

Lectrolab R600

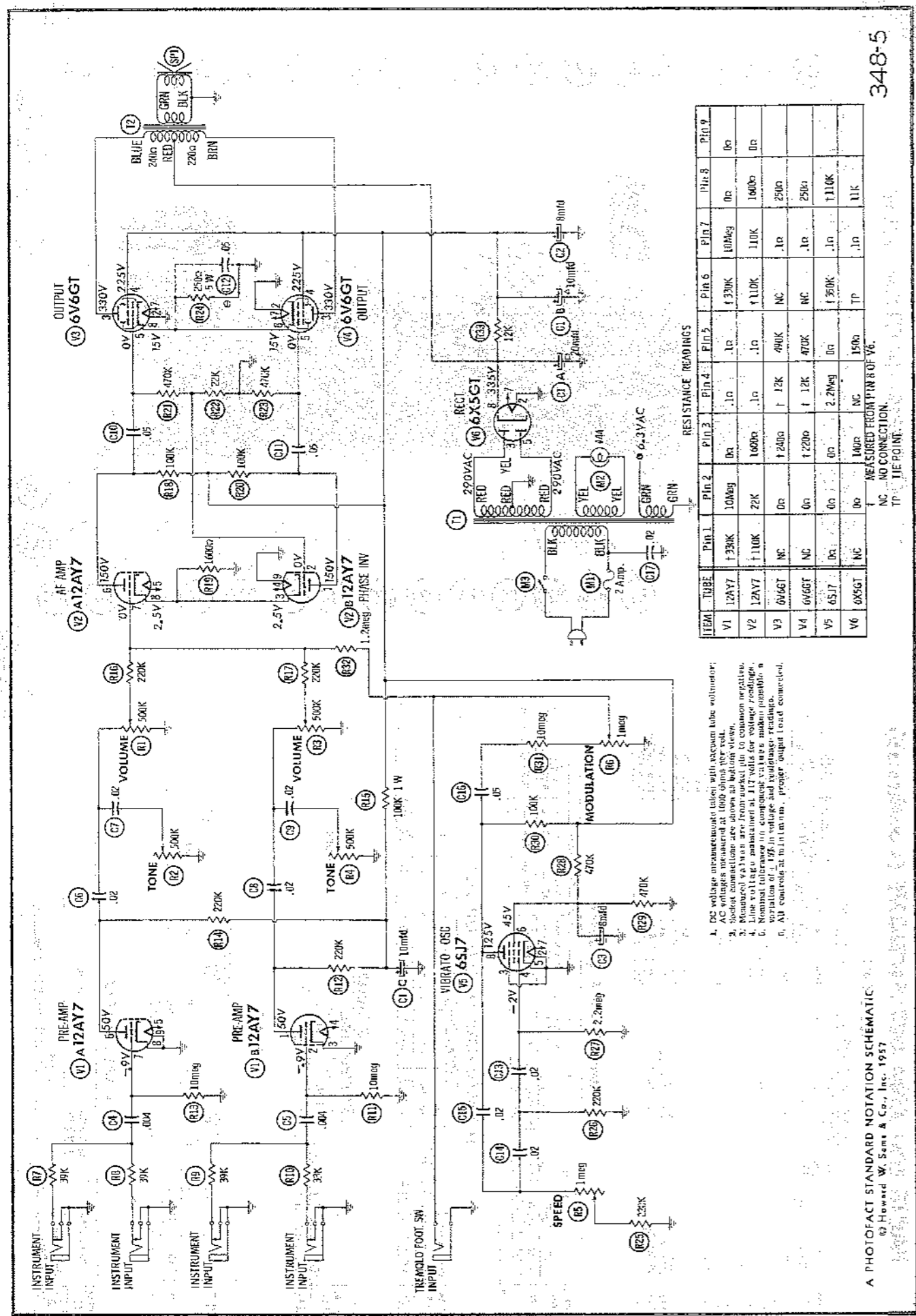
by "Sound Projects"
(spiegel)

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

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AY7	† 330K	10Meg	0Ω	.1Ω	.1Ω	† 330K	10Meg	0Ω	0Ω
V2	12AY7	† 110K	22K	1600Ω	.1Ω	.1Ω	† 110K	110K	1600Ω	0Ω
V3	6V6GT	NC	0Ω	† 240Ω	† 12K	490K	NC	.1Ω	250Ω	
V4	6V6GT	NC	0Ω	† 220Ω	† 12K	470K	NC	.1Ω	250Ω	
V5	6SJ7	0Ω	0Ω	0Ω	2.2Meg	0Ω	† 350K	.1Ω	† 110K	
V6	6X5GT	NC	0Ω	140Ω	NC	150Ω	TP	.1Ω	11K	

† MEASURED FROM PIN 8 OF V6.
NC NO CONNECTION.
TP TIE POINT.



