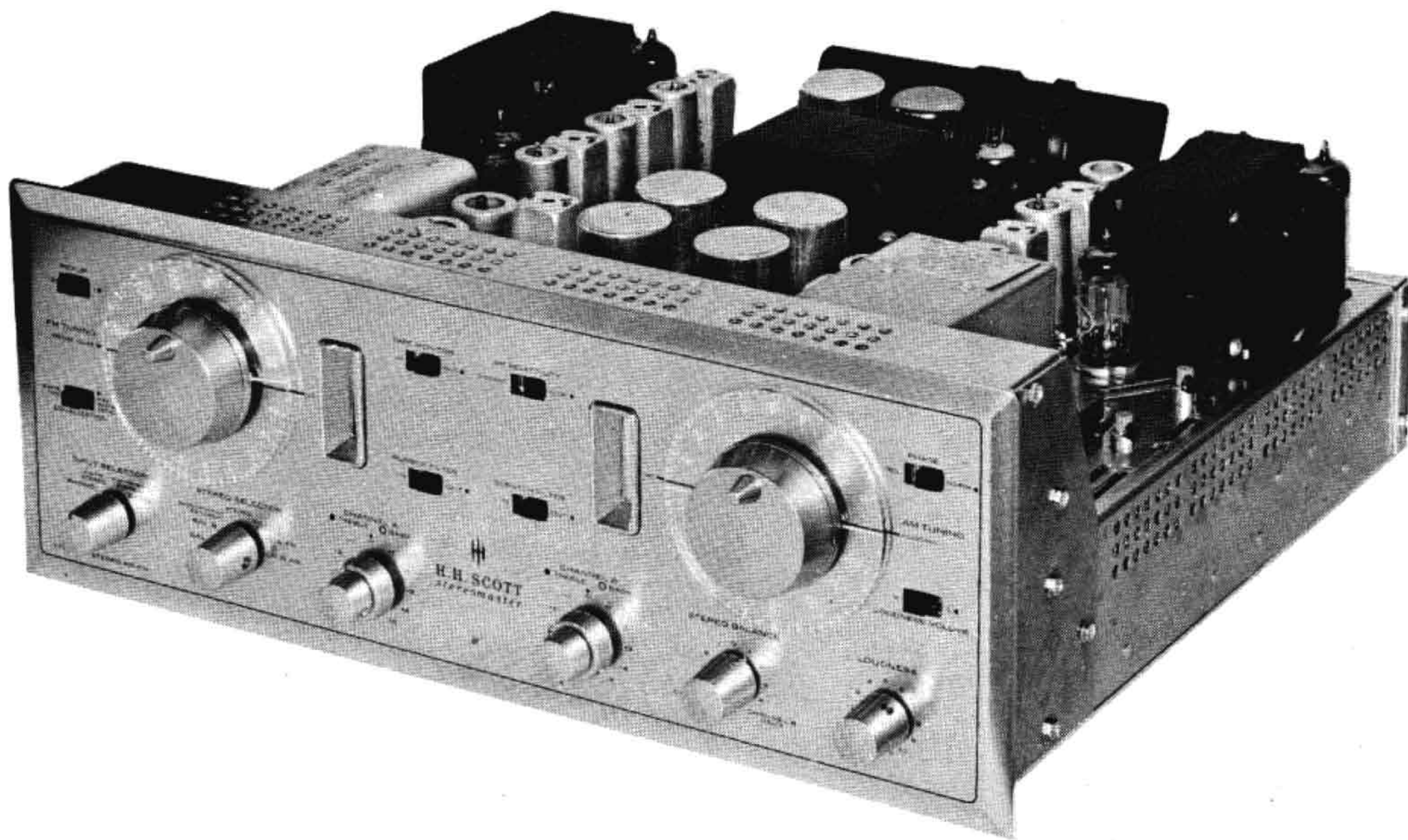


H. H. SCOTT MODEL 399



TRADE NAME	H. H. Scott Model 399		
MANUFACTURER	Herman Hosmer Scott, Inc., 111 Powder Mill Road, Maynard, Mass.		
TYPE SET	AC Operated 23 Tube FM-AM Receiver With Stereo Amplifier		
POWER SUPPLY	105 - 125 Volts AC, 50-60 Cycles	RATING	175 Watts, 1.5 Amp. @117 Volts AC
TUNING RANGE - BROADCAST	540 - 1600KC	FREQ. MOD.	88 - 108MC

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Use only enough generator output to provide a usable indication.

Suggested Alignment Tools: A1 Thru A6, A11 Thru A15, A17 Thru A22. . GENERAL CEMENT #5097, 8727
 WALSCO #2515
 A7, A8, A9..... GENERAL CEMENT #5004, 5008, 5009
 WALSCO #2520
 A10, A16, A23..... GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440
 WALSCO #2526, 2543, 2544, 2545
 A24, A25, A26..... GENERAL CEMENT #5003, 8271, 8275, 8276, 8609,
 8721, 8722, 9150, 9298
 WALSCO #2516, 2518, 2519

AM ALIGNMENT—SELECTOR IN AM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
1.	High side thru .1mfd to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (400 ν Mod.)	(AM) Tuning gang fully open.	AC probe to point \diamond A. Common to chassis.	A1, A2, A3, A4, A5, A6	Adjust for maximum deflection.
2.	High side thru .01mfd to AM antenna terminal (disconnect shorting link). Low side to chassis.	1600KC	1600KC	"	A7, A8, A9	"
3.	"	600KC	600KC	"	A10, A11, A12, A13	"
4.	"	1400KC (10KC Mod.)	1400KC Signal	"	A14, R12	Adjust for MINIMUM deflection.
5.	"	455KC (400 ν Mod.)	1000KC	"	A15	"

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

Connect two matched 100K (+ 1%) resistors in series from point \diamond B to chassis. The junction of these two resistors is alignment point \diamond D as shown on the schematic.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
6.	High side thru .01mfd to pin 2 (grid) of FM Mixer. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point \diamond B. Common to chassis.	A16, A17, A18, A19, A20, A21, A22	Adjust for maximum deflection.
7.	"	"	"	DC probe to point \diamond C. Common to point \diamond D.	A23	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

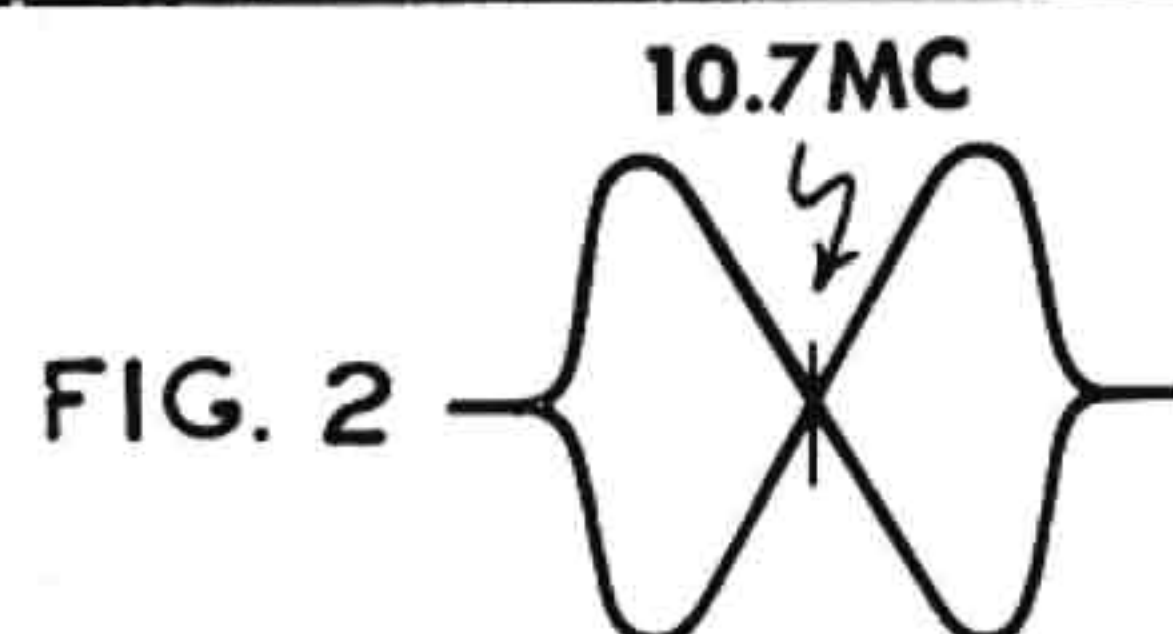
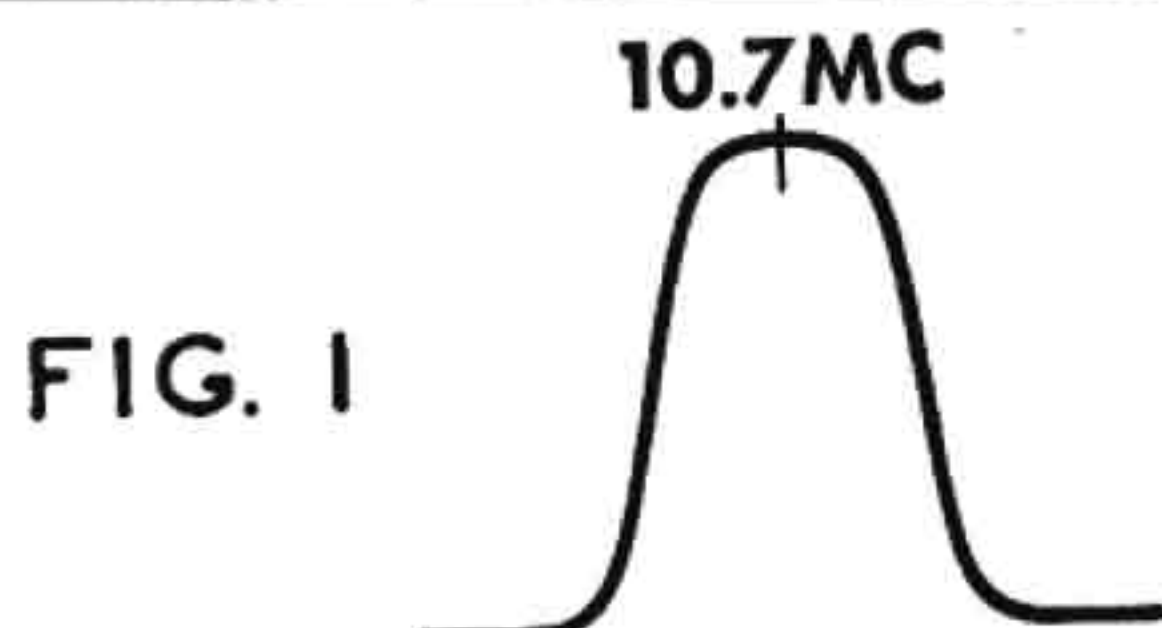
FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE—SELECTOR IN FM POSITION

