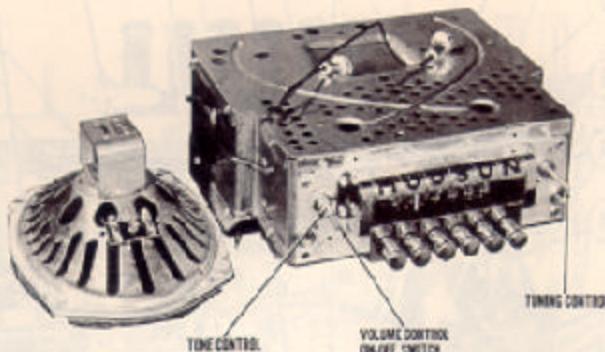


**HUDSON MODEL DB48
(FACT. #6MH889)**

PHOTOFACTM Folder

**HUDSON MODEL DB48
(FACT. #6MH889)**



HUDSON MODEL DB48

TRADE NAME	Hudson, Model DB48 (Factory Model 6MH889)				
SUPPLIER	Hudson Motor Car Co., Detroit, Mich.				
TYPE SET	Battery-Operated Custom-Built Automotive Superheterodyne Receiver				
TUBES (SIX)	Types, 7AY RF Amp., 7BS Converter, 6BA6 IF Amp., 7BG Det.-AVC-AF, 6V6GT Power Output, 7Y4 Rectifier.				

POWER SUPPLY	6 Volt Storage Battery	RATING	6 Amp. @ 6.3 Volts		
TUNING RANGE—BROADCAST	540-1600KC				

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

For dummy antenna connect two 20MF² capacitors in series and place across the output of the sig. gen. Connect receiver antenna to the junction of the capacitors and connect low side of sig. gen. to chassis. This value of dummy antenna must be used to insure proper tracking when installed in car. If calibration is off after completing adjustments it can be corrected by loosening dial scale mounting screws and sliding scale to desired position. If screws are adjusted apply speaker cement to care screw threads.

Volume control should be at maximum position, output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1 .1 MFD. High side to Pin 3 (grid) of 7BS. Low side to chassis.		265KC	Tuning slugs fully out.	Across voice coil	A1,A2, A3,A4.	Adjust for maximum output.
2 300 pcf. High side to ant. lead. Low side to chassis.		535KC	Tuning slugs fully in.	*	A5	" " "
3 *		1200KC	Tune for maximum output.	*	A6,A7	Adjust for maximum output. If dial calibration is off pointer may be corrected by adjusting can screw at end of pointer.
4 See pre-align. alignment in structures.	High side to ant. load. Low side to chassis.	1700KC	High freq. end of dial.	Across voice coil	A5,A6, A7	Screw the cores completely out of the antenna, converter, and oscillator coils. Adjust A5, A6 and A7 for maximum output. Reposition cores to their approximate original positions.
5 *	*	1200KC	1200KC	*	A8	Adjust for maximum output.
6 *	*	600KC	*	*	A9,A10	
7 *	*	600KC	Tune for maximum output.	*	All	Rock tuning control and adjust for maximum output. Check receiver at 1200KC. If weak or off calibration, repeat Steps 5, 6 & 7. Check sign freq. end limit. Bend mechanical stop for cross arm to make end limit exactly 1600KC.

PUSHBUTTON ADJUSTMENT

There are six automatic tuning positions which may be adjusted to six desired stations. Adjust as follows:

1. Loosen the first pushbutton by turning counter-clockwise with the fingers.
2. Turn manual tuning control to the desired station. Turn very carefully for clearest reception.
3. Depress first pushbutton and release. Tighten securely with fingers.
4. Repeat the procedure outlined above for the remaining pushbuttons.

HOWARD W. SAMS & CO., INC. • 2924 East Washington Street • Indianapolis 7, Indiana

The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guarantee 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 manufacturer of the particular type of replacement part listed.

