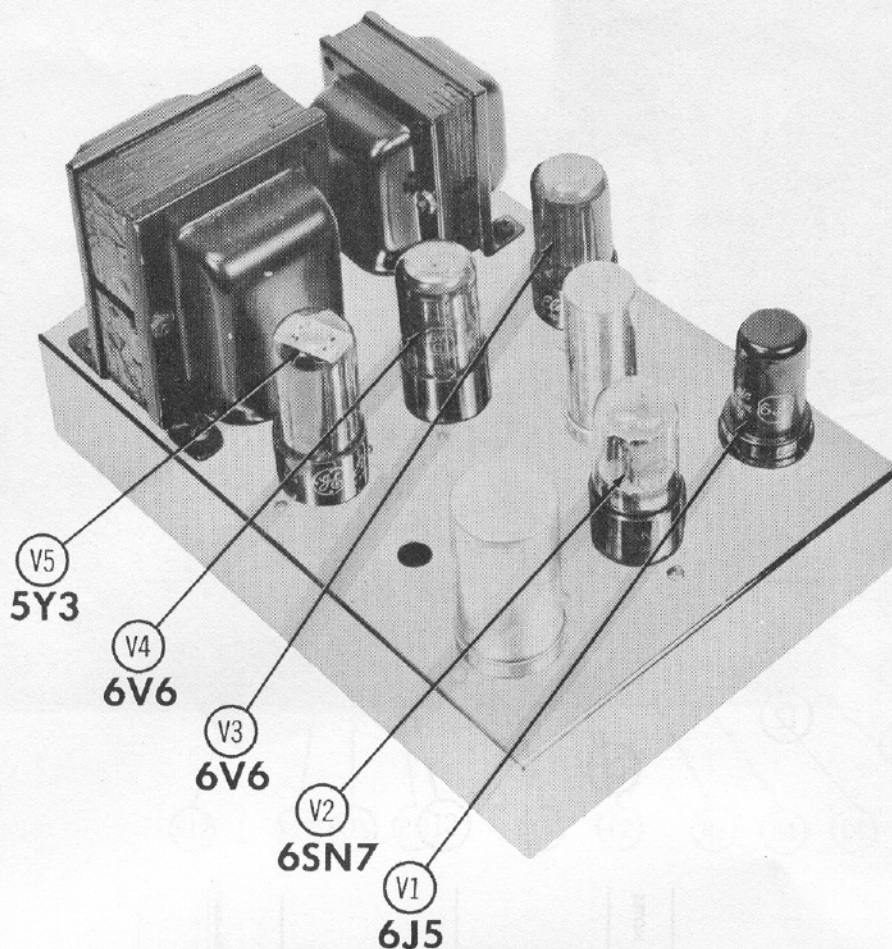




RADIO CRAFTSMEN
MODEL 2



RADIO CRAFTSMEN
MODEL 2

TRADE NAME	Radio Craftsmen Model 2		
MANUFACTURER	Radio Craftsmen Inc., 4401 N. Ravenswood Ave., Chicago 40, Ill.		
TYPE SET	AC Operated Audio Amplifier With Self-Contained Power Supply		
TUBES (FIVE)	Types 6J5 1st. AF Amp., 6SN7GT 2nd. AF Amp. - Phase Inv., (2) 6V6GT Audio Output, 5Y3GT Rectifier		
POWER SUPPLY	105-125 Volts AC-60 Cycles	RATING	.60 Amp. @ 117 Volts AC

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

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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

RADIO CRAFTSMEN
MODEL 2

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		Radio Craftsmen PART No.	STANDARD REPLACEMENT		
V1	1st. AF Amplifier	6J5	6J5	6Q	
V2	2nd. AF Amplifier-Phase Inverter	6SN7GT	6SN7GT	8BD	
V3	Audio Output	6V6GT	6V6GT	7AC	
V4	Audio Output	6V6GT	6V6GT	7AC	
V5	Rectifier	5Y3GT	5Y3GT	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.

