



STROMBERG-CARLSON  
MODEL ASR-333



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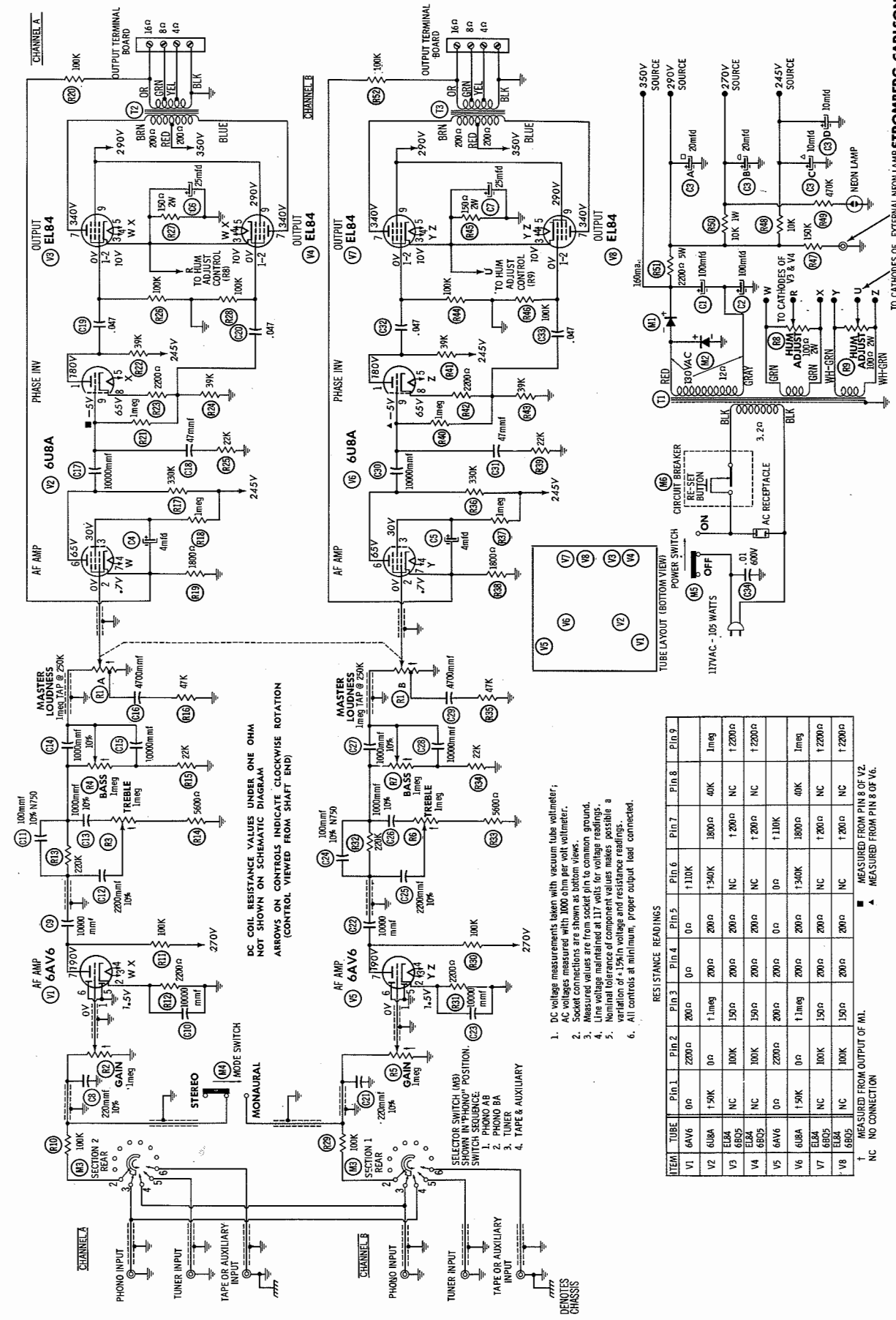
TRADE NAME	Stromberg-Carlson Model ASR-333		
MANUFACTURER	Stromberg-Carlson Co., A Div. of General Dynamics Corp., Commercial Products Div., 1400 N. Goodman Street, Rochester 9, N. Y.		
TYPE SET	AC Operated 8 Tube Stereo Amplifier		
POWER SUPPLY	110 - 120 Volts AC, 60 Cycles	RATING	105 Watts, 1.1 Amp. @117 Volts AC

