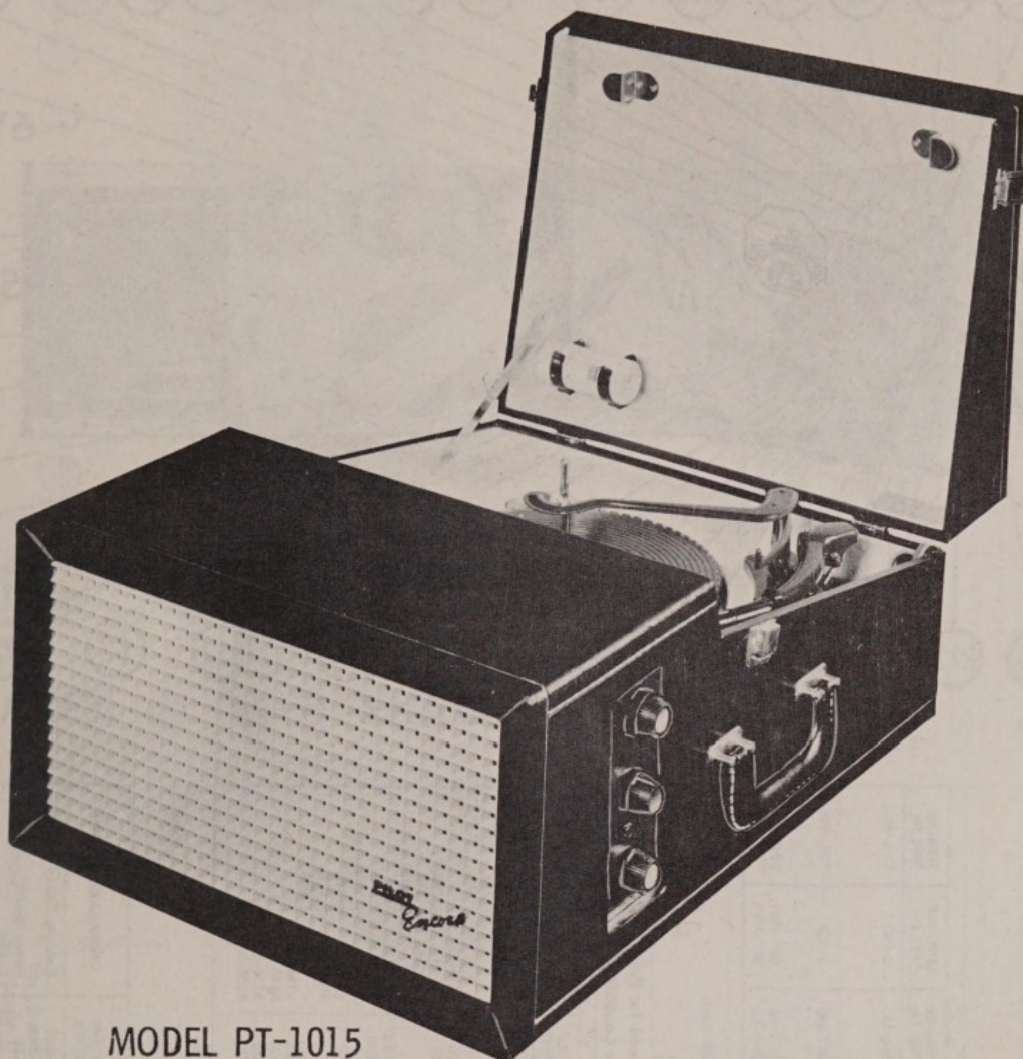




PILOT MODELS
PT-1015, PT-1025



MODEL PT-1015

PILOT MODELS
PT-1015, PT-1025

TRADE NAME	Pilot Models PT-1015, PT-1025		
MANUFACTURER	Pilot Radio Corp., 37-06 36th Street, Long Island City 1, N. Y.		
TYPE SET	AC Operated Phono Amplifier With 4 Speed Automatic Record Changer		
TUBES (Six)	Types 12AX7 Preamplifier, 12AX7 AF Amplifier, 12AX7 AF Amplifier-Phase Inverter, (2) 6V6GT Output, 5Y3GT Rectifier		
POWER SUPPLY	105-120 Volts AC-60 Cycles	RATING	.62 Amp. @ 117 Volts AC (63 Watts)

