

PARTS LIST AND DESCRIPTION (CONTINUED)

(When ordering parts, state Model, Part Number, and Description.)

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C11	470		DI-470	DD-471	JBZ601YP471K	CCD-471	GP347	10TS-T47
C12	.02 400V		DBE6S20		DPMS4S2	4DP-2-203	PVC412	4PS-S20
C13	.02 400V		DBE6S20		DPMS4S2	4DP-2-203	PVC412	4PS-S20

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA				
			Symphonic PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	500K	VC-421-1 ④	F7-500K ①, SSK104, BA006, CA005	A47-500K-S, KSS-3 or (NP-500K-S, UP-C-400)	QCB1 ②, B11-133, TM5 or (BU2, CF16, SS1, DC1)*	UA55L, SK1000 or (RU55L, SL41 ③, SK1000) or (U50)
R2	Tone	3meg	VC-420-1	F1-3meg ①, SSK104, BA006, CA005	A47-3meg-S, KSS-3 or (NP-3meg-S, UP-C-400)	QCB1 ②, B11-140, TM5 or (BU2, CF21, SS1, DC1)*	UA36L, SK1000 or (RU36L, SL41 ③, SK1000) or (U59)

* "SNAPTROL"

① Use Jumper wires to connect terminals to "PC" board.

② Use QCB1 bushing instead of Tab Mount Plate in TM5 kit.

③ Alter bushing to meet requirement.

④ Part Number VC-422-1 (Volume/Switch) used in chassis A-724-1 and A-725-1, Models 1PN20, 1PN126 and 1PN128.

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	Symphonic PART No.			IRC PART No.	WORKMAN PART No.	PART No.
R17	390Ω 3W	PW5-400	5W-SQ-400	RW-10-13					

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Symphonic PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	200Ω	6-8Ω	TR-295-1 TR-292-1 ①					① May be used in some versions

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		Symphonic PART No.	JENSEN PART No.	QUAM PART No.	
	3" X 5" PM	6-8Ω	SP-456 ①		① Used in Models 1PN126, 3PN324
	4" PM	6-8Ω	SP-453 ②		② Used in Models 1PN120
	4" PM	3-4Ω	SP-462 ③		③ Used in Models 1PN128

PHONO CARTRIDGE & NEEDLES

*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	REPLACEMENT DATA								NOTES
	Symphonic PART No.		ASTATIC PART No.		ELECTRO-VOICE PART No.		SONOTONE PART No.		
	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	
M1	VACO TO-H45V ①	N8-1 * (LP) N8-3 * (78)	146	N62*	148	2616*	15T-S		① Used in Model 3PN324
				N8-1s (LP) N8-3s (78)		3000 (LP) 3002 (78)			Needle Replacement for Original Cartridge.
	TO-H46V ②	N8-1 * (LP) N8-3 * (78)							② Used in Models 1PN128, 1PN126
	H45V ③	N8-1 * (LP) N8-3 * (78)							③ Used in Model 1PN120

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
M2	Motor	TP6/2	Phono (Model 3PN324)
	Motor	MO-134	Phono (Models 1PN120/126/128)
S1	Switch		On-Off (Part of Changer)

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	MODEL	PART No.	ITEM	MODEL	PART No.
Knob, Black	1PN120	KN-601-1	Knob, Volume	3PN324	KN-699-1
Knob, Black/White	1PN126	KN-699-1	Knob, Tone	3PN324	KN-699-2
Knob, Black W/White Inlay	1PN128	KN-698-1	Escutcheon Plate		NP-975-1

SET 937 FOLDER 9

PHOTOFACT® Folder

with CIRCUITRACE

SYMPHONIC MODELS
1PN120, 1PN126, 1PN128, 3PN324

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TRADE NAME: Symphonic Models 1PN120, 1PN126, 1PN128, 3PN324
 SUPPLIER: For Current Address, See Annual Index
 TYPE SET: 2 Transistor Amplifier W/4 Speed Automatic Record Changer or (Manual Player)
 POWER SUPPLY: 110-120 Volts AC, 60 Cycles

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SIMILAR CHANGER - PHOTOFACT SET 784, FOLDER 6

