

**SHERWOOD
MODEL S-1000**

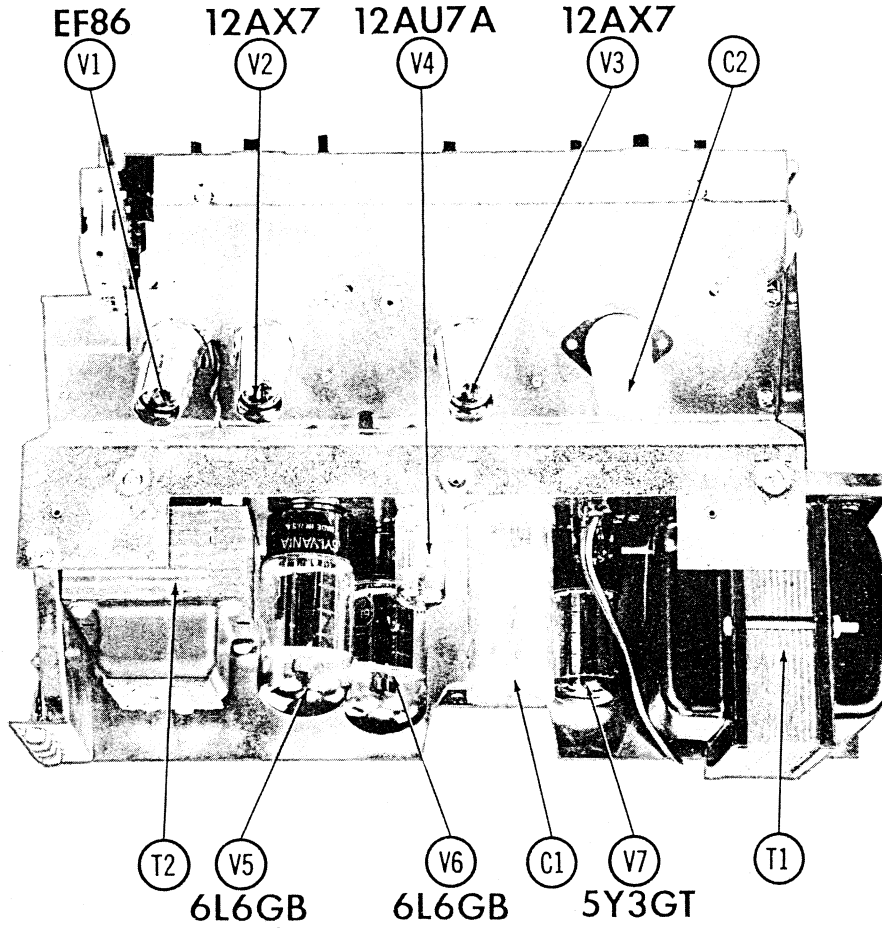
**SHERWOOD
MODEL S-1000**



**SHERWOOD
MODEL S-1000**

TRADE NAME	Sherwood Model S-1000	
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 2802 W. Cullom Ave., Chicago 18, Ill.	
TYPE SET	AC Operated 5 Channel Audio Amplifier	
TUBES (Seven)	Types EF86/Z729 Preamplifier, 12AX7 1st. AF Amplifier, 12AX7 2nd. AF Amplifier, 12AU7A 3rd. AF Amp.-Phase Inv., (2) 6L6GB Output, 5Y3GT Rectifier	
POWER SUPPLY	110-120 Volts AC-60 Cycles	RATING .55 Amp. @ 117 Volts AC

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, PENNSYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Preamplifier	EF86/ Z729		V4	AF Amp. -Phase Inverter	12AU7A	
V2	AF Amplifier	12AX7		V5	Output	6L6GB	
V3	AF Amplifier	12AX7		V6	Output	6L6GB	
				V7	Rectifier	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA									
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	FP369.1	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.		
C1A	.40	400		AFH4-85	BO450			T-715	R2323 *			
C1B	.40	400			BR505							
C1C	.450	50										
C2A	.10	400		AFH2-47	BO390		TMD-41	D-200	R2322 *			
C2B	.15	400						MT-4504				
C3	.25	10		PRS25V25	BR252		TD-25-25	FM-0225	TVA-1205			

* Non-catalog item.

