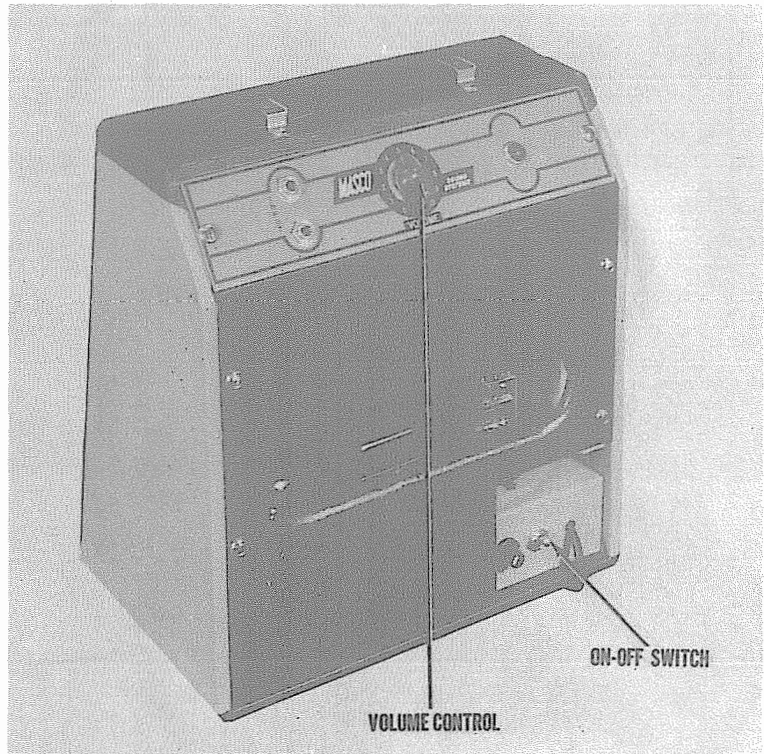


PHOTOFACT* Folder

MASCO MODEL MAP-105



MASCO
MODEL MAP-105

TRADE NAME	Masco, Model MAP-105
MANUFACTURER	Mark Simpson Co., Inc., 32-28 49th St., Long Island City 3, N.Y.
TYPE SET	AC Operated Phonograph with 3 Tube Amplifier & Speaker
TUBES (THREE)	Types, 7F7 AF Amp., 6V6GT Power Output, 6X5GT Rectifier.
POWER SUPPLY	110-120 Volts AC
	RATING .270 Amp. @ 117 Volts AC

VOLTAGE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	7F7	9.2VDC*	.75VDC	87VDC	0V.	0V.	87VDC	.72VDC	9.2VDC*
2	6V6GT	0V.	9.2VDC*	270VDC	200VDC	0V.	285VDC	9.2VDC*	9.2VDC
3	6X5GT	0V.	9.2VDC*	250VAC	0V.	250VAC	0V.	9.2VDC*	285VDC

* 6.8VAC BETWEEN FILAMENT PINS.

RESISTANCE READINGS									
Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	7F7	250Ω	950Ω	270KΩ	500KΩ	500KΩ	270KΩ	1KΩ	250Ω
2	6V6GT	0Ω	250Ω	120KΩ	140KΩ	300KΩ	120K	250Ω	250Ω
3	6X5GT	INF.	250Ω	170Ω	INF.	180Ω	INF.	250Ω	120K

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY
ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

- DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms.
- 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 on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.

HOWARD W. SAMS & CO., INC. • 2924 East Washington Street • 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 the particular type of replacement part listed."

"Reproduction or use, without express permission, of editorial or pictorial con-

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1947 by Howard W. Sams & Co., Inc., Indianapolis, Indiana, U. S. A. Copyright under International Copyright Union. All rights reserved under Inter-American Copyright Union (1910) by Howard W. Sams & Co., Inc."

Printed in U. S. of America

MASCO
MODEL MAP-105

PARTS LIST AND DESCRIPTIONS
 TUBES (SYLVANIA or Equivalent)

MASCO MODEL
MAP-105

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	AF Amp.	7P7	6X5GT	6X5GT	
2	Power Output	6V6GT	6V6GT	71C	
3	Rectifier	6X5GT	6X5GT	6S	

CAPACITORS

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

ITEM No.	RATING	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
		MASCO PART No.	CORNELL DUBIER PART No.	MALLORY PART No.	SOLAR PART No.	SPRAGUE PART No.	
4	16 450		BR1645	SR597	K-16-450	UT-16	PRS450-16
5	16 450		BR1645	SR597	K-16-450	UT-16	PRS450-16
6	10 50		BR1050	SR595	K-10-50	UT-10	PRS50-10
7	10 50		BR1050	SR595	K-10-50	UT-10	PRS50-10
8	10 500		DT650	TP418	XP418	TC-1	634-1
9	.005 600		DT650	TP408	S-6-005	TC-25	634-005
10	.005 600		DT650	TP408	S-6-005	TC-25	634-005

