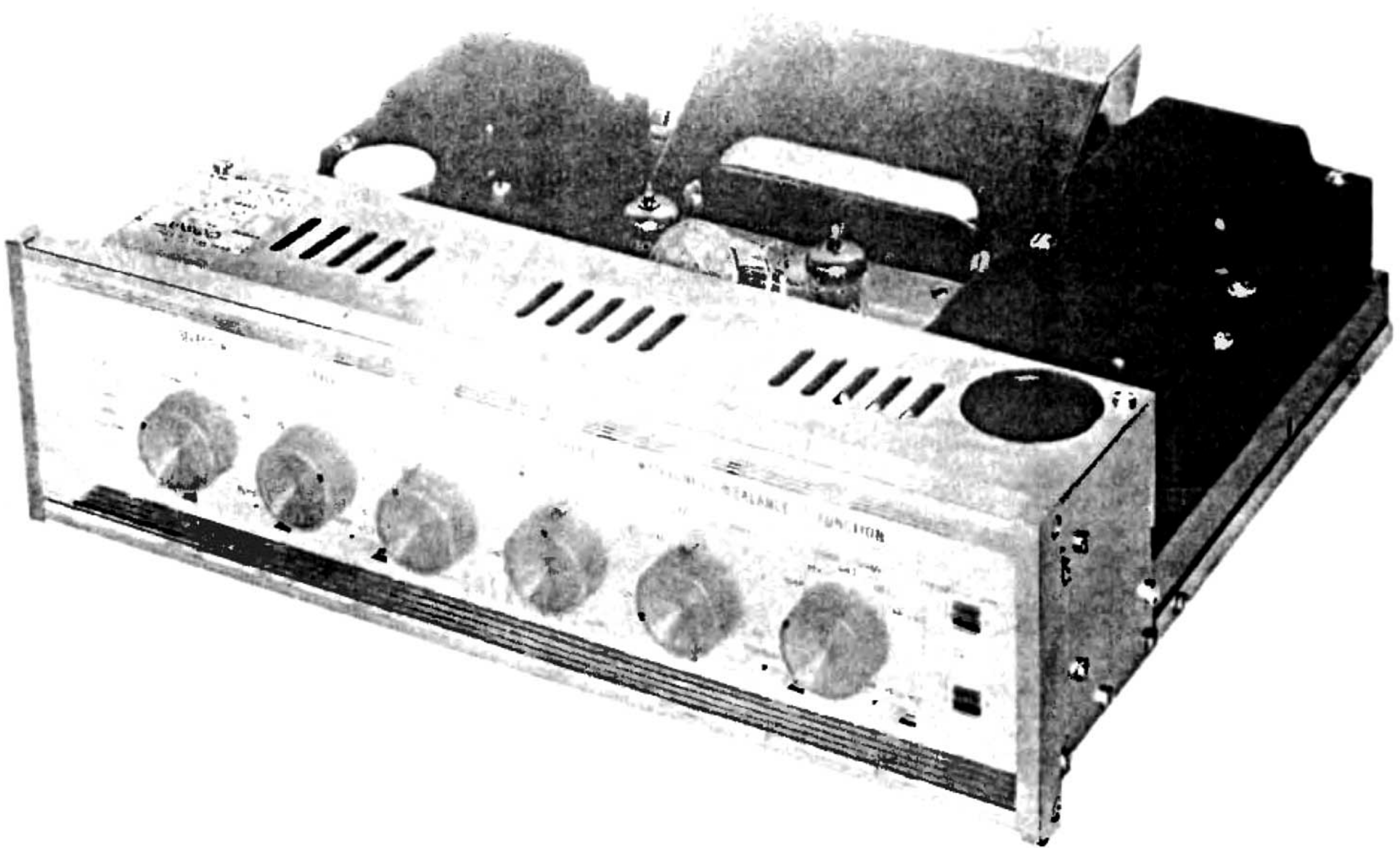
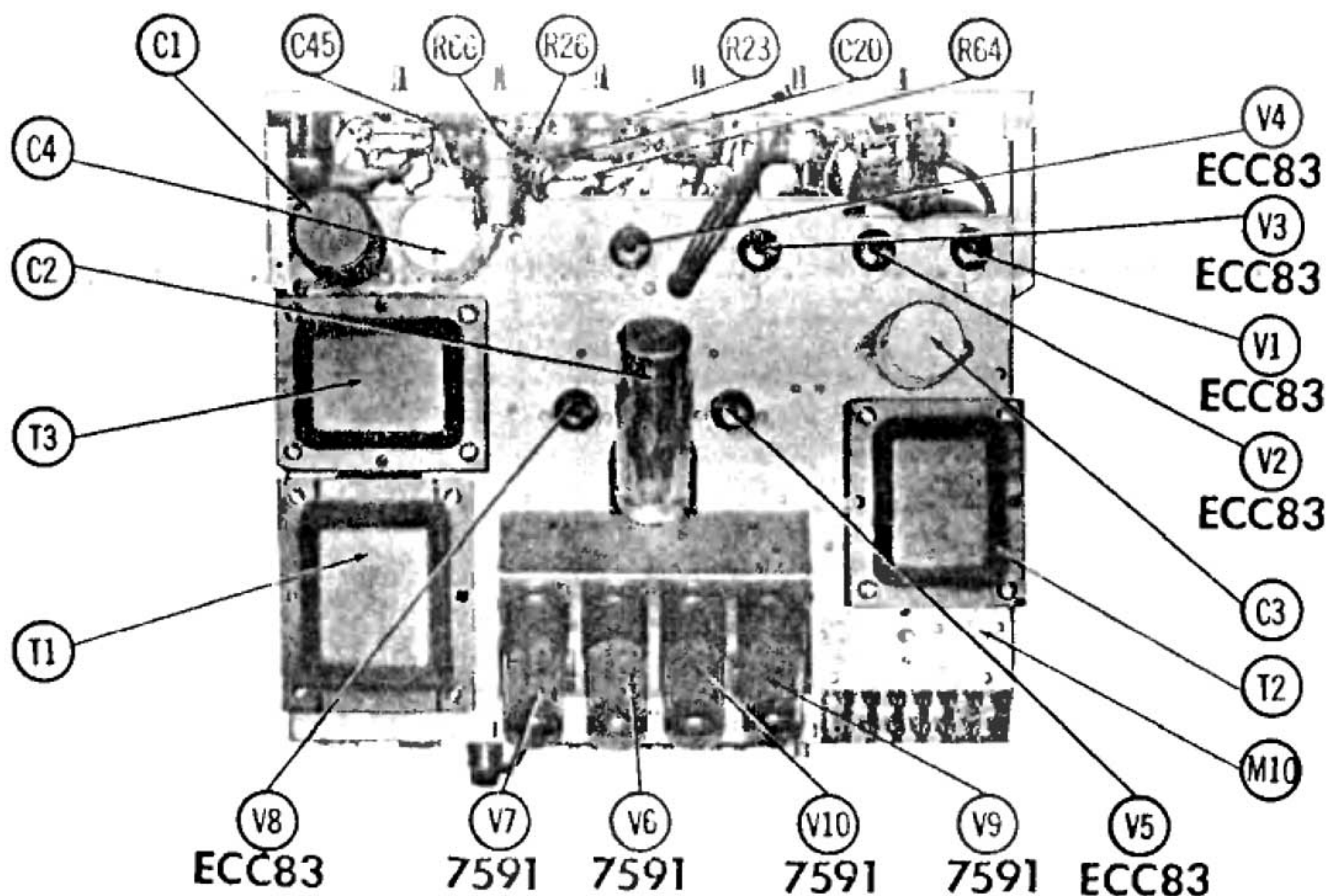