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RESISTANCE READINGS

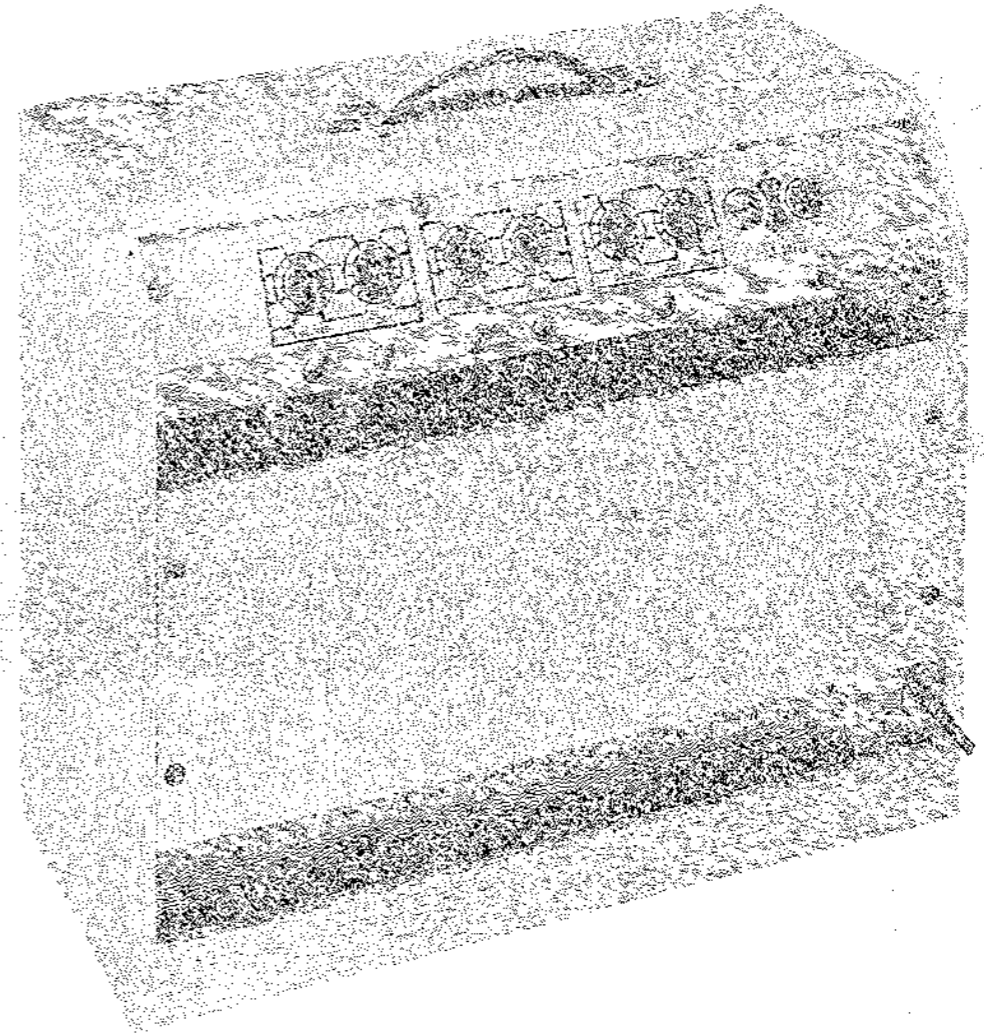
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AY7	1.39K	10Meg	Dr	.10	.10	1.39K	10Meg	Dr	Dr
V2	12AY7	1.10K	22K	1.60K	.10	.10	1.10K	10K	1.60K	Dr
V3	6V6GT	NC	Dr	1.24K	1.2K	490K	NC	.10	2500	
V4	6V6GT	NC	Dr	1.22K	1.2K	470K	NC	.10	2500	
V5	6SJ7	Dr	Dr	Dr	2.2Meg	Dr	1.36K	.10	1.10K	
V6	6X5GT	NC	Dr	1.40K	NC	150K	TP	.10	1.1K	

MEASURED FROM PIN 8 OF V6.
NC - NO CONNECTION.
TP - TIE POINT.