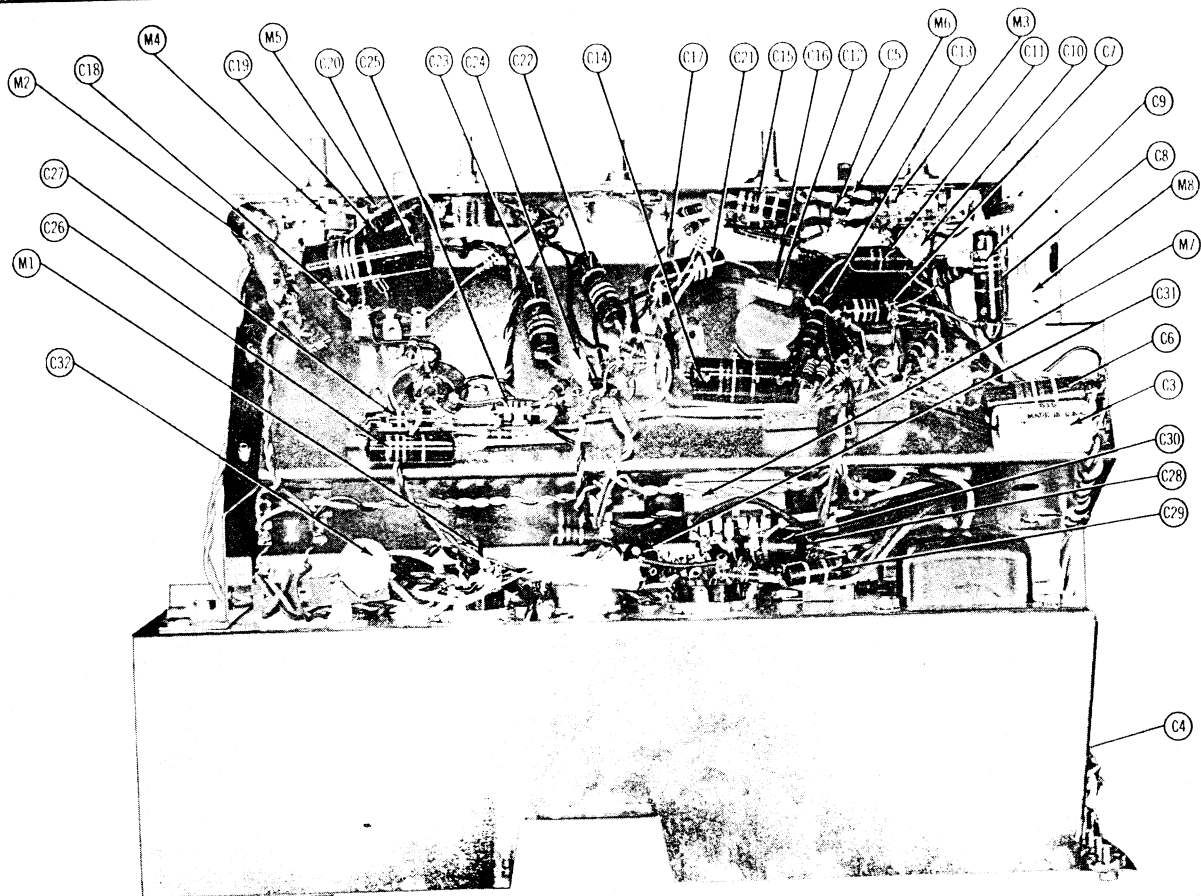
FIXED CAPACITORS

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

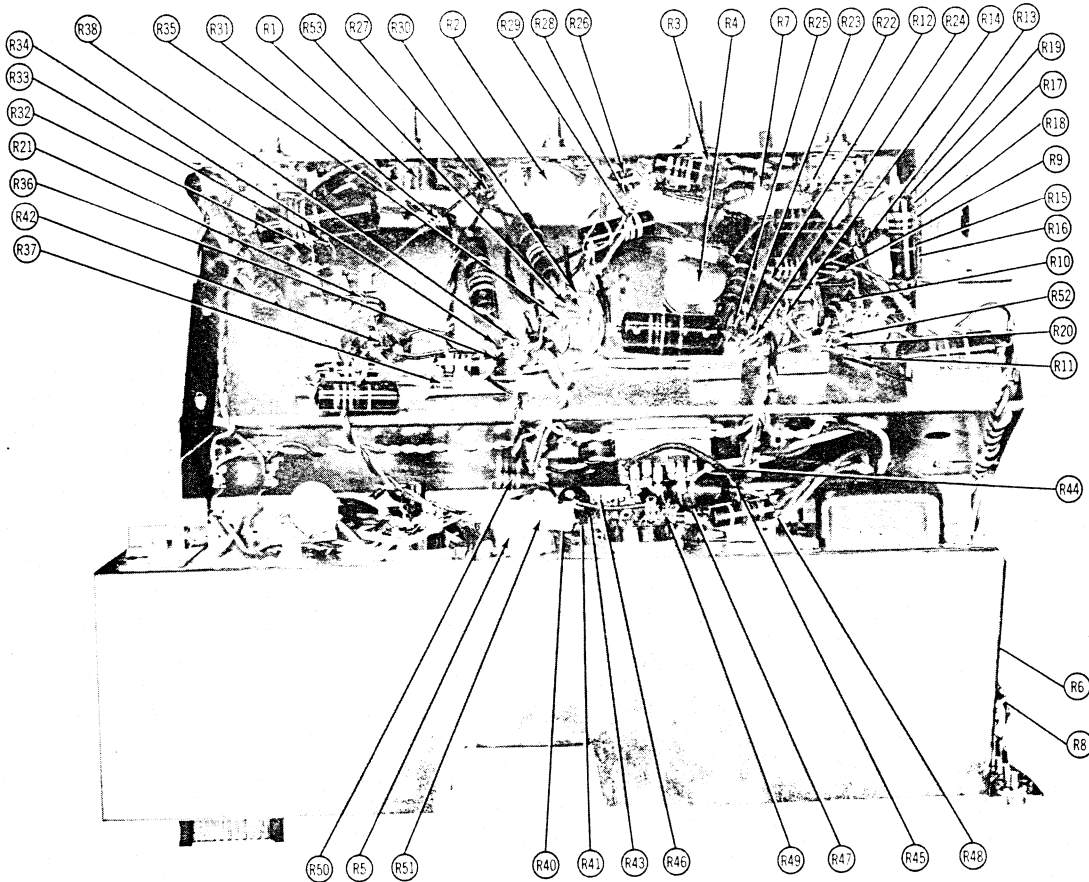
ITEM No.	RATING		REPLACEMENT DATA										NOTES
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIC PART No.	MALLORY PART No.	SPRAGUE PART No.				
C4	100	500		NPO-SI100	D6-101	22R5T1	ED-100	MCB235	MS-31				
C5	.0039	400		I464-0039	IRSD39	CUB4P1		PT401	4TM-P1				
C6	.1	400		P488N-1	DF-104				MS-368				
C7	.0068	400		I464-0068		IRSD12	ED-1200	PT4122	MS-212				
C8	1200	400		BPD-02	DF-203	CUBAS22	817-02	PT4133	4TM-S22				
C9	.022	400		I464-0012	DF-303	IRSD12	ED-1200		6TM-S33				
C10	1200	400		BPD-03	DF-303	CUBS33	ED-470	PT4141	MS-347				
C11	.033	400		I464-000447	D6-471	5R5747	GP-10000	PT4015	4TM-S1				
C12	470	500		BPD-01	D6-103	CUB2P15			MS-233				
C13	.01	400		P288N-15		IRSD33			MS-31				
C14	.15	200		I464-0033		IRSD33			MS-447				
C15	.0033	400		I464-0033		IRSD33			6TM-S33				