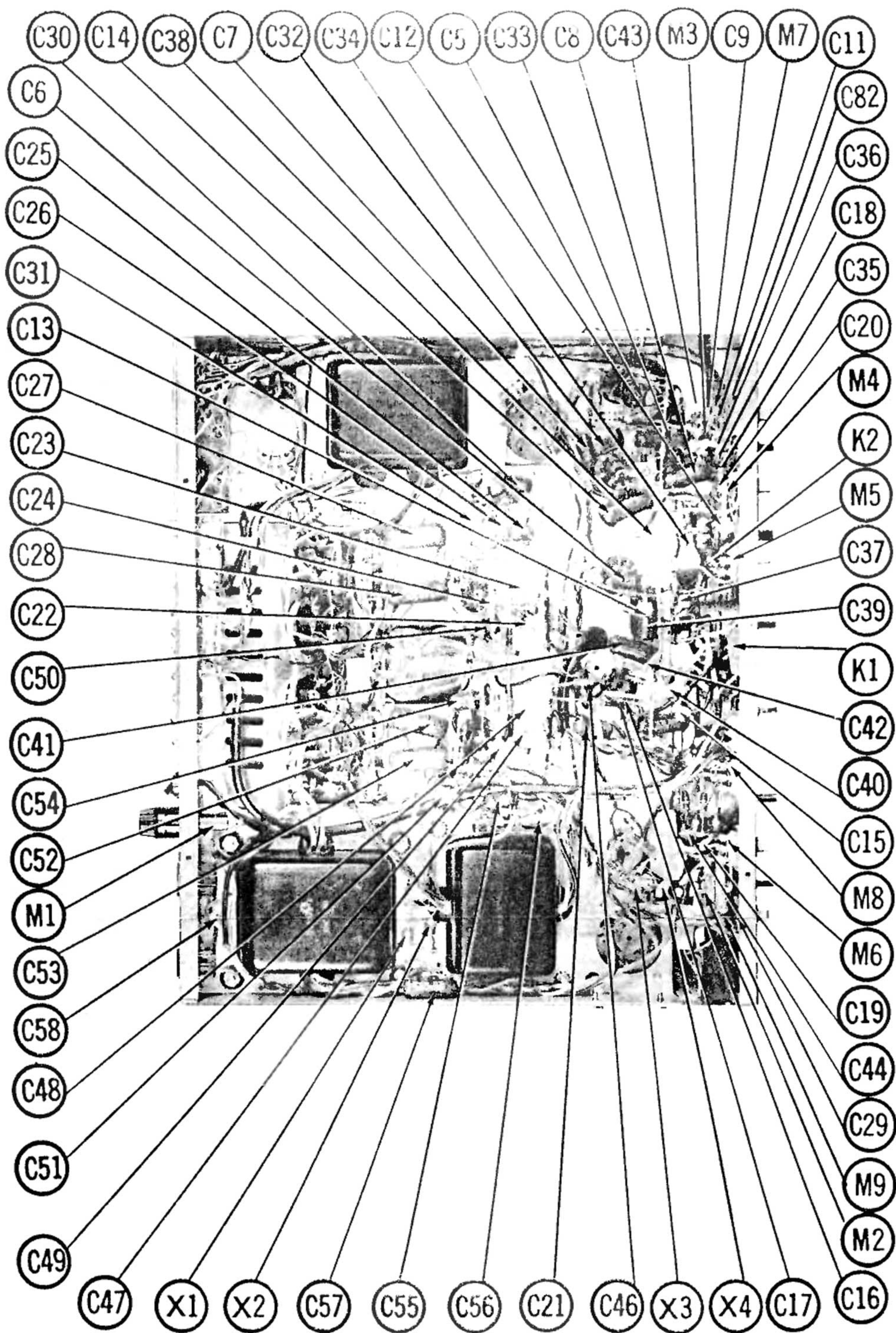