1. DC voltage measurements taken with vacuum tube voltmeter.
2. AC voltages measured at 1000 ohm per volt.
3. Resistor values are shown in billions unless noted.
4. Measured values are from actual pin to common negative.
5. Measured values are from actual pin to common negative.
6. Measured values are from actual pin to common negative.
7. Measured values are from actual pin to common negative.
8. Measured values are from actual pin to common negative.
9. All controls at minimum, proper output load connected.

A PHOTOFACT STANDARD NOTATION SCHEMATIC.
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LECTROLAB
MODEL R-600



LECTROLAB
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TRADE NAME	Lectrolab Model R-600
SUPPLIER	Spiegel Inc., 1061 W. 35th. St., Chicago 9, Illinois
TYPE SET	AC Operated 4 Channel Audio Amplifier
TUBES (Six)	Types 12AY7 AF Amplifier, 12AY7 AF Amp. -Phase Inv., (2) 6V6GT Output, 6SJ7 Vibrato Osc., 6X5GT Rectifier
POWER SUPPLY	110-120 Volts AC 50/60 Cycle RATING .51 Amp. @ 117 Volts AC

HOWARD W. SAMs & CO., INC. • Indianapolis 5, Indiana

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**PARTS LIST AND DESCRIPTIONS
TUBES (GENERAL ELECTRIC, SYLVANIA)**

LECTROLAB
MODEL R-600

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Int. AF Amplifier	12AY7		V4	Output	6V6GT	
V2	2nd. AF Amp. - Phase Inv.	12AY7		V5	Vibrato Osc.	6X5GT	
V3	Output	6V6GT		V6	Rectifier	6X5GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP. VOLT.	REPLACEMENT DATA			
		LECTROLAB PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLOY PART No.
C1A	200		AP10-35	CO280	FD376.3
C1B	450		PRS50V8	BRB35	TD-8-350
C1C	300		PRS50V8	BRB35	TD-8-350
C1D	300				TC61

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

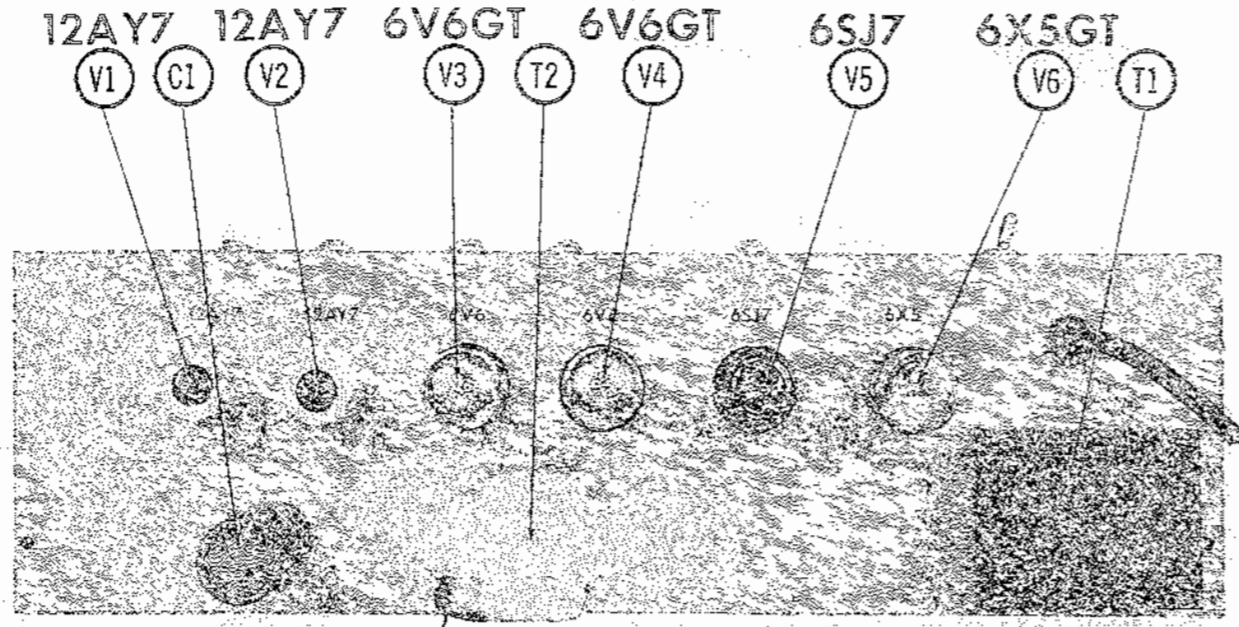
ITEM No.	RATING CAP. VOLT.	REPLACEMENT DATA				NOTES
		LECTROLAB PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLOY PART No.	
C4	0.04		BFD-004	DJ-402	CUB604	6V6GT
C5	0.04		BFD-004	DJ-402	CUB604	6V6GT
C6	0.02		BFD-02	DD-203	CUB62	6V6GT
C7	0.02		BFD-02	DD-203	CUB62	6V6GT
C8	0.02		BFD-02	DD-203	CUB62	6V6GT
C9	0.02		BFD-02	DD-203	CUB62	6V6GT
C10	0.05		BFD-05	DF-503	CUB65	6V6GT
C11	0.05		BFD-05	DF-503	CUB65	6V6GT
C12	0.02		BFD-02	DD-203	CUB62	6V6GT
C13	0.02		BFD-02	DD-203	CUB62	6V6GT
C14	0.02		BFD-02	DD-203	CUB62	6V6GT
C15	0.02		BFD-02	DD-203	CUB62	6V6GT
C16	0.05		BFD-05	DF-503	CUB65	6V6GT
C17	0.02		BFD-02	DD-203	CUB62	6V6GT

