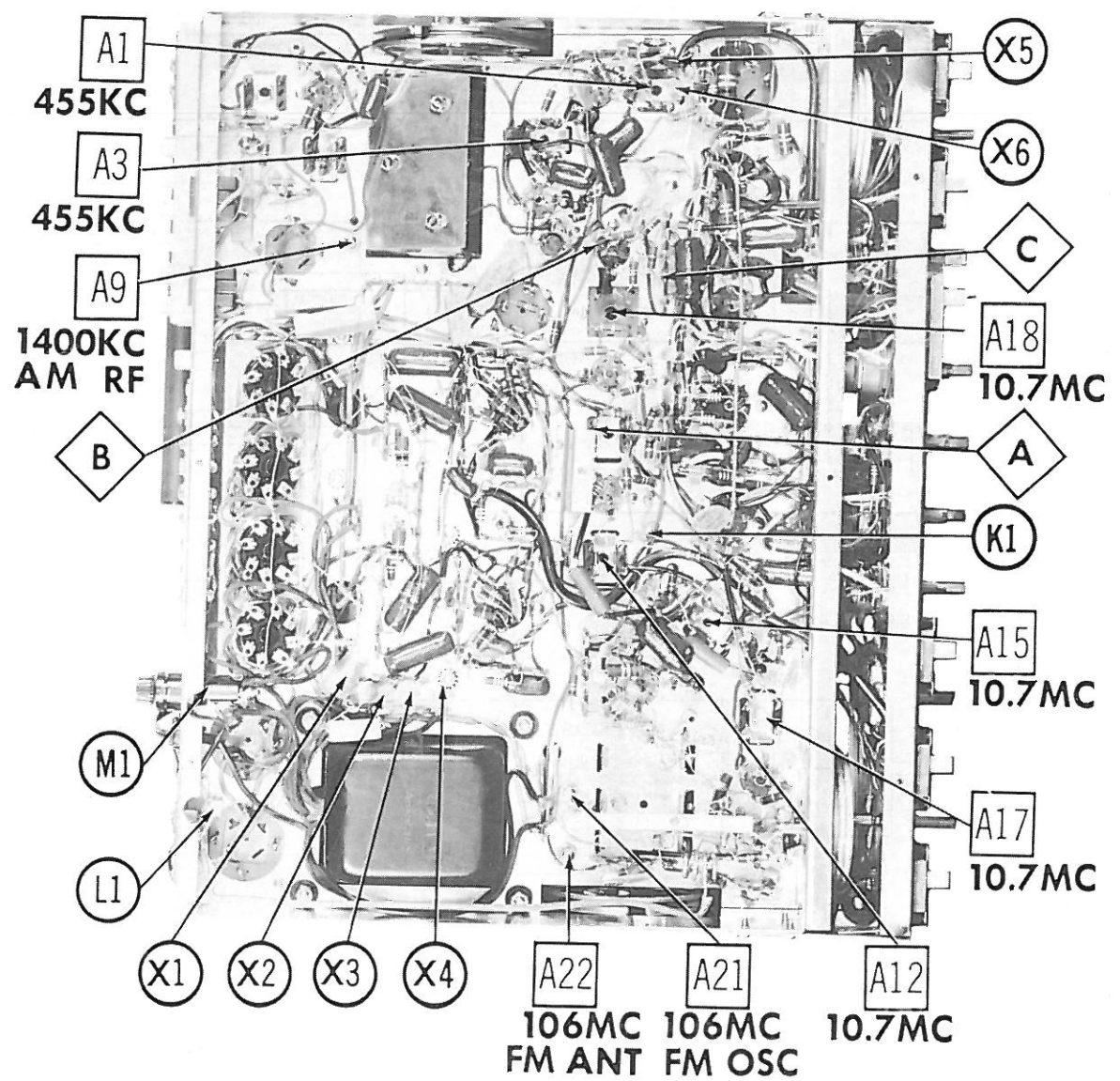
FIG. 2



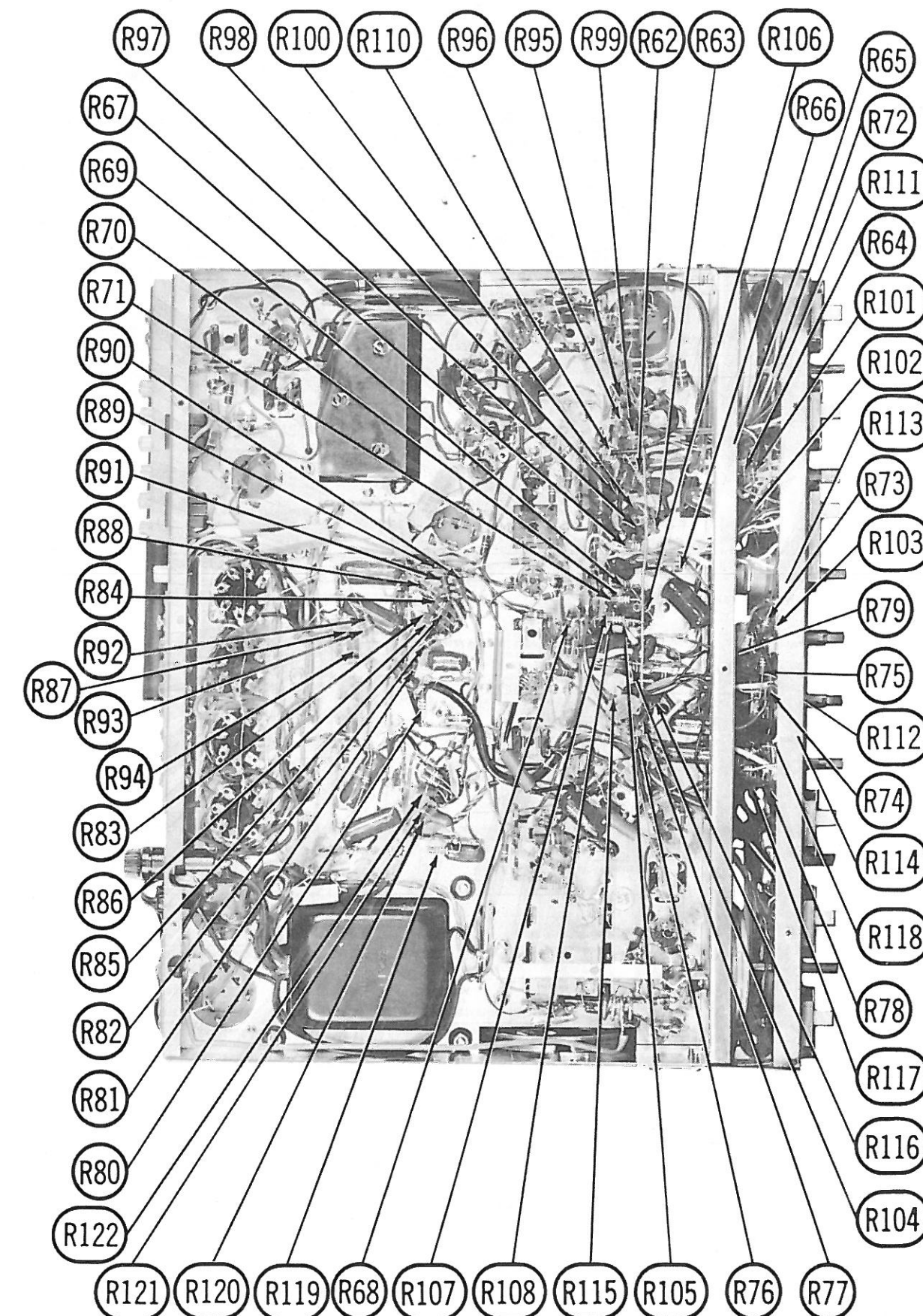
CHASSIS - TOP VIEW



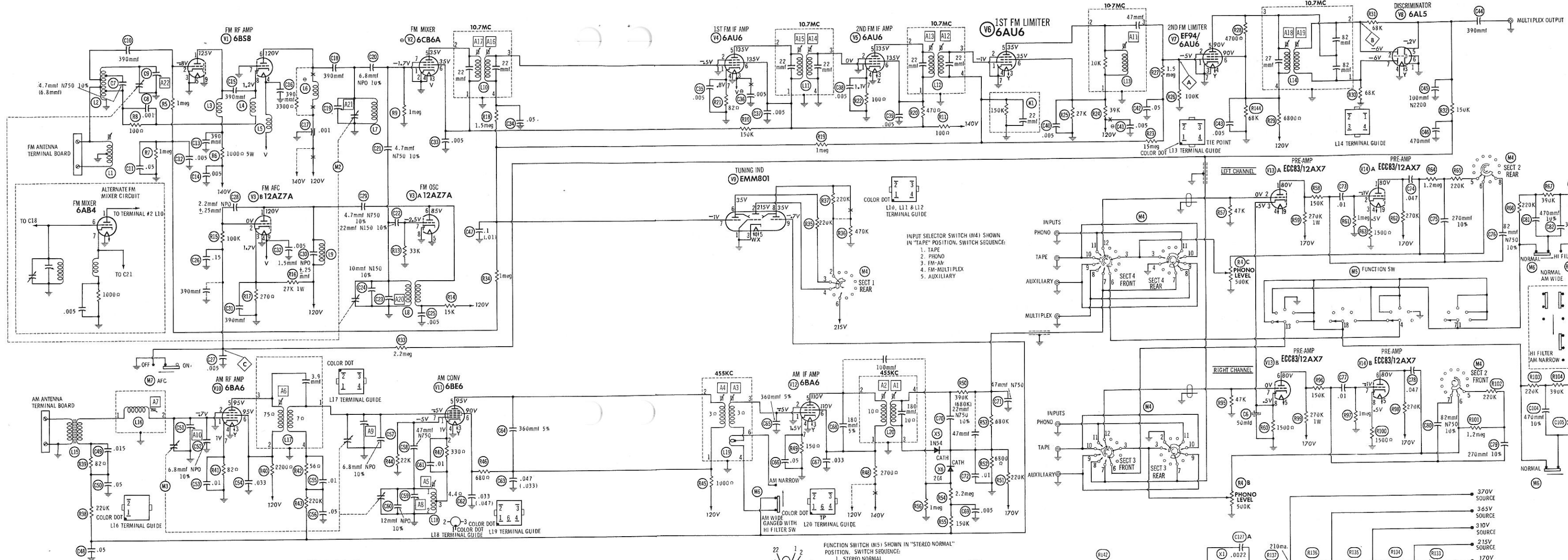
CONTROL PANEL - REAR VIEW



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



CHASSIS BOTTOM VIEW - RESISTOR IDENT. (R62-R122)
(OTHER RESISTOR PHOTOS - PAGES 4 & 13)



ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6BS8	11500 Ω	1.8 meg	0 Ω	FIL	FIL	1940 Ω	0 Ω	100 Ω	0 Ω
V2	6CB6A	1 meg	0 Ω	FIL	FIL	1150K	1150K	0 Ω	0 Ω	0 Ω
V3	12AZ7A	1940 Ω	2.8 meg	270 Ω	FIL	FIL	116K	33K	0 Ω	FIL
V4	6AU6	2.2 meg	0 Ω	FIL	FIL	1570 Ω	1570 Ω	82 Ω	0 Ω	0 Ω
V5	6AU6	1 Ω	0 Ω	FIL	FIL	11000 Ω	11000 Ω	100 Ω	0 Ω	0 Ω
V6	6AU6	150K	0 Ω	FIL	FIL	124K	124K	0 Ω	0 Ω	0 Ω
V7	6B6	100K	0 Ω	FIL	FIL	17700 Ω	17700 Ω	0 Ω	0 Ω	0 Ω
V8	6AL5	0 Ω	68K	FIL	FIL	136K	0 Ω	68K	0 Ω	0 Ω
