

1. DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured at 1000 ohms per volt.
 2. Socket connections are shown as bottom views.
 3. Measured values are from socket pin to common negative.
 4. Line voltage maintained at 117 volts for voltage readings.
 5. Nominal tolerance of component values makes possible a variation of $\pm 15\%$ in voltage and resistance readings.
 6. All controls at minimum, proper output load connected.
- DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
- ARROWS ON CONTROLS INDICATE CLOCKWISE ROTATION (CONTROL VIEWED FROM SHAFT END)

RESISTANCE READINGS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	12AX7	$\dagger 270K$	6.8meg	0 Ω	12 Ω	0 Ω	$\dagger 270K$	6.8meg	0 Ω	6 Ω
V2	50C5	180 Ω	470K	110 Ω	160 Ω	470K	$\dagger 2300\Omega$	$\dagger 620\Omega$		
V3	50C5	180 Ω	470K	12 Ω	62 Ω	470K	$\dagger 2300\Omega$	$\dagger 600\Omega$		

\dagger MEASURED FROM OUTPUT OF M1.

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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COLUMBIA
MODEL 909

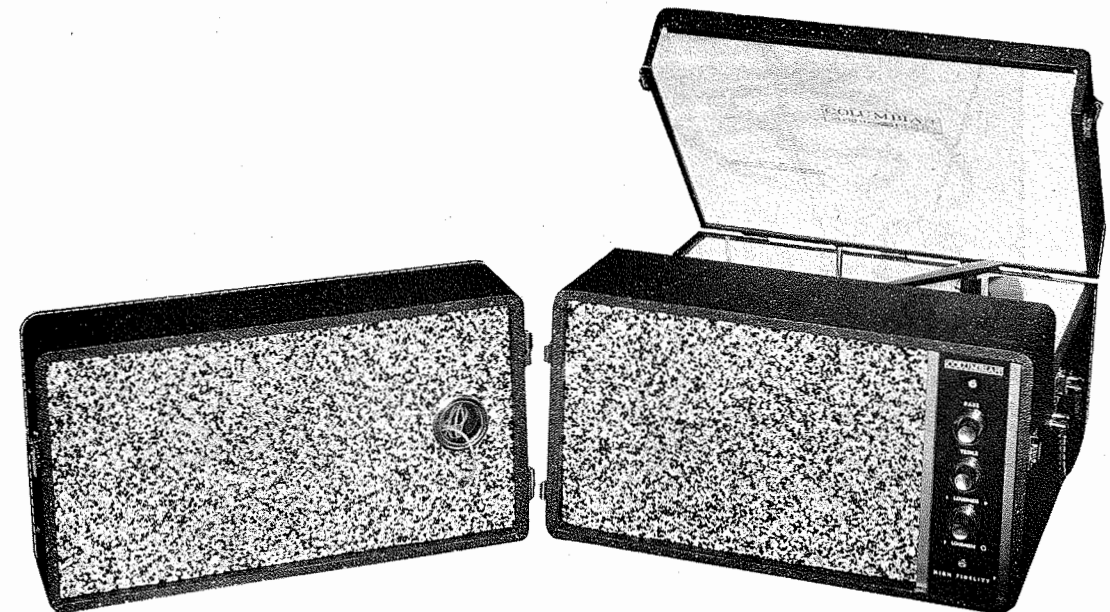
FOLDER 5
SET 493

PHOTOFACT® Folder



COLUMBIA
MODEL 909

COLUMBIA
MODEL 909



COLUMBIA
MODEL 909

TRADE NAME	Columbia Model 909	
MANUFACTURER	CBS Electronics, 100 Endicott Street, Danvers, Mass.	
TYPE SET	AC Operated 3 Tube Stereo Amplifier With 4 Speed Automatic Record Changer	
POWER SUPPLY	110-120 Volts AC, 60 Cycles	RATING 28 Watts, .27 Amp @ 117 Volts AC (Less Motor)

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SIMILAR GLASER-STEERS GS-77 (REVISED)
PHOTOFACT SET 482 FOLDER II

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



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 JT874

the particular type of replacement part listed. Reproduction or use, without express permission, of editorial or pictorial content, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1960 Howard W. Sams & Co., Inc., Indianapolis 6, Indiana. Printed in U.S. of America

DATE 7-60

SET 493

FOLDER 5

SET 493 FOLDER 5

PARTS LIST AND DESCRIPTIONS
WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord Use BELDEN No. 1765-B (6 Ft. Length)
Low-Loss Shielded Lead (Interconnecting) Use BELDEN No. 1725-K (7½ Ft. Length)
Phono Pick-up Arm Cable Use BELDEN No. 8401
..... Use BELDEN No. 8430 (Two Conductor - Twisted)

TUBES

♦ CBS ♦ GENERAL ELECTRIC ♦ RAYTHEON ♦ SYLVANIA ♦					
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	Channel A AF Amp - Channel B AF Amp	12AX7	V2 V3	Channel A Output Channel B Output	50C5 50C5