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

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DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM (CONTROL VIEWED FROM SHAFT END)

ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION

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

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6AV6	0Ω	200Ω	200Ω	0Ω	1.10K	1.80K	40K	1MΩ	
V2	6UBA	1.5K	0Ω	1.1M	200Ω	1.34K	1800Ω	40K	1.200Ω	
V3	6E05	NC	100K	150Ω	200Ω	NC	1.200Ω	NC	1.200Ω	
V4	6E05	NC	100K	150Ω	200Ω	NC	1.200Ω	NC	1.200Ω	
V5	6AV6	0Ω	200Ω	200Ω	0Ω	1.10K	1.800Ω	40K	1MΩ	
V6	6UBA	1.5K	0Ω	1.1M	200Ω	1.34K	1800Ω	40K	1.200Ω	
V7	6E05	NC	100K	150Ω	200Ω	NC	1.200Ω	NC	1.200Ω	
V8	6E05	NC	100K	150Ω	200Ω	NC	1.200Ω	NC	1.200Ω	

↑ MEASURED FROM OUTPUT OF M.L.  
 NC NO CONNECTION  
 ■ MEASURED FROM PIN 8 OF V2  
 ▲ MEASURED FROM PIN 8 OF V6.

PHOTOFACT STANDARD NOTATION SCHEMATIC  
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MODEL ASR-333  
 STROMBERG-CARLSON

## PARTS LIST AND DESCRIPTIONS (Continued)

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

ITEM No.	RATING	REMARKS	RATING		REMARKS	ITEM No.	RATING	REMARKS
			SEC. 1	SEC. 2				
R10	100K					R40	Inreg	
R11	100K					R41	39K	
R12	2200Ω					R42	2200Ω	
R13	220K					R43	39K	
R14	5600Ω					R44	100K	
R15	22K					R45	1500 2W	
R16	47K					R46	100K	
R17	330K					R47	150K	
R18	Inreg					R48	470K	
R19	1800Ω					R49	10K 1W	
R20	100K					R50	2200Ω 5W	
R21	Inreg					R51	100K	IRC#PWS-2200Ω
R22	39K					R52	100K	
R23	2200Ω							
R24	39K							

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA				NOTES
		Stromberg-Carlson PART No.	RCA PART No.	SARKES TAZIAN PART No.	SYLVANIA PART No.	
M1	.160A	162000-052 *	IN1763 *	40K *	SR500 *	* Silicon
M2	.160A	162000-052 *	IN1763 *	40K *	SR500 *	

### MISCELLANEOUS

ITEM No.	PART NAME	Stromberg-Carlson		NOTES
		PART No.	PART No.	
M3	Switch	158000-126		
M4	Switch	158000-032		Function (Rotary Wafer Type) Mode (SPDT Slide Type)
M5	Switch	158000-055		Power Off-On (SPST Slide Type)
M6	Circuit Breaker	158000-134		