C16	.0033	400		NPO-SI100	D6-101	22R5T1	ED-100	MCB-235	6TM-S33				
C17	1000	500			D6-470	22R3Q47	ED-47	ZT-547	6TM-S33				
C18	47	500		NPO-SI47					6TM-S33				
C19	.056	400							6TM-S33				
C20	.18	200							6TM-S33				
C21	.033	400		BPD-03	DF-303	CUBS533		PT4133	6TM-S33				
C22	.033	400		BPD-03	DF-303	CUBS533		PT4133	6TM-S33				
C23	.033	400		BPD-03	DF-303	CUBS533		PT4133	6TM-S33				
C24	2200	400		I464-0022		IRSD22			MS-222				
C25	.0039	400		I464-0039		IRSD39			MS-239				
C26	.033	400		BPD-03	DF-303	CUBS533		PT4133	6TM-S33				
C27	.0047	400		BPD-0047	D6-472	CUB6D47	GP-4700	PT6247	6TM-D47				
C28	120	500		DL-00012	D6-121	5W5T12	GP-120	UC-5312	1FM-312				
C29	.01	400		BPD-01	D6-103	CUB4S1	GP-10000	PT411	4TM-S1				
C30	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1				
C31	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1				
C32	5000	1000		IIVD-15-1000	DD-502		IR5KV-472		10HK-D47				