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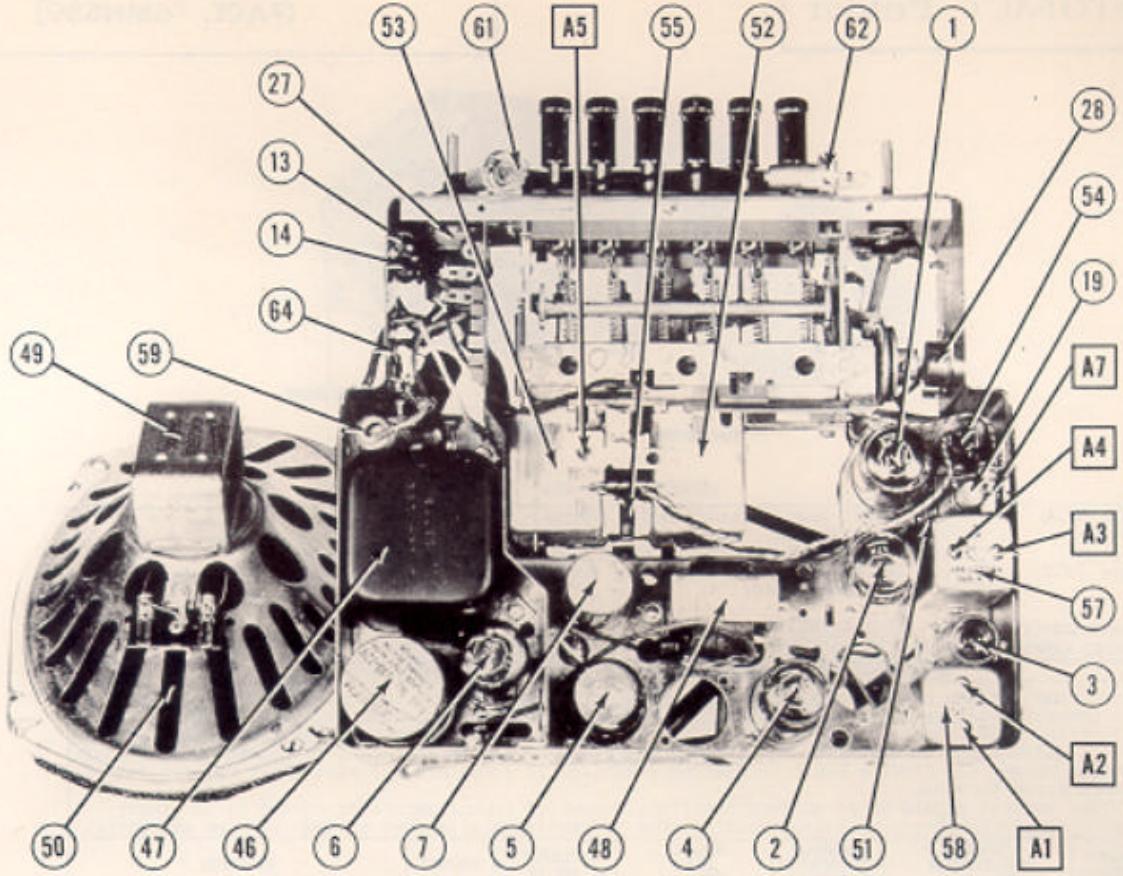
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DATE 5/48-#400-9 SET #39-FOLDER #9

**HUDSON MODEL DB48
(FACT. #6MH889)**

PARTS LIST AND DESCRIPTIONS

CHASSIS—TOP VIEW



CAPACITORES

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

ITEM No.	USE	REPLACEMENT DATA		AMA BASE TYPE	INSTALLATION NOTES
		ARTICLE No.	ARTICLE No.		
1	RF Ant. Coaxial	747	747	S	
2	15 Amp. Day-Nite-AP Power Output	758	8544H	SX	
3	15 Amp. Day-Nite-AP Power Output	756	8544T	TR	
4	15 Amp. Day-Nite-AP Power Output	756	8544T	SX	
5	15 Amp. Day-Nite-AP Power Output	754	8544T	SX	