FOR SERVICE INFORMATION ON RECORD CHANGER PART #108-32 - SEE GARRARD RC121/4 - PHOTOFACT SET 355 FOLDER 4 OR RECORD CHANGER MANUAL RC-10

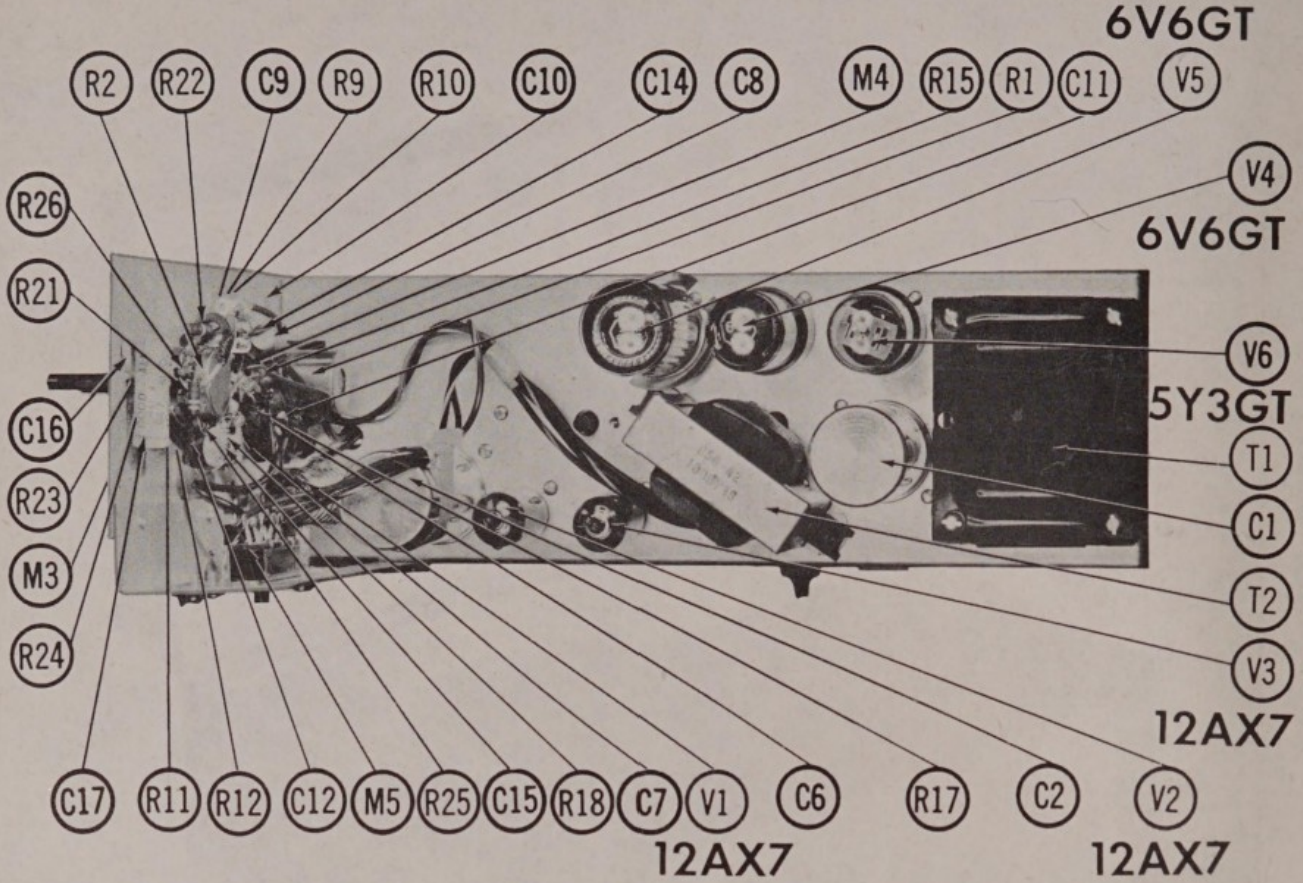
HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

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PARTS LIST AND DESCRIPTIONS TUBES (GENERAL ELECTRIC, PENNSYLVANIA)

