

NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

NOTE: RIGHT CHANNEL AMPLIFIER CIRCUITRY IS IDENTICAL TO LEFT CHANNEL CIRCUITRY UNLESS SHOWN OTHERWISE ON THIS SCHEMATIC.

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	1280K	200K	2700Ω	300Ω	300Ω	1280K	1Meg	2700Ω	300Ω
V2	6V6GT	NC	300Ω	1410Ω	1330Ω	470K	NC	300Ω	270Ω	270Ω
V3	6V6GT	NC	300Ω	1300Ω	1330Ω	0Ω	TP	300Ω	270Ω	270Ω
V4	5Y3GT	NC	9	NC	120Ω	NC	110Ω	TP	9	9

9 THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
 * MEASURED FROM PIN 2 OF V4
 NC NO CONNECTION
 TP TIE POINT

- DC voltage measurements taken with vacuum tube voltmeter; AC voltage measurements at 1000 ohms per volt.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common negative.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance of component values makes possible a variation of ±15% in voltage and resistance readings.
- All controls at minimum, proper output lead connected.

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

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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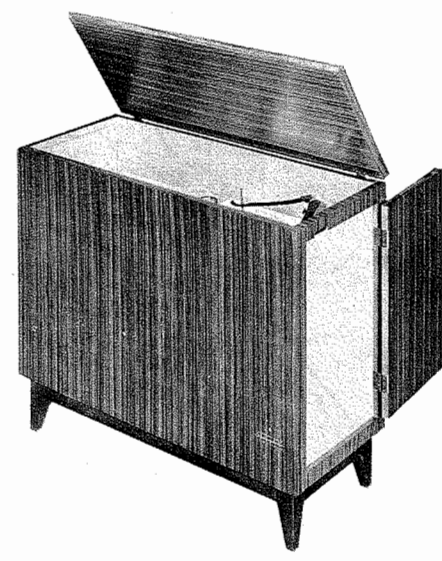
PHILCO
 MODEL G-1710S

FOLDER 17
 SET 470



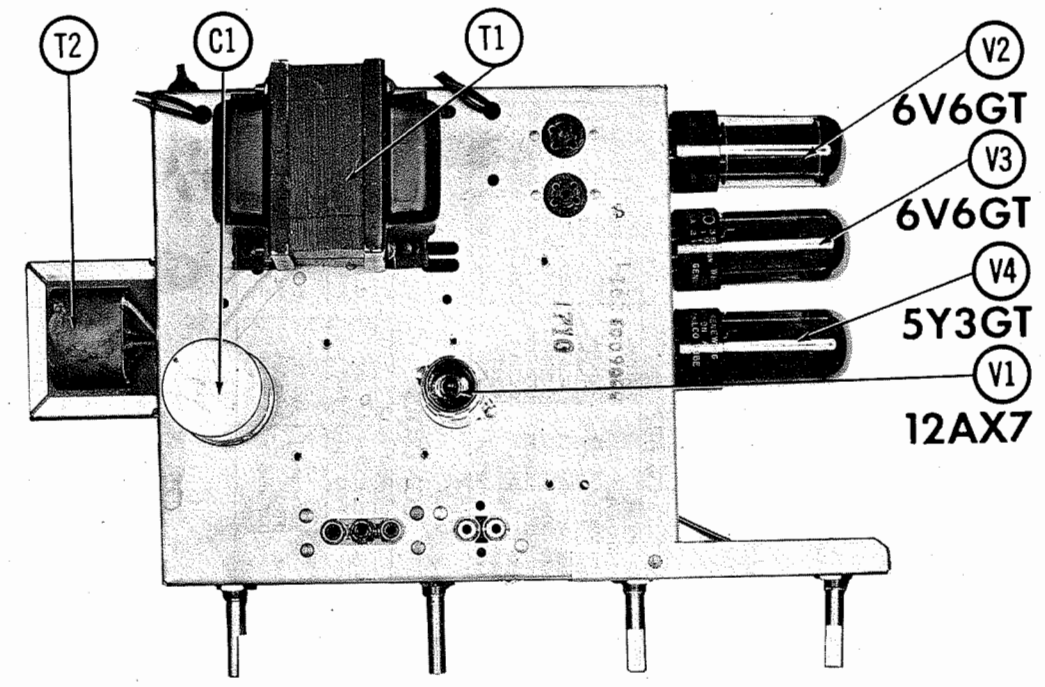
PHILCO
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TRADE NAME	Philco Model G-1710S
MANUFACTURER	Philco Corp., Tioga & "C" Streets, Philadelphia, Pa.
TYPE SET	AC Operated 8 Tube Stereo Phono Amplifier With 4 Speed Automatic Record Changer
POWER SUPPLY	105-120 Volts AC, 60 Cycles RATING 50 Watts, .59 Amp. @117 Volts AC

FOR SERVICE INFORMATION ON RECORD CHANGER M-41 - SEE SIMILAR V-M 1200A - PHOTOFACT SET 353
 FOLDER 16 OR RECORD CHANGER MANUAL RC-10.