HOWARD W. SAMS & CO., INC., Indianapolis, Indiana 46206

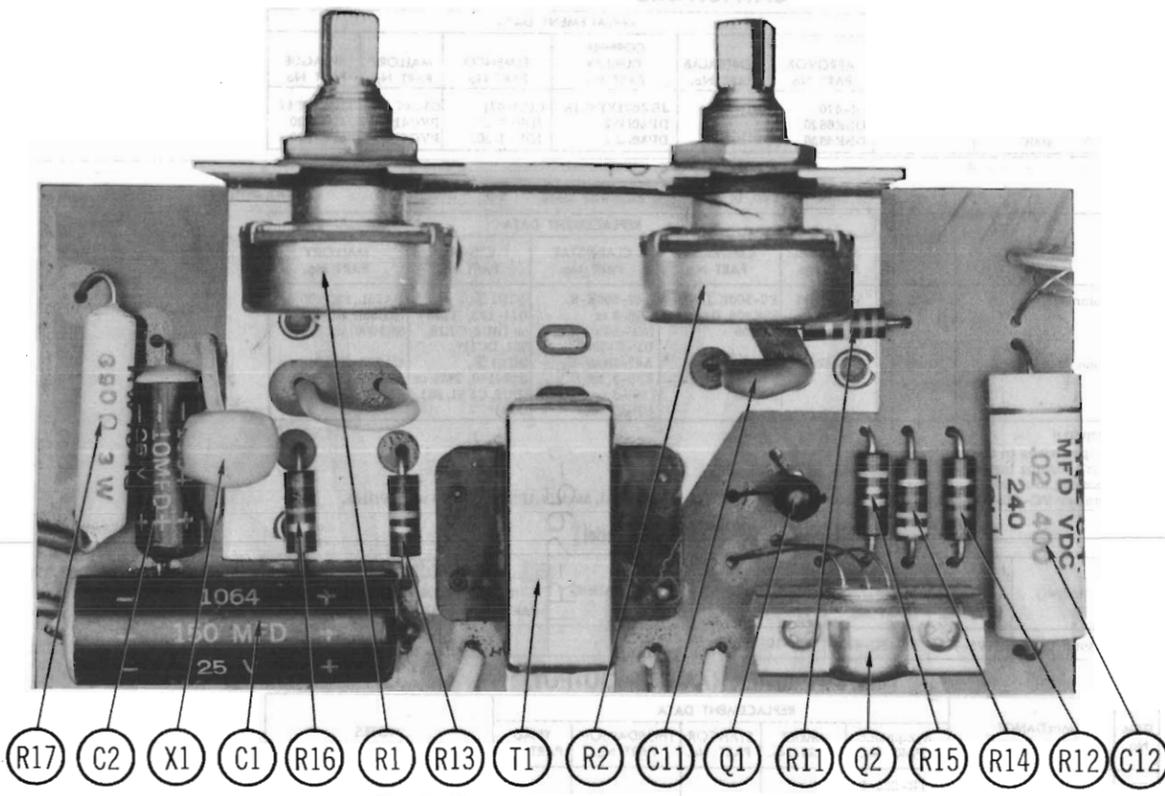
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. SV446

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SET 937 FOLDER 9

CAPACITORS



SYMPHONIC MODELS
 IPN120, IPN126, IPN128, 3PN324

PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors 8524 (Stranded) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 8401 or 8421
Phono Pick-up Arm Cable	Use BELDEN No. 8430 (Two Conductor-Unshielded) 8429 (Two Conductor-Shielded) 8419 (Three Conductor-Shielded)

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA				Symphonic PART No.	NOTES	
			DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	RCA PART No.			
X1		AF Amp			GE-10	TR-21	SK-3020	TX-107-3	NPN
X2		Output					SK-3020	TX-107-6	NPN