CHASSIS—TOP VIEW



ITEM No.	USE	TYPE	NOTES	ITEM No.	USE	TYPE	NOTES
V1	Pre-amplifier	12AX7		V4	Output	6V6GT	
V2	AF Amplifier	12AX7		V5	Output	6V6GT	
V3	AF Amp. - Phase Inv.	12AX7		V6	Rectifier	5Y3GT	

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	PILOT PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SANICAMO PART No.	SPRAGUE PART No.
C1A	20	450	24-149	AFH4-14	D0130	F9444	TMQ-12	Q-040	TVL-4763
C1B	20	450							
C1C	20	450							
C1D	20	450							
C2A	40	400	24-150	AFH3-140	C1040	F9385	TMT-140	T-735	TVL-3754, 2
C2B	10	400							
C2C	10	400							
C2D	10	400							
C2E	10	50							
C2F	2	50NP							

† Connect negative leads together.

* Not normally in distributors 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		REPLACEMENT DATA						NOTES
	CAP.	VOLT.	PILOT PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SPRAGUE PART No.	
C4	.022	400		P488N-022	DD-203	CUB4S2	GEM-4122	4TM-S22	10%
C5	.01	400		P488N-01	D6-103	CUB4S1	GEM-411	4TM-S1	10%
C6	.033	400							
C7	.022	400							
C8	.01	400							
C9	1000	1800		P488N-01	D6-103	CUB4S1	GEM-411	4TM-S1	10%
C10	1000	1800							10%
C11	.022	400		P488N-022	DD-203	CUB4S2	GEM-4122	4TM-S22	10%
C12	.047	400		P488N-047	DF-503	CUB4S47	GEM-4147	4TM-S47	10%
C13	.047	400							10%
C14	50	1800							10%
C15	1800	1800							10%
C16	1200	400							10%
C17	.047	400		P488N-01	D6-103	CUB4S1	GEM-411	4TM-S1	10%
C18	.01	400		P688N-1	DF-104	CUB6P1	GEM-601	6TM-P1	10%
C19	.1	600		P688N-1	DF-104	CUB6P1	GEM-601	6TM-P1	10%
C20	.1	600		P688N-1	D6-103	CUB6S1	GEM-611	6TM-S1	10%
C21	.01	600							10%
C22	.0051	400							10%

① Some versions may use .022mfd in this application.

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA						INSTALLATION NOTES
	RESIST.-ANCE	WATTS	PILOT PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	IRC PART No.	MALLORY PART No.		
R1A	1meg	1/2	36-63	BT-73	A47F-1meg	Q13-137X	UT-438	Volume, Tap 250K	
R1B	Shaft			Not Req.	FS-3	Not Req.	US-26	Power On-Off	
R1C	Switch		37-36	KB-1 or KR-1*	SWE-12	76-1	UEF3839	Treble	
R2A	5meg						TA253L	Base	
R2B	5meg							Hum Balance	
R2C	25K		39-44	AB-26	A47-25K-S	BLI-120	Not Req.		
R2D	Shaft			AK-1	F ES-1/4	SKZ			

* Use KR with CRL "Red Label" controls and KB with "Blue Label" controls.

■ "STA-LOC" Equivalent: FA56A, OS1062, RU56A, IS1562.

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

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

ITEM No.	RATING		PILOT PART No.	NOTES	PILOT PART No.	NOTES
	OHMS	WATT				
R4	47K					
R5	680K					
R6	68K	1				
R7	1000Ω	1				
R8	330K					
R9	1meg					
R10	8200Ω 5%					
R11	100K					
R12	82K	1				
R13	82K	1				
R14	1500Ω					
R15	4.7meg					
R16	15K					
R17	1200Ω					
R18	39K	1				
R19	82K					
R20	2200Ω					
R21	220K					
R22	220K					
R23	680K					
R24	39K					

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA						
	PRI.	SEC. 1 SEC. 2	Pilot Part No.	Hollidson Part No.	Merit Part No.	Rom Part No.	Stancor Part No.	Thordarson Part No.	Triod Part No.
T1	117V ② .62A	650VCT 5V ③ .070A ④ 1.7A	55-47	P9305	P-2951 ①		PM16408	22R37 ①	
	SEC. 3	SEC. 4	SEC. 5						
	6.3V								
	① 1.8A								

① Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES			
	PRI.	SEC.	Pilot Part No.	Hollidson Part No.	Merit Part No.	Rom Part No.	Stancor Part No.		Thordarson Part No.	Triod Part No.	
T2	10K CT	6-80	56-42	Z1404 ①	A-28004 ①	AU-609 ①	A-3335 ①	28559 ①	S-19Z ①	S-19Z ①	Drill new mounting hole.

