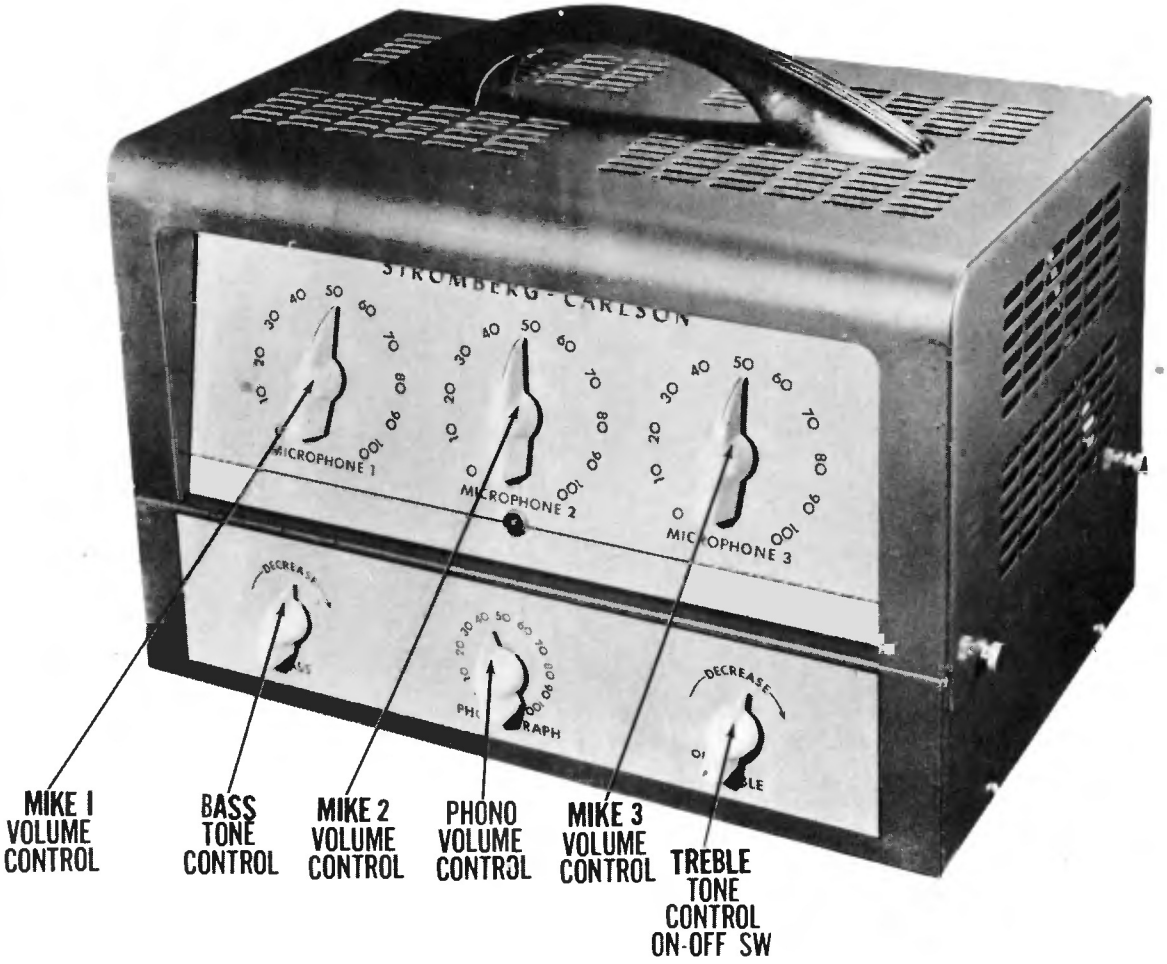
STROMBERG-CARLSON
MODEL AU-33



STROMBERG-CARLSON
MODEL AU-33

TRADE NAME	Stromberg-Carlson, Model AU-33
MANUFACTURER	Stromberg-Carlson Co., 100 Carlson Rd., Rochester, New York
TYPE SET	AC Operated Audio Amplifier
TUBES (EIGHT)	Types (3)6SJ7 Mic. 1, 2 and 3 Amp., 6SF5 Mixer, 6N7 AF Amp.-Phase Inv., (2) 6L6G Power Output, 5U4G Rectifier
POWER SUPPLY	110-120 Volts AC — RATING 1.2 Amp. @ 117 Volts AC