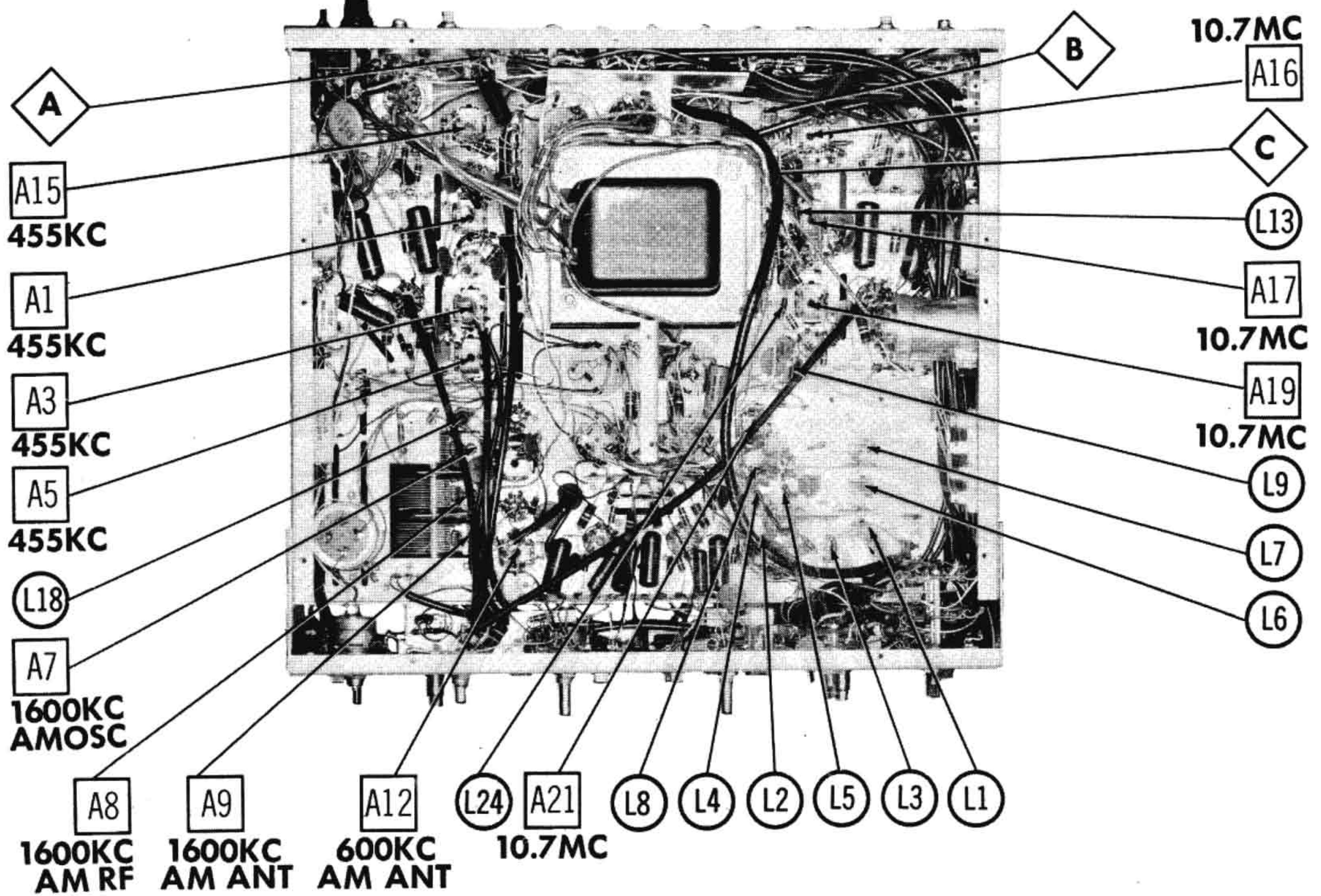
Use frequency modulated signal with 60 ν modulation and 450KC sweep. Use 120 ν sawtooth voltage in scope for horizontal deflection.

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
6.	High side thru .01mfd to pin 2 (grid) of FM Mixer. Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. to point \diamond B. Low side to chassis.	A16, A17, A18, A19, A20, A21, A22	Disconnect stabilizing capacitor C4D. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C4D.
7.	"	"	"	Vert. amp. to point \diamond C. Low side to chassis.	A23	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A16 for maximum amplitude and straightness of crossover lines.

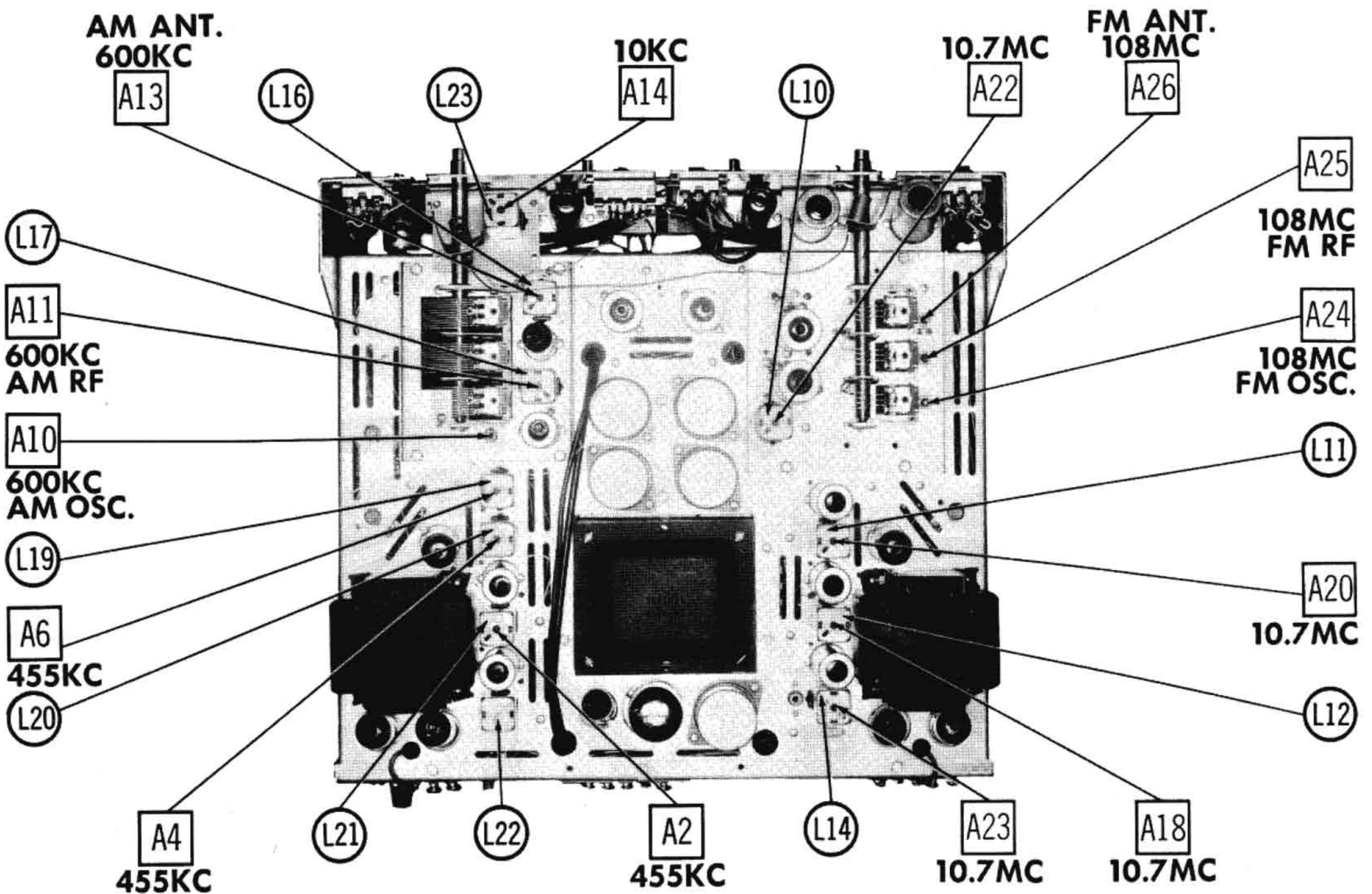
FM RF ALIGNMENT—SELECTOR IN FM POSITION

	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
8.	High side thru 270 Ω to FM antenna terminal. Low side to chassis.	108MC (Unmod.)	(FM) 108MC	DC probe to point \diamond B. Common to chassis.	A24, A25, A26	Adjust for maximum deflection.
9.	"	90MC	90MC	"	L7, L6, L1	Adjust for maximum deflection by expanding or compressing coil turns.

