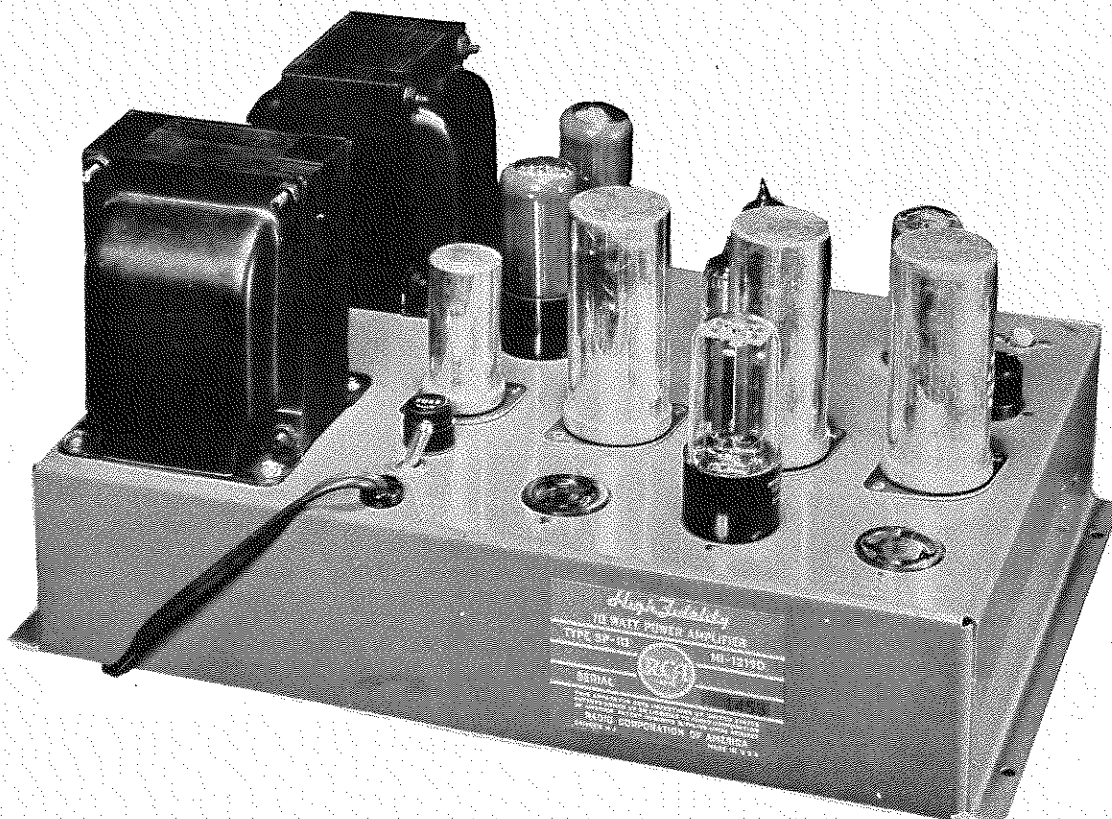




RCA VICTOR  
MODEL SP-10 (Ch. MI-12190)



RCA VICTOR  
MODEL SP-10 (Ch. MI-12190)

TRADE NAME	RCA Victor Model SP-10 (MI-12190)	
MANUFACTURER	RCA Victor Div., Eng. Prod. Dept., Radio Corp. of America, Camden, N.J.	
TYPE SET	AC Operated 10 Watt Audio Amplifier	
TUBES (Six)	Types 12AU7 AF Amp.-Phase Inv., (2) 6AU6 Driver, (2) 6V6GT Audio Output 5Y3GT Rectifier	
POWER SUPPLY	105-125 Volts AC-50/60 Cycles	RATING .8 Amp. @ 117 Volts AC

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

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# PARTS LIST AND DESCRIPTIONS

RCA VICTOR  
MODEL SP-10 (ME-12190)

# CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		REMARKS BASE TYPE	NOTES
		RCA Victor PART No.	STANDARD REPLACEMENT		
V1	AF Amp.- Phase Inverter	12AU7	12AU7	9A	
V2	Driver	6AU6	6AU6	7BK	
V3	Driver	6AU6	6AU6	7BK	
V4	Audio Output	6V6GT	6V6GT	7S	
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 CAP. VOLT	REPLACEMENT DATA				NOTES
		RCA Victor PART No.	AEROVOX PART No.	CORNEILL DUBILIER PART No.	ERIE PART No.	
C1	80	18950	AFH-55	A051	FD148	TVL-1735
C2	80	18950	AFH-55	A051	FD148	TVL-1735
C3A	4.40	58567	AFH-57	B045	FP238	TVL-2764
C4A	50	98644	AFH-06	B008	FP214	TVL-2320
C5	47	73787	P288-47	P12P47	PT4047	2TM-547
C6	500	39046	P488-1	CUB4P1	PT401	MS-37
C7	1	73553	P488-1	DF-104	PT401	4TM-P1
C8	.047	73553	P488-047	DF-503	PT4147	4TM-P1
C9	.047	73553	P488-047	CUB4S47	PT4147	4TM-P1
C10	.047	73553	P488-047	DF-503	PT4147	4TM-P1

