

PARTS LIST AND DESCRIPTION

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	Use BELDEN No. 8524 (Stranded) Available in 12 Colors
Power Cord (Interlock Type)	Use BELDEN No. 1706 (Plastic) or 1726 (Rubber) - 6 Ft.
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 1709 (Plastic) or 1728 (Rubber) - 9 Ft.
Phono Pick-up Arm Cable	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)
	Use BELDEN No. 8401 or 8421
	Use BELDEN No. 8430 (Two Conductor-Unshielded)
	8428 (Two Conductor-Shielded)
	8419 (Three Conductor-Shielded)

TUBES

ITEM No.	AMPEREX	GENERAL ELECTRIC	RCA	RAYTHEON	SYLVANIA	USE	TYPE
V1	Converter	12BE6				Output Rectifier	50C5
V2	IF Amp.	12BA6					35W4
V3	Det.-AVC-AF Amp.	12AV6					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	SYMPHONIC PART No.	CORNELL-DUBIER PART No.	AEROVOX PART No.	GENERAL ELECTRIC PART No.	ELENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	#80	OE-179-1	PWH2-19-05	XB0181	XC2-37	TMD-2135	PWP214.4	PCL-2441
B	#430	150						

① Use printed circuit board adapters.

FIXED CAPACITORS

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBIER PART No.	ELENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C2	270		DI-270	DD-271	LA10727-C4	CCD-271	GP327	5GA-127
C3	.05	50V	TTD-05	DD-402	LA1024-C4	CCD-382	TA-150	TH-S50
C4	.004		BPD-004	DD-103	BYA1081	CCD-103	GP240	5GA-D40
C5	.01		BPD-01	DF-503	DPMS455	4DP-3-503	B-110	5HK-S10
C6	.05	400V	P488N-.05	DF-503	PMS65	4DP-3-503	GEM-415	4TM-S50
C7	.05	400V	P488N-.05	DF-503	PMS65	4DP-3-503	GEM-415	4TM-S50
C8	.05	400V	P488N-.05	DF-503	PMS65	4DP-3-503	GEM-415	4TM-S50

CONTROLS

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

ITEM No.	USE	RESISTANCE	SYMPHONIC PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume, Switch	500K	YC-366-1				

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SYMPHONIC PART No.	REPLACEMENT DATA
K1	Diode RF Filter	47K, 100mmf, 100mmf	PC-103-1	Aerovox Centralab D-1
K2	Audio Couplate	250K, 500K, 250mmf, .01mfd	PC-105-1	Aerovox Centralab PC-81 Sprague T-2

COILS (RF-IF)

ITEM No.	USE	SYMPHONIC PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	NOTES
L1	Loopstick AM Osc.	AL-108-1	BC-419	705-A	RTC-8915	TC877
L2	Input IF	LO-115-1	BC-356	16-PC9	RTC-8883	T646
L3	Output IF	LF-114-1	BC-357	16-PC10	RTC-8884	T647

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	PHI	SEC.	STANCOR PART No.	THORDARSON PART No.	NOTES
T1	3300G	3-4G		TR-248-1	A-2998	① A-3332 ② 2S22 ③ S-16X ④ ① Cut & Tape Tap ② Use original Mfg. Frame

SPEAKER

ITEM No.	TYPE	SYMPHONIC PART No.	QUAM PART No.	NOTES
SP1	4" P.M.	SP401	4A1	① May be used in some versions.
	4" P.M.	SP446	4A1	

PHONO CARTRIDGE & NEEDLES

\*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	SYMPHONIC PART No.	ASTATIC CARTRIDGE	ELECTRO-VOICE PART No.	SONOTONE PART No.	NOTES
M1	To-45LG	64TS	NG-1s* (LP) 2611* (LP) NG-3s* (78)	160	Used In Model 3PA36
			NG-1s (LP) 3000 (LP) NG-3s (78)	3002	Replacement needle for original cartridge
			NG-1s (LP) 2611 (LP) NG-3s (78)	2613	Used In Model 3PA32
	To-45LX	118		14TS	Used In Model 3PA32
	To-35P				Used In Model 1PA05

MISCELLANEOUS

ITEM No.	PART NAME	SYMPHONIC PART No.	NOTES
M2	AM-Tuning Cap	CW-114-1	
M3	Switch Printed Circuit Board	SW-163-1 PCB-11-3	2 Gang Function

