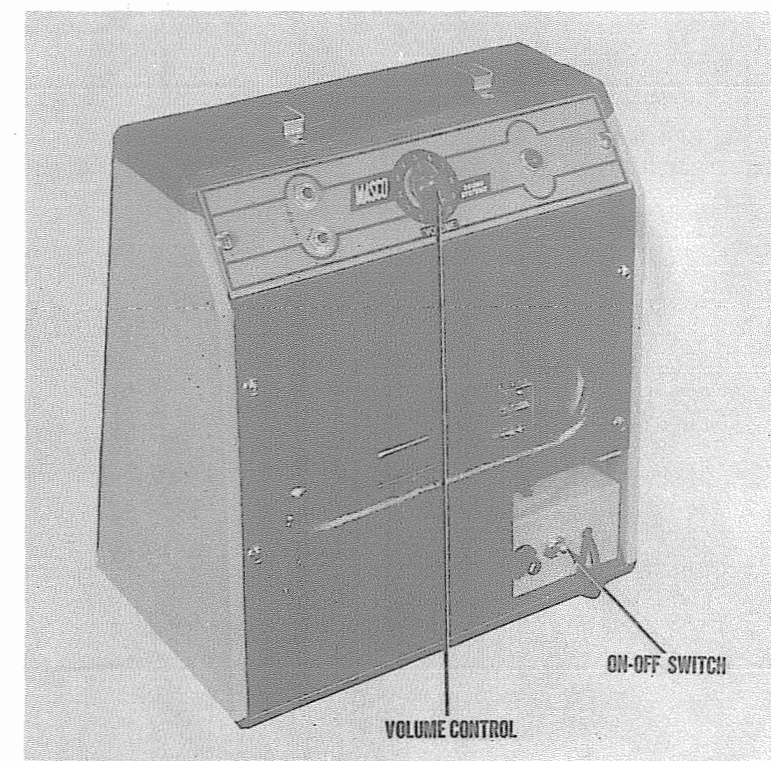


A PHOTOFACT STANDARD NOTATION SCHEMATIC

© Howard W. Sams & Co., Inc. 1947  
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

PHOTOFACT\* Folder

MASCO  
MODEL MAP-105



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

# PARTS LIST AND DESCRIPTIONS TUBES (SYLVANIA or Equivalent)

MASCO MODEL  
MAP-105

ITEM No.	USE	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	STANDARD REPLACEMENT	RMA BASE TYPE	
1	AF Amp. Output	6V6GT	6X5GT	91C	
2	Power Output	6V6GT	6X5GT	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 DUBIERRE PART No.	SOLAR PART No.	SPRAGUE PART No.	
4	16 450	BR1645	SRS97	K-16-450	UT-16	FRS450-16
5	16 450	BR1645	SRS97	K-16-450	UT-16	FRS450-16
6	10 50	BR105	SRS95	K-10-50	UT-10	FRS50-10
7	10 50	BR105	SRS95	K-10-50	UT-10	FRS50-10
8	10 50	BR105	SRS95	K-10-50	UT-10	FRS50-10
9	.005 600	D76D5	TP416	TP416	TC-1	634-1
10	.005 600	D76D5	TP408	S-6-005	TC-25	634-005
		D76D5	TP408	S-6-005	TC-25	634-005

## CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	MALLOY PART No.	IRC PART No.	
11A	500KΩ B Shaft	01C-057	MR48	D13-133	K-80-2 Not Req. Volume Control Attach to ilk per instruction

## RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		IDENTIFICATION CODES
		MASCO PART No.	IRC PART No.	
12	470KΩ		BTS-470K	Yl.-Vi.-Vl. AF Grid
13	100KΩ		BTS-100K	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-10K	Br.-Blk.-Or. AF Plate Load
17	20KΩ		BTS-270K	Red-Vl.-Vl. Feedback
18	500KΩ		BTA-470	Red-Vl.-Vl. Output Grid
19	500KΩ		BTA-470	Grn.-Blk.-Br. Output Cathode
20	25KΩ		BTS-27K	Red-Grn.-Or. Filter
21	25KΩ		BTS-47K	Yl.-Vi.-Or. Filter
22	47KΩ		BTS-47K	Yl.-Vi.-Or.
23	47KΩ		BTS-47K	Yl.-Vi.-Or.