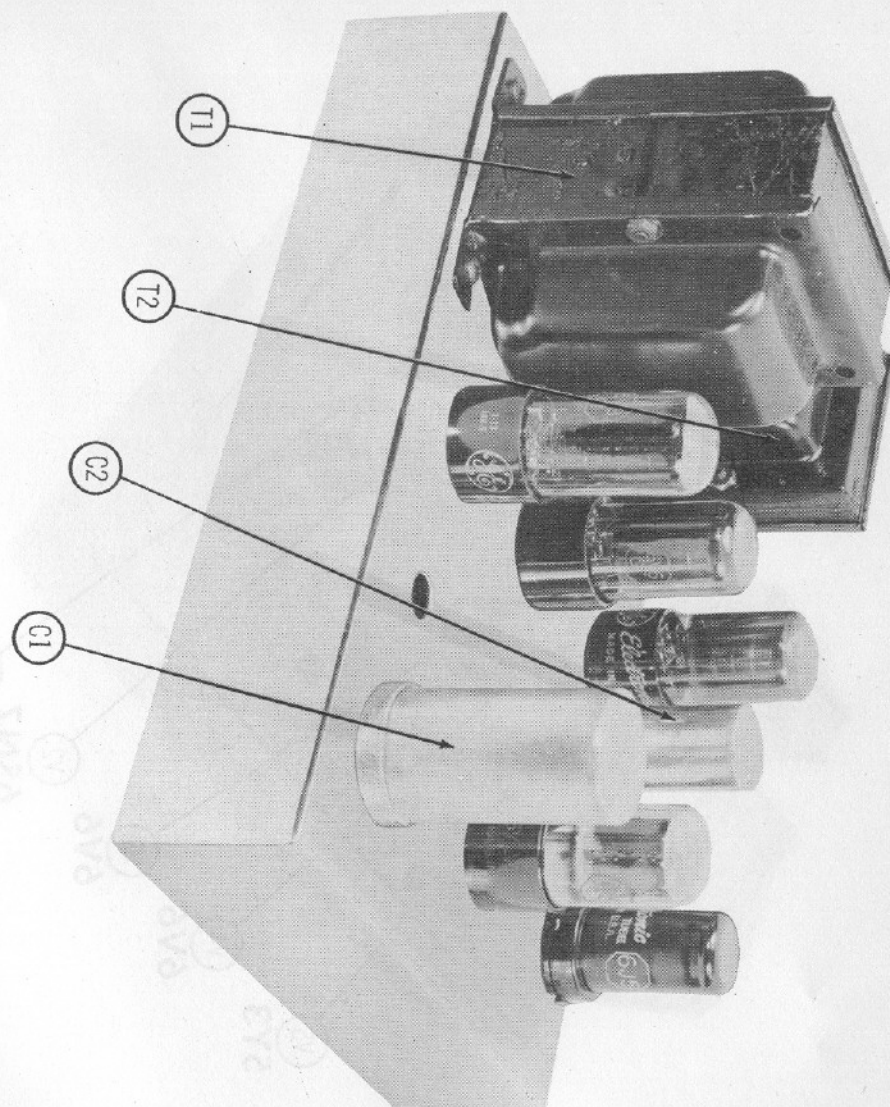
ITEM No.	RATING		REPLACEMENT DATA							NOTES
	CAP.	VOLT	Radio Craftsmen PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1A	.60	450		AFH4-124		UP18245		FP476	TVL-2770	
B	.20	450								
C2A	.40	250		AFH3-98		UP415S30C		FP333	TVL-3570	
B	.10	200								
C	.25	25								
C3	.1	400		P488-1	DF-104	PTE4P1	GP2K-561	PT401	4TM-P1	
C4	.560	500		SI560	D8-561			UC-5356	5GA-T56	
C5	.047	400		P488-047	DF-503	PTE4S47		PT4147	4TM-S47	
C6	.047	400		P488-047	DF-503	PTE4S47		PT4147	4TM-S47	

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	Radio Craftsmen PART No.	IRC PART No.	
R1	470KΩ	1/2		BTS-470K	AF Amp. Grid
R2	1500Ω	1/2		BTS-1500	1st. AF Amp. Cathode
R3	68KΩ	1/2		BTS-68K	1st. AF Amp. Plate
R4	33KΩ	1/2		BTS-33K	1st. AF Amp. Plate
R5	470KΩ	1/2		BTS-470K	2nd. AF Amp. Grid
R6	3900Ω	1/2		BTS-3900	2nd. AF Amp. Cathode
R7	2700Ω	1/2		BTS-2700	Tone Compensation
R8	220KΩ	1/2		BTS-220K	2nd. AF Amp. Plate
R9	47KΩ	1/2		BTS-47K	Phase Inv. Cathode
R10	47KΩ	1/2		BTS-47K	Phase Inv. Plate
R11	470KΩ	1/2		BTS-470K	Output Grid
R12	300Ω	4			Output Cathode-Wire Wound
R13	470KΩ	1/2		BTS-470K	Output Grid
R14	22KΩ	1		BTA-22K	Voltage Divider
R15	2200Ω	7		1 3/4A-2250	Filter - Wire Wound
R16	4.7Ω	1/2			Filament Dropping - Wire Wound - See Note 1
R17	4.7Ω	1/2			Filament Dropping - Wire Wound - See Note 2
R18	15KΩ	1/2		BTS-15K	Feedback Network

Note 1. Some models use a 2.2Ω resistor in this application.