HOWARD W. SAMS & CO., INC. • Indianapolis 1, Indiana

PARTS LIST AND DESCRIPTIONS

STROMBERG-CARLSON
MODEL AU-33

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		STROM-CARL PART No.	STANDARD REPLACEMENT		
V1	Mic. 1 Amplifier	35754	6SJ7	8N	
V2	Mic. 2 Amplifier	35754	6SJ7	8N	
V3	Mic. 3 Amplifier	35754	6SJ7	8N	
V4	AF Amplifier	41486	6SF5	6AB	
V5	AF Amp.-Phase Inv.	41131	6N7	8B	
V6	Power Output	35756	6L6G	7AC	
V7	Power Output	35756	6L6G	7AC	
V8	Rectifier	35758	5U4G	5T	

CAPACITORS

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

ITEM No.	RATING		REPLACEMENT DATA						IDENTIFICATION CODES AND INSTALLATION NOTES
	CAP.	VOLT	STROM-CARL PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	SPRAGUE PART No.	
C1A	30	500	48320	AF88K		UP4450		TVL-2830	▲ Filter
B	30	500							▲ Filter
C2A	10	350	34898	AF222J5A		UP111135C		TVL-4723	▲ Decoupling
B	10	300							■ Decoupling
C	10	250							▲ Decoupling
D	20	50							AF Amp. Cathode
C3	50	50	46327	PRS50/50		BR505		TVA-1308	Output Cathode
C4	50	25	41157	PRS25/50		BR502A		TVA-1208	Mic. 1 Amp. Cathode
C5	50	25	41157	PRS25/50		BR502A		TVA-1206	Mic. 2 Amp. Cathode
C8	50	25	41157	PRS25/50		BR502A		TVA-1206	Mic. 3 Amp. Cathode
C7	.1	400	25483	P488-1	DF-104	PTE4P1		4TM-P1	Mic. 1 Amp. Screen
C8	.1	400	25483	P488-1	DF-104	PTE4P1		4TM-P1	Mic. 2 Amp. Screen
C9	.1	400	25483	P488-1	DF-104	PTE4P1		4TM-P1	Mic. 3 Amp. Screen
C10	.05	400	40632	P488-05	DF-503	PTE4S5		4TM-S5	Audio Coupling
C11	.05	400	40832	P488-05	DF-503	PTE4S5		4TM-S5	Audio Coupling
C12	.05	400	40632	P488-05	DF-503	PTE4S5		4TM-S5	Audio Coupling
C13	500	500	27009	1468-0005	D6-501	5W5T5	GP2K-500	1FM-35	Toen Comp.
C14	.01	400	25485	P488-01	D6-103	PTE4S1	821-01	4TM-S1	Tone Comp.
C15	100	500	24559	1468-0001	D6-101	5W5T1	GP1K-100	1FM-31	Tone Comp.
C16	.03	400	27782	P688-03		PTE6S3		6TM-S3	AF Amp. Cathode
C17	.05	400	40632	P488-05	DF-503	PTE4S5		6TM-D3	Audio Coupling
C18	.003	400	46315	P688-003	D6-302	PTE6D3	GP2M-003	4TM-P1	Tone Comp.
C19	.1	400	25483	P488-1	DF-104	PTE4P1		4TM-P1	Audio Coupling
C20	.1	400	25483	P488-1	DF-104	PTE4P1		4TM-P1	Audio Coupling
C21	.1	400	25483	P488-1	DF-104	PTE4P1			Filament Bypass