Note 1. Not used in some versions.

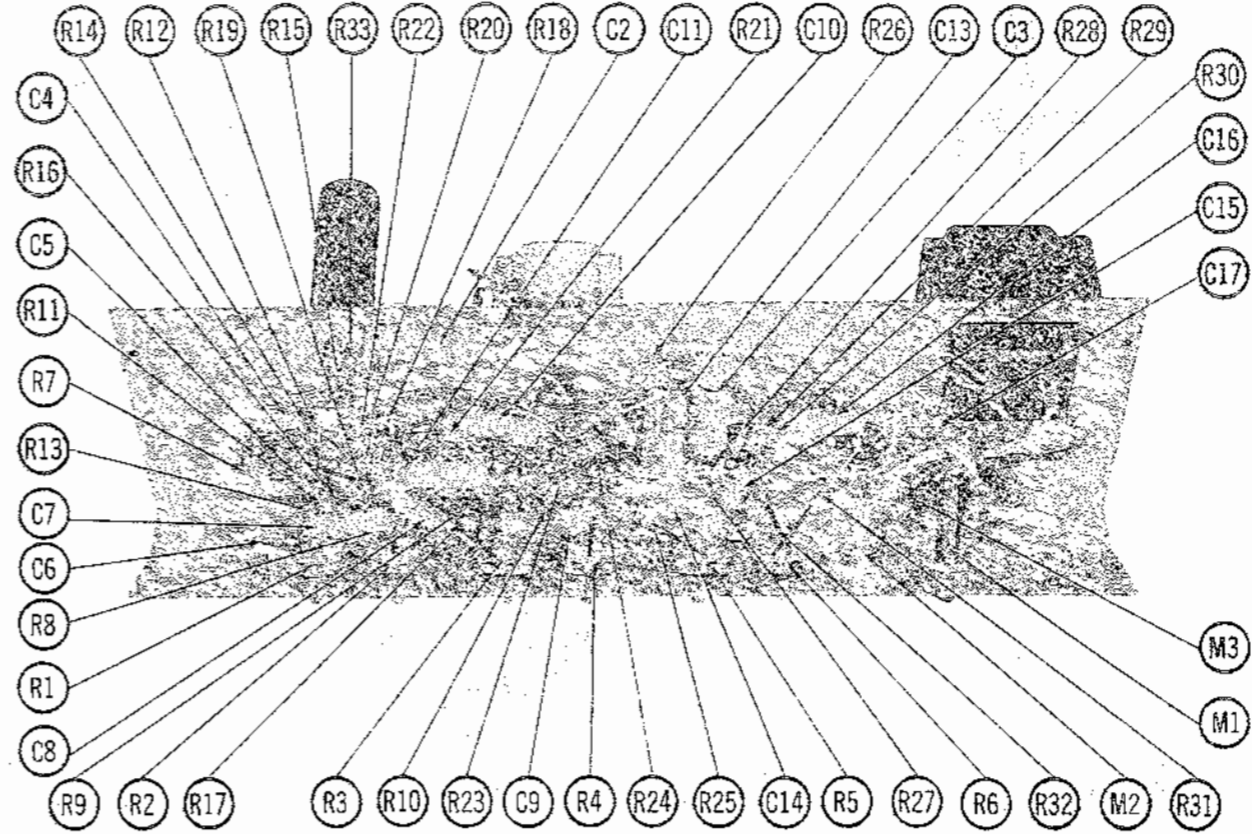
CONTROLS

ITEM No.	RATING RESIST. WATTS	REPLACEMENT DATA				INSTALLATION NOTES
		LECTROLAB PART No.	CENTRALAB PART No.	CLAUSTAT PART No.	MALLOY PART No.	
R1A	500K		AK-60	A17-500K-Z	Q13-135	Volume
R1B	500K		AK-4	ES8-3	Q13-135	Tone
R2A	500K		AK-10	A17-500K-Z	Q13-135	Volume
R2B	500K		AK-1	ES8-3	Q13-135	Tone
R3A	500K		AK-10	A17-500K-Z	Q13-135	Volume
R3B	500K		AK-1	ES8-3	Q13-135	Tone
R4A	500K		AK-10	A17-500K-Z	Q13-135	Volume
R4B	500K		AK-1	ES8-3	Q13-135	Tone
R5A	1M		AK-4	A17-1M-Z	Q13-137	Speed
R5B	1M		AK-4	ES8-3	Q13-137	Modulation
R6A	1M		AK-4	A17-1M-Z	Q13-137	Speed
R6B	1M		AK-4	ES8-3	Q13-137	Modulation

CHASSIS--TOP VIEW



CHASSIS--BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	OHMS	WATT	LECTROLAB PART No.	IRC PART No.	
R7	50K		BTS-50K	BTR-100K	
R8	50K		BTS-50K	BTS-50K	
R9	50K		BTS-50K	BTS-50K	
R10	50K		BTS-50K	BTS-50K	
R11	10M		BTS-10M	BTS-10M	
R12	220K		BTS-220K	BTS-220K	
R13	220K		BTS-220K	BTS-220K	
R14	220K		BTS-220K	BTS-220K	
R15	100K		BTS-100K	BTS-100K	
R16	220K		BTS-220K	BTS-220K	
R17	100K		BTS-100K	BTS-100K	
R18	100K		BTS-100K	BTS-100K	