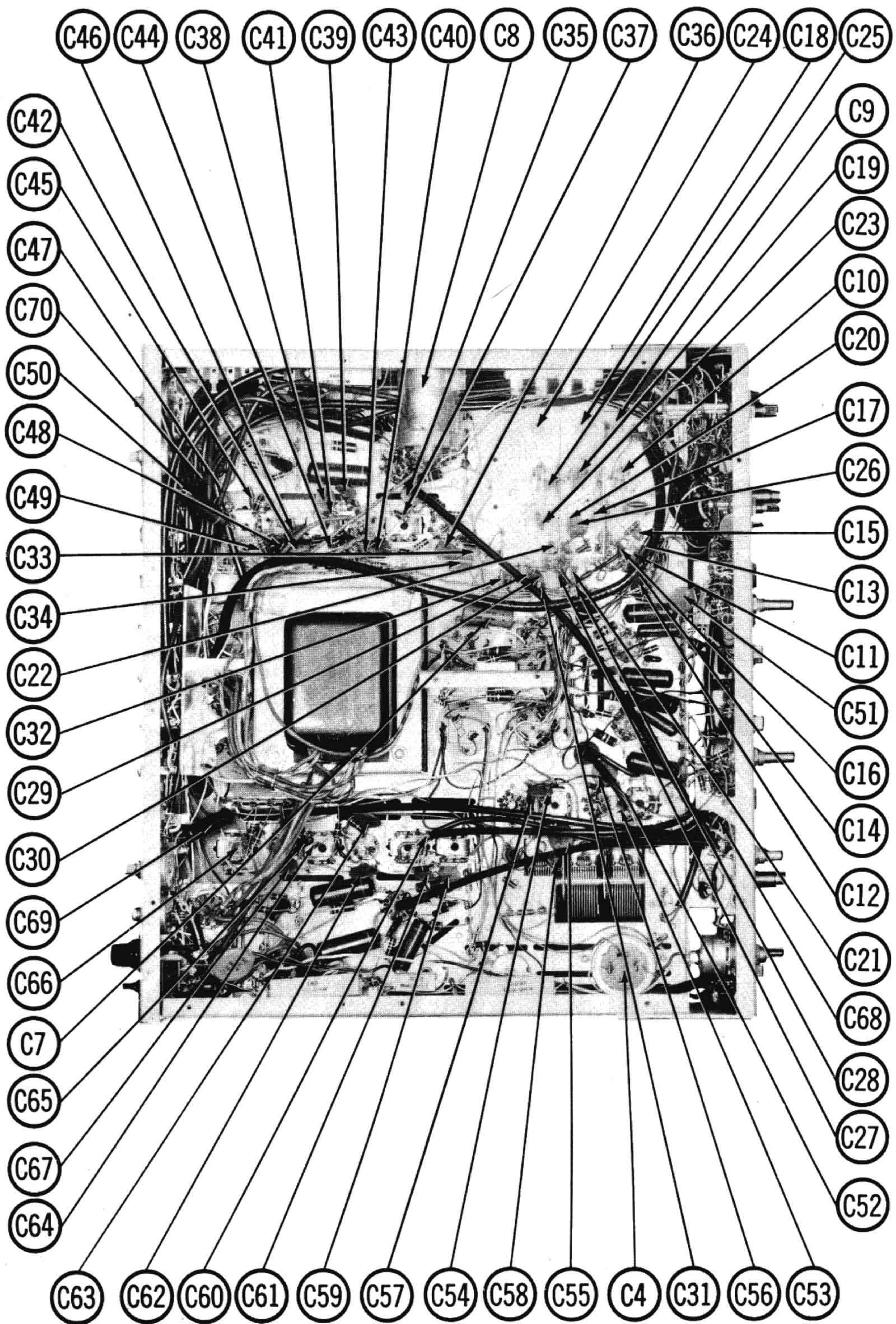




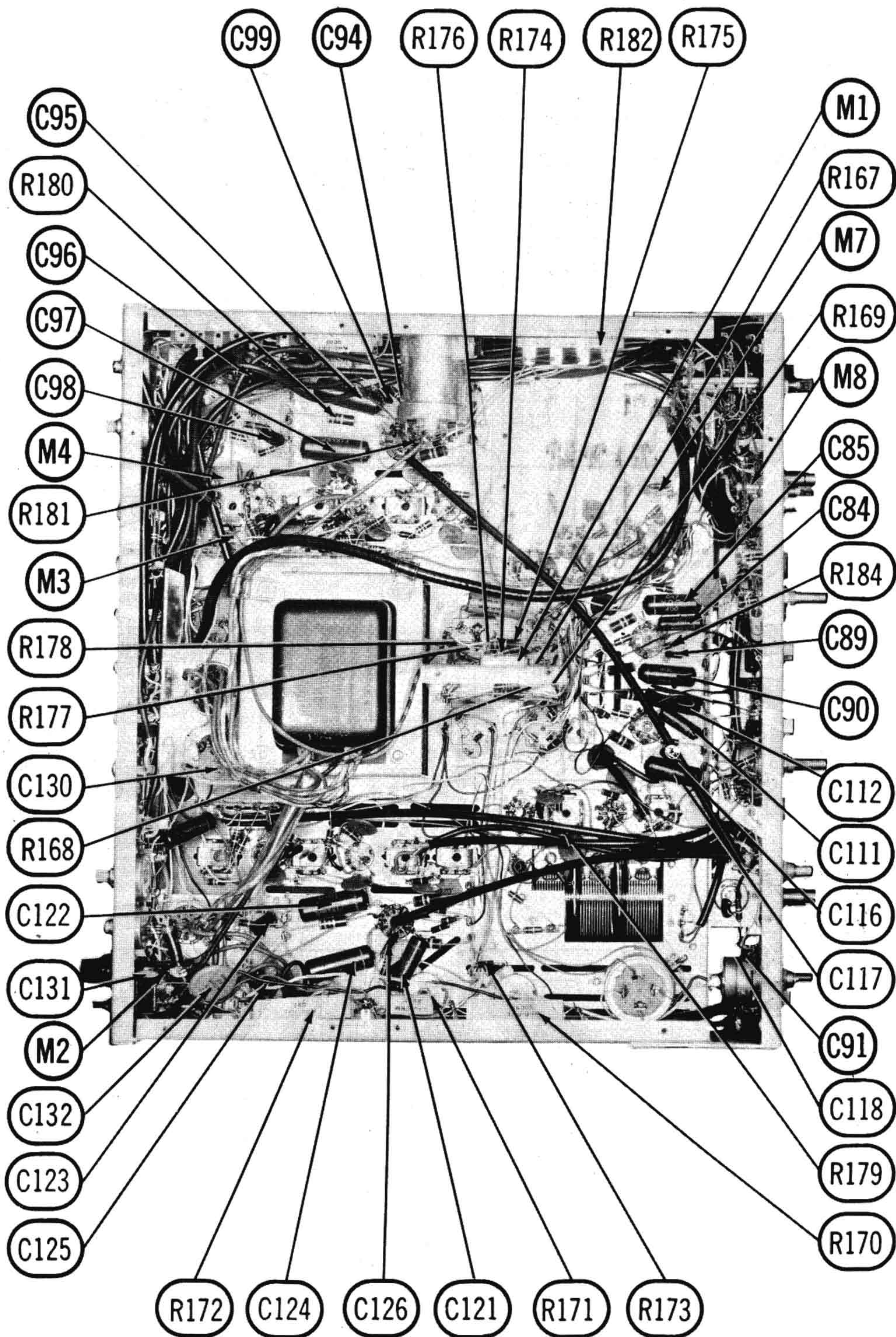
CHASSIS BOTTOM VIEW-ALIGNMENT & INDUCTOR IDENT.



CHASSIS TOP VIEW-ALIGNMENT & INDUCTOR IDENT.



CHASSIS-BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW - CAPACITOR, RESISTOR & MISC IDENT.