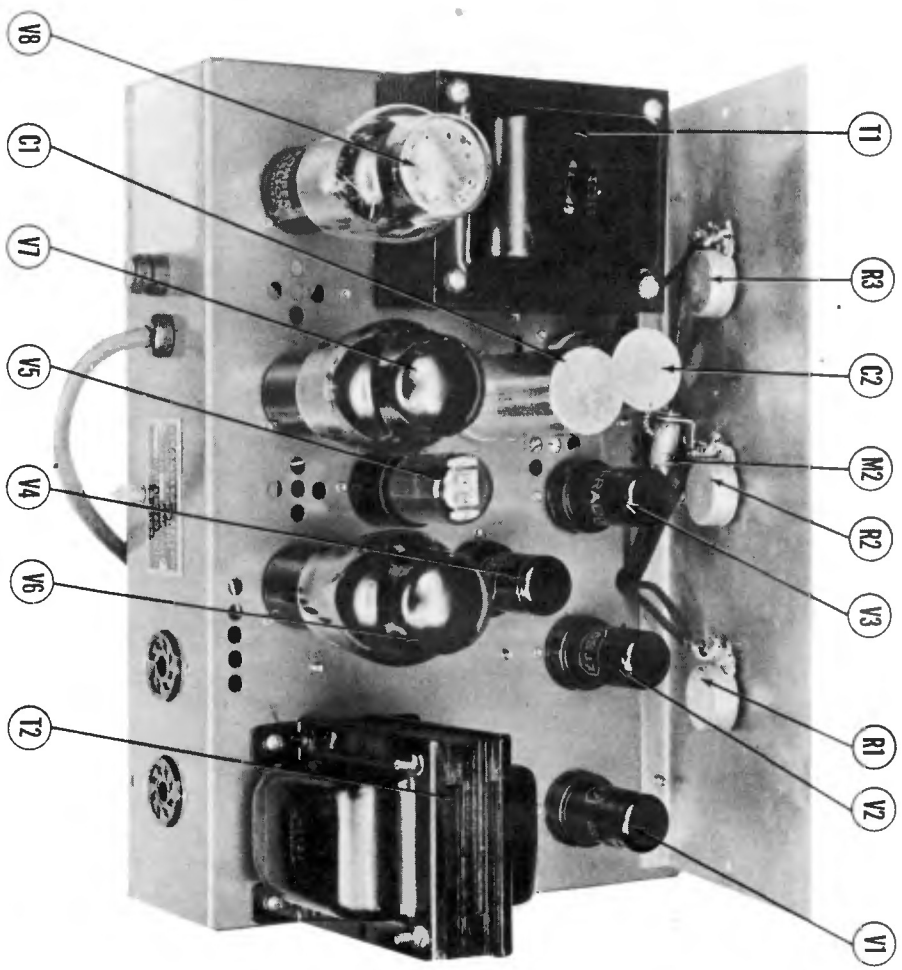
CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESIST-ANCE	WATTS	STROM-CAR PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	1Meg	½	46313	Q13-137	AM-63-Z	B-70	Mike 1 Volume Control
B	Shaft		Not Req	Not Req	FS-3	Not Req	Attach to R1A per instructions
R2A	1Meg	½	46313	Q13-137	AM-63-Z	B-70	Mike 2 Volume Control
B	Shaft		Not Req	Not Req	FS-3	Not Req	Attach to R2A per instructions
R3A	1Meg	½	48313	Q13-137	AM-63-Z	B-70	Mike 3 Volume Control
B	Shaft		Not Req	Not Req	FS-3	Not Req	Attach to R3A per instructions
R4A	5Meg	½	46314	Q11-141	AM-85-S	B-87	Bass Control
B	Shaft		Not Req	Not Req	RS-3	Not Req	Attach to R4A per instructions
R5A	1Meg	½	46313	Q13-137	AM-63-Z	B-70	Phono Volume Control
B	Shaft		Not Req	Not Req	FS-3	Not Req	Attach to R5A per instructions
R6A	1Meg	½	39838	Q13-137	AM-63-Z	B-70-S	Treble Control
B	Shaft		Not Req	Not Req	FS-3	Not Req	Attach to R6A per instructions
C	Switch		Not Req	78-1	SW-A	Not Req	Attach to R6A per instructions

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	STROM-CARL PART No.	IRC PART No.	
R7	1Meg	½	28191	BTS-1Meg	Mike 1 Pre-Amp. Grid
R8	1500Ω	½	28160	BTS-1500	Mike 1 Pre-Amp. Cathode
R9	1.5Meg	½	28193	BTS-1.5Meg	Mtke 1 Pre-Amp. Screen