R19	1000K	5%	BTS-1000K	BTS-1000K	
R20	1000K	5%	BTS-1000K	BTS-1000K	
R21	1000K	5%	BTS-1000K	BTS-1000K	
R22	1000K	5%	BTS-1000K	BTS-1000K	
R23	1000K	5%	BTS-1000K	BTS-1000K	
R24	1000K	5%	BTS-1000K	BTS-1000K	
R25	1000K	5%	BTS-1000K	BTS-1000K	
R26	1000K	5%	BTS-1000K	BTS-1000K	
R27	1000K	5%	BTS-1000K	BTS-1000K	
R28	1000K	5%	BTS-1000K	BTS-1000K	
R29	1000K	5%	BTS-1000K	BTS-1000K	
R30	1000K	5%	BTS-1000K	BTS-1000K	

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	SEC. 1	SEC. 2	LECTROLAB PART No.	Stencor PART No.	
T1	117VAC	0.3VAC	46-70	P-2001 (J)	
	50-51A	30-065A	100, 20A	10/2, 3A	

T - Tap; center tap.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	IMPEDANCE	SEC.	LECTROLAB PART No.	Stencor PART No.	
T2	10K	6-80	34-27	20003 (J)	
				20003 (J)	

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		LECTROLAB PART No.	QUAM PART No.	
S1	12"	6-103	12A4	

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA		NOTES
			LECTROLAB PART No.	LITTELFUSE PART No.	
M1	3AG	2A	31802 (JAG 2A)	31801	ACC. 2
		250V			11XP

MISCELLANEOUS

ITEM No.	PART NAME	LECTROLAB PART No.	NOTES
M2	Fluor. Light		
M3	Switch		

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