PARTS LIST AND DESCRIPTIONS

TUBES

GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amplifier	6BS8 (6BQ7) *	V13	Channel A AF Amplifier	ECC83/12AX7			
V2	FM Mixer - FM Osc.	6U8A	V14	Channel A AF Amplifier - Phase Inverter	ECF80 (6BL8) *			
V3	1st FM IF Amplifier	6AU6A	V15	Channel A Output	7189			
V4	2nd FM IF Amplifier	6AU6A	V16	Channel A Output	7189			
V5	FM Limiter	6AU6A	V17	Channel B Pre-amplifier	ECC83/12AX7			
V6	FM Tuning Indicator	EM84 (6FG6) *	V18	Channel B AF Amplifier	ECC83/12AX7			
V7	AM RF Amplifier	6BA6	V19	Channel B AF Amplifier - Phase Inverter	ECF80 (6BL8) *			
V8	AM Converter	6BE6	V20	Channel B Output	7189			
V9	AM IF Amplifier	6AU6A	V21	Channel B Output	7189			
V10	AM Det. -AVC Clamper	6AL5	V22	Rectifier	GZ34/5AR4			
V11	AM Tuning Indicator	EM84 (6FG6) *	V23	Rectifier	6X4			
V12	Channel A Pre-amplifier	ECC83/12AX7						

* Alternate

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	H. H. SCOTT PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	
C1A	30	475	CEC-30-20-475	AFH2-69	B0487	FP284	TMD-61	TVL-2935	
B	20	475							
C2A	30	475	CEC-30-20-475	AFH2-69	B0487	FP284	TMD-61	TVL-2935	
B	20	475							
C3A	20	450	CEC-2X20-2X25	AFH4-67	D0520	FP430.97	TMQ-73	TVL-4724.2	
B	20	450							
C	25	25							
D	25	25							
C4A	4	250	CEC-3X4-25	AFH4-43	D0070	WP433.6	TMQ-9	TVL-4759.7	
B	4	250			BBR25-25	TC26	TD-25-25	TVA-1205	
C	4	250							
D	25	25							
C5A	100	75	CEC-2X100-10CP					TVLPS-3360*	
B	100	75							
C	10	75							
C6A	100	75	CEC-2X100-10CP						
B	100	75							
C	10	75							
C7	10	25	CET-10/25	PRS1250	BBR10-25	TC22	TD-10-25	TVA-1204	
C8A	40	250	CEC-4X40-250			WP412.8	TMQ-116	TVLS-4581 *	
B	40	250							
C	40	250							
D	40	250							

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

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						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.	
C9	1-10			829-10					
C10	12 NPO 10%			TCZ-12	C10Q1C	CCTO-120	CNO-412	10TCC-Q12	
C11	47		DI-47	DD-470	LI0Q47	CCD-470	GP447	10TS-Q47	
C12	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47	
C13	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C14	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C15	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C16	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10	
C17	15 NPO 10%		NPO-DI 15	DTZ-15	C10Q15C	CCTO-150	CNO-415	10TCC-Q15	
C18	1-10			829-10					

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C19	5 NPO		NPO-DI 5.0	DTZ-4R7	C10V5C	CCTO-050	CNO-547	10TCC-V50
C20	15 NPO 10%		NPO-DI 15	DTZ-15	C10V15C	CCTO-150	CNO-415	10TCC-Q15
C21	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C22	6.8 10%		NPO-SI 6.8	TCZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68
C23	15 N750 5%		N750-DI 15	DTN-15	C10Q15U	CCTN-150	CN7-415	10TCU-Q15
C24	1-10			829-10				
C25	10 NPO		NPO-DI 10	DTZ-10	C10Q1C	CCTO-150	CNO-410	10TCC-Q10
C26	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C27	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C28	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C29	4.7 10%		NPO-SI 4.7	TCZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47
C30	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C31	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C32	.22 10%							
C33	10 NPO		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C34	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C35	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C36	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C37	.1							
C38	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C39	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C40	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C41	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C42	47		DI-47	DD-470	LI0Q47	CCD-470	GP447	10TS-Q47
C43	1000		BPD-001	DD-103	BYA10D1	CCD-102	B-210	5HK-D10
C44	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C45	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C46	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C47	470 10%		1469-00047		5R5T47	CM-19B-471K	MCJ244	MS-347
C48	330 10%		1469-00033		5R5T33	CM-19B-331K	MCB241	MS-333
C49	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C50	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C51	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C52	10 NPO		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C53	1000		DI-1000	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C54	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C55	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C56	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C57	47		1468-000047	DTZ-47	5W5Q47	CM-19B-470M	CNO-447	1FM-447
C58	15 N2200					*		
C59	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C60	2.2 10%		NPO-SI 2.2	TCZ-2R2	C10V22C	CCTO-2R2	CNO-522	10TCC-V22
C61	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C62	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C63	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C64	10 NPO		NPO-DI 10	DTZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C65	22 10%		1469-000022	TCZ-22	C10Q22C	CM-19B-220K	CNO-422	MS-422
C66	1000		BPD-001	DD-102	BYA10D1	CCD-102	B-210	5HK-D10
C67	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C68	.0082 400V 10%		P684CM-0082		DPMS6D82	6DP-2-822	GEM-16282	6PS-D82
C69	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C70	4700		BPD-0047	DD-472	BYA10D47M	CCD-472	B-247	5HK-D47
C71	82 10%		1469-000082	TCZ-82	22R5Q82	CM-19B-820K	CNO-482	MS-482
C72	220 10%		1469-00022	TCZ-220	5R5T22	CM-19B-220K	CNO-322	MS-322
C73	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C74	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C75	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C76	150 10%		1469-00015	TCZ-150	22R5T15	CM-19B-151K	MCB236	MS-315
C77	560 10%		1469-00056		5R5T56	CM-19B-561K	MCJ247	MS-356
C78	180 10%		1469-00018	TCZ-180	22R5T18	CM-19B-180K	CNO-318	MS-318
C79	.0033 400V 10%		V84C4D33-10%		PM6D33	6DP-1-332	GEM-16233	6TM-D33
C80	33 10%		1469-000033	TCZ-33	22R5Q33	CM-19B-330K	CNO-433	MS-433
C81	180 10%		1469-00018	TCZ-180	22R5T18	CM-19B-181K	CNO-318	MS-318
C82	.22 10%							
C83	.0012 400V 10%		P684CM-0012	DD-122	DPMS6D12	6DP-1-122	GP212	6PS-D12

Note 1

Note 1

PARTS LIST AND DESCRIPTIONS (Continued)

FIXED CAPACITORS (cont)

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C84	.0012 400V 10%		P684M-0012	DD-122	DPMS6D12	6DP-1-122	GP212	6PS-D12
C85	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C86	220 10%		1469-00022	TCZ-220	5R5T22	CM-19B-221K	CNO-322	MS-322
C87	.0068 400V 10%		V84C4D68-10%		PM6D68	6DP-1-682	GEM-16268	6TM-D68
C88	.0068 400V 10%		V84C4D68-10%		PM6D68	6DP-1-682	GEM-16268	6TM-D68
C89	47 10%		1469-000047	TCZ-47	22R5Q47	CM-19B-470M	CNO-447	MS-447
C90	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C91	100 10%		1469-0001	TCZ-100	22R5T1	CM-19B-101K	MCB235	MS-310
C92	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C93	150 10%		1469-00015	TCZ-150	22R5T15	CM-19B-151K	MCB236	MS-315
C94	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C95	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C96	470 10%		1469-00047	DF-104	5R5T47	CM-19B-471K	MCJ244	MS-347
C97	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C98	470 10%		1469-00047	DF-104	5R5T47	CM-19B-471K	MCJ244	MS-347
C99	220 10%		1469-00022	TCZ-220	22R5T22	CM-19B-221K	CNO-322	MS-322
C100	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C101	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C102	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C103	150 10%		1469-00015	TCZ-150	22R5T15	CM-19B-151K	MCB236	MS-315
C104	560 10%		1469-00056	TCZ-180	5R5T56	CM-19B-561K	MCJ247	MS-356
C105	180 10%		1469-00018	TCZ-180	22R5T18	CM-19B-181K	CNO-318	MS-318
C106	.0033 400V 10%		V84C4D33-10%		PM6D33	6DP-1-332	GEM-16233	6TM-D33
C107	33 10%		1469-000033	TCZ-33	22R5Q33	CM-19B-330K	CNO-433	MS-433
C108	180 10%		1469-00018	TCZ-180	22R5T18	CM-19B-181K	CNO-418	MS-318
C109	.22 10%							
C110	.0012 400V 10%		P684CM-0012	DD-122	DPMS6D12	6DP-1-122	GP212	6PS-D12
C111	.0012 400V 10%		P684CM-0012	DD-122	DPMS6D12	6DP-1-122	GP212	6PS-D12
C112	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C113	220 10%		1469-00022	TCZ-220	22R5T22	CM-19B-221K	CNO-322	MS-322
C114	.0068 400V 10%		V84C4D68-10%		PM6D68	6DP-1-682	GEM-16268	6TM-D68
C115	.0068 400V 10%		V84C4D68-10%		PM6D68	6DP-1-682	GEM-16268	6TM-D68
C116	47 10%		1469-000047	TCZ-47	22R5Q47	CM-19B-470K	CNO-447	MS-447
C117	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C118	100 10%		1469-0001	TCZ-100	22R5T1	CM-19B-101K	MCB235	MS-310
C119	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C120	150 10%		1469-00015	TCZ-150	22R5T15	CM-19B-151K	MCB236	MS-315
C121	.022 400V		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C122	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C123	470 10%		1469-00047	DF-104	5R5T47	CM-19B-471K	MCJ244	MS-347
C124	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P10
C125	470 10%		1469-00047	DF-104	5R5T47	CM-19B-471K	MCJ244	MS-347
C126	220 10%		1469-00022	TCZ-220	22R5T22	CM-19B-221K	CNO-322	MS-322
C127	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C128	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C129	20000		BPD-02	DD-203	BYB6S2	CCD-203	B-120	5HK-S20
C130	20000 1400V	Note 1			CUB16S2	16DP-4-203	GEM-1612	MB-S2
C131	20000 1400V	Note 1			CUB16S2	16DP-4-203	GEM-1612	MB-S2
C132	20000 1400V	Note 1			CUB16S2	16DP-4-203	GEM-1612	MB-S2

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

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	H. H. SCOTT PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	500K	1/2	RCVD-500KT	BT-66			FA55T15	Loudness, Channel A
B	100K Tap	1/2		STR-66			RU55T15	Loudness, Channel B
C	500K			Not Req.			CS3500	
D	100K Tap			KR-1			US41	
R2A	1meg	1/2	RCV-1MST-3F	BT-71	A47F5-1meg	Q19-137X	UT-443	Stereo Balance
B	500K Tap			Not Req.	FS-3	Not Req.	Not Req.	