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST.	WATTS	SHERWOOD PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1	250K	1	670A66					Volume Loudness tap @ 18K and 45K
R2A	500K	1/2	670A81	ABT-67			UT-430	Treble - tap @160K
R2B	500K	1/2	670A81	AK-3			Not Req.	Attach to R2A
R3A	1Meg	1/2	670AB2	AK-69			U54	Base
R3B	1Meg	1/2	670AB2	AK-3	A47-1Meg-S	Q1-137	Not Req.	Attach to R3A
R4A	500K	1/2	670AB4	AK-60	FS-3	Not Req.	U48	Phono Level
R4B	500K	1/2	670AB4	AK-1	A47-500K-Z	Q3-133	Not Req.	Attach to R4A
R5A	10000	1/2	670AB5	AB-5	FKS-1/4	SQ	U4	Hum Null
R5B	10000	1/2	670AB5	AK-1	A47-1000-S	Q1-108	Not Req.	Attach to R5A

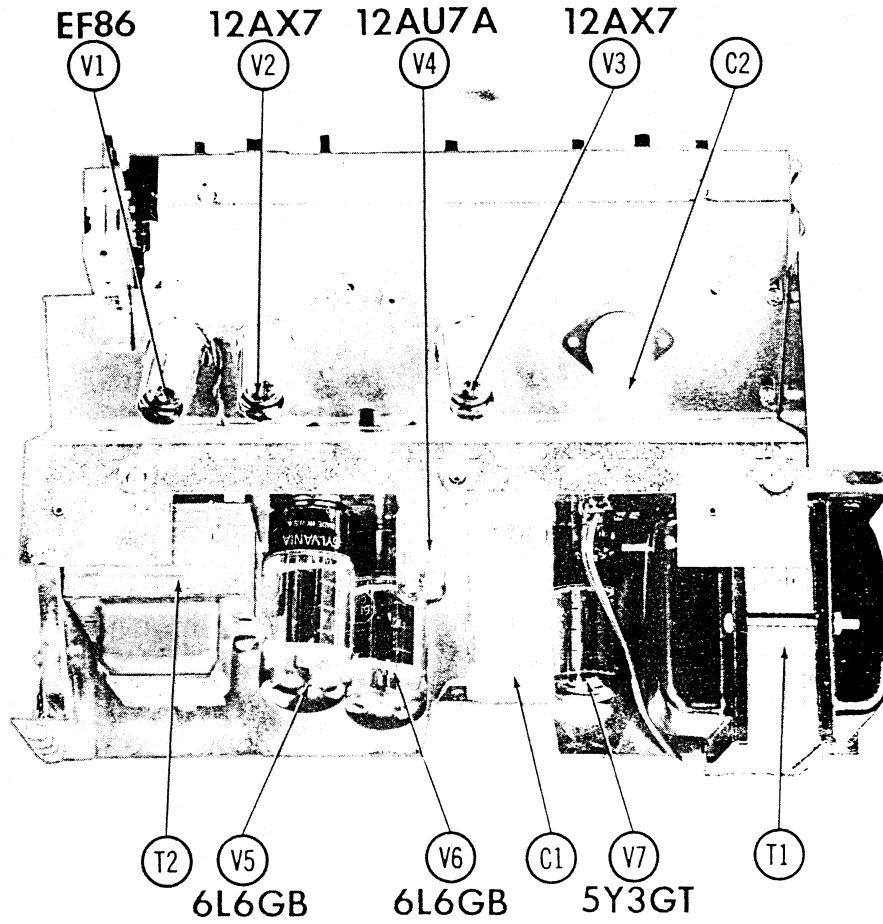


CHASSIS BOTTOM VIEW-CAPACITOR IDENTIFICATION



CHASSIS BOTTOM VIEW-RESISTOR IDENTIFICATION

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, SYLVANIA)

ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Preamplifier	EF86/ Z729		V4	AF Amp.-Phase Inverter	12AU7A	
V2	AF Amplifier	12AX7		V5	Output	6L6GB	
V3	AF Amplifier	12AX7		V6	Output	6L6GB	
				V7	Rectifier	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANGAMO PART No.	SPRAGUE PART No.
C1A	.40	400		AFH4-85	BR5050	FP369.1		T-715	R2323 *
C1B	.40	400							
C1C	.40	400							
C2A	.10	400		AFH2-47	EO390	FP231	TMD-41	D-200 MT-4504	R2322 *
C2B	.10	400						FM-0225	TVA-1205
C3	.25	10		PRS25V25	BR252	TC28	TD-25-25		

* Non-catalog item.

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		REPLACEMENT DATA										NOTES
	CAP.	VOLT.	SHERWOOD PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.				
C4	100	500		NP0-S1 100	D6-101	22R5 T1	ED-100	MCB235	MS-31				
C5	.0039	400		1464-0039	IR5D39	1464-0039	IR5D39	PT401	MS-239				
C6	.1	400		P488N-1	DF-104	CUB4P1			4TM-P1				
C7	.0068	400		1464-0068					MS-368				
C8	1200	400		BPD-02	DF-203	IR5D12	ED-1200	PT422	MS-212				
C9	.022	400		BPD-02	DF-203	IR5D12	87-02		4TM-S22				
C10	1200	400		BPD-03	DF-303	IR5D12	ED-1200	PT433	MS-212				
C11	.033	400		BPD-03	DF-303	IR5D12	ED-1200	PT411	6TM-S33				
C12	.470	500		BPD-01	D6-471	5H5T-47	ED-470	PT4015	MS-347				
C13	.15	200		P288N-15	D6-103	CUB2P15	GP-10000		2TM-P15				
C14	.0033	400		1464-0033		IR5D33			MS-233				
C15	.0033	400		1464-0033		IR5D33			MS-233				
C16	.0033	400		NP10-S1 100	D6-101	22R5 T1	ED-100	MCB-235	MS-31				
C17	100	500		NP10-S147	D6-470	22R5 Q47	ED-47	ZT-547	MS-447				
C18	.47	500											
C19	.056	400											
C20	.18	300											
C21	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33				
C22	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33				
C23	.033	400		BPD-03	DF-303	CUB6S33		PT4133	6TM-S33				
C24	2200	400		1464-0022		IR5D26			MS-229				
C25	.0039	400		BPD-03	DF-303	CUB6S33		PT433	6TM-S33				
C26	.033	400		BPD-03	DF-303	CUB6S33		PT4247	6TM-D47				
C27	.0047	400		BPD-03	DF-303	CUB6S33		UC-5312	1FM-312				
C28	120	500		D1-00012	D6-121	3W5T12	GP-120	PT411	4TM-S1				
C29	.01	400		BPD-01	D6-103	CUB4P1	GP-10000		4TM-P1				
C30	.1	400		P488N-1	DF-104	CUB4P1		PT401	4TM-P1				
C31	.1	400		1464-0012	D6-104	CUB4P1							
C32	5000	1000		HVD-15-1000	D1-502		IR6KV-472		100IR-D47				

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST. ANCE	WATTS	SHERWOOD PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.	
R1	250K	1	670A66				UT-430 Not Req.	Volume Loudness tap @ 16K and 45K Trebble - tap @160K Attach to R2A
R2A	500K	1/2	670A81	ABT-67			U34 Not Req.	Base
R2B	500K	1/2	Not Req.	AK-3			U48 Not Req.	Attach to R3A
R3A	1Meg	1/2	670AB2	AB-69			U49 Not Req.	Phono Level
R3B	1Meg	1/2	Not Req.	AK-3			U4Not Req.	Attach to R4A
R4A	500K	1/2	670AB4	AB-60	A47-1Meg-S	Q1-137	U4Not Req.	Hum Null
R4B	500K	1/2	Not Req.	AK-1	FS-3	Not Req.		
R5A	1000G	1/2	670AB5	AB-5	A47-500K-Z	Q3-133		
R5B	1000G	1/2	Not Req.	AK-1	FKS-1/4	SQ		
					A47-1000-S	Q1-108		
					FKS-1/2	SQ		