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		MASCO PART No.	MALLORY PART No.	IRC PART No.	CLAROSTAT PART No.	
11A	500KΩ 1 B Shaft	01C-057	MR48	D13-133	K-50-2	Volume Control
		Not Req.	Not Req.	A	Not Req.	Attach to 11k per instruction

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		MASCO PART No.	IRC PART No.		
12	470KΩ		BTS-470K	Y1-V1-V1-AF Grid	
13	1000Ω		BTS-1000	Br.-Blk.-Red AF Cathode	
14	100KΩ		BTS-100K	Br.-Blk.-Red AF Cathode	
15	100KΩ		BTS-100K	Br.-Blk.-Red AF Cathode	
16	100KΩ		BTS-100K	Br.-Blk.-Or. AF Plate Load	
17	27KΩ		BTS-27K	Red-V1-V1 Feedback	
18	27KΩ		BTS-27K	Red-V1-V1 Output Grid	
19	500Ω		BTA-470	Grn.-Blk.-Br. Output Cathode	
20	500Ω		BTA-470	Grn.-Blk.-Br. Output Cathode	
21	25KΩ		BTS-27K	Red-Grn.-Or. Filter	
22	47KΩ		BTS-47K	Y1-V1-V1-Or. Filter	
23	47KΩ		BTS-47K	Y1-V1-V1-Or.	

TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	STANCOR PART No.	MERIT PART No.	
24	117V AC 500V CT 6.5V AC @ .27A @ .039A @ 1.4A		A-5S	T-22R00*	P-2949*

*Drill new mounting holes.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	STANCOR PART No.	MERIT PART No.	
25	IMPEDANCE PRI. SEC. DC RES. PRI. SEC. 9500Ω 3.7Ω 440Ω .45Ω		A-3924	T2258B	A-2932T
			0-6S		1Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		MASCO PART No.	JENSEN PART No.	
26	FIELD PRI. SEC. VC IIP. 3.7Ω		ST-115	
			Mod. PB-V	
27	7-8/8" 5/8"			NOT READILY REPLACEABLE—USE COMPLETE SPEAKER UNIT.