CHASSIS—TOP VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

R10	150KΩ	½	27840	BTS-150K	Mike 1 Pre-Amp. Plate
R11	1Meg	½	28191	BTS-1Meg	Mike 2 Pre-Amp. Grid
R12	1500Ω	½	28160	BTS-1500	Mik3 2 Pre-Amp. Cathode
R13	1.5Meg	½	28193	BTS-1.5Meg	Mike 2 Pre-Amp. Screen
R14	150KΩ	½	27640	BTS-150K	Mike 2 Pre-Amp. Plate
R15	1Meg	½	28191	BTS-1Meg	Mike 3 Pre-Amp. Grid
R16	1500Ω	½	28180	BTS-1500	Mike 3 Pre-Amp. Cathode
R17	1.5Meg	½	28193	BTS-1.5Meg	Mike 3 Pre-Amp. Screen
R18	150KΩ	½	27840	BTS-150K	Mike 3 Pre-Amp. Plate
R19	22KΩ	½	27407	BTS-22K	Decoupling
R20	1Meg	½	28191	BTS-1Meg	Isolation
R21	1Meg	½	28191	BTS-1Meg	Isolation
R22	1Meg	½	28191	BTS-1Meg	Isolation
R23	1Meg	½	28191	BTS-1Meg	Isolation
R24	680KΩ	½	28189	BTS-680K	1st. AF Amp. Grid
R25	1200Ω	½	28159	BTS-1200	1st. AF Amp. Cathode
R26	100KΩ	½	28006	BTS-100K	1st. AF Amp. Plate
R27	680KΩ	½	28189	BTS-680K	AF Amp. Grid
R28	100KΩ	½	28006	BTS-100K	AF Amp. Plate
R29	4700Ω	½	28166	BTS-4700	Phase Inv. Grid
R30	100KΩ	½	28006	BTS-100K	Phase Inv. Plate
R31	1500Ω	½	28160	BTS-1500	AF Amp. - Phase Inv. Cathode
R32	100KΩ	½	28006	BTS-100K	Output Grid
R33	100KΩ	½	28006	BTS-100K	Output Grid
R34	250	10	46358	1 3/4A-250	Output Cathode - Wire Wound
R35	470KΩ	½	28187	BTS-470K	Feedback
R36	2500Ω	10	46359	1 3/4A-2500	Filter - Wtre Wound
R37	5000Ω	10	46361	1 3/4A-5000	Filter - Wire Wound
R38	15KΩ	10	46383	1 3/4A-15K	Voltage Divider - Wire Wound

TRANSFORMER (POWER)

ITEM No.	RATING				REPLACEMENT DATA			
	PRI.	SEC. 1	SEC. 2	SEC. 3	STROM-CARL PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.
T1	117VAC @1.2A	780VCT .150ADC	5VAC @3A	6.3VAC @3.6A	33026	PM8411 ①	P-2954 ①	PH-145 ①

① Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		STROM-CAR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T2	3.9KΩ CT	200Ω Taps 4Ω 8Ω 18Ω 25Ω	120Ω CT	10Ω Taps .32Ω .5Ω .62Ω 6.6Ω	46326	A-3651		PCO-80	① Drill new mounting holes.

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA				REMARKS
			STROMBERG-CARLSON PART No.		LITTELFUSE PART No.		
			FUSE	HOLDER	FUSE	HOLDER	
M1	3AG	3Amp.	25156	27958	312003	342001	

