

**MASCO MODEL
MAP-120N**



MASCO MODEL MAP-120N

TRADE NAME	Masco, Model MAP-120N
MANUFACTURER	Mark Simpson Mfg. Co., Inc., 32-28 49th St., Long Island City 3, N.Y.
TYPE SET	AC Operated Musical Instrument Amplifier
TUBES (FIVE)	Types, 6SL7GT AF Amp., 6SL7GT AF-Phase Inv., (2) 6V6GT Power Output, 5Y3GT Rectifier.
POWER SUPPLY	110-120 Volts AC
RATING	.62 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	6SL7GT	0V.	120VDC	.4VDC	0V.	100VDC	.2VDC	18.5VDC	18.5VDC
2	6SL7GT	0V.	120VDC	.2VDC	0V.	120VDC	.2VDC	18.5VDC	18.5VDC
3	6V6GT	0V.	18.5VDC	340VDC	300VDC	0V.	0V.	18.5VDC	18.5VDC
4	6V6GT	0V.	18.5VDC	340VDC	300VDC	0V.	0V.	18.5VDC	18.5VDC
5	5Y3GT	0V.	380VDC	0V.	340VAC	0V.	340VAC	0V.	380VDC

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
1	6SL7GT	0Ω	300KΩ	4.7KΩ	50KΩ	300KΩ	2.2KΩ	250Ω	250Ω
2	6SL7GT	25KΩ	420KΩ	4.7KΩ	500KΩ	420KΩ	4.7KΩ	250Ω	250Ω
3	6V6GT	INF.	250Ω	100KΩ	100KΩ	520KΩ	INF.	250Ω	250Ω
4	6V6GT	0Ω	250Ω	100KΩ	100KΩ	500KΩ	INF.	250Ω	250Ω
5	5Y3GT	INF.	100KΩ	INF.	56Ω	INF.	50Ω	INF.	100KΩ

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

- 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 ± 15% in voltage and resistance readings.
- 6 - All controls at minimum, proper output load connected.

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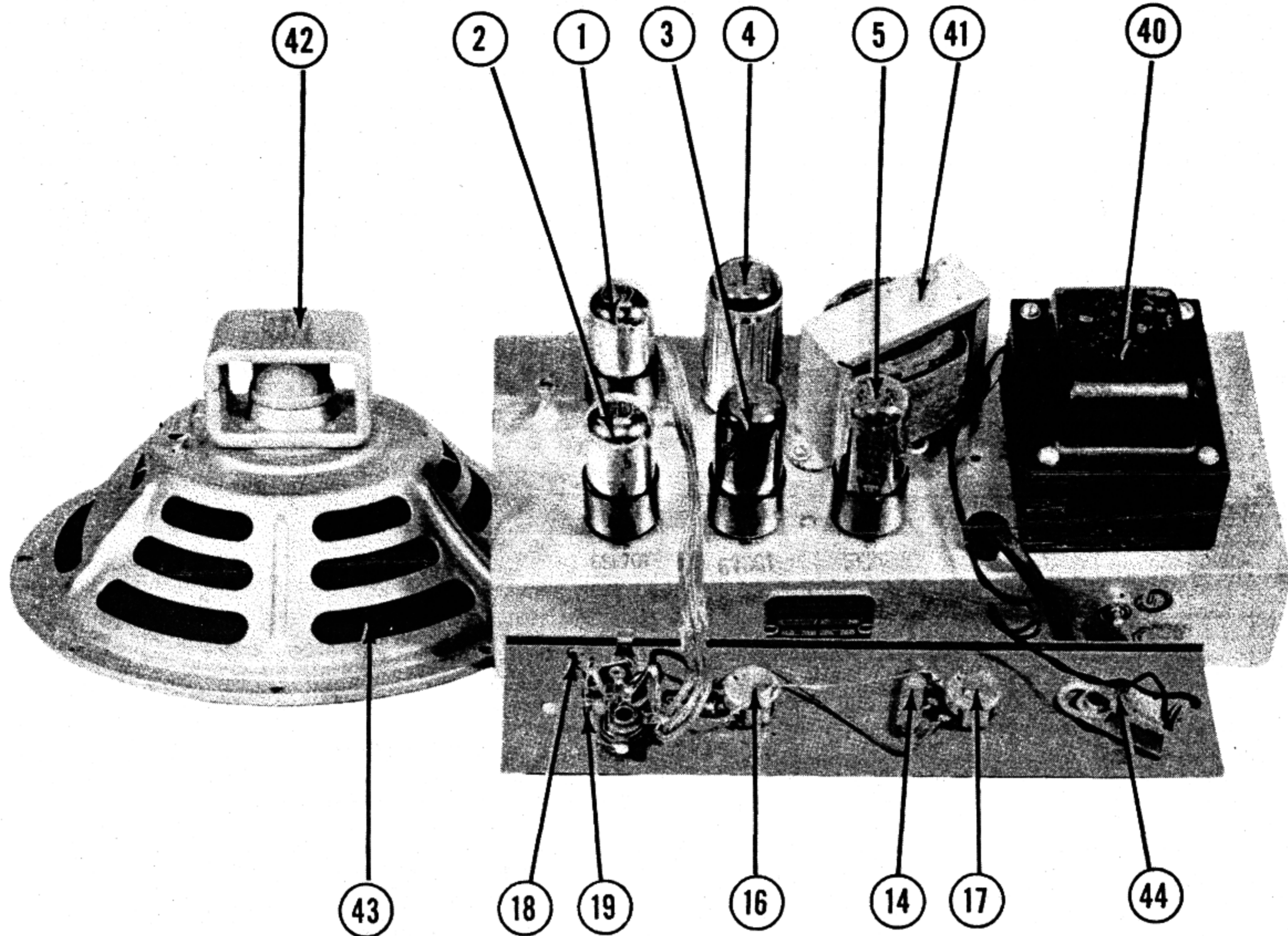
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PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