SHERWOOD MODEL S-5000II

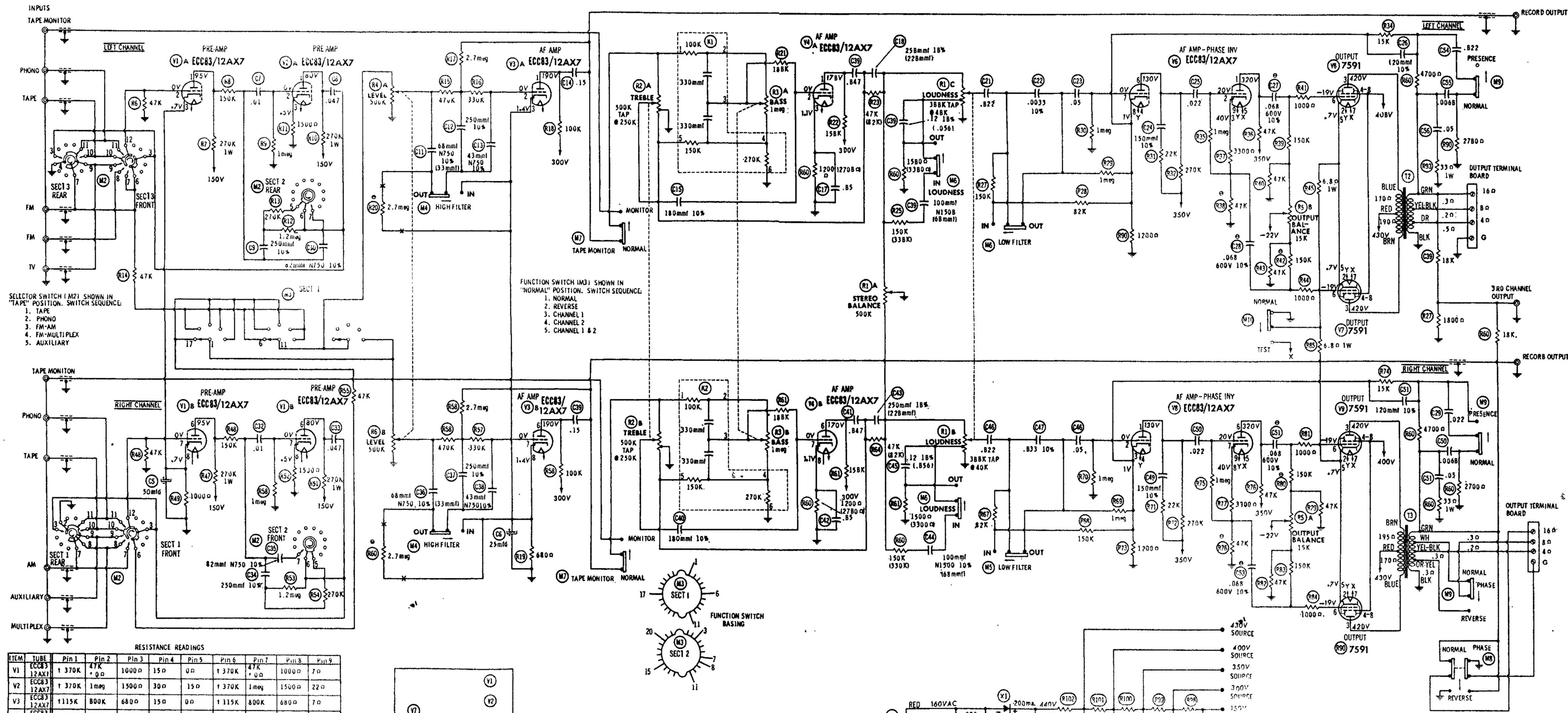


TRADE NAME	Sherwood Model S-5000 II		
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 4300 N. California Ave., Chicago 18, Illinois		
TYPE SET	AC Operated 10 Tube Stereo Amplifier		
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles	RATING	145 Watts, 1.5 Amp. @117 Volts AC





CHASSIS BOTTOM VIEW — CAPACITOR & MISC. IDENT.