### TRANSFORMER (POWER)

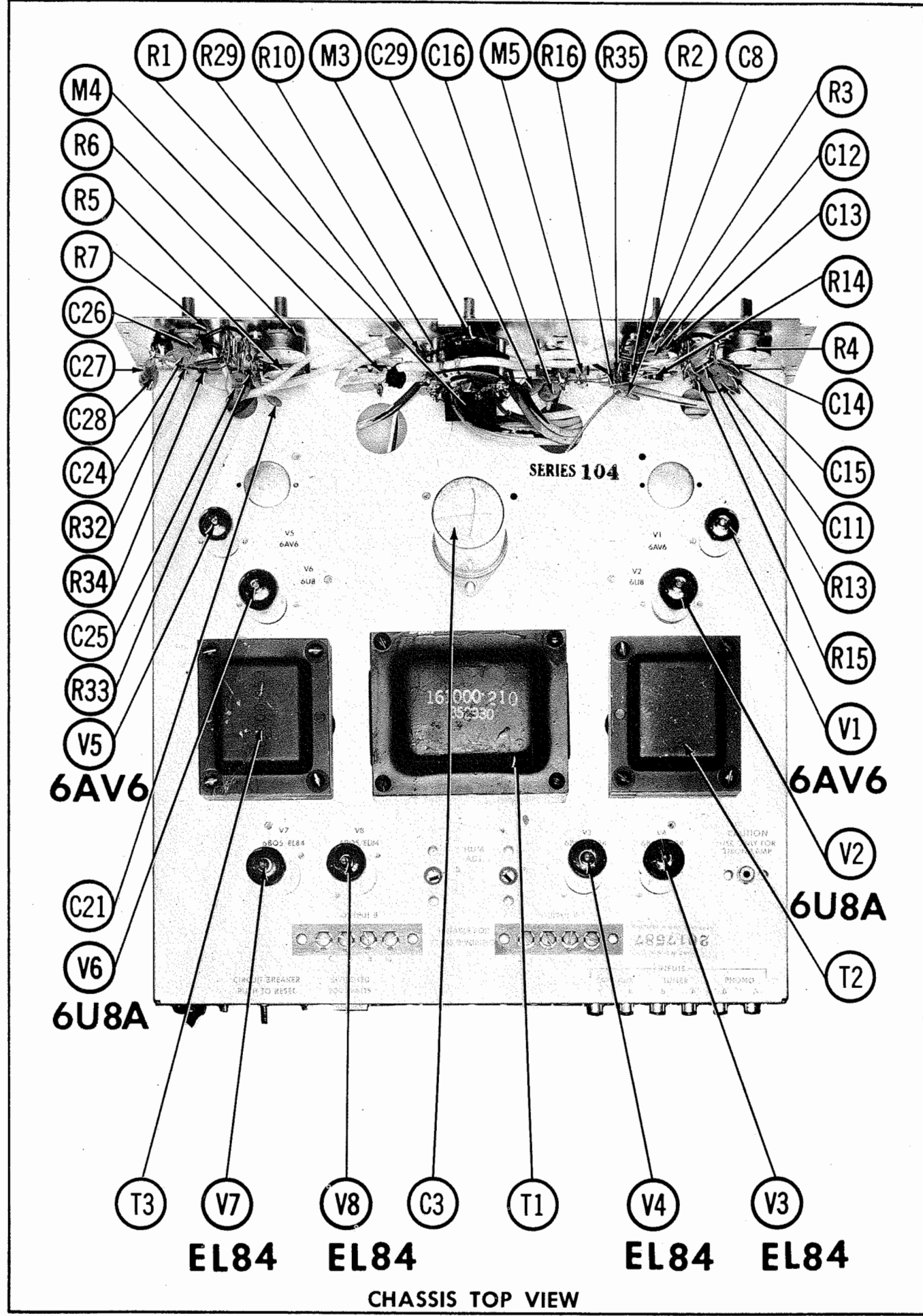
ITEM No.	REPLACEMENT DATA				NOTES
	Stromberg-Carlson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
T1	161000-210				

