

SYMPHONIC MODELS
508, 1604, 1607, 1618, 1695

MODEL 1604

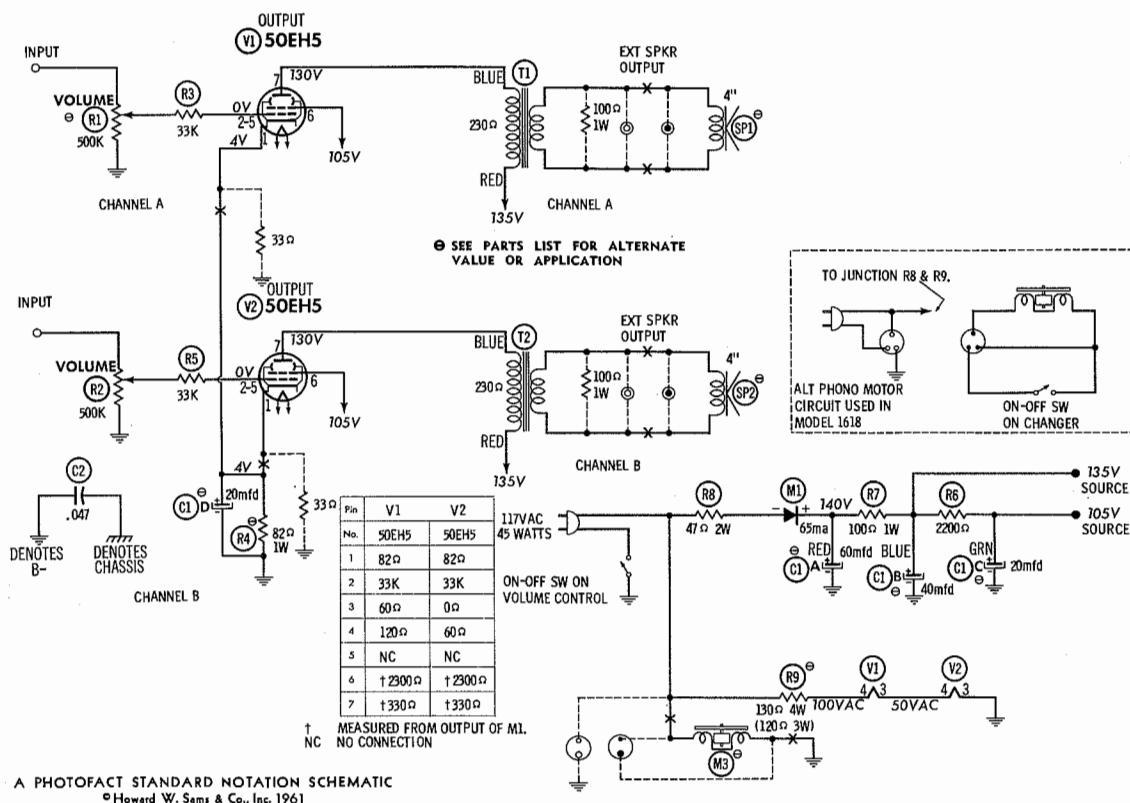
TRADE NAME Symphonic Models 508, 1604, 1607, 1618, 1695

MANUFACTURER Symphonic Radio & Electronic Corp., 235 Jersey Ave., New Brunswick, N. J.

TYPE SET AC Operated 2 Tube Stereo Phono Amplifier With Record Player

POWER SUPPLY 110 - 120 Volts AC, 60 Cycles RATING 45 Watts, .51 Amp. @ 117 Volts AC (Less Motor)

MODELS 1604 AND 1695 HAVE 3 SPEED MANUAL RECORD PLAYERS.
MODELS 508 AND 1607 HAVE 4 SPEED MANUAL RECORD PLAYERS.
MODEL 1618 HAS 4 SPEED AUTOMATIC RECORD CHANGER - FOR SERVICE INFORMATION - SEE
SIMILAR MONARCH UA8 - PHOTOFACT SET 381 FOLDER 11 OR RECORD CHANGER MANUAL RC-11


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PARTS LIST AND DESCRIPTIONS

TUBES

• GENERAL ELECTRIC • RAYTHEON • SYLVANIA •					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Channel A Output	50EH5	V2	Channel B Output	50EH5

ELECTROLYTIC CAPACITORS

RATING		REPLACEMENT DATA								
ITEM No.	CAP.	VOIT.	SYMPHONIC PART No.	AEROVOX PART No.	CORNELL DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES	
C1A	60	150		CE 138 ①	PR4-200	BERT84215	TCT3119	TDLT-3	TVAS-4545 *	
C	40	150				BBR20-150	TC45	TD-80-150		
C	20	150								
D	20	150		①						

① CID is not used in Model 1695.