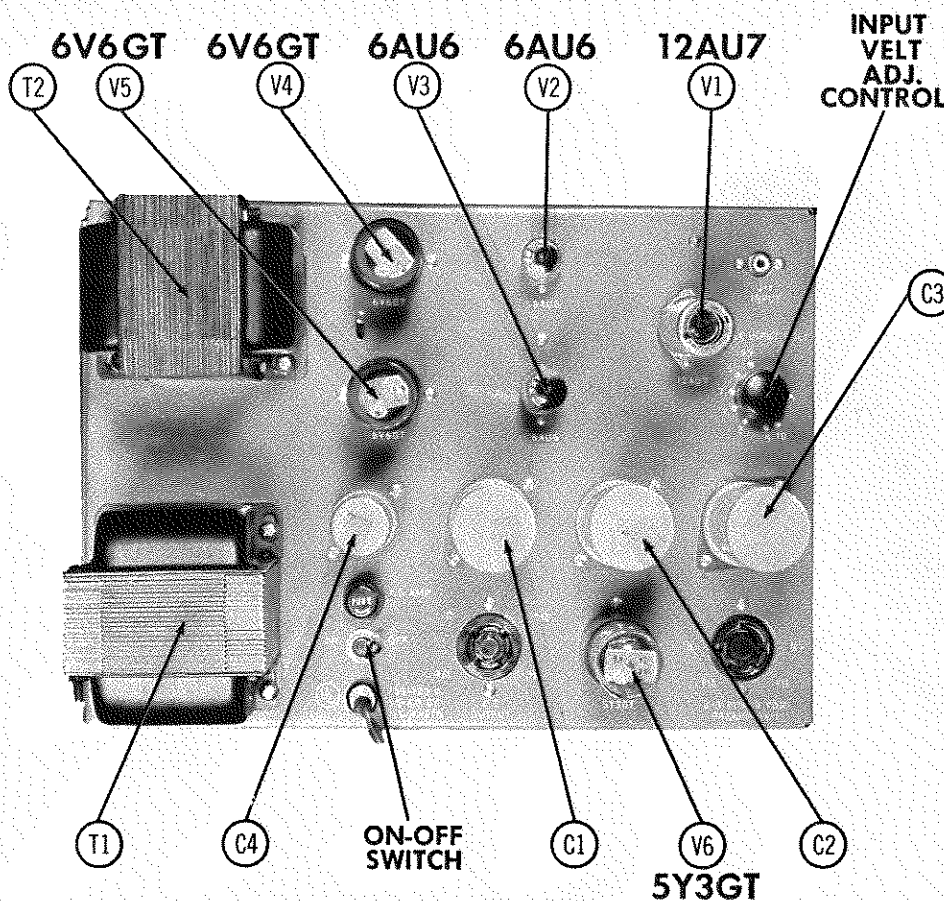
## CONTROLS

ITEM No.	RATING RESIST. WATTS	REPLACEMENT DATA			INSTALLATION NOTES
		RCA Victor PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	100KΩ	98647	Q11-28	B-40	U-41
R1B	50KΩ	98647	Q11-28	B-40	U-41
R2	50KΩ	98647	Q11-28	B-40	U-41
R3	50KΩ	98647	Q11-28	B-40	U-41
R4	50KΩ	98647	Q11-28	B-40	U-41
R5	50KΩ	98647	Q11-28	B-40	U-41
R6	50KΩ	98647	Q11-28	B-40	U-41
R7	50KΩ	98647	Q11-28	B-40	U-41
R8	50KΩ	98647	Q11-28	B-40	U-41
R9	50KΩ	98647	Q11-28	B-40	U-41
R10	50KΩ	98647	Q11-28	B-40	U-41
R11	50KΩ	98647	Q11-28	B-40	U-41
R12	50KΩ	98647	Q11-28	B-40	U-41
R13	50KΩ	98647	Q11-28	B-40	U-41
R14	50KΩ	98647	Q11-28	B-40	U-41

Note: This amplifier is intended for use with a pre-amplifier or tuner. The maximum input voltage control is set for the highest input voltage that will normally be fed into the amplifier and then the volume is controlled from either the pre-amplifier or tuner.

## RESISTORS

ITEM No.	RATING OHMS WATT	REPLACEMENT DATA		NOTES
		RCA Victor PART No.	IRC PART No.	
R1	4700Ω	502247	BTS-4700 5%	
R2	8600Ω 5%	502268	BTS-8600 5%	
R3	220KΩ 5%	502432	BTS-220K 5%	
R4	39KΩ 5%	98642	BTS-39K 5%	
R5	39KΩ 5%	98642	BTS-39K 5%	
R6	39KΩ 5%	98642	BTS-39K 5%	
R7	1Meg 5%	502510	BTS-1Meg 5%	
R8	330KΩ 5%	502433	BTS-330K 5%	
R9	1800Ω 5%	98643	BTS-1800 5%	
R10	330KΩ 5%	502433	BTS-330K 5%	
R11	1Meg 5%	502510	BTS-1Meg 5%	
R12	330KΩ 5%	502433	BTS-330K 5%	
R13	1Meg 5%	502510	BTS-1Meg 5%	
R14	1800Ω 5%	98643	BTS-1800 5%	



# PARTS LIST AND DESCRIPTIONS (Continued)

## TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA				
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	Stancor PART No.	Merit PART No.	Triad PART No.	Thordarson PART No.
T1	117VAC @ 7.8A	688VCT @ 3A	5VAC @ 1.74A	98679	PM-8410	P-3173	R-14A	TS-24R080

① Drill new mounting holes.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING			REPLACEMENT DATA				
	PRI.	SEC. 1	SEC. 2	RCA Victor PART No.	Stancor PART No.	Merit PART No.	Triad PART No.	Thordarson PART No.
T2	6.750 CT	160 tap @ 80, 40		98684	A-3101	H4103	S-31A	22844

① Drill new mounting holes.