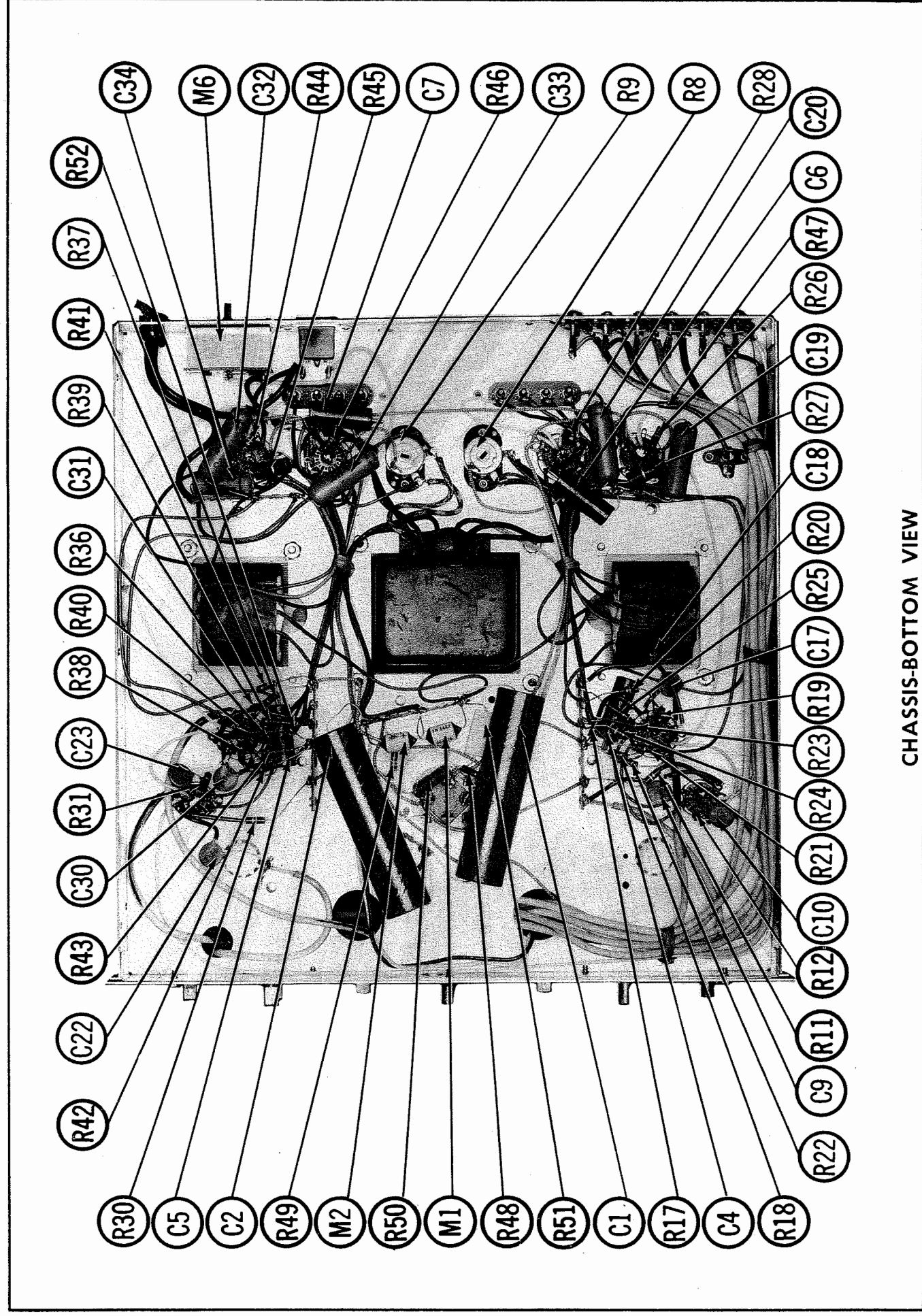
### WIRING DATA

General-use Unshielded Hook-up Wire ..... Use BELDEN No. 8550 (Solid) Available in Ten Colors  
8924 (Stranded) Available in Ten Colors  
Power Cord ..... Use BELDEN No. 1765-B (6 Ft. Length)  
1725-K (1/2 Ft. Length)

### TRANSFORMER (AUDIO OUTPUT)

ITEM No.	REPLACEMENT DATA				NOTES
	Stromberg-Carlson PART No.	Merit PART No.	Stancor PART No.	Thordarson PART No.	
T2	161000-159			22895 ①	
T3	161000-159			22895 ①	① Use Original Shields





CHASSIS-BOTTOM VIEW

PARTS LIST AND DESCRIPTIONS

ITEM No.	GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
	USE	TYPE	ITEM No.	USE	TYPE	
V1	Channel A AF Amp.	6AV6	V5	Channel B AF Amp.	6AV6	
V2	Channel A AF Amp. - Phase Inverter	6UBA	V6	Channel B AF Amp. - Phase Inverter	6UBA	
V3	Channel A Output	EL84/6BQ5	V7	Channel B Output	EL84/6BQ5	
V4	Channel A Output	EL84/6BQ5	V8	Channel B Output	EL84/6BQ5	

TUBES

ITEM No.	GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
	USE	TYPE	ITEM No.	USE	TYPE	
C1	100	250	TC1285	TD-100-250	TVA-1718	
C2	100	250	TC1285	TD-100-250	TVA-1718	
C3A	20	450	FP474.5	TMQ-4616	TVL-4832	
C3B	20	450				
C3C	10	400				
C3D	10	400				
C4	4	150	TT150X4	TD-4-150	TVA-1402	
C5	4	150	TT150X4	TD-4-150	TVA-1402	
C6	25	25	TC26	TD-25-25	TVA-1205	
C7	25	25	TC26	TD-25-25	TVA-1205	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	CAP.	VOLT.	CORNELL-DUBIER PART No.	ELMENCOR PART No.	
C1	100	250	BRU035	CCD-221	
C2	100	250	BRU035	CCD-103	
C3A	20	450	DFH4-19-10	CCD-103	
C3B	20	450	DFH4-19-10	CCD-103	
C3C	10	400		CCD-103	
C3D	10	400		CCD-103	
C4	4	150	BRB4-150	CCD-103	
C5	4	150	BRB4-150	CCD-103	
C6	25	25	BRB25-25	CCD-103	
C7	25	25	BRB25-25	CCD-103	