V9	EMM801	0 Ω	+15K	0 Ω	FIL	FIL	+235K	700K	+200K	3.1 meg
V10	6BA6	3.3 meg	0 Ω	FIL	FIL	13100 Ω	13100 Ω	82 Ω	0 Ω	0 Ω
V11	6BE6	22K	330 Ω	FIL	FIL	12000 Ω	12500 Ω	3.7 meg	0 Ω	0 Ω
V12	6BA6	3.1 meg	0 Ω	FIL	FIL	13100 Ω	13100 Ω	150 Ω	0 Ω	0 Ω

(BALANCE OF RESISTANCE CHART AT OPPOSITE END OF SCHEMATIC)

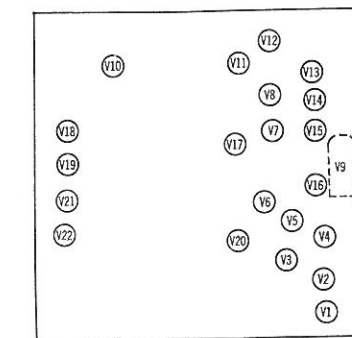
NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltage measured with 1000-ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measure values are from socket pin to common ground.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance of component values makes possible a variation of 15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

A PHOTOPAC STANDARD NOTATION SCHEMATIC
© Howard W. Sams & Co., Inc. 1962



ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V13	6EC83	+305K	47K	1500 Ω	0 Ω	8 Ω	+305K	47K	1500 Ω	NC