CONTROLS (cont)

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES	
	RESIST-ANCE	WATTS	H. H. SCOTT PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.		
R3A	1meg	1/2	RCVC-1MT	F1-56				■ UE4135 {	Bass, Channel B
B	500K Tap	1/2		R2-56					■ UE4135 {
R4A	1meg	1/2	RCVC-1MT	F1-56				■ UE4135 {	
B	500K Tap	1/2		R2-56					■ UE4135 {
R5A	100K	1/2	RCV-100K-S-2	BX-40	A47-100K-S	Q11-128	SU-41		
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R6A	500K	1/2	RCV-500K-P	BX-59	A47-500K-S	Q11-133	SU-50		AM Level
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R7A	500K	1/2	RCV-500K-P	BX-59	A47-500K-S	Q11-133	SU-50		FM Level
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R8A	100K	1/2	RCV-100K-S-2	BX-40	A47-100K-S	Q11-128	SU-41		DC Balance, Channel A
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R9A	100K	1/2	RCV-100K-P	BX-40	A47-100K-S	Q11-128	SU-41		AC Balance, Channel A
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R10A	100K	1/2	RCV-100K-P	BX-40	A47-100K-S	Q11-128	SU-41		AC Balance, Channel B
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R11A	5000Ω	1/2	RCV-5K-P	BX-10	A47-5000-S	Q11-114	SU-14		Bias Adjust
B	Shaft		Not Req.	Not Req.	FKS-1/4	Not Req.	Not Req.		
R12	1500Ω	2(WW)	RWV-1.5K		39-1500				10KC Filter

■ "STA-LOC" equivalent: FB16T55, RU16T55, OS687, IS937.

RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R13	1meg		R49	2200Ω		R85	3.9meg	
R14	2700Ω	1W	R50	220K		R86	10meg	
R15	390Ω		R51	22K		R87	2.2meg	
R16	270Ω		R52	1meg		R88	2.2meg	
R17	1meg		R53	4.7meg		R89	100K 1W	
R18	68Ω		R54	100K		R90	1500Ω	
R19	10K		R55	680Ω		R91	100K	
R20	10K		R56	68Ω		R92	100K	
R21	390Ω		R57	2.2meg		R93	100K 1W	
R22	220Ω		R58	22meg		R94	1500Ω	
R23	470K		R59	270K		R95	22K	
R24	33K		R60	680K		R96	220K	
R25	47K		R61	6800Ω		R97	100K 1W	
R26	47K		R62	2200Ω		R98	680Ω	
R27	47K		R63	470K		R99	10K	
R28	220Ω		R64	4000Ω	7W	R100	220K	
R29	68Ω		R65	100K	IRC#P W10-4000Ω	R101	2200Ω	
R30	1000Ω		R66	3.3meg		R102	150K	
R31	220Ω		R67	470K		R103	1000Ω	
R32	1500Ω	1W	R68	100K		R104	2.2meg	
R33	22K	1W	R69	100K		R105	100K 1W	
R34	22K		R70	10meg		R106	1500Ω	
R35	330Ω		R71	100K		R107	270K	
R36	270Ω		R72	560K		R108	2200Ω	
R37	3900Ω		R73	47K		R109	150K	
R38	47K		R74	10meg		R110	150K	
R39	470K		R75	270K		R111	150K	
R40	100K		R76	2700Ω		R112	1000Ω	
R41	3.3meg		R77	82K		R113	100K	
R42	1meg	Note 1	R78	2.2meg		R114	100K	
R43	470K		R79	2.2meg		R115	10meg	
R44	100K		R80	10meg		R116	100K	
R45	1meg		R81	270K		R117	560K	
R46	10Ω		R82	2700Ω		R118	47K	
R47	68Ω		R83	1meg		R119	270K	
R48	1000Ω		R84	470K		R120	2700Ω	

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS (IRC or EQUIVALENT) (cont)

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R121	2.2meg		R143	22K		R165	56K 1W	IRC#PW10-15K IRC#PW5-2000Ω
R122	82K		R144	220K		R166	47K 1W	
R123	2.2meg		R145	100K 1W		R167	10K 1W	
R124	3.3meg		R146	680Ω		R168	3300Ω 1W	
R125	10meg		R147	10K		R169	22K 1W	
R126	270K		R148	220K		R170	15K 10W	
R127	2700Ω		R149	2200Ω		R171	2000Ω 4W	
R128	100K		R150	150K		R172	160Ω 2W	
R129	100K		R151	1000Ω		R173	82K	
R130	1meg		R152	100K 1W		R174	10K	
R131	470K		R153	1500Ω		R175	18Ω 1W	(33Ω) *
R132	3.9meg		R154	2.2meg		R176	18Ω 1W	
R133	10meg		R155	270K		R177	18Ω 1W	
R134	2.2meg		R156	2200Ω		R178	10Ω 2W	
R135	2.2meg		R157	150K		R179	3.3Ω 1W	
R136	100K 1W		R158	150K		R180	3.3Ω 1W	
R137	1500Ω		R159	150K		R181	100K	
R138	100K		R160	1000Ω		R182A	250Ω	
R139	1meg		R161	1800Ω		B	250Ω	
R140	100K		R162	18K		C	250Ω	
R141	100K 1W		R163	18K		R183	18Ω	Note 1
R142	1500Ω		R164	47K		R184	1meg	

Note 1. Not used in some versions.
* Alternate Value.

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				NOTES	
		H. H. SCOTT PART No.	Merit PART No.	Miller PART No.	Stancor PART No.		
L1	FM Ant. Trans.					.33uh	
L2	RF Choke			4586		1.2uh	
L3	Cathode Choke		BC-561	4602	RTC-8515	1uh	
L4	Fil. Choke		BC-561	4602	RTC-8515	1uh	
L5	RF Choke		BC-561	4602	RTC-8515		
L6	FM RF Coil						
L7	FM Osc. Coil						
L8	Fil. Choke		BC-561	4602	RTC-8515	1uh	
L9	Fil. Choke		BC-561	4602	RTC-8515	1uh	
L10	1st FM IF Trans.		FM-254	1463	RTC-8599		
L11	2nd FM IF Trans.		FM-254	1463	RTC-8599		
L12	3rd FM IF Trans.		FM-254	1463	RTC-8599		
L13	Fil. Choke		BC-561	4602	RTC-8515	1uh	
L14	Ratio Detector		FM-255	1465	RTC-8600		
L15	Loopstick		BC-419	705-A			
L16	AM Ant. Trans.		BC-386 *		RTC-8731 *	* Drill Mounting Hole	
L17	AM RF Trans.		BC-388 *		RTC-8732 *		
L18	AM Osc. Coil		BC-394	70-OSC	RTC-8647		
L19	1st AM IF Trans.						
L20	2nd AM IF Trans.						
L21	3rd AM IF Trans.		BC-353	12-C2	RTC-8633		
L22	455KC IF Trap Coil						
L23	10KC Filter Coil						
L24	Fil. Choke		BC-561	4602	RTC-8515		1uh

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	H. H. SCOTT PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T1	117V @ 1.5A	680VCT @.160A	350VCT @.070A	TR-12-9					
		SEC. 3	SEC. 4	SEC. 5					
	5V @ 1.9A	6.3V @ 3.9A	6.3V @ 4.7A						
	SEC. 6								
	50V @ .240A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	H. H. SCOTT PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
T2	6500Ω CT	16Ω Tap @ 8Ω, 4Ω	TRA-8-4					
T3	6500Ω CT	16Ω Tap @ 8Ω, 4Ω	TRA-8-4					

POWER RECTIFIERS

ITEM No.	RATING	REPLACEMENT DATA				NOTES
		H. H. SCOTT PART No.	RCA PART No.	SARKES TARZIAN PART No.	SYLVANIA PART No.	
M1	.150A	*				* Selenium Type

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			H. H. SCOTT PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M2	3AG	2½A 125V S/B			31302.5 (3AG 2½A 125V S/B)	342001	MDL 2½	HKP

