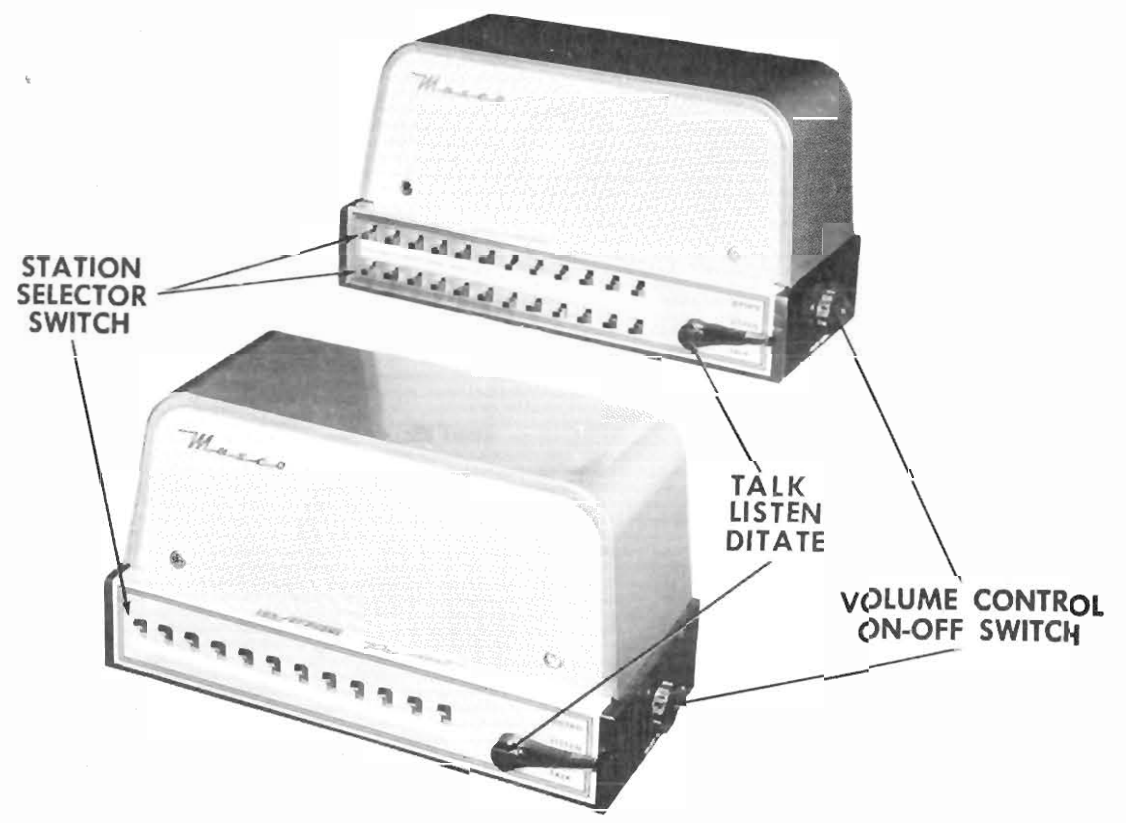


MASCO  
MODELS AC-12, AC-24, ACL, ACS, ACS-6

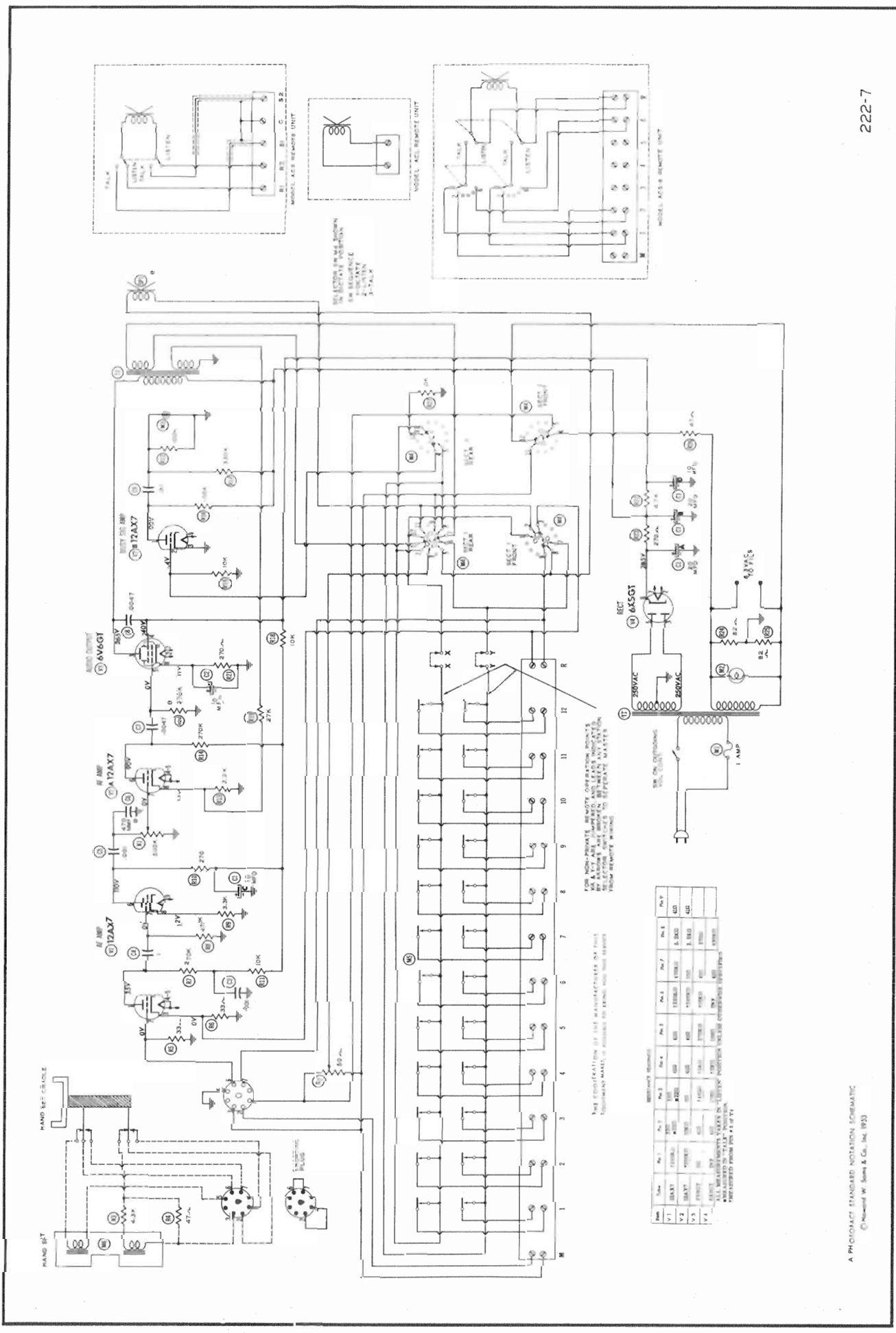


TRADE NAME	Masco Models AC-12, AC-24 (master units ), ACL, ACS, ACS-6 (Speaker units)	
MANUFACTURER	Mark Simpson Mfg. Co., Inc., 32-28 49th St., Long Island City, N. Y.	
TYPE SET	AC Operated 12 or 24 Channel Intercommunication System	
TUBES (Four)	Types (2) 12AX7 AF Amp., 6V6GT Audio Output, 6X5GT Rectifier	
POWER SUPPLY	110-120 Volts AC	RATING .32 Amp. @ 117 Volts AC

HOWARD W. SAMS & CO., INC. • Indianapolis 5, 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."

tent, in any manner, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. Copyright 1953 by Howard W. Sams & Co., Inc., Indianapolis 5, Indiana, U. S. of America. 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



- 1 - DC voltage measurements are at 20,000 ohms per volt, 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 on component values makes possible a variation of  $\pm 15\%$  in voltage and resistance readings.
- 6 - All controls at minimum, proper output load connected.