Note 2. Not used in all models.



PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

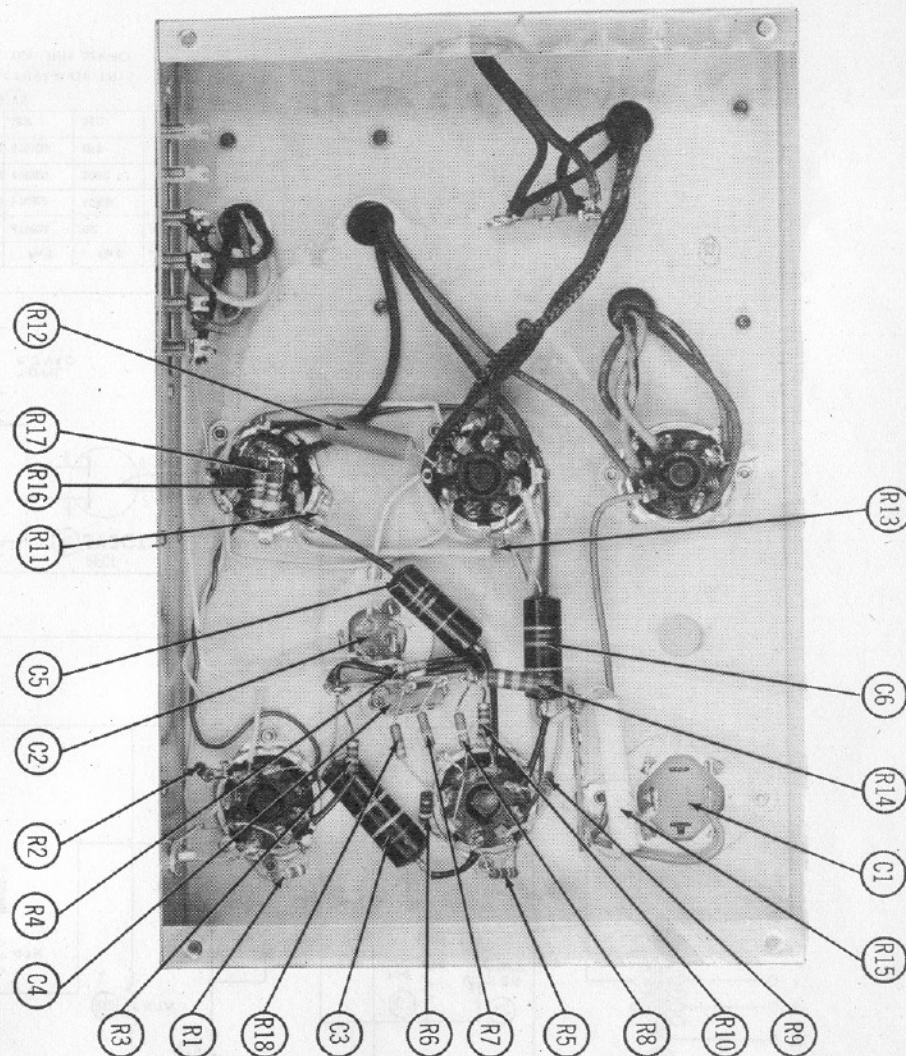
ITEM No.	RATING				REPLACEMENT DATA				
	IMPEDANCE		DC RES.		Radio Craftsmen PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.
	PRI.	SEC.	PRI.	SEC.					
T1	117VAC @ .62A	650VCT .068ADC	5VAC @ 1.92A.	6.3VAC @ 1.75A.		PC-8408	P-3151 ①	PV-70 ①	