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING		REPLACEMENT DATA		ITEM No.	RATING		REPLACEMENT DATA		ITEM No.	NOTES
	OHMS	WATT	SHERWOOD PART No.	IRC PART No.		OHMS	WATT	SHERWOOD PART No.	IRC PART No.		
R6	47K			BTS-47K	R30	150K			BTS-150K		
R7	15K			BTS-15K	R31	330K			BTS-330K		
R8	33K			BTS-33K	R32	12K			BTS-12K		
R9	150K			BTS-150K	R33	2200Ω			BTS-2200		
R10	100K			MBC-100K	R34	1Meg			BTS-1Meg		
R11	820K			BTS-820K	R35	150K			BTS-150K		
R12	1Meg			BTS-1Meg	R36	10Meg			BTS-10Meg		
R13	270K			MBC-270K	R37	1Meg			BTS-1Meg		
R14	220K			BTS-220K	R38	2700Ω			BTS-2700		
R15	10Meg			BTS-10Meg	R39	120K			BTS-120K		Note 1
R16	2.2Meg			BTS-2.2Meg	R40	1Meg			BTS-1Meg		Note 2
R17	56K			BTS-56K	R41	270K			BTS-270K		
R18	100K			BTS-100K	R42	6800Ω			BTS-6800		
R19	10Meg			BTS-10Meg	R43	10K 5%			BTS-10K		
R20	2700Ω			BTS-2700	R44	12K 5%			BTS-12K		
R21	10K			BTS-10K	R45	220Ω			BTS-220		
R22	1Meg			BTS-1Meg	R46	47K 5%	1		BT-A-47K		Note 3
R23	470K			BTS-470K	R47	47K	1		BTS-47K		Note 3
R24	47K			BTS-47K	R48	220K			BTS-220K		
R25	680Ω			BTS-680	R49	220K			BTS-220K		
R26	100K			BTS-100K	R50	4700Ω	1		BT-A-4700		
R27	47K			BTS-47K	R51	240Ω	7		PW7-250		
R28	100K			BTS-100K	R52	1500Ω			BTS-1500		
R29	470K			BTS-470K	R53	2700Ω			BTS-2700		

Note 1. Not used in some versions.

Note 2. Some versions may use 220K in this application.

Note 3. R46 and R47 are matched within 3%.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA				
	PRI.	SEC. 1	SEC. 2	SEC. 3	SHERWOOD PART No.	Stencor PART No.	Thorderson PART No.	Triad PART No.
T1	117VAC ①. 55A	700VCT ②. 125A	5VAC ③. 2A	6.3VAC ④. 2.9A	922AB1	PC-8410		