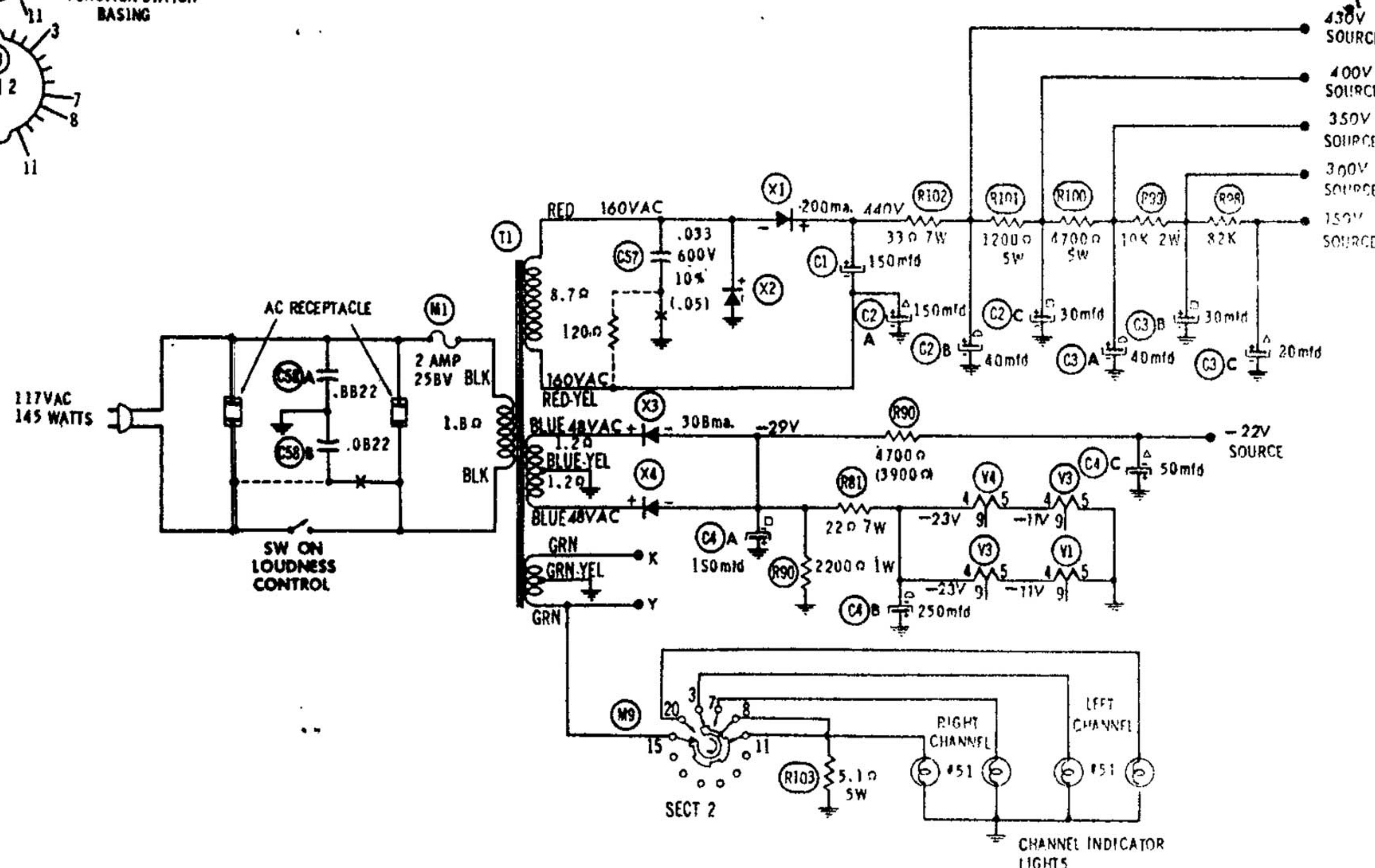
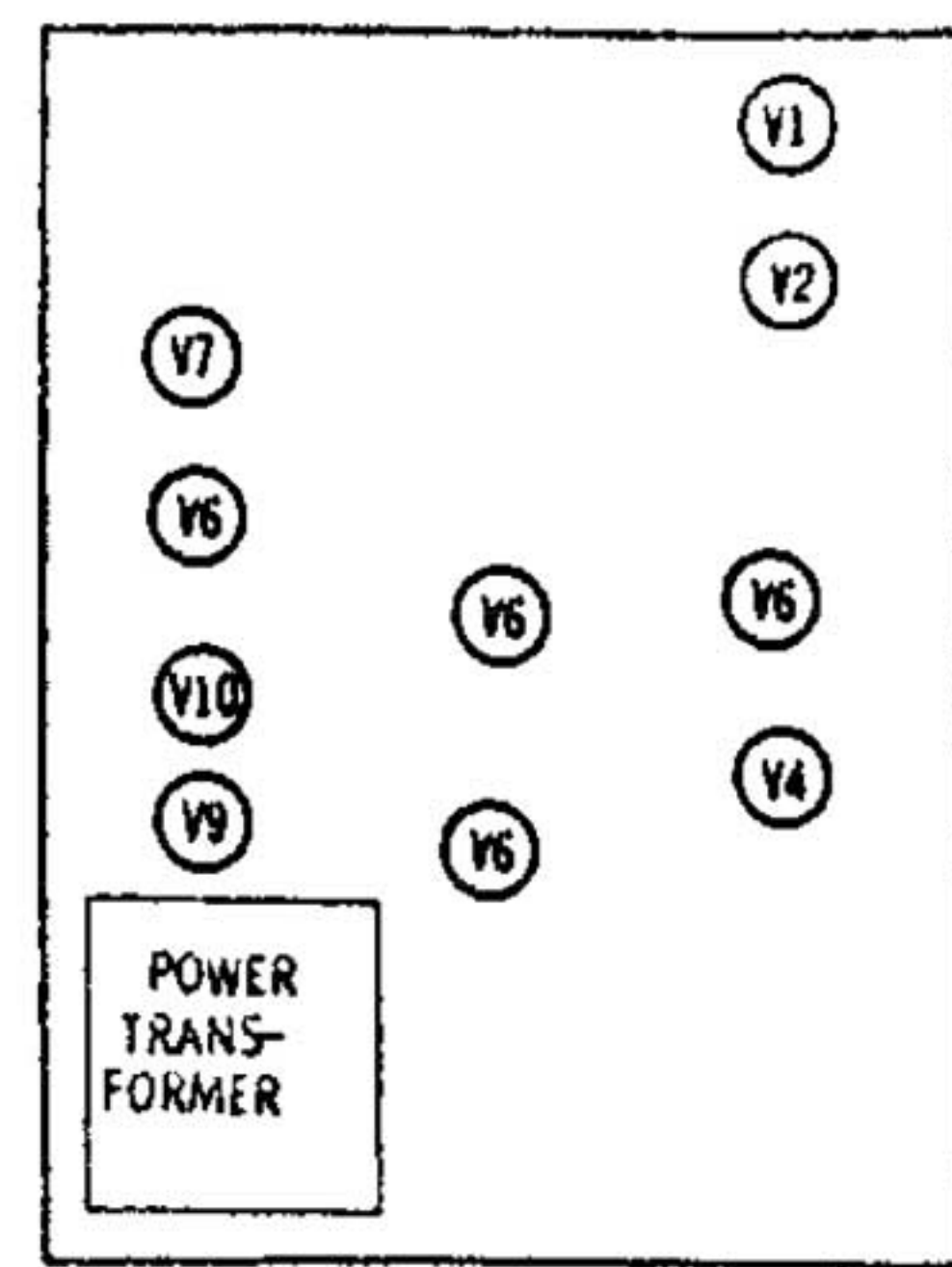
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	ECC83/12AX7	1 370K	47K	1000Ω	15Ω	0Ω	1 370K	47K	1000Ω	7Ω
V2	ECC83/12AX7	1 370K	1meg	1500Ω	30Ω	15Ω	1 370K	1meg	1500Ω	22Ω
V3	ECC83/12AX7	1 115K	800K	68Ω	15Ω	0Ω	1 115K	800K	68Ω	7Ω
V4	ECC83/12AX7	1 165K	300K	1200Ω	30Ω	15Ω	1 165K	300K	1200Ω	22Ω
V5	ECC83/12AX7	1 53K	1meg	50K	FIL	FIL	1 275K	1meg	1200Ω	FIL
V6	7591	NC	FIL	1 200Ω	1 200Ω	6.8Ω	160K	FIL	1 1200Ω	
V7	7591	NC	FIL	1 200Ω	1 200Ω	6.8Ω	160K	FIL	1 1200Ω	
V8	ECC83/12AX7	1 275K	1meg	1200Ω	FIL	FIL	1 53K	1meg	50K	FIL
V9	7591	NC	FIL	1 225Ω	1 1200Ω	6.8Ω	160K	FIL	1 1200Ω	
V10	7591	NC	FIL	1 200Ω	1 1200Ω	6.8Ω	160K	FIL	1 1200Ω	

