



RCA VICTOR  
MODEL 45-EY-4 (Ch. RS140)



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TRADE NAME	RCA Victor Model 45-EY-4(Ch. RS 140)	
MANUFACTURER	RCA Victor Div., Radio Corp. of America, Camden, N. J.	
TYPE SET	AC Operated Audio Amplifier with 45 RPM Automatic Record Changer	
TUBES (FOUR)	Types 12SC7 AF Amp.-Phase Inv., (2) 35L6GT Audio Output, 35Z5GT Rectifier	
POWER SUPPLY	110-120 Volts AC - 60 Cycle	RATING .300 Amp. @117 Volts AC

FOR SERVICE INFORMATION ON RECORD CHANGER UNIT RP190-2 - SEE PHOTOFACT SET #144 - FOLDER #7

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

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# PARTS LIST AND DESCRIPTIONS

## TUBES (SYLVANIA or Equivalent)

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# CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	NOTES
		RCA VICTOR PART No.	STANDARD REPLACEMENT		
V1	AF Amplifier - Phase Inverter	12SC7	12SC7	8S	
V2	Audio Output	35L6GT	35L6GT	7AC	
V3	Audio Output	35L6GT	35L6GT	7AC	
V4	Rectifier	35Z5GT	35Z5GT	6AD	

## 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	RCA VICTOR PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.		SPRAGUE PART No.
C1A	80	150	75980	PRS150/80-40		BRD8415		TVA-1418	Filter (Red)
B	50	150						TVA-1414	Filter (Green)
C2	5	50	74521	PRS150/4		BR550		TVA-1303	AF Amp. Cathode
C3	.047	400	73553	P488-047	DF-503	PTE4S47		4TM-547	Phono Isolation
C4	.01	200	73561	P488-01	D6-103	PTE4S1	GP2-333-103	4TM-S1	Audio Coupling
C5	68		93514	SI68	D6-680	5W5Q7	GPIK-680	5GA-Q68	Tone Comp.
C6	.0068	400	73789	P488-0068	D6-682	PTE6D68	GP2-333-682	6TM-D68	Tone Comp.
C7	.015	400	73797	P488-015		PTE6S15		6TM-S15	Tone Comp.
C8	.0022	600	73595	P688-0022	D6-222	PTE6D22	GP2-333-222	6TM-D22	Tone Comp.
C9	.0056	400	73788		D6-562		GP2-333-562		Audio Coupling
C10	.01	400	73561	P488-01	D6-103	PTE4S1	GP2-333-103	4TM-S1	Audio Coupling
C11	.01	400	73561	P488-01	D6-103	PTE4S1	GP2-333-103	4TM-S1	Audio Output Plate
C12	.01	400	73561	P488-01	D6-103	PTE4S1	GP2-333-103	4TM-S1	Audio Output Plate
C13	.1	400	73551	P488-1	DF-104	PTE4P1		4TM-P1	RF Bypass
C14	.047	400	73553	P488-047	DF-503	PTE4S47		4TM-547	Line Isolation