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

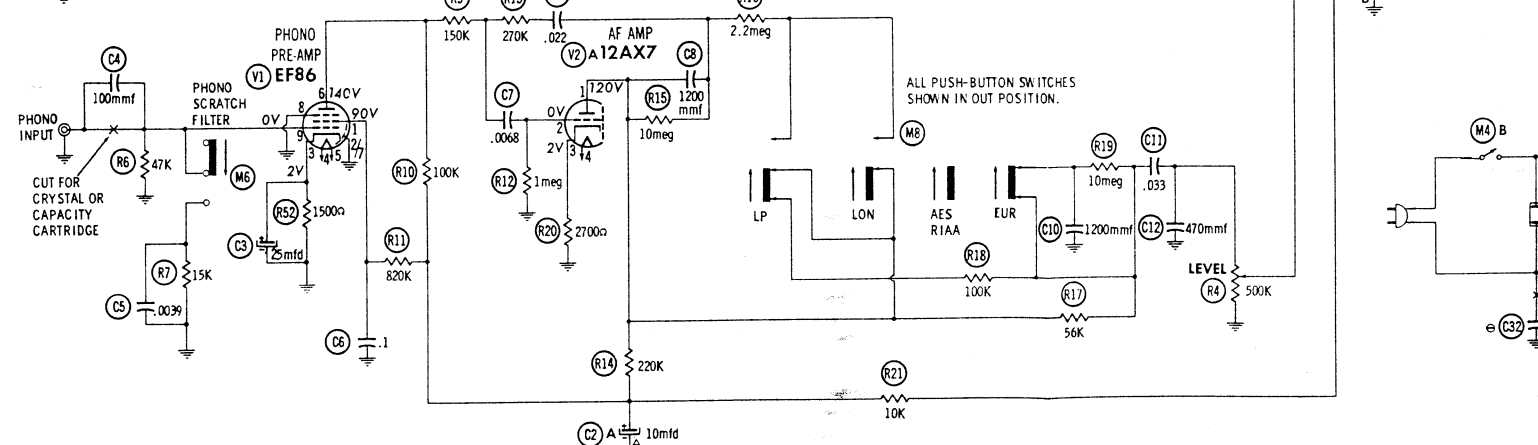
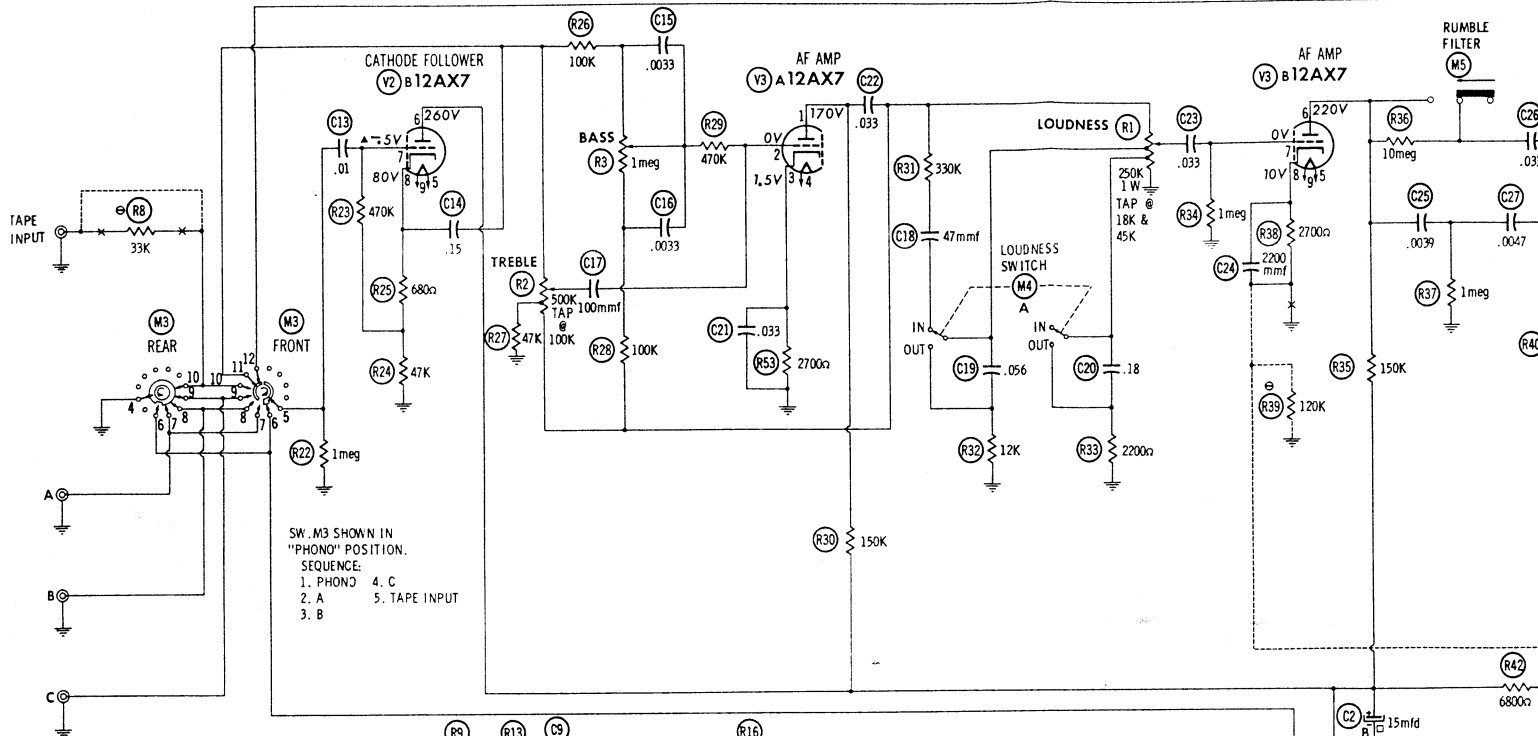
ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES	
	PRI.	SEC.	SHERWOOD PART No.	Halliderson PART No.	Merit PART No.	Stencor PART No.		Thorderson PART No.
T2	5500Ω	16Ω	920AB1					
		Tap ④						
		8Ω, 4Ω						

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				
			SHERWOOD PART No.	HOLDER	FUSE	BUSS PART No.	
M1	3AG S/B	1 1/4 125V			31301.5 (3AG - S/B - 1 1/4)	MDL 1 1/4	HOLDER HIKP

MISCELLANEOUS

ITEM No.	PART NAME	SHERWOOD PART No.	NOTES
M2	Pilot Light		#1847. Some versions may use Type #47 Selector (Rotary, wafer type) Power (On-off) SPST (Rotary, wafer type) Loudness (In-out) DPDT (Rotary, wafer type) Rumble Filter (SPST - Slide Type) Phono Scratch Filter (SPST - Slide Type) Damping Factor (3 position - Slide Type) Phono Equalization (Pushbutton slide type)
M3	Switch		
M4	Switch		
M5	Switch		
M6	Switch		
M7	Switch		
M8	Switch Assy.		