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CHASSIS--TOP VIEW



ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	INSTALLATION NOTES
		MASCO PART No.	STANDARD REPLACEMENT			
1	AF Amp.	6SL7GT	6SL7GT	8BD		
2	AF & Phase Inv.	6SL7GT	6SL7GT	8BD		
3	Power Output	6V6GT	6V6GT	7AC		
4	"	6V6GT	6V6GT	7AC		
5	Rectifier	5Y3GT	5Y3GT	5T		

CAPACITORS

Capacity values given in the rating column are in mid. 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.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	SPRAGUE PART No.	
6A	8 CAP.		PRSA450/8-8	EDL8845	DH-2x8-450	UT-88 Filter
B	8 450					"
7	8 450		PRSA450-8	BR845	M-8-450	UT-8
8A	8 450		PRSA450/8-8	EDL8845	DH-2x8-450	UT-88
B	8 450					"
9	10 50		PRS50-10	BR105	M-10-50	TA-510
10	10 50		PRS50-10	BR105	M-10-50	TA-510
11	.005 600		684-005	DT6D5	ST-6-005	TC-25
12	.005 600		684-005	DT6D5	ST-6-005	TC-25
13	.005 600		684-005	DT6D5	ST-6-005	TC-25
14	.01 600		684-01	DT6S1	ST-6-01	TC-11
15	.001 500		684-001	DT6D1	ST-6-001	TC-21

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		MASCO PART No.	IRC PART No.	CLAROSTAT PART No.	
16A	500KΩ		D13-133	M-60-Z	Volume Control
B	Shaft		A	Not Req.	Attach to 16A per instructions
17A	500KΩ		D13-133	M-60-Z	Tone Control
B	Shaft		A	Not Req.	Attach to 17A per instructions

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		MASCO PART No.	IRC PART No.		
18	100KΩ			BTS-100K	Br.-Blk.-Yl. Isolation
19	100KΩ			BTS-100K	Br.-Blk.-Yl.
20	2200Ω			BTS-2200	Red-Red-Red 1st AF Cathode
21	100KΩ			BTS-100K	Br.-Blk.-Yl. 1st AF Plate Load
22	47KΩ			BTS-47K	Yl.-Vl.-Or. Vol. Cont. Shunt
23	4700Ω			BTS-4700	Yl.-Vl.-Red 2nd AF Cathode
24	100KΩ			BTS-100K	Br.-Blk.-Yl. 2nd AF Plate Load
25	470KΩ			BTS-470K	Yl.-Vl.-Yl. 3rd AF Grid
26	4700Ω			BTS-4700	Yl.-Vl.-Red 3rd AF Cathode
27	270KΩ			BTS-270K	Red-Vl.-Yl. 3rd AF Plate Load
28	270KΩ			BTS-270K	Red-Vl.-Yl. Ph. Inv. Plate Load
29	4700Ω			BTS-4700	Yl.-Vl.-Red Ph. Inv. Cathode
30	27KΩ			BTS-27K	Red-Vl.-Or. Ph. Inv. Grid
31	470KΩ			BTS-470K	Yl.-Vl.-Yl. Output Grid
32	500KΩ			BTS-470K	Grn-Blk.-Yl. Output Grid
33	250Ω			AB-250	Output Cathode

PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES
	RESISTANCE	WATTS	MASCO PART No.	IRC PART No.	
34	47K Ω	1/4	BTS-47K	BTS-47K	Y1.-V1.-Or. Decoupling
35	47K Ω	1/4	BTS-10K	BTS-10K	Y1.-V1.-Or.
36	10K Ω	1/4	BTS-10K	BTS-10K	Br.-Bik.-Or. Filter
37	10K Ω	1/4	AB-400	AB-400	Br.-Bik.-Or.
38A	400 Ω	1/4	AB-200	AB-200	"
38B	200 Ω	1/4	BTS-47K	BTS-47K	"
39	47K Ω	1/4			Y1.-V1.-Or. Feedback

Note 1-Used on models using power transformer No. MA-17A.

Note 2-Used on models using power transformer No. A-12D.