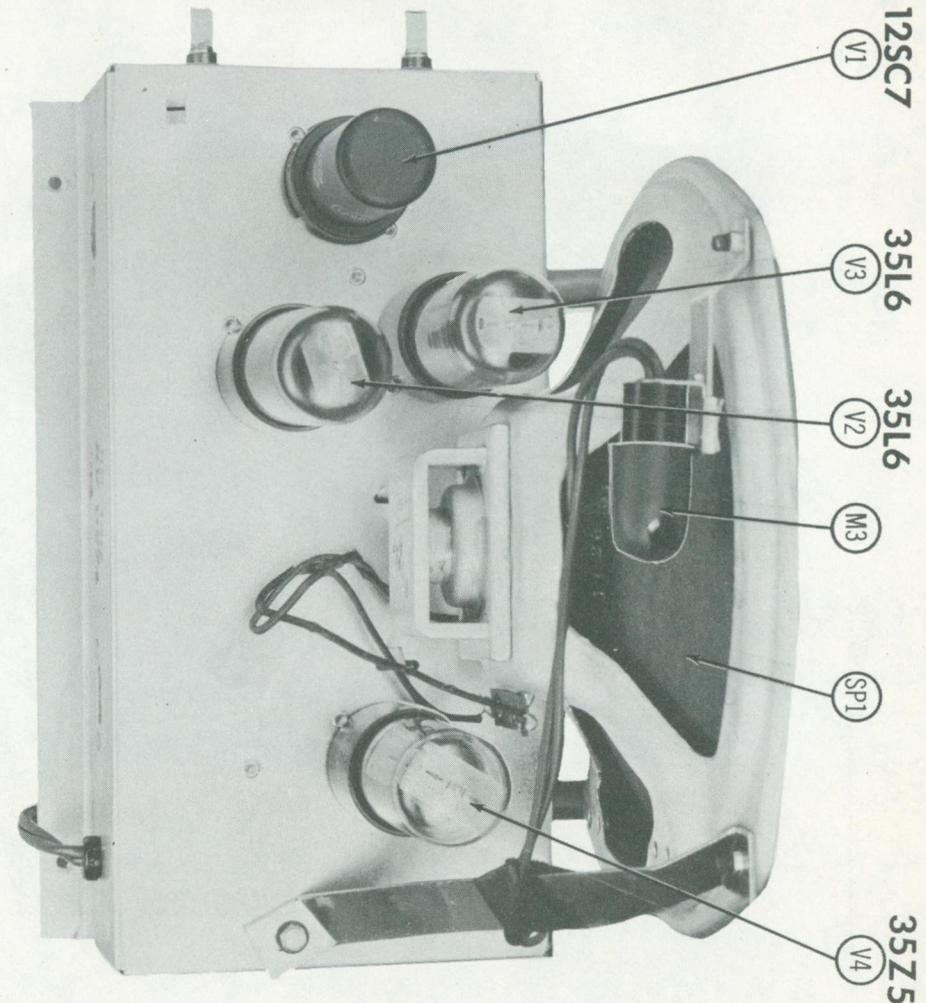
## CONTROLS

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESISTANCE	WATTS	RCA VICTOR PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	2Meg	$\frac{1}{2}$	75538	Q11-139	AG-83-S	B-75	Tone Control
B	Shaft		Not Req.	Not Req.	FS-3	Not Req.	Attach to R1A per instructions
R2A	1.5Meg	$\frac{1}{2}$	70342		AT-95		Volume Control - Tapped @ 150K $\Omega$ & 300K $\Omega$
B	Shaft		Not Req.		FS-3		Attach to R2A per instructions
C	Switch		Not Req.		SW-A		Attach to R2A per instructions

## RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	RCA VICTOR PART No.	IRC PART No.	
R3	2.2Meg	$\frac{1}{2}$	504522	BTS-2.2Meg	Phono Shunt
R4	560K $\Omega$	$\frac{1}{2}$	503456	BTS-560K	Tone Compensation
R5	39K $\Omega$	$\frac{1}{2}$	503339	BTS-39K	Tone Compensation
R6	27K $\Omega$	$\frac{1}{2}$	503327	BTS-27K	Tone Compensation
R7	3900 $\Omega$	$\frac{1}{2}$	503239	BTS-3900	AF Amp. Cathode
R8	220K $\Omega$	$\frac{1}{2}$	503422	BTS-220K	AF Amp. Plate
R9	15K $\Omega$	$\frac{1}{2}$	503315	BTS-15K	Phase Inverter Grid
R10	220K $\Omega$	$\frac{1}{2}$	503422	BTS-220K	Phase Inverter Plate
R11	91K $\Omega$	$\frac{1}{2}$			Tone Compensation - See Note
R12	470K $\Omega$	$\frac{1}{2}$	503447	BTS-470K	Output Grid
R13	82 $\Omega$	1	513082		Output Cathode
R14	470K $\Omega$	$\frac{1}{2}$	503447	BTS-470K	Output Grid
R15	1000 $\Omega$	1	514210	BTA-1000	Filter
R16	15 $\Omega$	1	514015		Surge Limiter
R17	150 $\Omega$	$\frac{1}{2}$	503115	BTS-150	Pilot Light Shunt

Note. Some Models use a 100K $\Omega$  Resistor in this application



## PARTS LIST AND DESCRIPTIONS (Continued)

### TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING				REPLACEMENT DATA				INSTALLATION NOTES
	IMPEDANCE		DC RES.		RCA VICTOR PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	
	PRI.	SEC.	PRI.	SEC.					
T1	5K $\Omega$ CT	3.6 $\Omega$	230 $\Omega$ CT	.4 $\Omega$	73008	A-3856 ①	A-2900 ①	RO-302 ①	① Bend Mtg. tabs down and mount in original chassis slots.

### SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			NOTES
	FIELD RES.	V. C. IMP.	RCA VICTOR PART No.	JENSEN PART No.	QUAM PART No.	
SPIA	P. M.	4.1 $\Omega$	74664	Mod. P8-T ST-119	8A21	
SPIB	7 $\frac{1}{2}$ "	3/4"				

### PHONO CARTRIDGE

ITEM No.	RCA VICTOR PART No.	REPLACEMENT DATA						REMARKS
		ASTATIC PART No.		SHURE PART No.		ELECTRO-VOICE PART No.		
		CARTRIDGE	NEEDLE	CARTRIDGE	NEEDLE	CARTRIDGE	NEEDLE	
M1	75575	CAC-J or AC-J	Q-33 A-1	W31AR	A53MG	34	0-1 or S-1	

ASTATIC, SHURE, AND ELECTRO VOICE NEEDLE LISTINGS SHOWN ABOVE ARE SPECIFIED FOR THE RESPECTIVE REPLACEMENT CARTRIDGES LISTED. FOR ORIGINAL CARTRIDGE NEEDLE REPLACEMENTS SEE BELOW.

### PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

ITEM No.	REPLACEMENT DATA			REMARKS
	RCA VICTOR PART No.	WALCO PART No.	JENSEN PART No.	
M2	75770	W-44MGS	M-74LP	

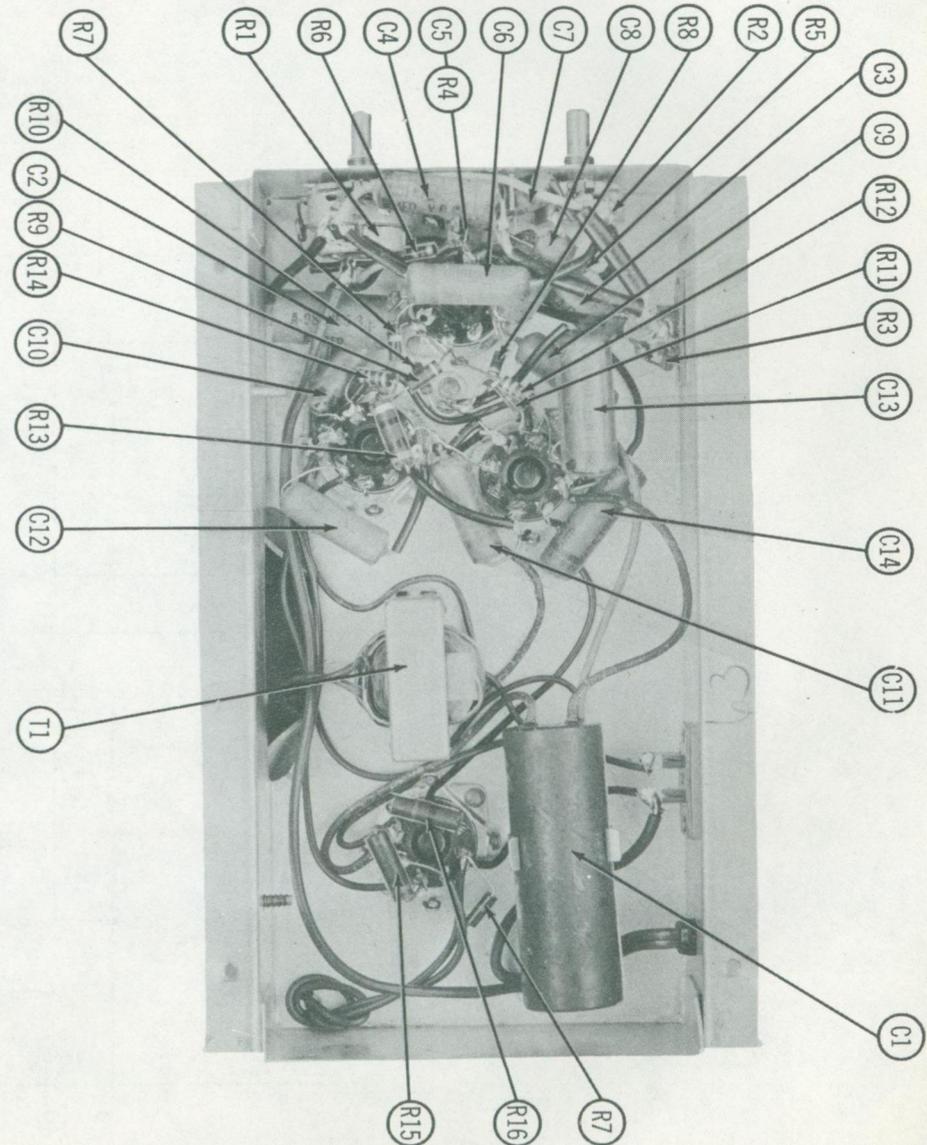
### DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					RCA VICTOR PART No.		
M3	Bayonet	7.5	.2	White	11765		Type #51

### MISCELLANEOUS

ITEM No.	PART NAME	RCA VICTOR PART No.	NOTES
	Cabinet	76778	Less Lid & Hinges For Cabinet Cabinet Lid
	Lid	76784	
	Hinge	85955	
	Knob	76719	