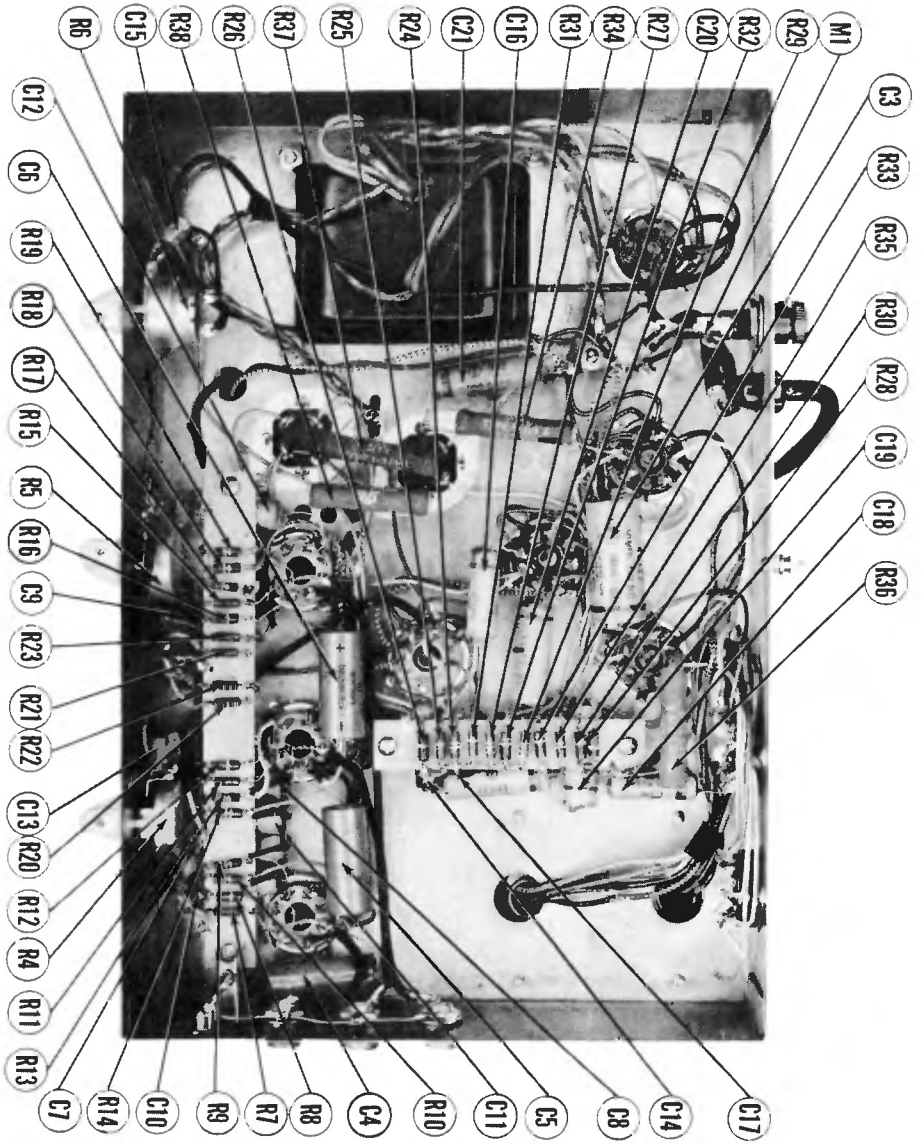
DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					STROM-CARL PART No.		
M2	Bayonet	7.5	.2	White	28025		Type #51

MISCELLANEOUS

ITEM No.	PART NAME	STROM-CARLSON PART No.	NOTES
	Knob	32667	Large
	Knob	39840	Small

CHASSIS—BOTTOM VIEW



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STROMBERG-CARLSON MODEL AU-33