A PHOTOFACT STANDARD NOTATION SCHEMATIC  
© Howard W. Sams & Co., Inc. 1953

PARTS LIST AND DESCRIPTIONS

MASCO  
MODEL AC-12

TUBES (SYLVANIA, GENERAL ELECTRIC or Equivalent)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		MASCO PART No.	STANDARD REPLACEMENT	RTMA BASE TYPE	
V1	AF Amplifier	12AX7	12AX7	9A	
V2	AF Amplifier	12AX7	12AX7	9A	
V3	Audio Output	6V6GT	6V6GT	7S	
V4	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 CAP.	VOLT	REPLACEMENT DATA				NOTES
			MASCO PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL DUBILIER PART No.	
C1A	20	450		APF4-14		DO13	
C1B	20	450					
C1C	10	450					
C2	10	50		PRS50/10	D6-102	BR105	
C3	.001	600		P688-001	DF-104	PT621	TVA-1304
C4	.001	600		P688-001	D6-102	PT621	6TM-P1
C5	.001	600		SI470	D6-471	GP2L-102	6TM-P1
C6	.471	600		P688-0047	D6-472	GP2K-471	5CA-T47
C7	.0047	600		P688-0047	D6-472	PT6247	6TM-P47
C8	.0047	600		P688-0047	D6-472	GP2-333-472	6TM-P47
C9	.01	600		P688-01	D6-103	GP2-333-103	6TM-S1

Note 1 Some models use .001MFD in this application

CONTROLS

ITEM No.	RATING RESIST. ANCE	WATTS	REPLACEMENT DATA				INSTALLATION NOTES
			MASCO PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	500KΩ	2		BA012-246	AG-80-Z	B-80-S	Outgoing volume
R1B	500KΩ	2		Not Req.	RS-2	Not Req.	Attach to R1A
R2A	500KΩ	2		Not Req.	SWB	Not Req.	Attach to R1A
R2B	500KΩ	2		Not Req.	A43-501	VK-118T	Incoming Volume-Wire Wound
R2C	500KΩ	2		Not Req.	FKS-1/4	Not Req.	Attach to R2A

\*Use Mallory Washers Nos. 203 & 212 to insulate control from chassis.  
†Use original insulating washers.

RESISTORS

ITEM No.	RATING OHMS	WATT	REPLACEMENT DATA		NOTES
			MASCO PART No.	IRC PART No.	
R3	4300Ω				
R4	47Ω				
R5	33Ω				
R6	33Ω				
R7	270KΩ				
R8	470KΩ				
R9	3300Ω				
R10	270KΩ				
R11	10KΩ				
R12	100KΩ				
R13	2200Ω				
R14	270KΩ				
R15	10KΩ				

Some models may use a 470KΩ resistor in this application.

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA		
	PRI.	SEC. 1	SEC. 2	MASCO PART No.	STANCOR PART No.	CHICAGO PART No.
T1	117VAC @ .32A	500VCT	8.3VAC @ 4A			

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING			REPLACEMENT DATA		
	IMPEDANCE	DC RES.	PRI. SEC.	MASCO PART No.	STANCOR PART No.	CHICAGO PART No.
T2	4.8KΩ	194Ω	3.1Ω SEC. 2 2.2Ω			

SPEAKER

ITEM No.	RATINGS			REPLACEMENT DATA		
	SIZE	FIELD	V. C. IMP.	MASCO PART No.	JENSEN PART No.	QUAM PART No.
SP1	4"	PM	450		ST-759	4A07245
SP2	3 1/2"	PM	450		Mod. PAX	3A07245