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	MODEL	PART No.	ITEM	MODEL	PART No.
Knob, Tuning	1PA05, 3PA32	KN-532-1	Knob, Volume	3PA38	KN-534-2
Knob, Tuning	3PA36	KN-533-2	Cabinet	1PA05	C-1PA05
Knob, Function	1PA05, 3PA32, 3PA36	KN-533-1	Cabinet	3PA32	C3PA32
Knob, Volume	1PA05, 3PA32	KN-534-1	Cabinet, Blue	3PA36	C3PA36

SYMPHONIC

MODELS 1PA05, 3PA32, 3PA36

SET 700 FOLDER 10



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. MG743

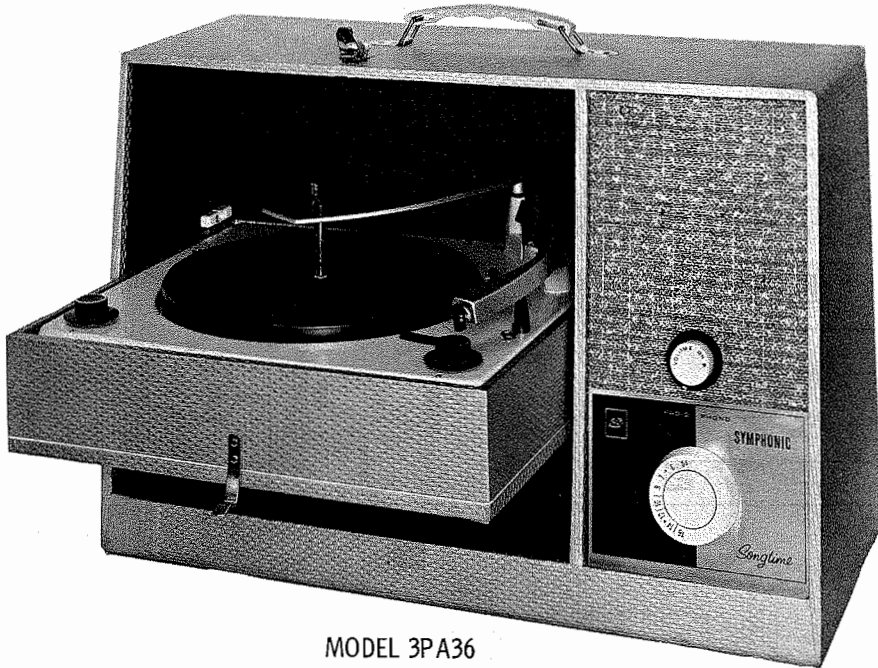
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DATE 6-64 SET 700 FOLDER 10

PHOTOFACT® Folder

with CIRCUITRACE®



MODEL 3PA36

CAUTION

ONE SIDE OF AC LINE CONNECTED TO CHASSIS

TRADE NAME	Symphonic Models 1PA05, 3PA32, 3PA36
SUPPLIER	Symphonic Radio & Electronic Corp., Subsidiary of Lyn ch Corp., Foot of John St., Lowell, Mass.
TYPE SET	AC Operated 5 Tube AM Receiver and 4 Speed Automatic Record Changer
POWER SUPPLY	105-120 Volts AC 60 Cycles RATING 27 Watts, .29 Amp@ 117 Volts AC (Less Motor)
TUNING RANGE	BROADCAST 540-1650KC

FOR SERVICE INFORMATION ON RECORD CHANGER PART # AC-208—SEE SIMILAR V-M 1257—PHOTOFACT SET 646 FOLDER 10. PART # AC-340—SEE SIMILAR B. S. R. UA-14—PHOTOFACT SET 465 FOLDER 6