TRANSFORMER (POWER)

ITEM No.	RATING		REPLACEMENT DATA			MERIT PART No.
	PRI.	SEC.	MASCO PART No.	STANCOR PART No.	THORDARSON PART No.	
40A	1.17V AC	680V CT	MA-17A	P-6014	T22R05	A-2953
B	0.62A	0.78A DC @ 2.0A	A-12D	P-6013	T22R02	

TRANSFORMER (OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	IMPEDANCE	DC RES.	MASCO PART No.	STANCOR PART No.	MERIT PART No.	
41	1050 Ω	6.1 Ω	0-128	A-3824	T22856	A-2936†
	CT	CT				†Drill one new mounting hole.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA			INSTALLATION NOTES
	FIELD	VC IMP.	MASCO PART No.	JENSEN PART No.	QUAM PART No.	
42	6.1 Ω	6.1 Ω	ST-120	ST-120	10A4	
43	9-3/8"	1"	Mod. P10-S	Mod. P10-S	10A4	

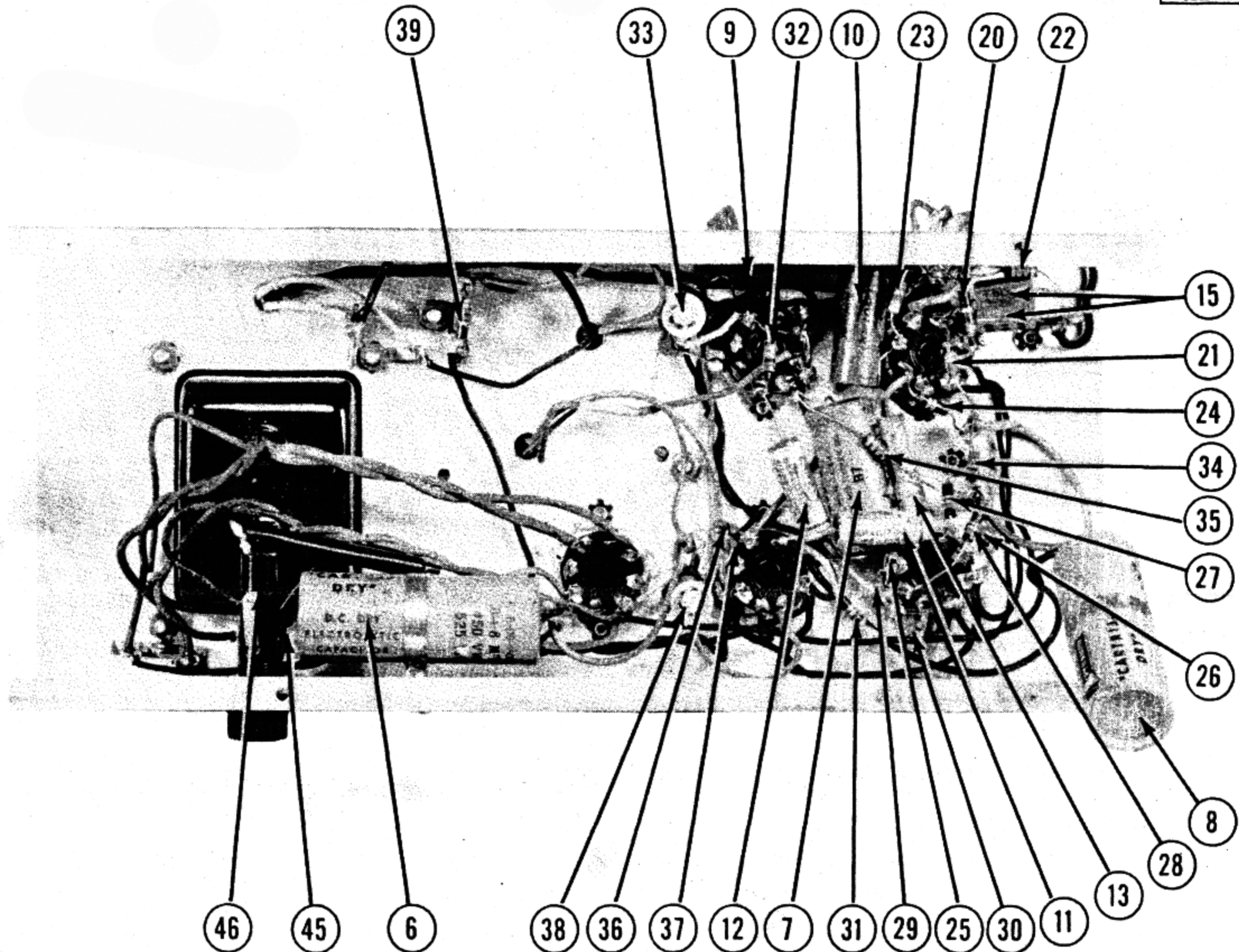
DIAL LIGHT

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

MISCELLANEOUS

ITEM No.	PART NAME	MASCO PART No.	NOTES
45	Switch		On-Off (SPST)
46	Fuse		3 Amp.

CHASSIS--BOTTOM VIEW



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