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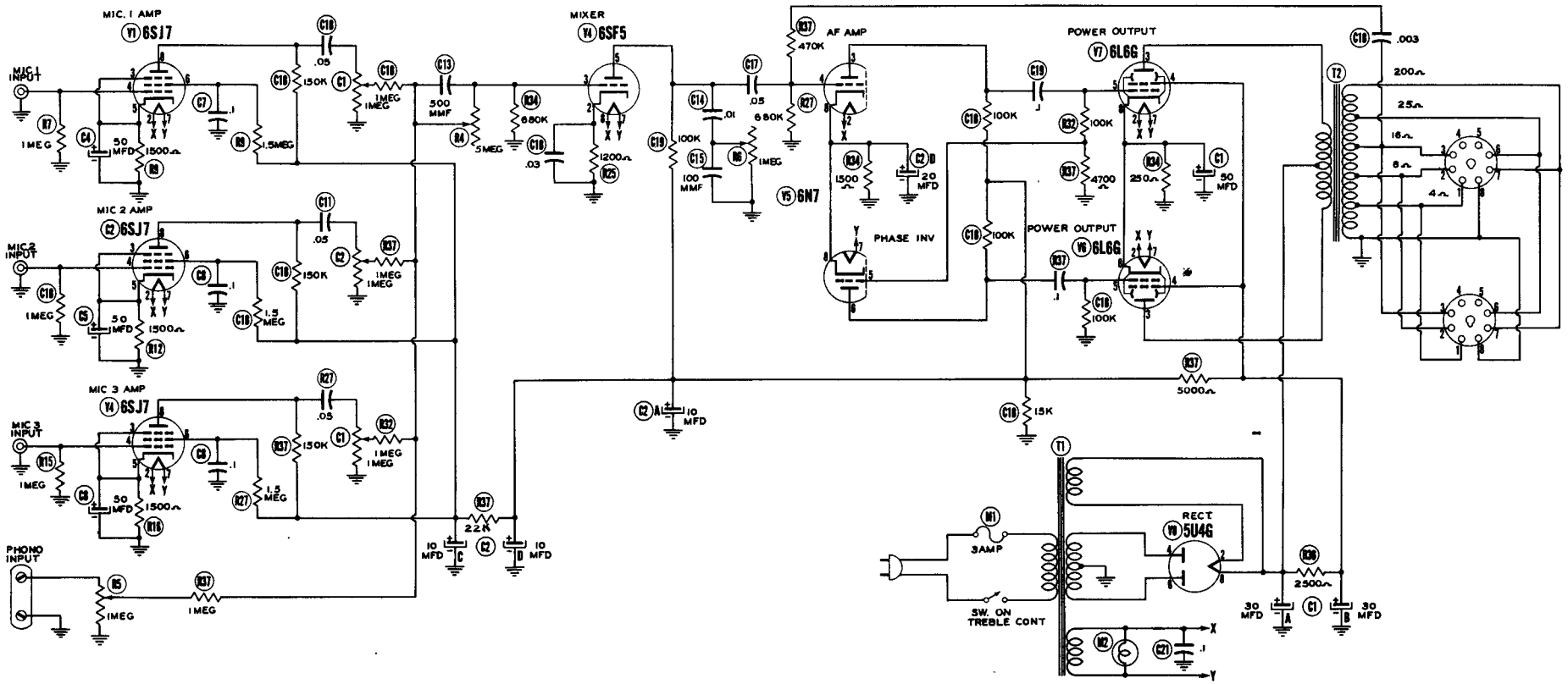

VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V 1	6SJ7	0V	¶	.9VDC	0V	.9VDC	25VDC	¶	135VDC	
V 2	6SJ7	0V	¶	.9VDC	0V	.9VDC	25VDC	¶	135VDC	
V 3	6SJ7	0V	¶	.9VDC	0V	.9VDC	25VDC	¶	135VDC	
V 4	6SF5	0V	1.2VDC	0V	0V	135VDC	0V	¶	¶	
V 5	6N7	0V	¶	130VDC	0V	0V	130VDC	¶	3VDC	
V 6	6L6G	0V	¶	410VDC	350VDC	0V	0V	¶	30VDC	
V 7	6L6G	0V	¶	410VDC	350VDC	0V	0V	¶	30VDC	
V 8	5U4G	0V	420VDC	0V	370VAC	0V	370VAC	0V	420VDC	

¶ 6.3VAC MEASURED ACROSS FILAMENTS.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	6SJ7	0Ω	Inf.	1.5KΩ	1Meg	1.5KΩ	†1.5Meg	Inf.	†180KΩ
V 2	6SJ7	0Ω	Inf.	1.5KΩ	1Meg	1.5KΩ	†1.5Meg	Inf.	†180KΩ
V 3	6SJ7	0Ω	Inf.	1.5KΩ	1Meg	1.5KΩ	†1.5Meg	Inf.	†180KΩ
V 4	6SF5	0Ω	1.2KΩ	200KΩ	Inf.	†105KΩ	Inf.	Inf.	Inf.
V 5	6N7	0Ω	Inf.	†105KΩ	680KΩ	4.7KΩ	†105KΩ	Inf.	1.5KΩ
V 6	6L6G	0Ω	Inf.	†68Ω	†2.5KΩ	100KΩ	Inf.	Inf.	250Ω
V 7	6L6G	0Ω	Inf.	†62Ω	†2.5KΩ	105KΩ	Inf.	Inf.	250Ω
V 8	5U4G	Inf.	20KΩ	Inf.	50Ω	Inf.	50Ω	Inf.	20KΩ

† MEASURED FROM PIN 8 OF V8

THE COOPERATION OF THE MANUFACTURER OF THIS EQUIPMENT MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFACT STANDARD NOTATION SCHEMATIC

134-10

1 - DC Voltage measurements are at 20,000 ohms per volt; 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.