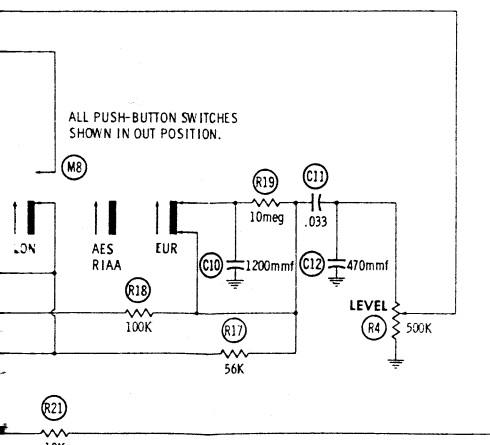
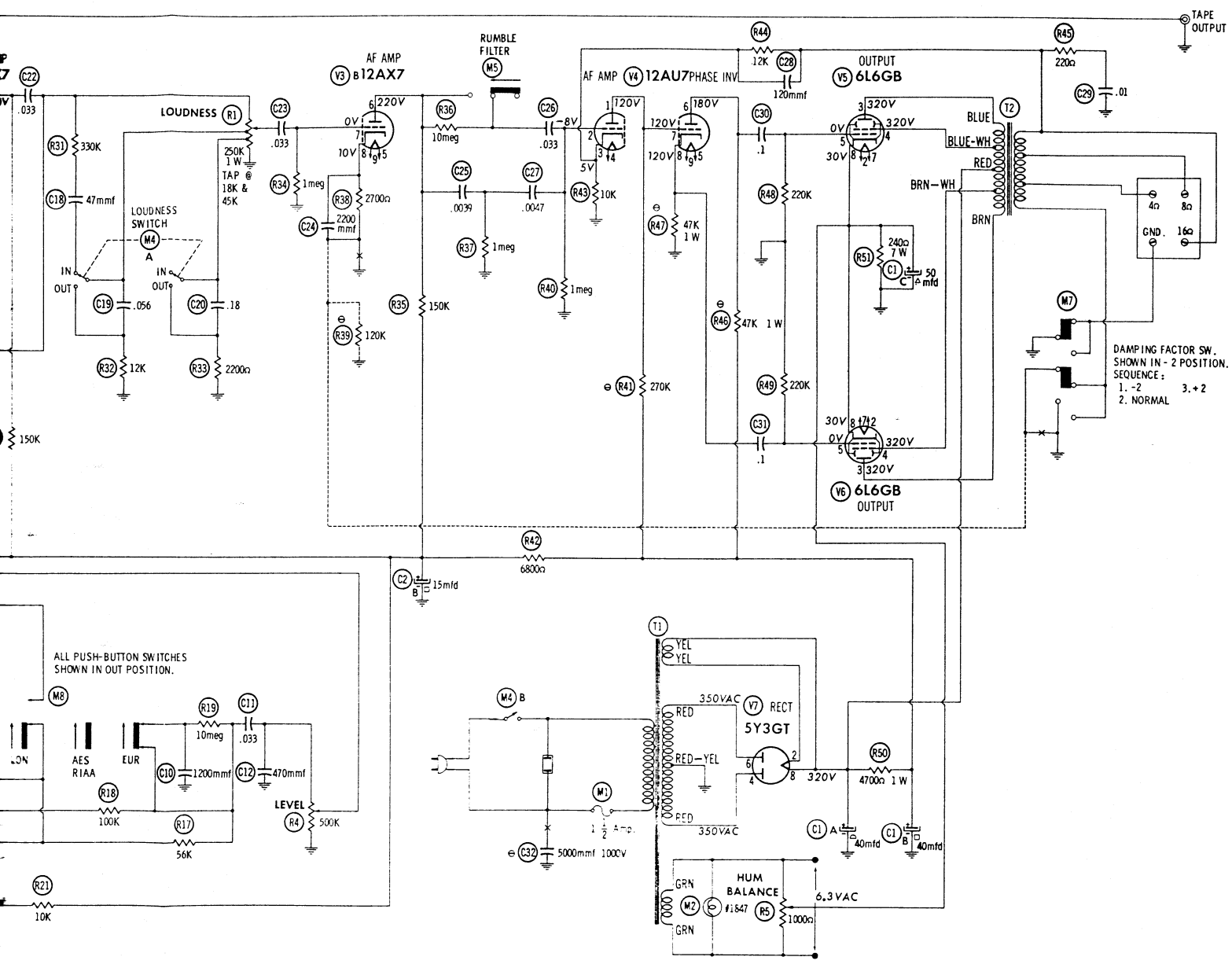
RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	Z729	1.850K	0 Ω	1500 Ω	600 Ω	600 Ω	1130K	0 Ω	0 Ω	47K 11K
V2	12AX7	1.250K	1Meg	2700 Ω	600 Ω	600 Ω	111K	500K	50K	600 Ω
V3	12AX7	1170K	700K	2700 Ω	600 Ω	600 Ω	1170K	1Meg	2700 Ω	600 Ω
V4	12AU7A	1.275K	1Meg	10K	600 Ω	600 Ω	150K	275K	47K	600 Ω
V5	6L6GB	TP	600 Ω	111 Ω	1.2.5 Ω	220K	NC	600 Ω	240 Ω	
V6	6L6GB	TP	600 Ω	111 Ω	1.2.5 Ω	220K	TP	600 Ω	240 Ω	
V7	5Y3GT	NC	150K	NC	60 Ω	NC	60 Ω	TP	150K	

1. MEASURED FROM PIN 8 OF V7.
 2. MEASURED WITH PHONO SCRATCH FILTER SWITCH CLOSED.
 3. MEASURED FROM PIN 8 OF V2.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION

1. DC volt
 2. AC volt
 3. Socket c
 4. Measure
 5. Line vol
 6. Nominal
 7. variation
 8. All com



ALL PUSH-BUTTON SWITCHES SHOWN IN OUT POSITION.