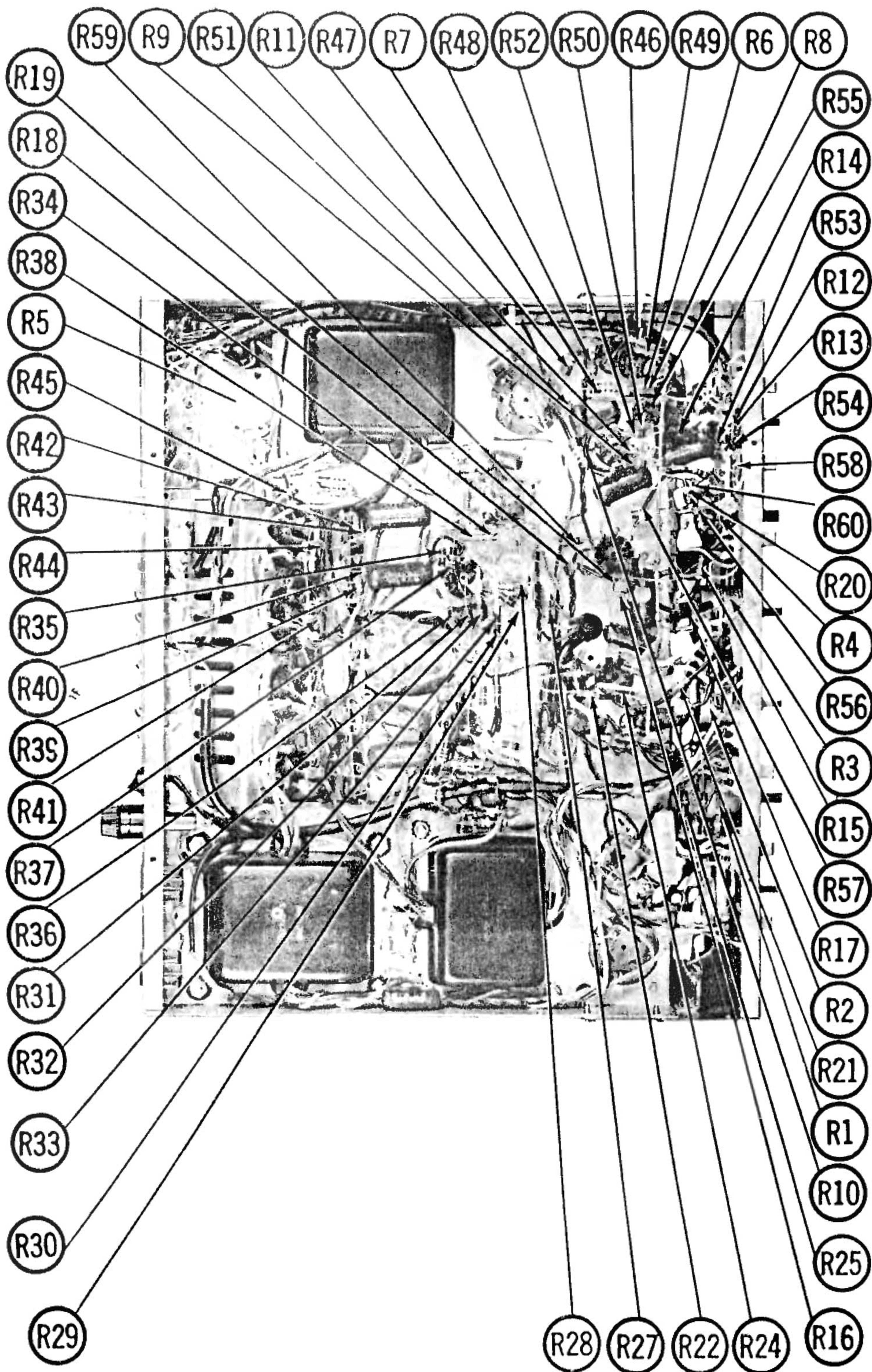
ALL MEASUREMENTS MADE IN TAPE POSITION UNLESS OTHERWISE DESIGNATED.
 * MEASURED IN FM-AM, FM-MPX, OR AUX. POSITION
 † MEASURED FROM OUTPUT OF X1.
 NC NO CONNECTION