## TRANSFORMER (POWER)

ITEM No.	RATING	REPLACEMENT DATA			MERIT PART No.
		MASCO PART No.	STANCOR PART No.	THORPARN PART No.	
24	117V AC 1500 CT 6.5V AC ⑥ .27A @ .039A @ 1.4A	A-55	P-6297*	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.	THORPARN PART No.	
25	DC RES. PRI. SEC. 3.7Ω 440Ω .45Ω	A-3924	T2258B	A-2532T	1Drill one new mounting hole.

### SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA		INSTALLATION NOTES
		MASCO PART No.	JENSEN PART No.	
26	FIELD VC IIP. PM 3-72	AV-8	ST-115	
27	7-5/8" VC DIA. 5/8"	NOT READILY REPLACEABLE—USE COMPLETE SPEAKER UNIT.		

### DIAL LIGHT

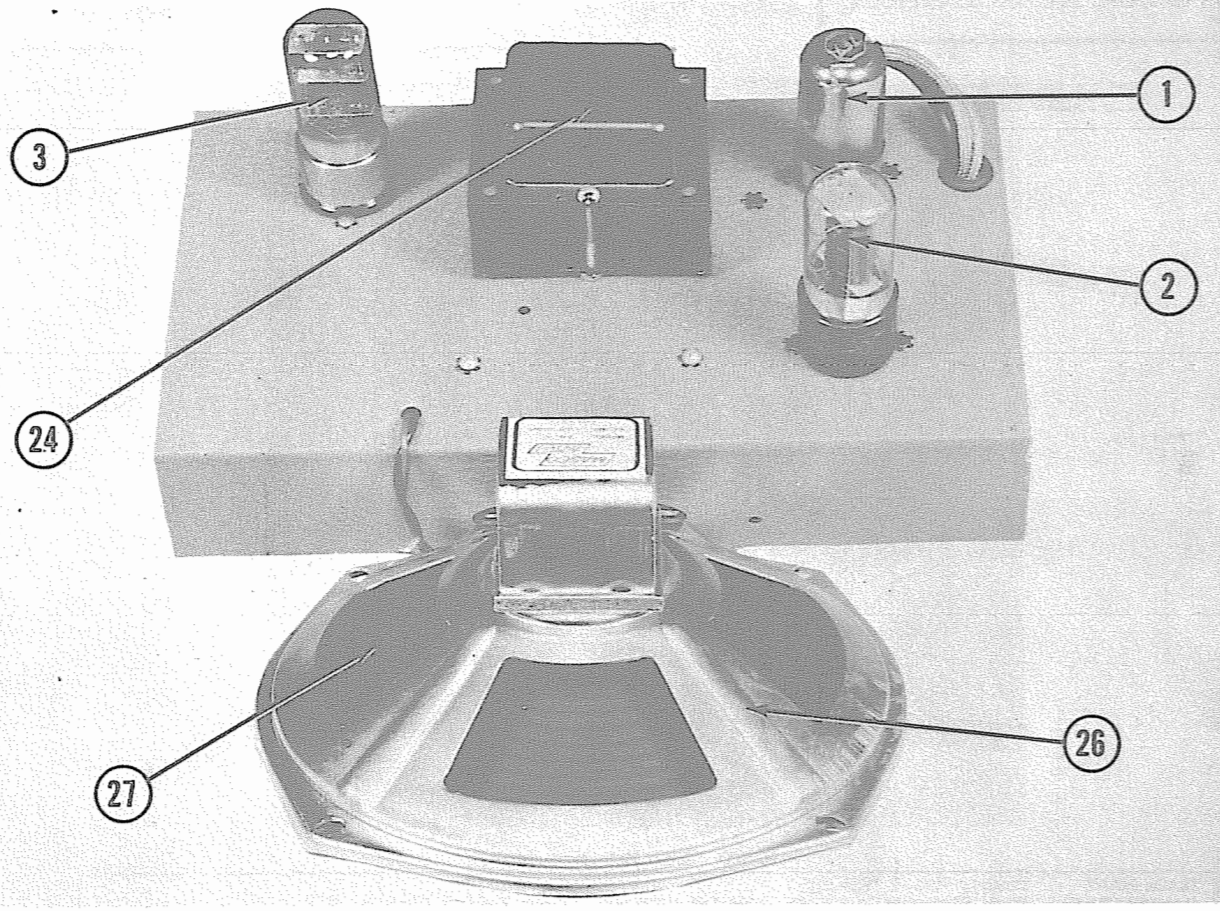
ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				MASCO PART No.	READ COLOR	
28	Bayonet	6-8	0.15	Brown		Type 47