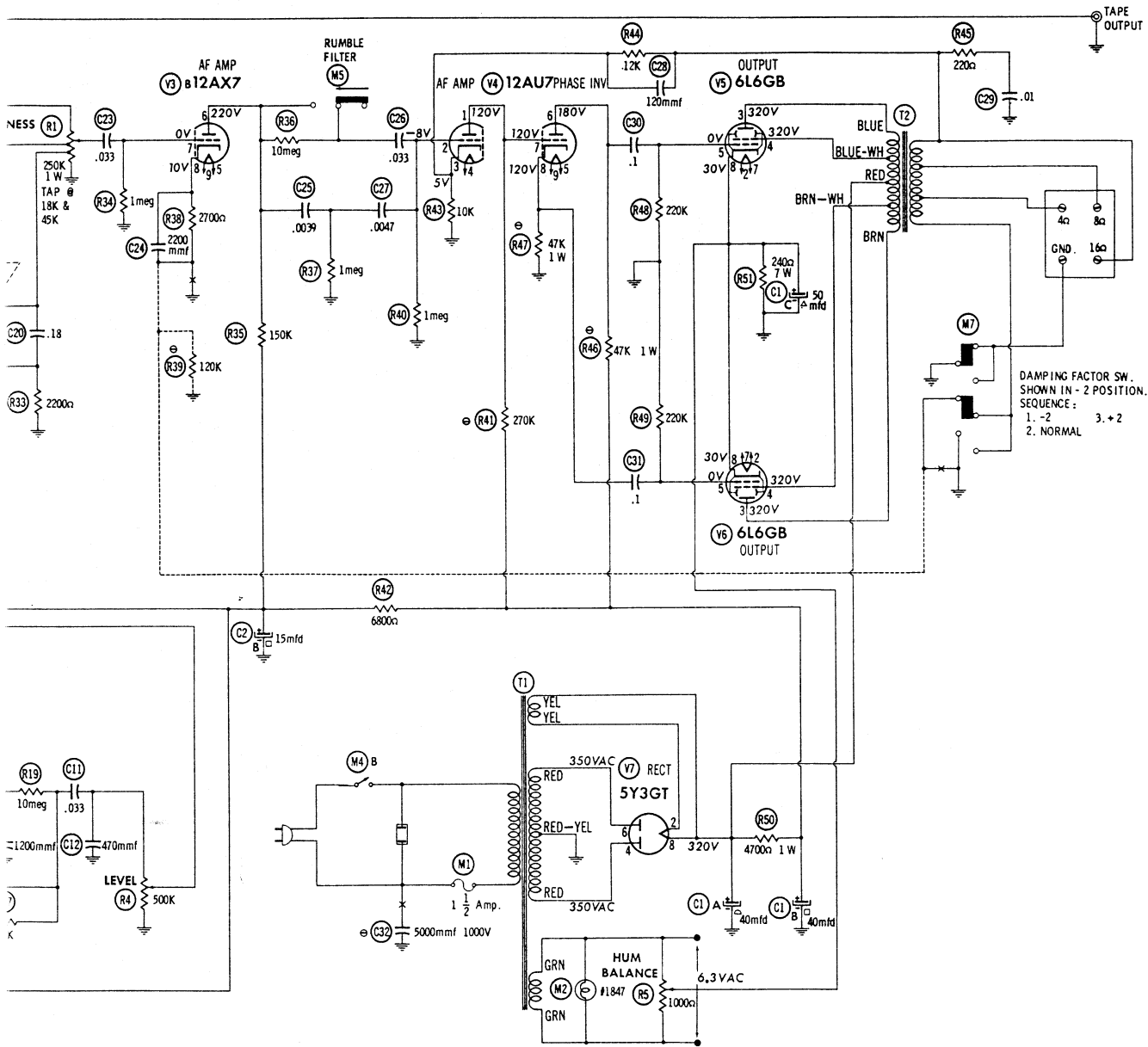
RESISTANCE READINGS

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
* 850K	0Ω	1500Ω	600Ω	600Ω	† 130K	0Ω	0Ω	47K • 1K
† 250K	1Meg	2700Ω	600Ω	600Ω	† 11K	500K	50K	600Ω
† 170K	700K	2700Ω	600Ω	600Ω	† 170K	1Meg	2700Ω	600Ω
* 275K	1Meg	10K	600Ω	600Ω	† 50K	275K	47K	600Ω
TP	600Ω	† 11Ω	† 2.5Ω	220K	NC	600Ω	240Ω	
TP	600Ω	† 11Ω	† 2.5Ω	220K	TP	600Ω	240Ω	
NC	150K	NC	60Ω	NC	60Ω	TP	150K	

† MEASURED FROM PIN 8 OF V7.
 • MEASURED WITH PHONO SCRATCH FILTER SWITCH CLOSED.
 * MEASURED FROM PIN 8 OF V2.

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

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION



DC READINGS

	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	600Ω	†130K	0Ω	0Ω	47K 11K
V2	600Ω	†11K	500K	50K	600Ω
V3	600Ω	†170K	1Meg	2700Ω	600Ω
V4	600Ω	†50K	275K	47K	600Ω
V5	220K	NC	600Ω	240Ω	
V6	220K	TP	600Ω	240Ω	
V7	NC	60Ω	TP	150K	

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 ± 15% in voltage and resistance readings.
6. All controls at minimum, proper output load connected.

V7.
SCRATCH FILTER SWITCH CLOSED.
V2.

ALTERNATE
ON

**SHERWOOD
MODEL S-1000**

**SHERWOOD
MODEL S-1000**



**SHERWOOD
MODEL S-1000**

TRADE NAME	Sherwood Model S-1000	
MANUFACTURER	Sherwood Electronic Laboratories, Inc., 2802 W. Cullom Ave., Chicago 18, Ill.	
TYPE SET	AC Operated 5 Channel Audio Amplifier	
TUBES (Seven)	Types EF86/Z729 Preamplifier, 12AX7 1st. AF Amplifier, 12AX7 2nd. AF Amplifier, 12AU7A 3rd. AF Amp. -Phase Inv., (2) 6L6GB Output, 5Y3GT Rectifier	
POWER SUPPLY	110-120 Volts AC-60 Cycles	RATING .55 Amp. @ 117 Volts AC