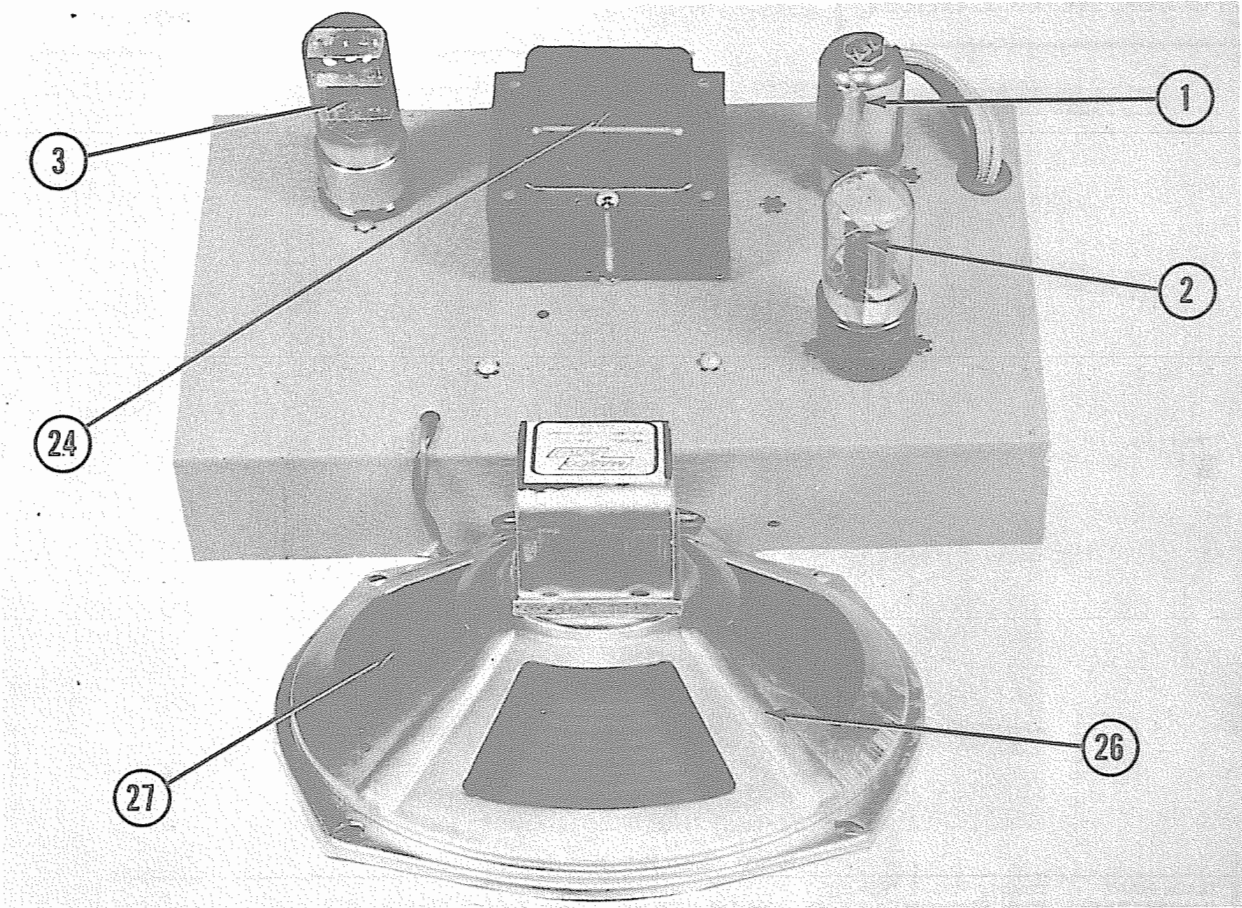
DIAL LIGHT

ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				MASCO PART No.	BEAD COLOR	
28	Bayonet	6-8	0.15	Brown		Type 47

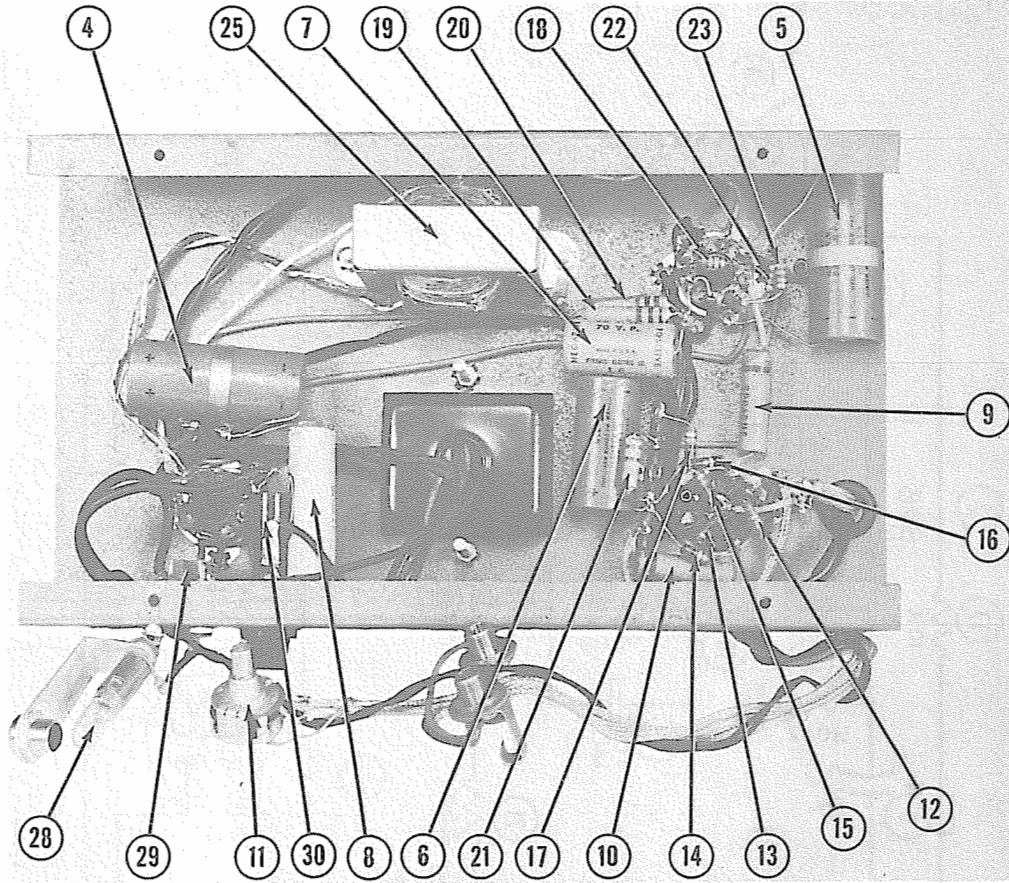
MISCELLANEOUS

ITEM No.	PART NAME	MASCO PART No.	NOTES
29 Switch			Power "On-Off"
30 Fuse			5 AMP.

- DISASSEMBLY INSTRUCTIONS
1. Remove four wood screws holding cover board on back of cabinet. Remove board from cabinet.
 2. Remove two wood screws holding control panel to cabinet.
 3. Loosen set screw which holds one control knob.
 4. Remove three 1/4" hex nuts holding control shaft and input jacks in control panel.
 5. Remove three 1/4" hex nuts holding speaker from speaker.
 6. Remove four screws holding chassis in cabinet. Remove chassis from cabinet.
 7. Remove four hex nuts holding speaker in cabinet. Remove speaker from cabinet.



CHASSIS—BOTTOM VIEW



MASCO MODEL
MAP-105

MASCO MODEL
MAP-105