SIGNAL DIODES

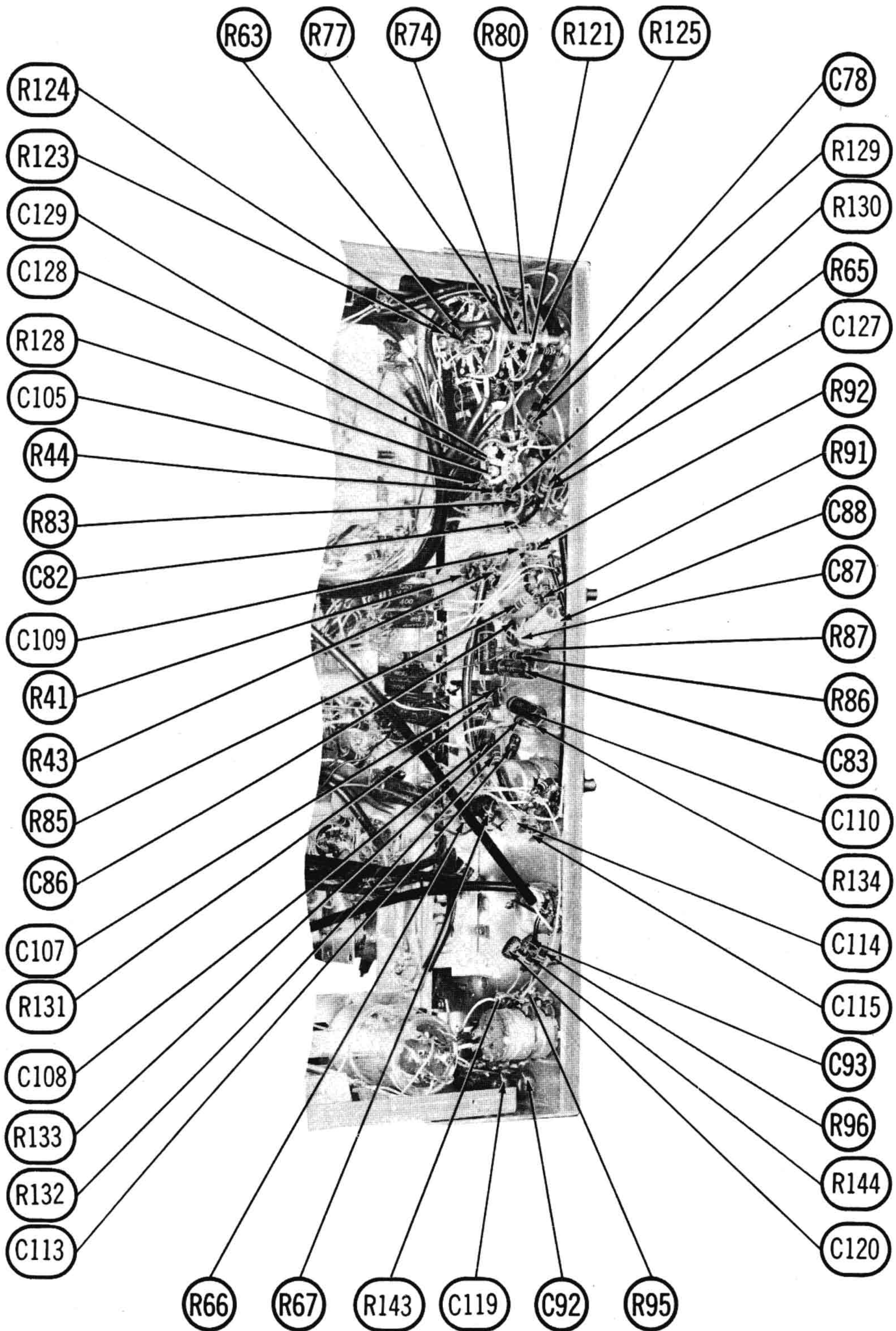
ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		H. H. SCOTT PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M3	1N294			1N294	1N294	FM Detector (Pigtail)
M4	1N294			1N294	1N294	FM Detector (Pigtail)

MISCELLANEOUS

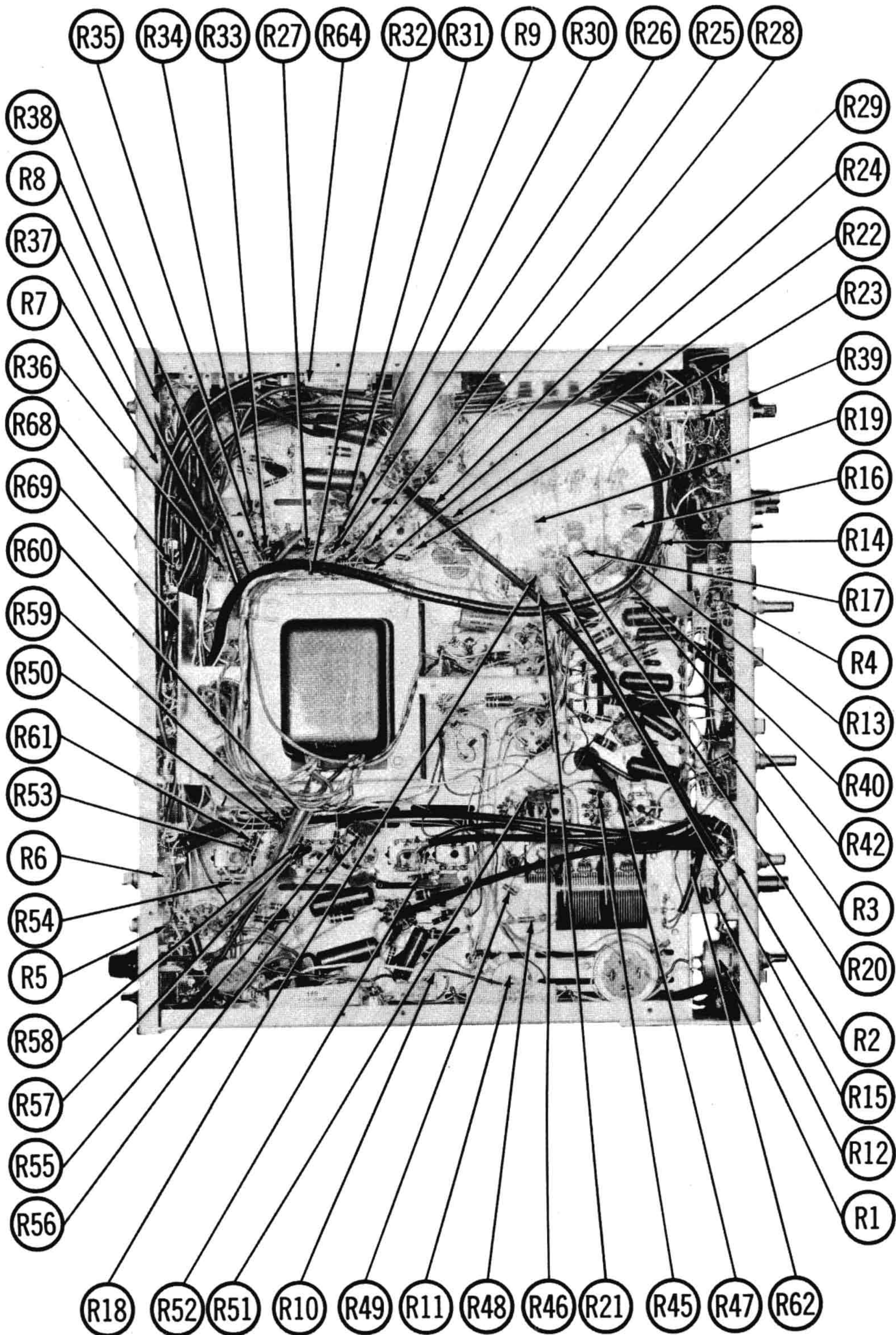
ITEM No.	PART NAME	H. H. SCOTT PART No.	NOTES
M5	Tuning Cap.		FM, 3 Gang
M6	Tuning Cap.		AM, 3 Gang (Ant. 23-385mmf, RF 19-380mmf, Osc. 35-235mmf)
M7	Switch		Input Selector (Rotary Wafer Type)
M8	Switch		Stereo Selector (Rotary Wafer Type)
M9	Switch		Equalization (DPDT Slide Type)
M10	Switch		AM Selectivity (DPDT Slide Type)
M11	Switch		Tape Monitor (DPDT Slide Type)
M12	Switch		Pickup (DPDT Slide Type)
M13	Switch		Scratch Filter (DPDT Slide Type)
M14	Switch		Rumble Filter (DPDT Slide Type)
M15	Switch		Loudness, Volume (DPDT Slide Type)
M16	Switch		Phase (DPDT Slide Type)

WIRING DATA

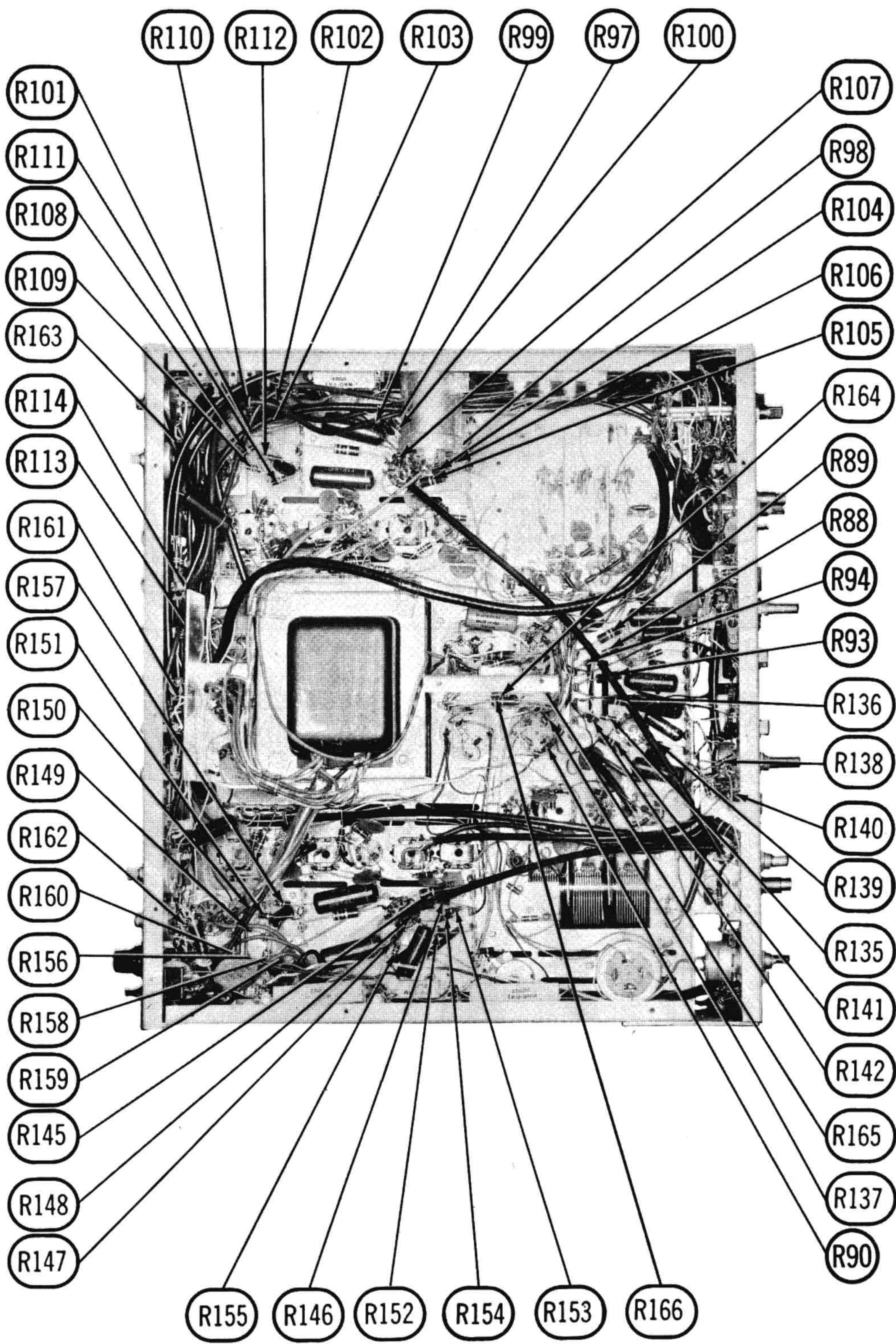
General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
8524 (Stranded) Available in Ten Colors
Power Cord Use BELDEN No. 1765-B (6 Ft. Length)
1725-K (7½ Ft. Length)