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.

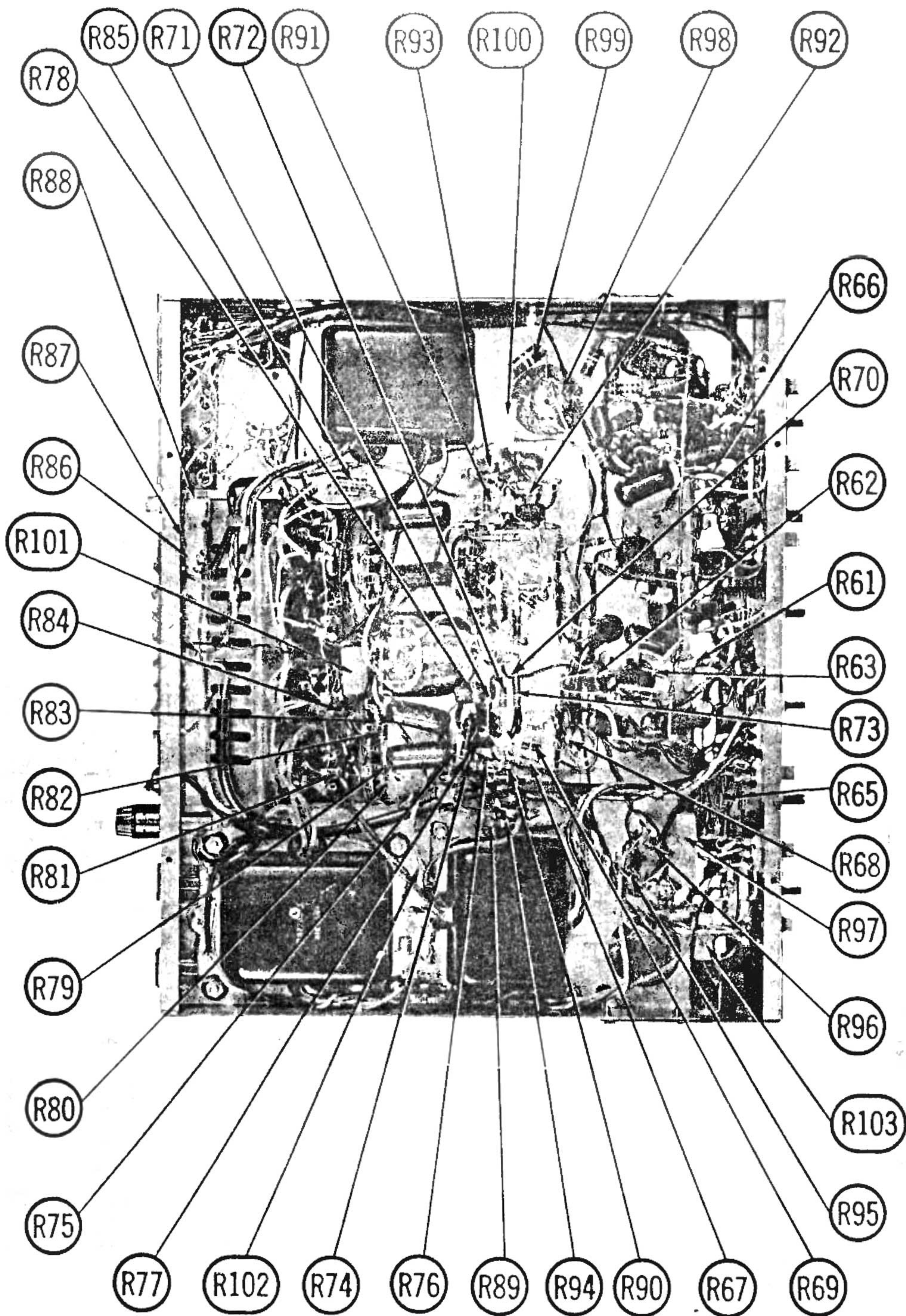
● SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
2. Socket connections are shown as bottom views.
3. Measured 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.