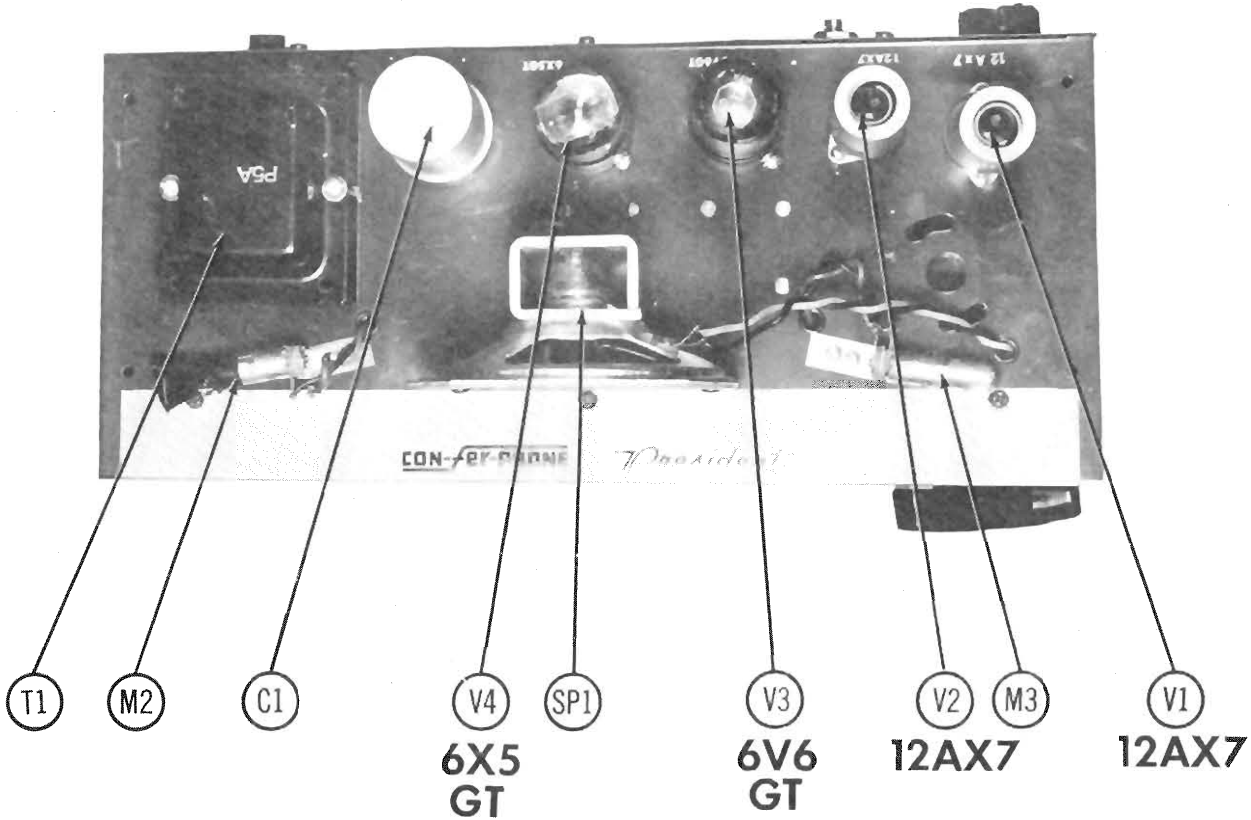
FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			FUSE	HOLDER	LITTELFUSE PART No.	BUSS PART No.
M1	3AG	1A@ 250V			312001	341001

MISCELLANEOUS

ITEM No.	PART NAME	MASCO PART No.	NOTES
M2	Pilot Lamp		Type #47
M3	Indicator Lamp		Busy Signal (Type #NRS1)
M4	Switch	27-PT-1085	"Press to talk"
M5	Switch		Station Selector (Consists of 12 or 24 DPST units) (Optional)
M6	Handset		

CHASSIS—TOP VIEW



CHASSIS—BOTTOM VIEW