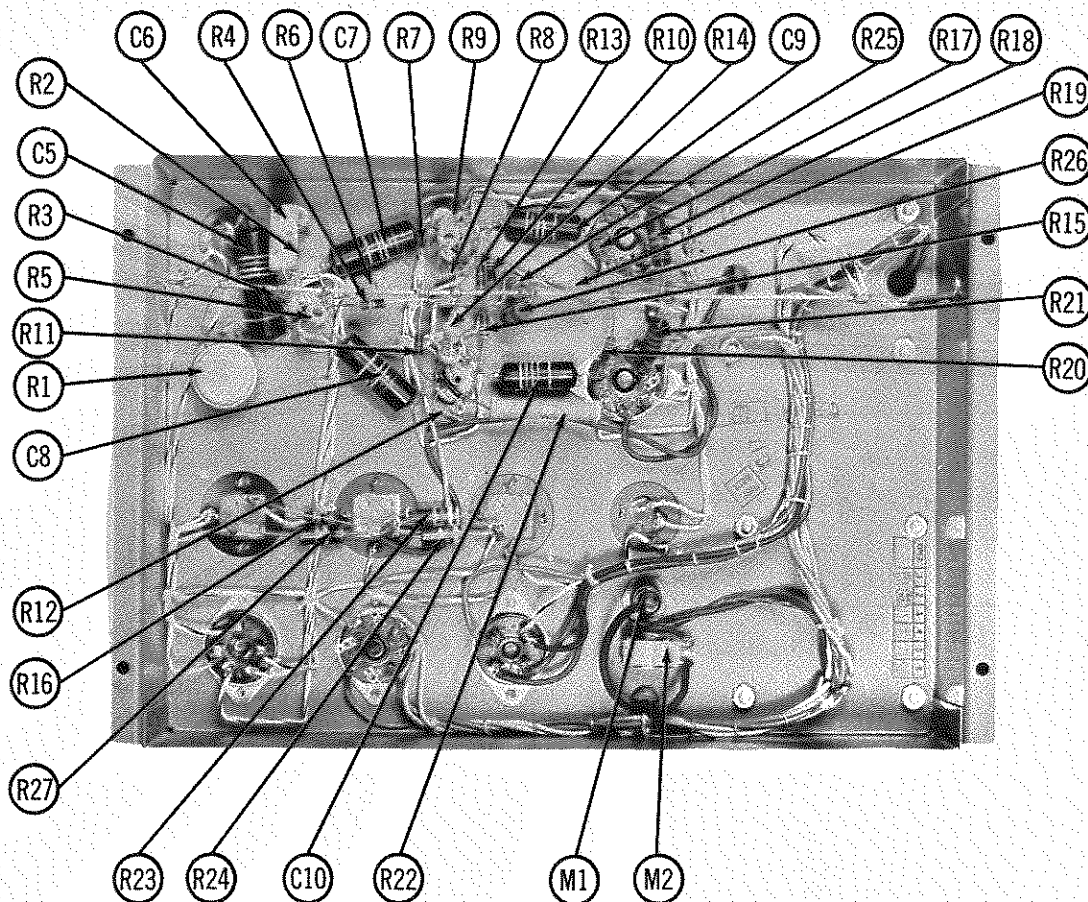
## FUSES

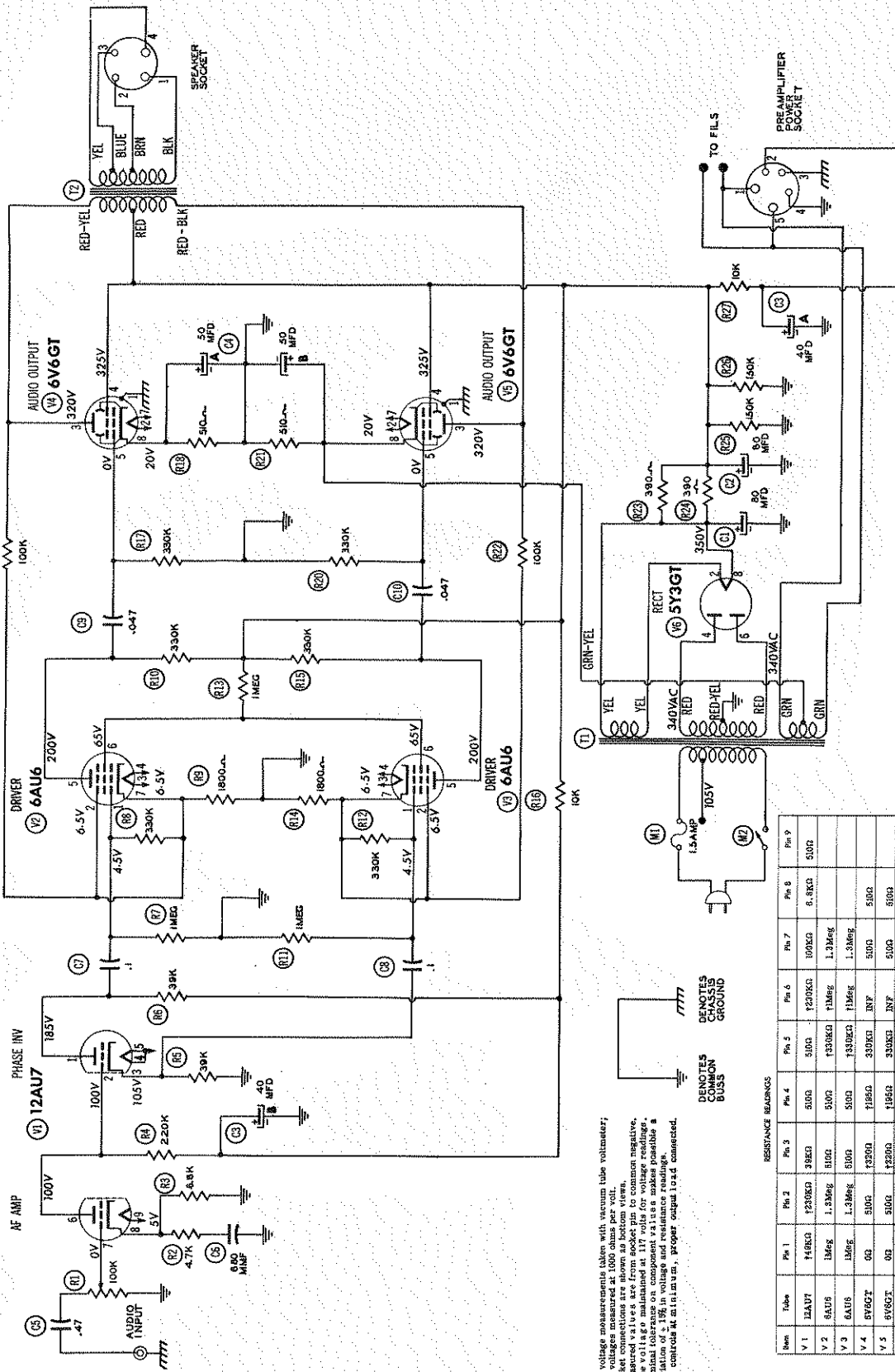
ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			RCA Victor PART No.	FUSE	HOLDER	BUSS PART No.
M1	3AG S/B	1.5A 125V	98682	48894	31301.5 (3AG S/B 1.5A)	MDL 1 6/10 HXP

## MISCELLANEOUS

ITEM No.	PART NAME	RCA Victor PART No.	NOTES
M2	Switch Knob	98841 72180	Off/on (toggle) Input Control

# CHASSIS—BOTTOM VIEW





1. DC voltage measurements taken with vacuum tube voltmeter;
2. AC voltages measured at 1000 ohms per volt.
3. Measured values are from socket pins to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a
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
V 1	12AU7	14.9KΩ	12.0KΩ	39KΩ	500Ω	500Ω	12.0KΩ	100KΩ	6.8KΩ	5.0KΩ
V 2	6AU6	1.3MΩ	1.3MΩ	510Ω	13.0KΩ	11.0KΩ	1.3MΩ	1.3MΩ	1.3MΩ	1.3MΩ
V 3	6AU6	1.3MΩ	1.3MΩ	510Ω	13.0KΩ	11.0KΩ	1.3MΩ	1.3MΩ	1.3MΩ	1.3MΩ
V 4	6V6GT	6Ω	510Ω	13.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ
V 5	5Y3GT	0Ω	500Ω	12.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ
V 6	5Y3GT	0Ω	500Ω	12.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ	11.0KΩ

† MEASURED FROM PIN # QF V6

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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