CHASSIS BOTTOM VIEW — RESISTOR IDENT. (R1-R60)



CHASSIS BOTTOM VIEW — RESISTOR IDENT. (R61-R103)

TUBES

AMPEREX			GENERAL ELECTRIC			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Left Channel Preamp. - Right Channel Preamp.	ECC92/12AX7	V5	Left Channel AF Amp. - Phase Inverter	ECC83/12AX7						
V2	Left Channel Preamp. - Right Channel Preamp.	ECC82/12AX7	V6	Left Channel Output	7591						
V3	Left Channel AF Amp. - Right Channel AF Amp.	ECC83/12AX7	V7	Left Channel Output	7591						
V4	Left Channel AF Amp. - Right Channel AF Amp.	ECC83/12AX7	V8	Right Channel AF Amp. - Phase Inverter	ECC83/12AX7						
			V9	Right Channel Output	7591						
			V10	Right Channel Output	7591						

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	CURRENT RATING (Measured)	ORIGINAL Part or Type No.	RECTIFIERS		DIODES		NOTES
			RCA PART No.	SARKES TARZIAN PART No.	GENERAL ELECTRIC PART No.	RAYTHEON PART No.	
X1	.200A		1N1783	F6			
X2	.200A		1N1783	F6			
X3	.300A		1N1783	F6			
X4	.300A		1N1763	F6			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CORNEILL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.
C1	.150	250	A120J4-1				FP176 TC1265 FP288 TC692		
C2A	.150	250	A120J3	AFH2-71-90 PRS1595					
B	.40	500							
C	.30	450							
C3A	.40	400	A120J5-6	AFH2-54 PRS1570			FP282.5 TC78		PCL3672.5
B	.30	350							
C	.20	250							
C4A	.150	50	120AB6-10						
B	.250	50							
C	.50	50							
C5	50	3		PTT12	NLW50-3	MT1-15	TT6X50	MLV50-3	TE-1058
C6	25	3		PTT9	NLW25-3	MT1-10	TT3X25	MLV25-3	TE-1065

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C7	.01 400V		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C8	.047 400V		P488N-047	DF-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C9	250 10%		DI-250	DD-251	LI0T25	CCD-251	GP325	10TS-T25
C10	83 N750 10%				C10Q82U	CCTN-820	CN7-482	10TCU-Q82
C11	68 N750 10%	(33) †	N750-DI 68	DTN-66	C10Q68U	CCTN-680	CN7-466	10TCU-Q68
C12	250 10%		DI-250	DD-251	LI0T25	CCD-251	GP325	10TS-T25
C13	43 N750 10%				C10Q42U			
C14	.15 200V		P288N-15		CUB4P15	2DP-2-154	GEM-2015	2TM-P15
C15	180 10%		DI-180	DD-181	LI0T18	CCD-181	GP318	10TS-T16
C16	.047 400V		P488N-047	DF-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C17	.05		BPD-05	DD-503			GP150	5HK-S50
C18	250 10%	(220) †	DI-250	DD-251	LI0T25	CCD-251	GP325	10TS-T25
C19	100 N1500 10%	(68) †		TCL-100				

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.
C20	.12 100V 10%	(.056) †	P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C21	.022 400V		DI-3300			CCD-332		10TS-D33
C22	.0033 10%		BPD-05	DD-503			GP150	5HK-S50
C23	.05		DI-150	DD-151	LI0T15	CCD-151	GP315	10TS-T15
C24	150 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C25	.022 400V		DI-120	DD-121	LI0T12	CCD-121	GP312	10TS-T12
C26	120 10%		V84C6S68		PM6S68	6DP-4-683		6TM-S68
C27	.068 600V 10%	Note 1	V84C6S68		PM6S68	6DP-4-683		6TM-S68
C28	.068 600V 10%	Note 1	P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C29	.022 400V		P488N-0068	D6-682	CUB6D68	6DP-1-682	GEM-6268	6TM-D68
C30	.0068 400V		BPD-05	DD-503			GP150	5HK-S50
C31	.05		P488N-01	D6-103	CUB4S1	4DP-1-103	GEM-411	4TM-S10
C32	.01 400V		P488N-047	DF-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C33	.047 400V		DI-250	DD-251	LI0T25	CCD-251	GP325	10TS-T25
C34	250 10%				C10Q82U	CCTN-820	CN7-482	10TCU-Q82
C35	82 N750 10%				C10Q68U	CCTN-680	CN7-468	10TCU-Q68
C36	68 N750 10%	(33) †	N750-DI 68	DTN-68	LI0T25	CCD-251	GP325	10TS-T25
C37	250 10%		DI-250	DD-251	C10Q43U			
C38	43 N750 10%		P288N-15		CUB4P15	2DP-3-154	GEM-2015	2TM-P15
C39	.15 200V		DI-180	DD-181	LI0T18	CCD-181	GP318	10TS-T18
C40	180 10%		P488N-047	DF-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47
C41	.047 400V		BPD-05	DD-503			GP150	5HK-S50
C42	.05		DI-250	DD-251	LI0T25	CCD-251	GP325	10TS-T25
C43	250 10%	(220) †				*		
C44	100 N1500 10%	(68) †		TCL-100				
C45	.12 100V 10%	(.056) †	P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C46	.022 400V		DI-3300			CCD-332		10TS-D33
C47	.0033 10%		BPD-05	DD-503			GP150	5HK-S50
C48	.05		DI-150	DD-151	LI0T15	CCD-151	GP315	10TS-T15
C49	150 10%		P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C50	.022 400V		DI-120	DD-121	LI0T12	CCD-121	GP312	10TS-T12
C51	120 10%		V84C6S68		PM6S68	6DP-4-683		6TM-S68
C52	.068 600V 10%	Note 1	V84C6S68		PM6S68	6DP-4-683		6TM-S68
C53	.066 600V 10%	Note 1	P488N-022	DD-203	CUB4S22	4DP-2-223	GEM-4122	4TM-S22
C54	.022 400V		P488N-0068	D6-682	CUB6D68	6DP-1-682	GEM-6268	6TM-D68
C55	.0068 400V		BPD-05	DD-503			GP150	5HK-S50
C56	.05		V84C6S33		PM6S33	8DP-3-333		6TM-S33
C57	.033 600V 10%	(.05) †						
C58A	.0022		BPD2X0022	DD3-202	BYC6DD22	CCD-222	B2X220	5HK-2D22
B	.0022					CCD-222		

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

† Alternate Value.