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

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PHILCO
 MODEL G-1710S

SET 470 FOLDER 17

DATE 1-60

SET 470

FOLDER 17

PARTS LIST AND DESCRIPTIONS

TUBES

• CBS • GENERAL ELECTRIC		• RAYTHEON •		• SYLVANIA •	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	AF Amplifier	12AX7	V3	Output Rectifier	6V6GT
V2	Output	6V6GT	V4	Output Rectifier	6Y3GT

ELECTROLYTIC CAPACITORS

ITEM No.	CAP.	VOLT.	REPLACEMENT DATA			NOTES
			PHILCO PART No.	CORNELL-DUBIERRE PART No.	MALLOYRY PART No.	
C1A	40	450	30-2590-38	AFT3-42	CP330	
C1B	20	450				
C1C	10	450				
C2	10	25	30-2417-8	PFS1250	BRLU-25	TVA-1204
C3	10	25	30-2417-8	PFS1250	BRLU-25	TVA-1204

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				SPRAGUE PART No.
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBIERRE PART No.	ELMENCOR PART No.	
C4	.0068 400V 10%		V84CD68 10%	PMB6D68	6DP-1-682	GEM-16268	6TM-1047
C5	.0047 400V 10%		V84CD47 10%	PMB6D47	6DP-1-472	GEM-16247	6TM-1047
C6	.0047 600V		P688N-0047	D6-472	CUB6D47	GEM-6247	6TM-1047
C7	.0047 600V		P688N-0047	D6-472	CUB6D47	GEM-6247	6TM-1047
C8	.047 600V		P688N-047	DF-503	CUB6S47	GEM-6147	6TM-1047
C9	.0022 1000V		P1088N-0022	DD-222	CUB10D22	GEM-10222	10TM-D22
C10	.0022 1000V		P1088N-0022	DD-222	CUB10D22	GEM-10222	10TM-D22
C11	1 200V		P288N-1	DF-104	CUB2P1	GEM-201	2TM-P1
C12	2mfd 100V		P2822-2		MPW2	GEM-201	11BP2050282
C13	.01 600V		P688N-01	D6-103	CUB6S1	GEM-611	6TM-S1

CONTROLS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			INSTALLATION NOTES
			PHILCO PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	
R1	2meg		33-5535-47	BT-175	QJ3-137	U53
R2A	1meg		33-5587-29	B-70	FS-3	Not Req.
R2B	1meg		33-5587-29	Not Req.	FS-3	Not Req.
R3A	1meg		33-5587-29	B-70	QJ3-137	U53
R3B	1meg		33-5587-29	Not Req.	FS-3	Not Req.