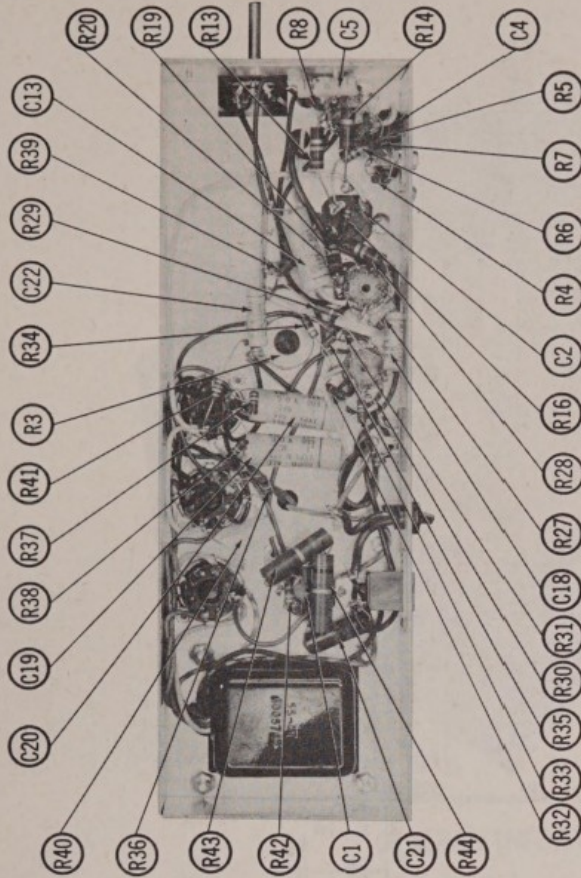
SPEAKER

ITEM No.	TYPE		REPLACEMENT DATA		NOTES
	SIZE	FIELD	Pilot Part No.	QUAM Part No.	
SP1	8"	PM	41-39	8A6	
SP2	6"	PM	41-40	6A2I	