### MISCELLANEOUS

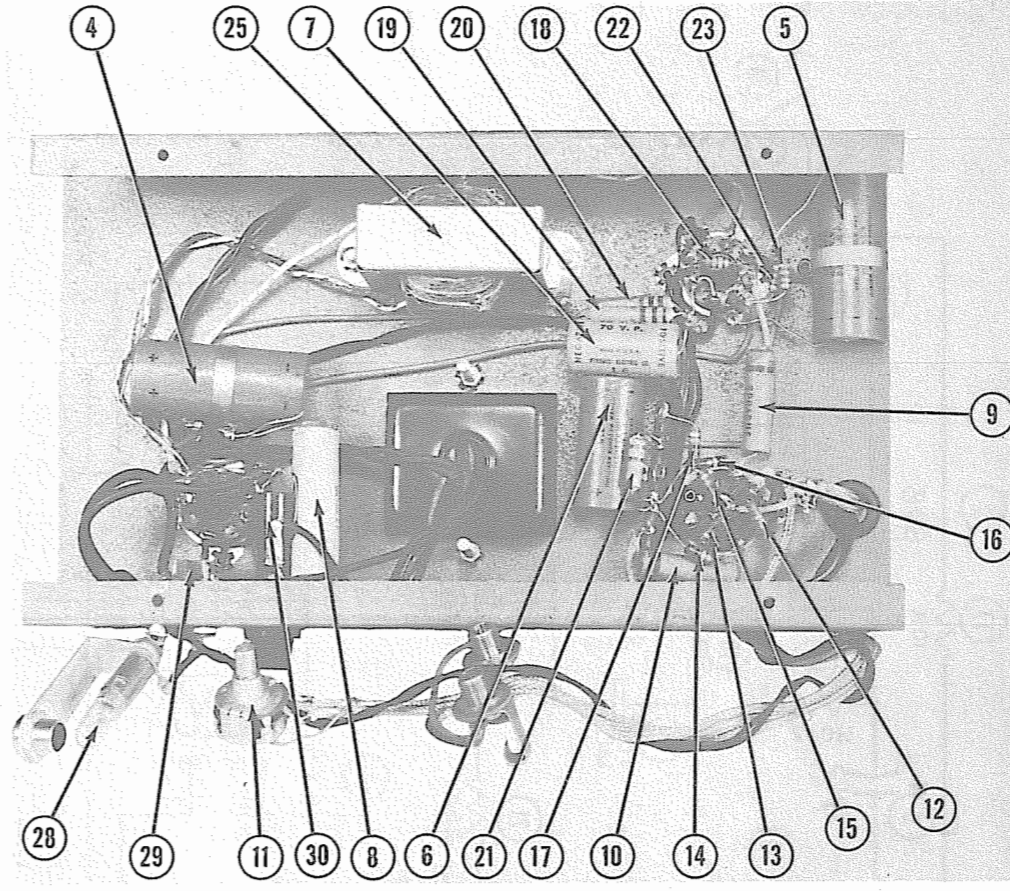
ITEM No.	PART NAME	MASCO PART No.	NOTES
29	Switch		Power "On-Off"
30	Fuse		5 AMP.

- 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 nuts holding one control knob.
  4. Remove three screws holding control shaft and input jacks in control panel.
  5. Remove three screws 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—TOP VIEW



## CHASSIS—BOTTOM VIEW



MASCO MODEL  
MAP-105

MASCO MODEL  
MAP-105