Note 1. Units are matched within 3%.

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			SHERWOOD PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS - IRC PART No.	MALLORY PART No.
RIA	Balance (Stereo)	500K	A670J13-3				
B	Loudness, Right Ch.	300K					
		40K Tap					
C	Loudness, Left Ch.	300K					
		40K Tap					
R2A	Treble, Left Ch.	500K	A670J2	F3-42, R4-42, AK-32			
		250K Tap					
B	Treble, Right Channel	500K					
		250K Tap					
R3A	Bass, Left Channel	1meg	A670J3	F1-51, R2-51, AK-32			
B	Bass, Right Channel	1meg					
R4A	Level, Left Channel	500K	A670J14-1	B-60, SR-60	AD47-500K-Z/ FS-3		FB55A, RU55A, CS3500
B	Level, Right Channel	500K					
R5A	Tube Balance, Right Channel	15K	A670J6				
B	Tube Balance, Left Channel	15K					

RESISTORS

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

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R6	47K				R55	47K			
R7	270K 1W				R56	470K			
R8	150K				R57	330K			
R9	1meg				R58	2.7meg			
R10	270K 1W				R59	100K			
R11	1500Ω				R60	2.7meg			
R12	1.2meg				R61	180K			
R13	270K				R62	150K			
R14	47K				R63	1200Ω			(2700Ω)*
R15	470K				R64	47K			(82K)*
R16	330K				R65	150K			(330K)*
R17	2.7meg				R66	1500Ω			(3300Ω)*
R18	100K				R67	82K			
R19	680Ω				R68	150K			
R20	2.7meg				R69	1meg			
R21	180K				R70	1meg			
R22	150K				R71	22K			
R23	47K			(82K)*	R72	270K			
R24	1200Ω			(2700Ω)*	R73	1200Ω			
R25	150K			(330K)*	R74	15K			
R26	1500Ω			(3300Ω)*	R75	1meg			
R27	150K				R76	47K			
R28	82K				R77	3300Ω			
R29	1meg				R78	47K			Note 1
R30	1meg				R79	47K			
R31	22K				R80	150K			Note 1
R32	270K				R81	1000Ω			
R33	1200Ω				R82	47K			
R34	15K				R83	150K			
R35	1meg				R84	1000Ω			
R36	47K				R85	8.8Ω 1W			
R37	3300Ω				R86	18K			
R38	47K			Note 1	R87	1800Ω			
R39	150K				R88	18K			
R40	47K				R89	4700Ω			
R41	1000Ω				R90	2700Ω			
R42	150K			Note 1	R91	4700Ω			
R43	47K				R92	2700Ω			
R44	1000Ω				R93	33Ω 1W			
R45	8.8Ω 1W				R94	33Ω 1W			
R46	47K				R95	4700Ω			(3900Ω)*
R47	270K 1W				R96	2200Ω 1W			
R48	150K				R97	22Ω 7W	PW7-22	7W-SQ-22	
R49	1000Ω				R98	82K			
R50	1meg				R99	10K 2W			
R51	270K 1W				R100	4700Ω 5W	PW5-4700	5W-SQ-4700	
R52	1500Ω				R101	1200Ω 5W	PW5-1200	5W-SQ-1200	
R53	1.2meg				R102	33Ω 7W	PW7-33	7W-SQ-33	
R54	270K				R103	5.1Ω 5W	PW5-5.1	5W-SQ-5.1	

* Alternate Value.

Note 1. Units are matched within 3%.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
				SHERWOOD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triod PART No.	
	PRI.	SEC. 1	SEC. 2						
T1	117V② 1.5A	160V② .700A AC	480VCT ②.300A DC	B922J5-3					
	SEC. 3	SEC. 4	SEC. 5						
	6.3VCT ② 4A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			SHERWOOD PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	Triad PART No.	
	PRI.	SEC.						
T2	6500Ω CT	16Ω Tap @ 8Ω, 4Ω	B920J5-0					
T3	6500Ω CT	16Ω Tap @ 8Ω, 4Ω	B920J6-0					

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SHERWOOD PART No.	REPLACEMENT DATA
K1	Tone Compensation	330mmf, 330mmf, 100K, 150K, 270K	A680B2	Sprague TC-27
K2	Tone Compensation	330mmf, 330mmf, 100K, 150K, 270K	A680B2	Sprague TC-27

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			SHERWOOD PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1	3AG	2A 250V			313002 (3AG 2A 250V)	342001	MDL 2	BNJ

MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Switch		Function Selector (Rotary Wafer Type)
M3	Switch		Mode (Rotary Wafer Type)
M4	Switch		Hi Filter (DPDT Slide Type)
M5	Switch		Lo Filter (DPDT Slide Type)
M6	Switch		Loudness (DPDT Slide Type)
M7	Switch		Tape Monitor (DPDT Slide Type)
M8	Switch		Normal-Reverse (Phase) (DPDT Slide Type)
M9	Switch		Presence (DPDT Slide Type)

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. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421
Phono Pick-up Arm Cable	Use BELDEN No. 8430 (Two Conductor-Unshielded) 8429 (Two Conductor-Shielded) 8419 (Three Conductor-Shielded)