FIXED CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA		SPRAGUE PART No.
	CAP.	VOLT.	CORNELL-DUBIER PART No.	ELMENCOR PART No.	
C8	220	10%	LI0732	CCD-221	GP222
C9	10000		BYA10S1	CCD-103	B-110
C10	10000		BYA10S1	CCD-103	B-110
C11	100	N750 10%	LI0732	CCD-103	GP222
C12	100	N750 10%	LI0732	CCD-103	GP222
C13	1000	10%	BYA10S1	CCD-103	GP210
C14	1000	10%	BYA10S1	CCD-103	GP210
C15	10000		BYA10S1	CCD-103	GP210
C16	4700		BYA10S1	CCD-103	GP210
C17	10000		BYA10S1	CCD-103	GP210
C18	47		LI0Q47	CCD-470	GP447

FIXED CAPACITORS (cont)

ITEM No.	RATING		REMARKS	REPLACEMENT DATA				SPRAGUE PART No.
	RESIST. ANCE	WATTS		AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBIER PART No.	ELMENCOR PART No.	
C19	Imeg	250K Tap		P488N-047	DD-503	CUBAS47	4DP-3-473	GEM-4147
C20	Imeg	250K Tap		P488N-047	DD-503	CUBAS47	4DP-3-473	GEM-4147
C21	Imeg	220 10%		DI-220	DD-221	LI0723	CCD-221	GP222
C22	Imeg	10000		RPD-01	DD-103	BYA10S1	CCD-103	B-110
C23	Imeg	10000		RPD-01	DD-103	BYA10S1	CCD-103	B-110
C24	Imeg	100 N750 10%		N750-D1 100	DTN-100	LI0732	CCD-103	B-110
C25	Imeg	2200 10%		DI-2200	DD-222	LI0732	CCD-222	GP222
C26	Imeg	1000 10%		DI-1000	DD-102	BYA10S1	CCD-102	GP210
C27	Imeg	1000 10%		DI-1000	DD-102	BYA10S1	CCD-102	GP210
C28	Imeg	4700		RPD-0047	DD-103	BYA10S1	CCD-103	B-110
C29	Imeg	4700		RPD-0047	DD-103	BYA10S1	CCD-103	B-110
C30	Imeg	10000		RPD-01	DD-103	BYA10S1	CCD-103	B-110
C31	Imeg	47		DI-47	DD-470	LI0Q47	CCD-470	GP447
C32	Imeg	4700		P488N-047	DD-503	CUBAS47	4DP-3-473	GEM-4147
C33	Imeg	4700		P488N-047	DD-503	CUBAS47	4DP-3-473	GEM-4147
C34	Imeg	600V		P688N-01	D6-103	CUBS1	6DP-2-103	GEM-611

CONTROLS

ITEM No.	RATING		REMARKS	REPLACEMENT DATA				INSTALLATION NOTES
	RESIST. ANCE	WATTS		AEROVOX PART No.	CENTRALAB PART No.	CTS-IRC PART No.	MALLOY PART No.	
R1A	Imeg	250K Tap		BT-167 *	FC18T254		FC18T254	Master Loudness, Channel B
B	Imeg	250K Tap		STR-167 *	RUBT254		RUBT254	Master Loudness, Channel A
C	Imeg	250K Tap		Not Req.	CS3500		CS3500	Gain, Channel A
R2A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Gain, Channel A
R3A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel A
R4A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel A
R5A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel B
R6A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel B
R7A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel B
R8A	Imeg	145000-072		B-70	Q13-137	Q13-137	Q13-137	Treble, Channel B
R9A	Imeg	173853-000		WN-101	W11-084	W11-084	W11-084	Hum Adjust, Channel A
R9B	Imeg	173853-000		WN-101	W11-084	W11-084	W11-084	Hum Adjust, Channel B
B	Imeg	2(WW)		Not Req.	SK5	SK5	SK5	Hum Adjust, Channel B

\* Do not use tap #2.