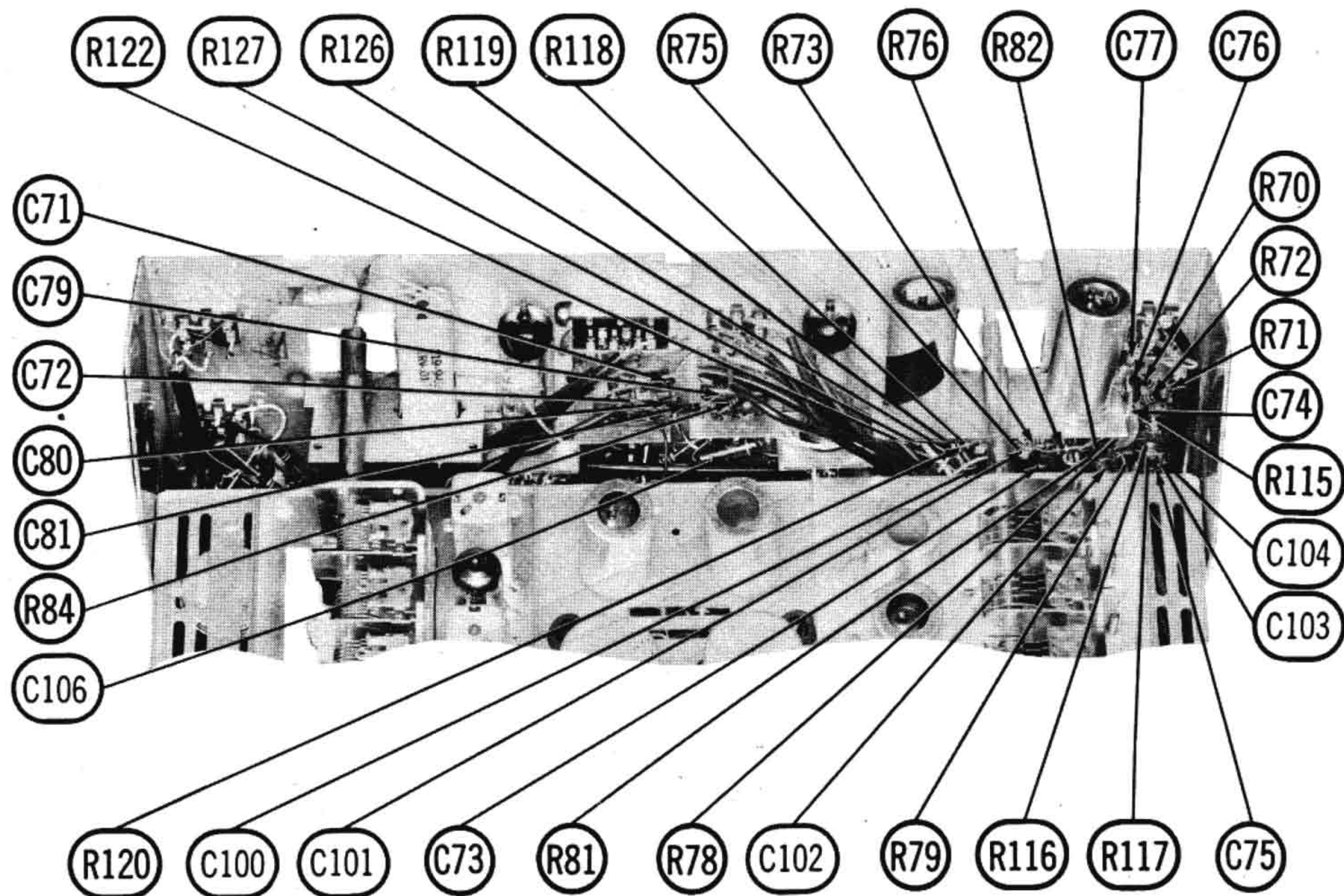
CONTROL PANEL-BOTTOM REAR VIEW



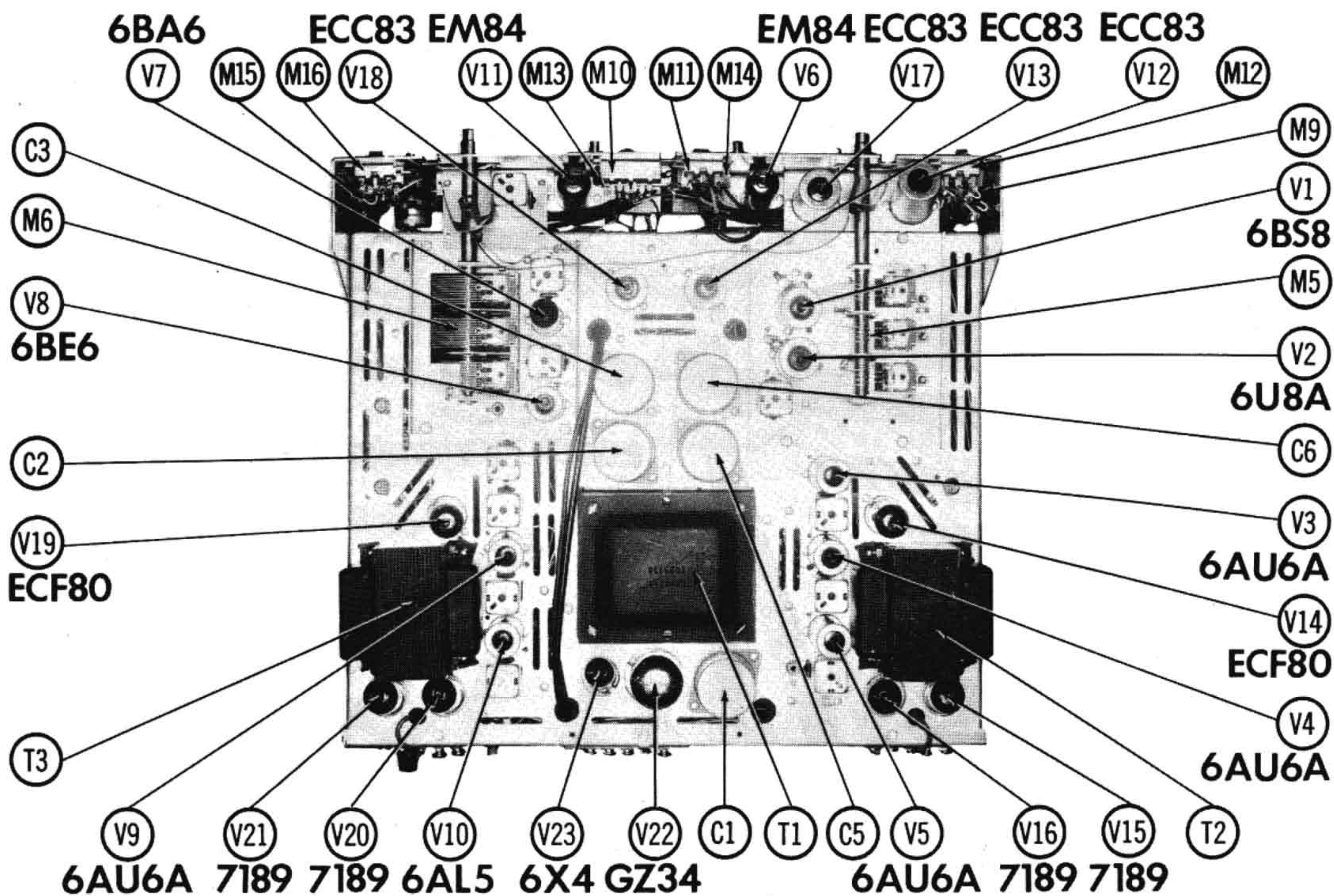
CHASSIS-BOTTOM VIEW-RESISTOR IDENTIFICATION