ELECTROLYTIC CAPACITORS

REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	NOTES
C1A	60 CAP. 150 VOLT	COLUMBIA PART No. 11B744	SPRAGUE PART No. TVA-3455
C1B	40 CAP. 150 VOLT		TVA-1410
C2	20 CAP. 150 VOLT		
C3	20 CAP. 150 VOLT		

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	NOTES
C2	470 2meg		
C3	10000 2meg		
C4	270 200V		
C5	.5 400V		
C6	.05 400V		
C7	470 400V		
C8	10000 2meg		
C9	270 200V		
C10	.5 200V		
C11	.047 400V		
C12	.047 400V		

CONTROLS

REPLACEMENT DATA			
ITEM No.	RATING	REMARKS	NOTES
R1A	100K 1W		
R2A	500K 1W		
R3A	500K 1W		
R4	100K 1W		
R5	500K 1W		
R6	1800 1W		

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R7	100K		R10	1000 1W	
R8	8.8meg		R11	470 1W	
R9	22000		R12	470 1W	

PARTS LIST AND DESCRIPTIONS (Continued)
COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	COLUMBIA PART No.	REPLACEMENT DATA
K1	Audio Coupling (Channel A)	10000mmf, 250mmf, 270K, 470K	5B304	Aerovox Centralab PC-81 118TM2
K2	Audio Coupling (Channel B)	10000mmf, 250mmf, 270K, 470K	5B304	Cornell-Dublier T-2 Aerovox Centralab PC-81 118TM2 Sprague

TRANSFORMER (AUDIO OUTPUT)

REPLACEMENT DATA			
ITEM No.	IMPEDANCE	COLUMBIA PART No.	NOTES
T1	50000 6-80 CT	3B237	
T2	13500 1-20 CT	3B238	

SPEAKER

REPLACEMENT DATA			
ITEM No.	TYPE	COLUMBIA PART No.	NOTES
SP1	6" PM 3-40	1B108	
SP2	6" PM 3-40	1B125	
SP3	6" PM 3-40	1B125	
SP4	6" PM 3-40	1B125	

RECTIFIERS

REPLACEMENT DATA			
ITEM No.	RATING	COLUMBIA PART No.	NOTES
M1	.055A	10B615 *	* Silicon Type

PHONO CARTRIDGE

REPLACEMENT DATA			
ITEM No.	COLUMBIA PART No.	REMARKS	NOTES
M2	CD-1		

PHONO NEEDLE

(FOR REPLACEMENT IN ORIGINAL EQUIPMENT CARTRIDGE)

REPLACEMENT DATA			
ITEM No.	COLUMBIA PART No.	REMARKS	NOTES
M3	(Part of M2)		

CABINETS & CABINET PARTS

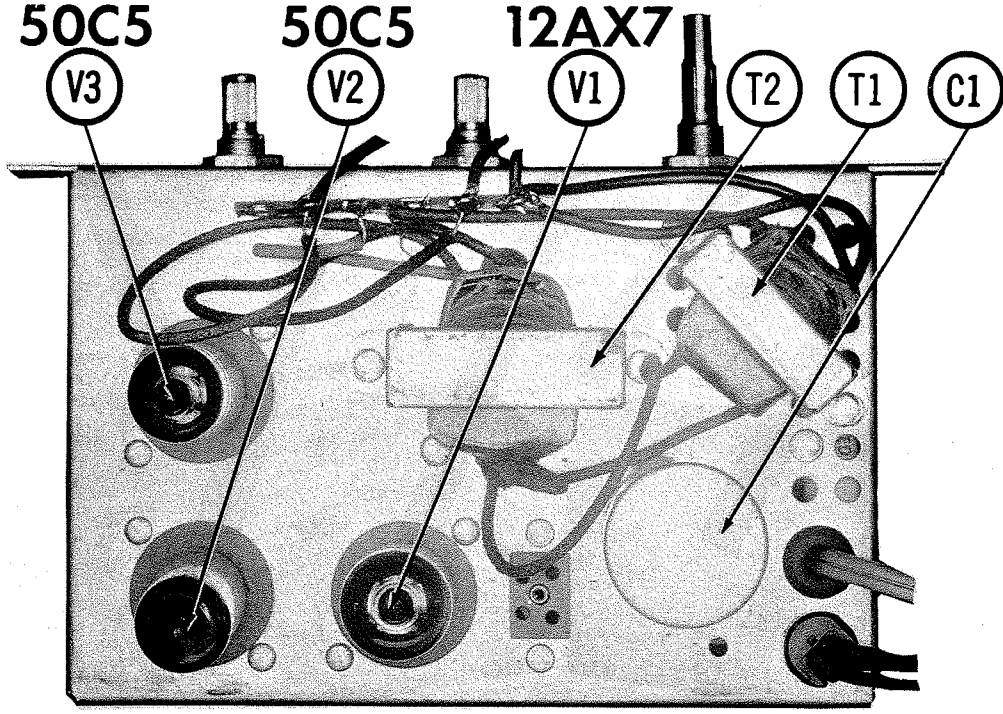
(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART No.	DESCRIPTION
Knob	8B501	Black, chrome insert 1/4" Extension
Knob	8B502	Black, chrome insert
Knob	8B503	Clear
Cabinet	17B828	

FOLDER 5

COLUMBIA
MODEL 909

CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