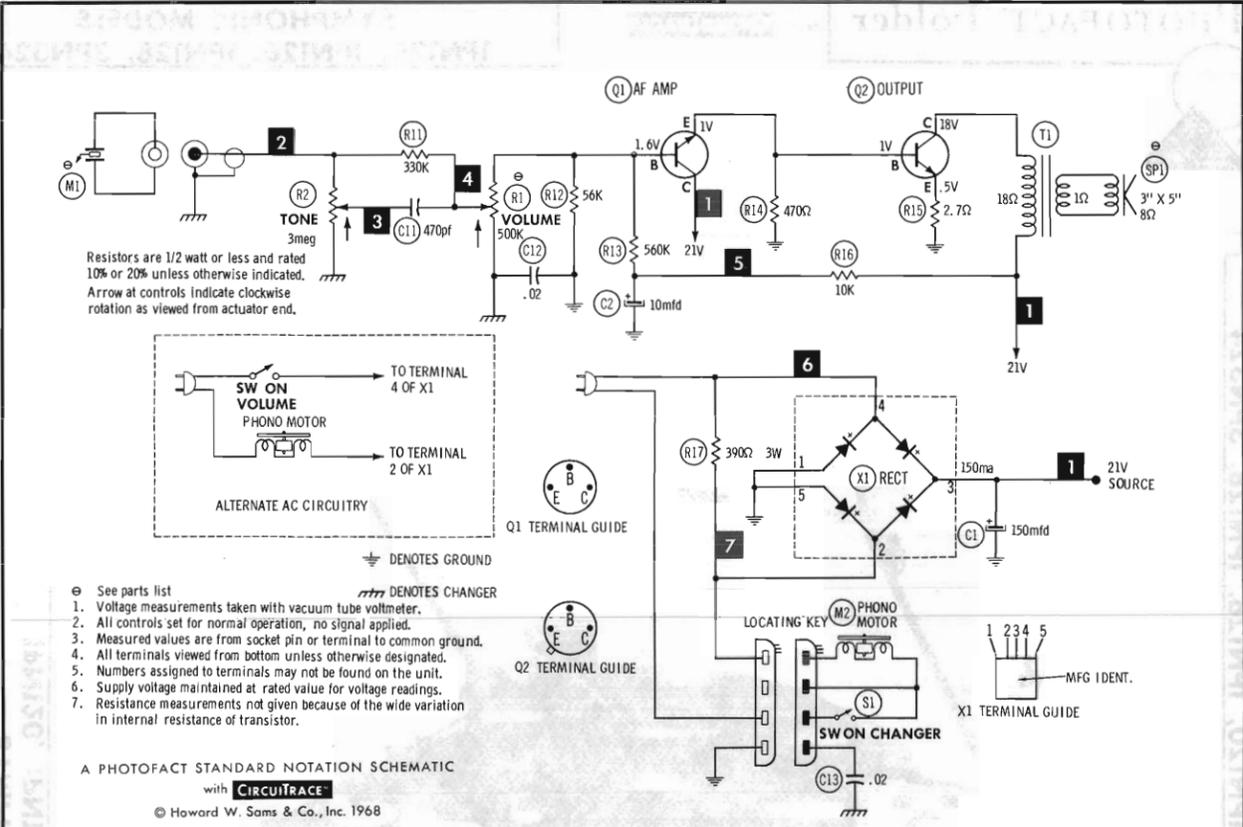
POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.150A	SR-124	GE-504A ① ②	18DB2A ② or 8D4 ① ②	FW50 ② or A50 ① ②	SK-3016 ① ② or SK-3017A ① ②	S905 or S-5959 ②

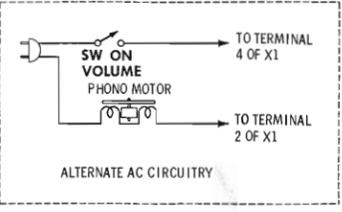
① Four required
 ② When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA						
		Symphonic PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.
C1	150 25V	CE-174-17	PTT124	EA30-10	BR150-50	MT1-5	TC25015	TL-1212
C2	10 25V	CE-174-16	PTT79		NLW10-25		TT25X10	TL-1204



Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated. Arrow at controls indicate clockwise rotation as viewed from actuator end.



- ⊕ See parts list
- ⊕ DENOTES CHANGER
- ⊕ DENOTES GROUND
- 1. Voltage measurements taken with vacuum tube voltmeter.
- 2. All controls set for normal operation, no signal applied.
- 3. Measured values are from socket pin or terminal to common ground.
- 4. All terminals viewed from bottom unless otherwise designated.
- 5. Numbers assigned to terminals may not be found on the unit.
- 6. Supply voltage maintained at rated value for voltage readings.
- 7. Resistance measurements not given because of the wide variation in internal resistance of transistor.

A PHOTOFAC STANDARD NOTATION SCHEMATIC with CIRCUITRACE
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