## CHASSIS—BOTTOM VIEW

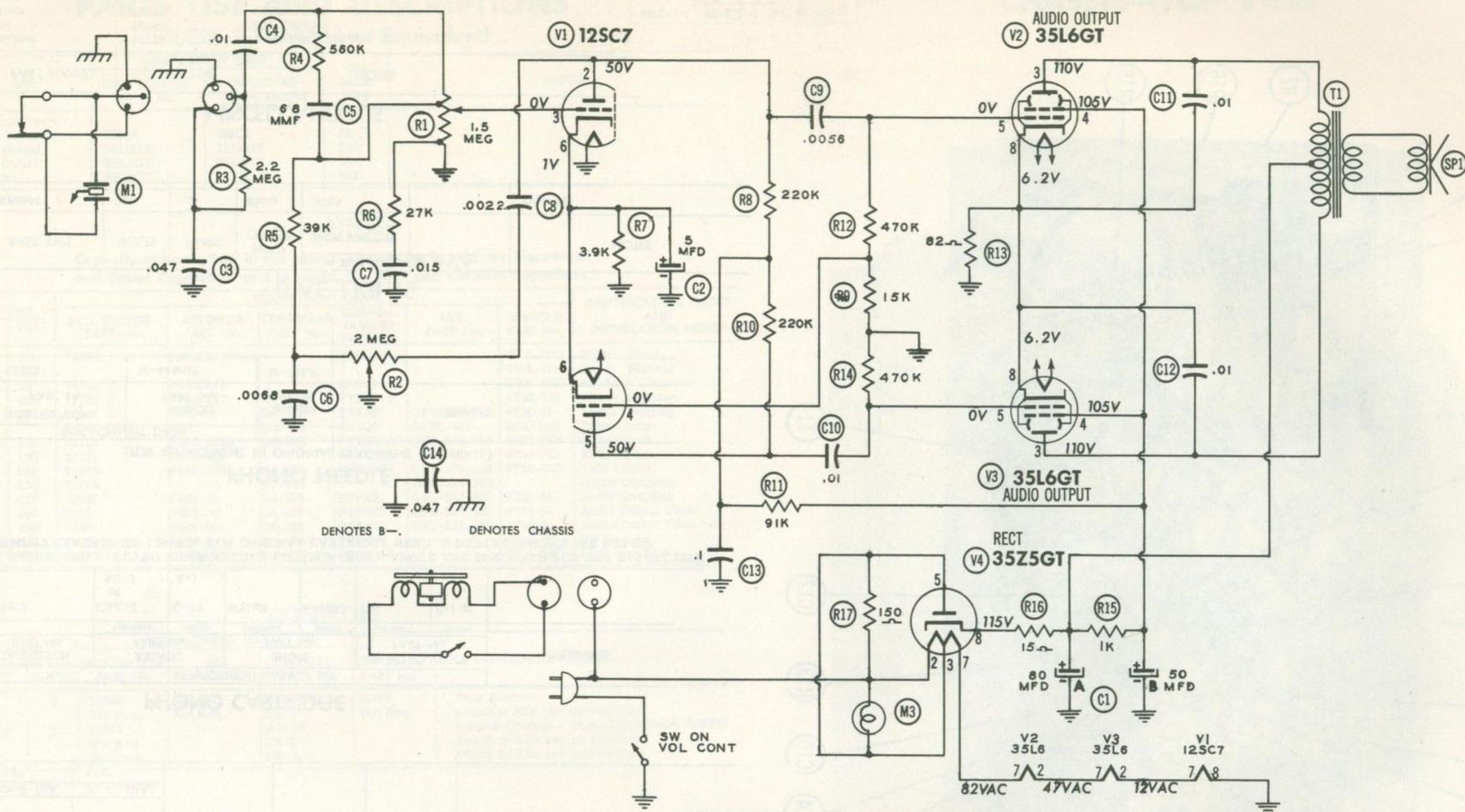


SET 173

FOLDER 11

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RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	12SC7	INF	†310KΩ	25Ω	15KΩ	†310KΩ	3.9KΩ	12Ω	0Ω
V 2	35L6GT	INF	47Ω	†130Ω	†1KΩ	485KΩ	0Ω	82Ω	82Ω
V 3	35L6GT	INF	12Ω	†130Ω	†1KΩ	470KΩ	0Ω	47Ω	82Ω
V 4	35Z5GT	INF	117Ω	109Ω	†1KΩ	109Ω	†15Ω	82Ω	70KΩ

† MEASURED FROM PIN 8 OF V4

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

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