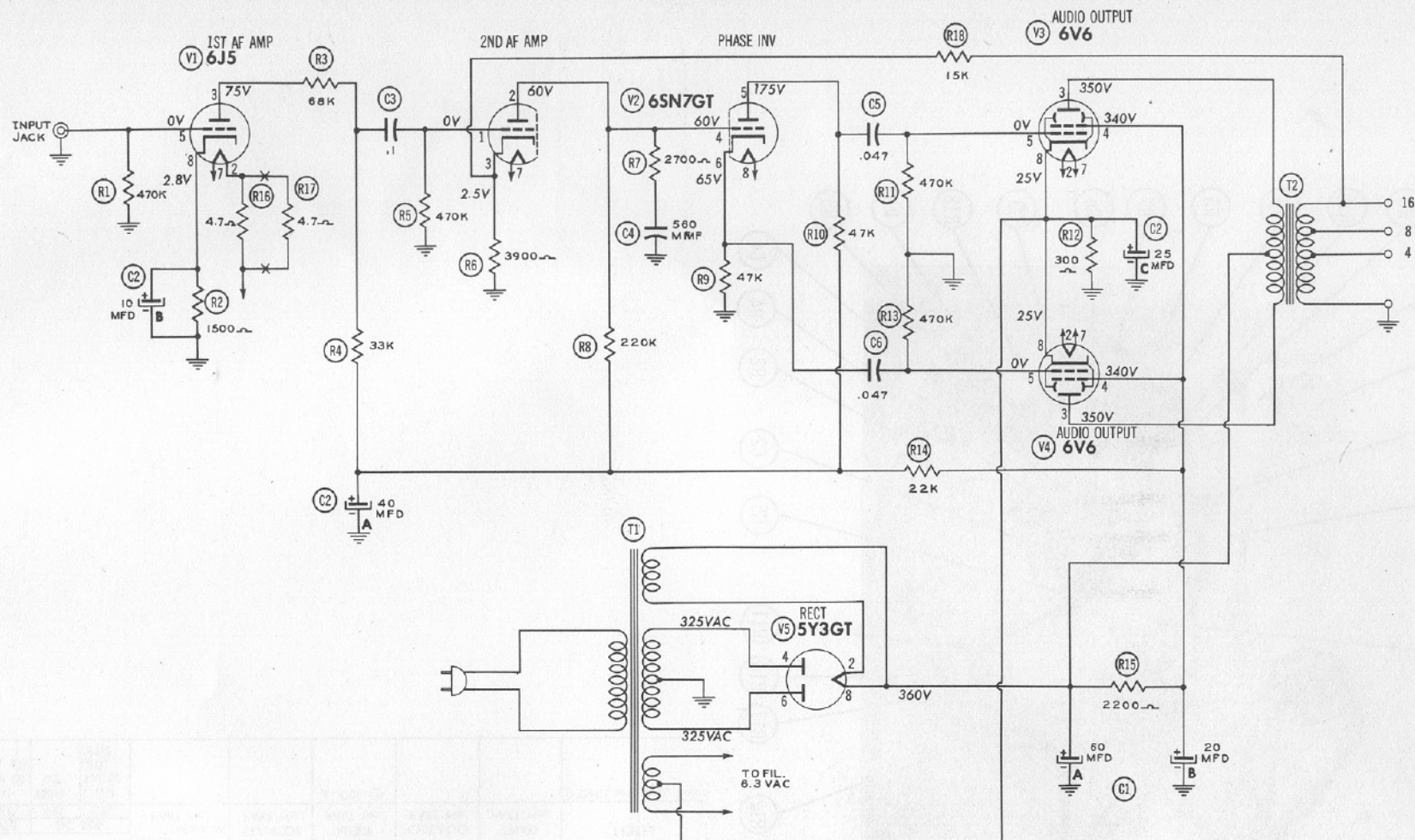
① Drill new mtg. holes

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA					NOTES
	IMPEDANCE		DC RES.		Radio Craftsmen PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	
	PRI.	SEC.	PRI.	SEC.						
T2	6.7KΩ CT	16Ω Tap @ 8Ω, 4Ω	760Ω CT	1.17Ω Tap @ 8Ω, .67Ω			A-3101 ①			① Drill new mtg. holes

CHASSIS—BOTTOM VIEW





RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	6J5	0Ω	300Ω	†125KΩ	0Ω	470KΩ	0Ω	300Ω	1.5KΩ
V 2	6SN7GT	470KΩ	†245KΩ	†3KΩ	†245KΩ	170KΩ	47KΩ	300Ω	300Ω
V 3	6V6GT	0Ω	300Ω	†380Ω	†2.2KΩ	470KΩ	300Ω	300Ω	300Ω
V 4	6V6GT	0Ω	300Ω	†380Ω	†2.2KΩ	470KΩ	INF	300Ω	300Ω
V 5	5Y3GT	INF	80KΩ	INF	60Ω	INF	54Ω	INF	80KΩ

† MEASURED FROM PIN 8 OF V5.

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

A PHOTOFAC STANDARD NOTATION SCHEMATIC
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- 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 $\pm 15\%$ in voltage and resistance readings.
- 6 - All controls at minimum, proper output load connected.