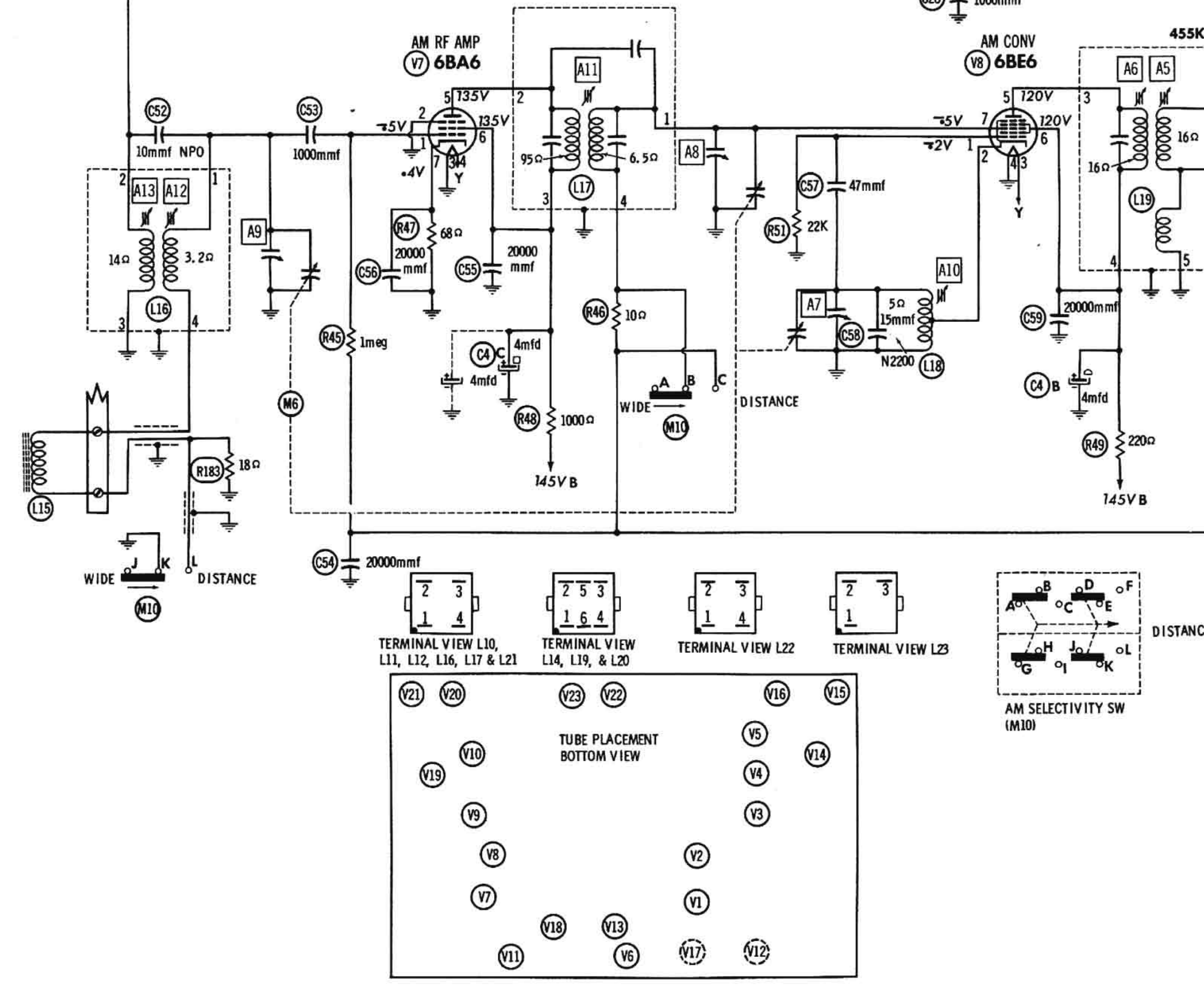
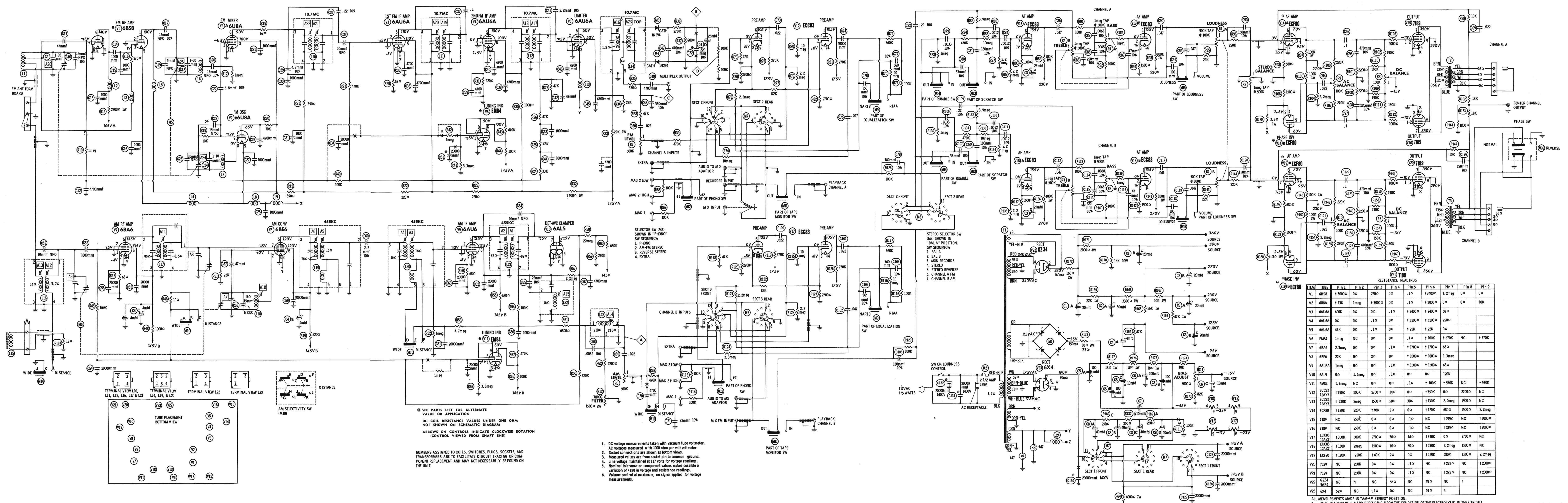
CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION



CONTROL PANEL-TOP REAR VIEW



CHASSIS-TOP VIEW



SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
 ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

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.

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of 15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6B5B	+3000Ω	0Ω	270Ω	0Ω	.1Ω	+3400Ω	1.2meg	0Ω	0Ω
V2	6U8A	+13K	1meg	+3000Ω	0Ω	.1Ω	+3000Ω	0Ω	0Ω	10K
V3	6AU6A	600K	0Ω	0Ω	.1Ω	+2400Ω	+2400Ω	68Ω	0Ω	0Ω
V4	6AU6A	0Ω	0Ω	.1Ω	0Ω	+3200Ω	+3200Ω	220Ω	0Ω	0Ω
V5	6AU6A	47K	0Ω	.1Ω	0Ω	+22K	+22K	0Ω	0Ω	0Ω
V6	EM84	1meg	NC	0Ω	0Ω	.1Ω	+100K	+570K	NC	+570K
V7	6B6A	2.3meg	0Ω	0Ω	.1Ω	+1700Ω	+1700Ω	68Ω	0Ω	0Ω
V8	6BE6	22K	0Ω	2Ω	0Ω	+1000Ω	+1000Ω	1.3meg	0Ω	0Ω
V9	6AU6A	1meg	0Ω	0Ω	.1Ω	+1500Ω	+1500Ω	68Ω	0Ω	0Ω
V10	6AL5	0Ω	1.5meg	0Ω	.1Ω	0Ω	0Ω	120K	0Ω	0Ω
V11	EM84	1.3meg	NC	0Ω	0Ω	.1Ω	+100K	+570K	NC	+570K
V12	ECC83 12AX7	130K	500K	2700Ω	14Ω	0Ω	+130K	0Ω	2700Ω	NC
V13	ECC83 12AX7	130K	2meg	1500Ω	50Ω	30Ω	+130K	2.2meg	1500Ω	NC
V14	EFC80	1120K	220K	140K	2Ω	0Ω	+120K	680Ω	1500Ω	2.2meg
V15	7189	NC	250K	0Ω	0Ω	.1Ω	NC	1.25Ω	NC	+2000Ω
V16	7189	NC	250K	0Ω	0Ω	.1Ω	NC	1.25Ω	NC	+2000Ω
V17	ECC83 12AX7	130K	500K	2700Ω	30Ω	14Ω	+130K	0Ω	2700Ω	NC
V18	ECC83 12AX7	130K	2meg	1500Ω	70Ω	30Ω	+130K	2.2meg	1500Ω	NC
V19	EFC80	1120K	220K	140K	2Ω	0Ω	+120K	680Ω	1500Ω	2.2meg
V20	7189	NC	250K	0Ω	0Ω	.1Ω	NC	1.25Ω	NC	+2000Ω
V21	7189	NC	250K	0Ω	0Ω	.1Ω	NC	1.25Ω	NC	+2000Ω
V22	G234 5AR4	NC	1	NC	55Ω	NC	55Ω	NC	1	0Ω
V23	6X4	52Ω	NC	.1Ω	0Ω	NC	51Ω	1	0Ω	0Ω

ALL MEASUREMENTS MADE IN "AM-FM STEREO" POSITION.
 † THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 ‡ MEASURED FROM PIN 8 OF V22.
 †† MEASURED FROM PIN 7 OF V22.