ALIGNMENT INSTRUCTIONS

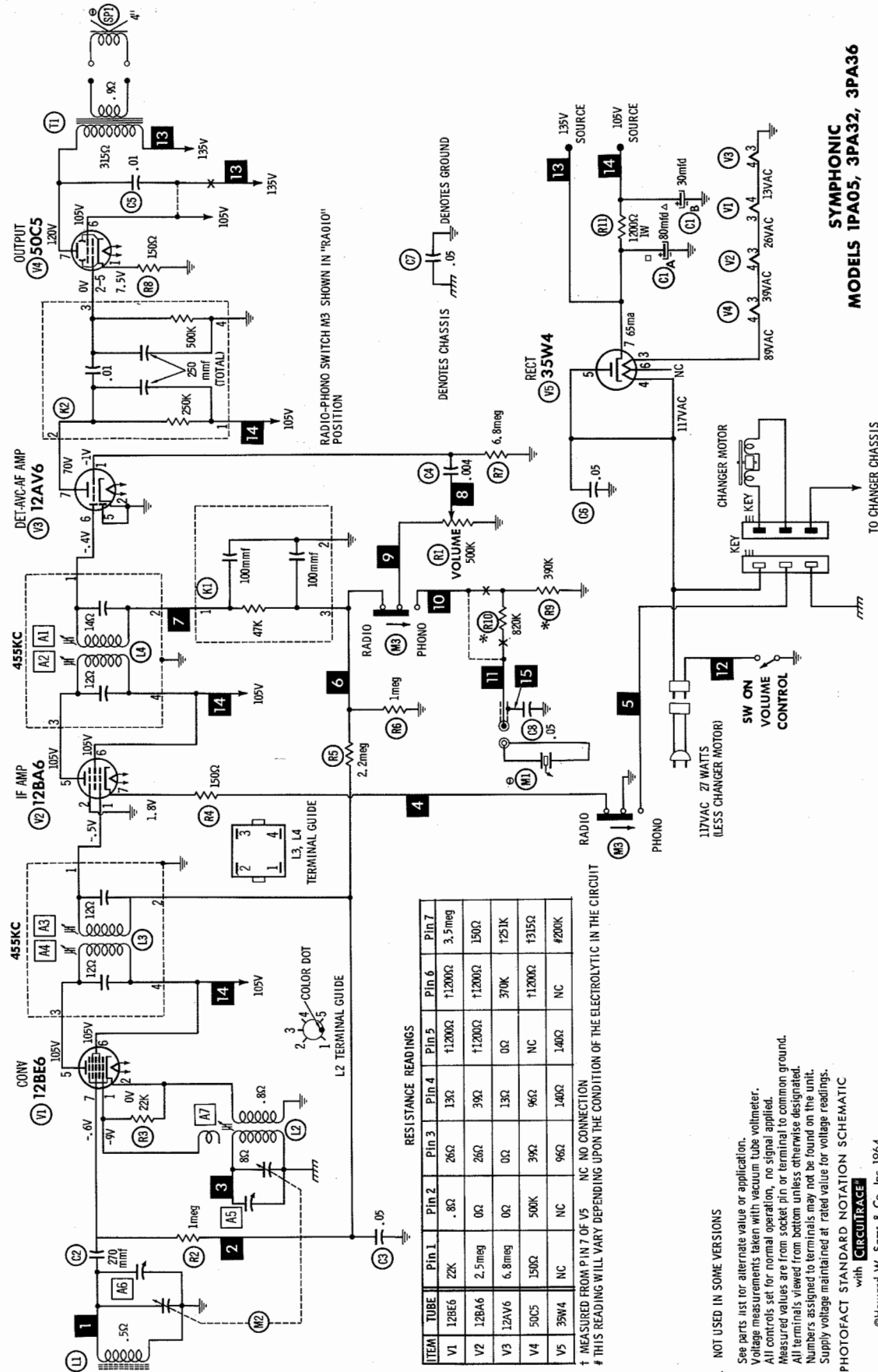
Use isolation transformer, if available, and maintain line voltage at 117 volts. Set Volume control at maximum. Fashion loop of several turns of wire and connect generator across loop. Adjust output of generator to radiate only enough signal into receiver to obtain a suitable indication. Suggested Alignment Tools:

A1 thru A4, A7 GENERAL CEMENT: 8606, 8606L, 8869 WALSCO: 2543, 2544, 2588 A5, A6.....GENERAL CEMENT: 8868, 9087, 9089 WALSCO: 2528, 2541, 2587

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (400v Mod.)	Tuning gang fully open.	Output Meter across Voice coil.	A1, A2, A3, A4	Adjust for maximum. Repeat until no further improvement can be made.
2. 1650 KC	"	"	A5	Adjust for maximum.
3. 1400KC	Tune to signal.	"	A6	Adjust for maximum.
4. 600KC	"	"	A7	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

SYMPHONIC  
MODELS 1PA05, 3PA32, 3PA36

SET 700 FOLDER 10



\* NOT USED IN SOME VERSIONS

See parts list for alternate value or application.

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.

A PHOTOFACT STANDARD NOTATION SCHEMATIC with CIRCUITRACE

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ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

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