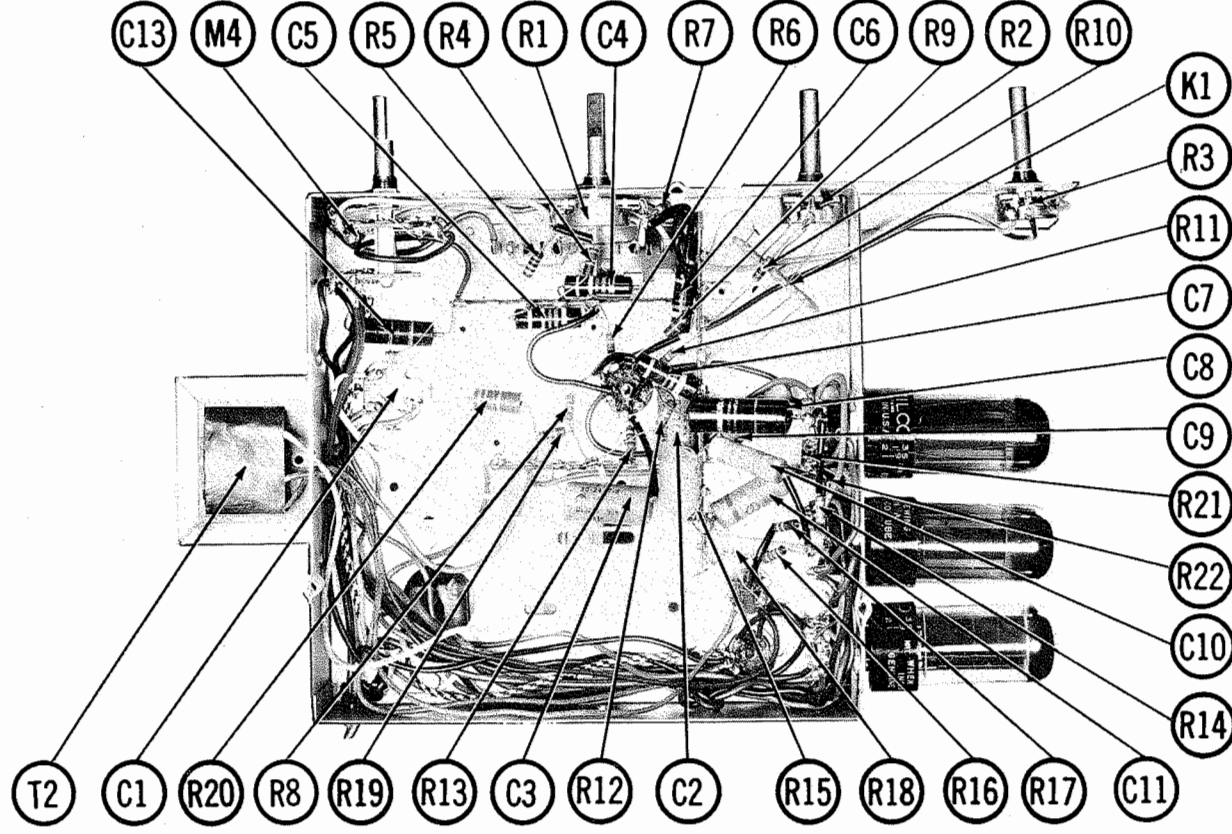
RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R4	52K		R18	2700 5W	#33-1335-01
R5	22K		R19	10K	
R6	1meg		R20	33000 2W	
R7	1meg		R21	500	
R8	270K		R22	900	
R9	27000 5%		R23	1meg	
R10	100K				

Philco Part Number.

CHASSIS—BOTTOM VIEW



PARTS LIST AND DESCRIPTIONS (Continued)

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	PHILCO PART No.	REPLACEMENT DATA
K1	Tone Compensation	68mmf, 1000mmf, 1000mmf, 22K, 220K	30-8038-1	

PHONO CARTRIDGE

ITEM No.	PHILCO PART No.	REPLACEMENT DATA			
		ASTATIC CARTRIDGE	ELECTRO-VOICE CARTRIDGE	JENSEN CARTRIDGE	SONOTONE CARTRIDGE
M2		13T	Not Req. 66	Not Req.	8TAS-4 N-87A-S

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			
		PHILCO PART No.	Hollidorn PART No.	Merit PART No.	Stencor PART No.
T1	PRI. SEC. 1 5V @ 2A 680 VCT @ .070A .59A SEC. 3 SEC. 4 SEC. 5 6.3V @ 1.3A	32-8790-4	24R40U	P-3153	PC8408

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	PHILCO PART No.	REPLACEMENT DATA			NOTES
			Hollidorn PART No.	Merit PART No.	Stencor PART No.	
T2	DC RES. 3.80 Taps @ 1.2k, 1.2k, .20	32-8891-1				

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		PHILCO PART No.	QUAM PART No.	
SP1	10"	36-1653-7	10A6A	
SP2	3 1/2"	36-1652-2	3A0728.5	
SP3	ELECTROSTATIC	36-1656-1		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA		
			PHILCO PART No.	LITTELFUSE PART No.	BUSS PART No.
M1	2" Length #28 Wire		FUSE HOLDER	FUSE HOLDER	FUSE HOLDER

① Not used in some versions.

PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

ITEM No.	PHILCO PART No.	REPLACEMENT DATA		REMARKS
		CLEVEITE PART No.	WALCO PART No.	
M3	(78 RPM) (LP)	W-101ST5 † or W-102ST † or W-102MCD †	JENSEN PART No.	† Jewel • Diamond

MISCELLANEOUS

ITEM No.	PART NAME	PHILCO PART No.	NOTES
M4	Switch	42-2107-2	Function Selector Used in Run 52 & higher.
	Switch	42-2107-1	Function Selector Used prior to Run 52.

CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART No.	DESCRIPTION
Knob	54-6271-4	Loudness, Bass, Treble, Function Selector

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)
 Photo Pick-up Arm Cable Use BELDEN No. 1725-K (1 1/2 Ft. Length)
 Use BELDEN No. 8401
 Use BELDEN No. 8430 (Two Conductor - Twisted)