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

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	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	.047 400V		P488N-047	DD-503	CUB4847	4DP-3-473	GEM-4147	4TM-S47

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA					INSTALLATION NOTES
	RESIST-ANCE	WATTS	SYMPHONIC PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R1A	500K	1/2	VC-157 ①	B-60-S	A47-500K-Z	Q13-133	U48	Volume, Channel A
B	Switch		KSS-3	Not Req.	SWE-12	76-1	US-26	
R2A	500K	1/2	VC-208	B-60	A47-500K-Z	Q13-133	U48	Volume, Channel B
B	Shaft		KSS-3	Not Req.	KSS-3	Not Req.	Not Req.	

① Models 508, 1607, 1618 use Part #VC-208 (See R2 for replacements).

RESISTORS (IRC or EQUIVALENT)

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R3	33K		R6	2200Ω	
R4	82Ω 1W	Note 1	R7	100Ω 1W	
R5	33K		R8	47Ω 2W	
			R9	130Ω 4W	(120Ω 3W) * IRC#PW5-130Ω

* Used in Model 1604.

Note 1. Model 1695 uses one 33Ω resistor for each cathode.

TRANSFORMER (AUDIO OUTPUT)

REPLACEMENT DATA					
ITEM No.	IMPEDANCE		SYMPOHIC PART No.		NOTES
	PRI.	SEC.	Merit PART No.	Stencor PART No.	
T1	2600Ω	3-4Ω	TR-170	A-3025 ①	① Drill New Mounting Holes.
T2	2600Ω	3-4Ω	TR-170	A-3025 ①	

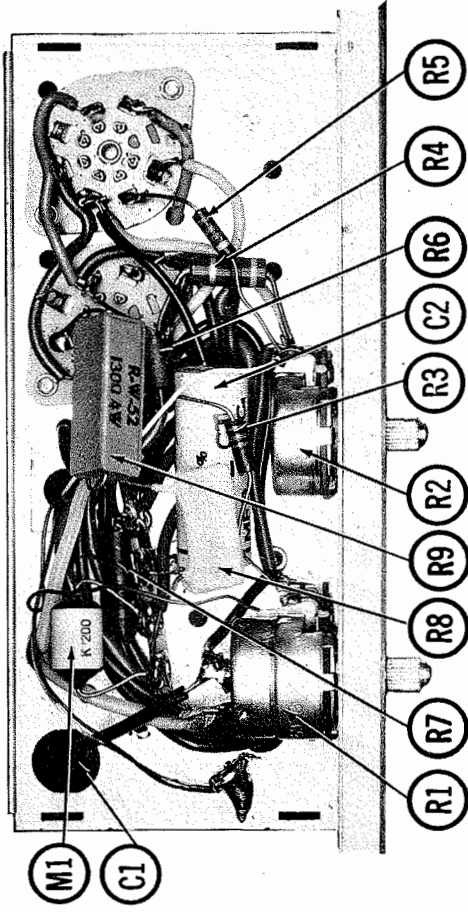
SPEAKER

REPLACEMENT DATA			
ITEM No.	TYPE		NOTES
	SIZE	FIELD V. C. IMP.	
SP1	4"	PM 3-4Ω	
SP2	4"	PM 3-4Ω	

* Used in Models 1604, 1695

* Used in Models 1607, 508, 1618

CHASSIS—BOTTOM VIEW



POWER RECTIFIERS

ITEM No.	RATING CURRENT (Measured)	REPLACEMENT DATA				NOTES
		SYMPHONIC PART No.	RCA PART No.	SARKES TAZZIAN PART No.	SYLVANIA PART No.	
M1	.065A	SR-107 *	1N1763 *	2F4 *	SR200 *	* Silicon Type

PHONO CARTRIDGE & NEEDLES

*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

REPLACEMENT DATA					
ITEM No.	SYMPOHIC PART No.		ELECTRO-VOICE PART No.		NOTES
	CARTRIDGE	NEEDLE	CARTRIDGE	NEEDLE	
M2		74TS	N8-7 *	96T	Models 1604, 1695, 1607 & 508
			N8-3 *	96T	Model 1618
			N8-7 *	96T	May be used in Model 1618
			N8-3 *	46T	
			420-TS-TB	N8-1 *	
			N8-3 *	N8-3 *	

MISCELLANEOUS

ITEM No.	PART NAME	SYMPOHIC PART No.	NOTES
M3	Motor Motor Motor Idle Wheel	MO-109 MO-III MO-III	3 Speed, Models 1695, 1604 4 Speed, Models 1607, 508 (Gray) 4 Speed, Models 1607, 508 (Tan) Walsco Part No. 1433

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
 8524 (Stranded) Available in Ten Colors
 Power Cord Use BELDEN No. 1785-B (6 Ft. Length)
 1785-K (7½ Ft. Length)
 Low-Loss Shielded Lead (Interconnecting) Use BELDEN No. 8401
 Photo Pick-up Arm Cable Use BELDEN No. 8430 (Two Conductor - Twisted)