PHONO CARTRIDGE

ITEM No.	REPLACEMENT DATA		REMARKS
	Pilot Part No.	Astatic Part No.	
M1			

CHASSIS—BOTTOM VIEW



PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

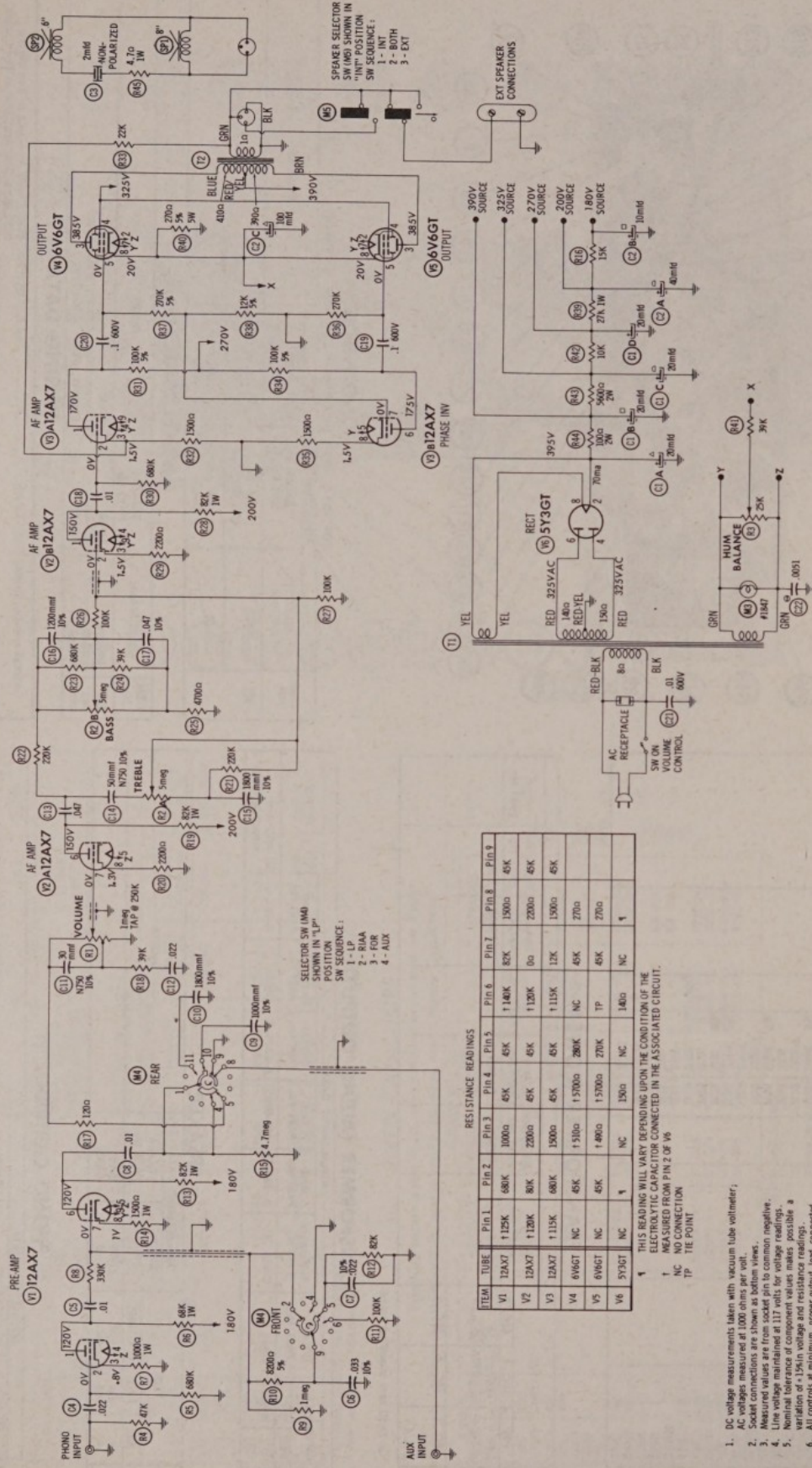
ITEM No.	REPLACEMENT DATA			REMARKS
	Pilot Part No.	Jensen Part No.	Walco Part No.	
M2	(STD)	↑ G-6 or ↓ G-6D	↑ 688 or ↓ 68D	↑ Jewel ↓ Diamond
	(LP)	↑ G-4 or ↓ G-4D	↑ 69MGS or ↓ 69MGD	

MISCELLANEOUS

ITEM No.	REPLACEMENT DATA		NOTES
	Part Name	Pilot Part No.	
M3	Lamp	68-10	#1847 Compensation, Rotary, Wafer Type Speaker, SPDT, Slide Type
M4	Switch	100-110	
M5	Switch	101-42	

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord Use BELDEN No. 8524 (Stranded) Available in Ten Colors
Low-Loss Shielded Lead (Interconnecting) Use BELDEN No. 1765-B (6 Ft. Length)
Phono Pick-up Arm Cable Use BELDEN No. 1725-K (7 1/2 Ft. Length)
..... Use BELDEN No. 8401
..... Use BELDEN No. 8450 (Two Conductor - Twisted)



RESISTANCE READINGS

TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1 12AX7	1.25K	680K	1000Ω	45K	1.40K	82K	1500Ω	49K	
V2 12AX7	1.120K	80K	2200Ω	45K	1.120K	0Ω	2200Ω	45K	
V3 12AX7	1.15K	680K	1500Ω	45K	1.15K	12K	1500Ω	45K	
V4 6V6GT	NC	45K	1500Ω	1500Ω	200K	NC	45K	270Ω	
V5 6V6GT	NC	45K	1.400Ω	1.5700Ω	270K	TP	45K	270Ω	
V6 5Y3GT	NC	1	NC	150Ω	NC	140Ω	NC	1	

THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC CAPACITOR CONNECTED IN THE ASSOCIATED CIRCUIT.

1 NC NO CONNECTION
TP TIE POINT

- DC voltage measurements taken with vacuum tube voltmeter;
- AC voltages measured at 1000 ohms per volt;
- Resistor connections are shown as bottom views;
- Measuring points are shown as top views;
- Line voltage maintained at 117 volts for voltage readings;
- Nominal tolerance of component values makes possible a variation of ±1.5% in voltage and resistance readings;
- All controls at minimum, proper output load connected.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM

A PHOTOGRAPH STANDARD NOTATION SCHEMATIC
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