V14	6EC83	+305K	1 meg	1500 Ω	0 Ω	8 Ω	+305K	1 meg	1500 Ω	NC
V15	6EC83	+62K	510K	40K	8 Ω	15 Ω	+15K	510K	39K	NC
V16	6EC83	+195K	55K	1500 Ω	8 Ω	15 Ω	+195K	55K	1500 Ω	NC
V17	6EC83	+275K	1 meg	1200 Ω	FIL	FIL	+87K	1.6 meg	85K	FIL
V18	7591	NC	FIL	+170 Ω	+66 Ω	0 Ω	+151K	FIL	+66 Ω	0 Ω
V19	7591	NC	FIL	+160 Ω	+66 Ω	0 Ω	+151K	FIL	+66 Ω	0 Ω
V20	6EC83	+275K	1 meg	1200 Ω	FIL	FIL	+87K	1.6 meg	85K	FIL
V21	7591	NC	FIL	+170 Ω	+66 Ω	0 Ω	+151K	FIL	+66 Ω	0 Ω
V22	7591	NC	FIL	+160 Ω	+66 Ω	0 Ω	+151K	FIL	+66 Ω	0 Ω

ALL MEASUREMENTS MADE IN "AM-FM STEREO" POSITION WITH AFC ON UNLESS OTHERWISE DESIGNATED.
 * MEASURED IN "A.M. STEREO" POSITION WITH AFC OFF.
 † MEASURED FROM JUNCTION OF R140 AND C5C.
 ‡ MEASURED FROM JUNCTION OF C1 AND C2A.
 NC NO CONNECTION
 + MEASURED FROM OUTPUT OF X1.

SHERWOOD
MODEL S-7000