TUBES (SYLVANIA or Equivalent)

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		ITEM No.	AIRVOX PART No.	CORNELL- DUBILIER PART No.	SOLAR PART No.	
7A	20	350	22-1644		UT-20025-350	EL-212*
B	10	300	1650	22-1648		Filter Sh. Filter
	.000	100				
2	.6	100				
10	1.0	100				
11	.005	600	22-1656		SHH-1	70-5
12	.010	600	22-1170	686-01	UT-0005	70-26
13	.003	300	22-1180	686-03	UT-001	70-21
14	.02	800		686-05	UT-003	70-23
15	.005	200	22-9106	686-02	UT-002	70-22
16	.005	200	22-1793	686-04	UT-004	70-20
17	.05	200	22-1650	686-05	UT-001	70-15
18	.1	200	22-1190	686-1	UT-002	70-1
19	.005	400		686-05	UT-001	70-25
20	.250	500	22-1198	1468-000018	SH-000	70-5-305
21	1.00	300	22-3565	1468-00001	SAT-1	127-51
22	1.00	300	22-3865	1468-00001	SAT-1	127-51
23	280	500				
24	200	500				
25	100	500				
26	100	500				

CONTROLS

CONTROLS				INSTALLATION NOTES	
ITEM No.	RATING RESIST- ANCE	REPLACEMENT DATA		GLASS/TAY PART No.	Volts Control Tapped @ 1000V None from Sensitivity Control
		GE/SMITH PART No.	IEC PART No.		
27A	WATTS 50000	T	657-13507ES		
28	WATTS 80.0	T	657-2574		

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA				IDENTIFICATION CODES
		RESISTANCE WATTS	ZENITH PART No.	IRC PART No.	OR- Grid	
229	1.8KΩ 250mW	10	63-1368	RTB-320K	Br-Gray-Or	Br Plate Load
350	1.8KΩ 250mW	10	63-1411	RTB-18K	Br-Or-71	Converter Grid
331	6.8KΩ 250mW	10	63-1262	RTB-32K	Br-Or-71	Cathode Grid
332	10.1MΩ 1Watt	10	63-1082	RTB-10M	Br-EK-320K	Rectifier Grid
333	10.1MΩ	10	63-1401	RTB-10M	Br-EK-320K	Arc Network
354	1.0KΩ 250mW	10	63-1365	RTB-18K	Br-Or-71	Rectifier Plate Load
335	3.3KΩ 250mW	10	63-1366	RTB-32K	Br-Or-71	Boron Doping
336	3.3KΩ 250mW	10	63-1367	RTB-32K	Br-Or-71	Br Arc Network
337	1.2KΩ 250mW	10	63-1368	RTB-32K	Br-Or-71	Tone Compensation
338	1.2KΩ 250mW	10	63-1369	RTB-32K	Br-Or-71	AF Grid
339	1.2KΩ 250mW	10	63-1401	RTB-32K	Br-Or-71	AV Plate Load
340	33.0KΩ 250mW	10	63-1372	RTB-32K	Br-Or-71	AV Grid
410	33.0KΩ	10	63-1373	RTB-32K	Or-Or-71	AV Output Grid
411	33.0KΩ	10	63-1374	RTB-32K	Or-Or-71	Output Cathode
432	18.0KΩ	10	63-1368	RTB-32K	Br-Or-71	Grid Filter
433	18.0KΩ	10	63-1369	RTB-32K	Br-Or-71	Band Suppression
442	8.8Ω	10	63-1369	RTB-32K	Br-Or-71	Gray-Grid
445	15.0KΩ	10	63-1369	RTB-32K	Br-Or-71	TA Cathode

PARTS LIST AND DESCRIPTIONS (Continued)

CHASSIS—BOTTOM VIEW

VIBRATOR					
ITEM No.	TYPE	INPUT VOLTS/FREQUENCY	ZENITH PART No.	REPLACEMENT DATA	INSTALLATION NOTES
45	Transformer	E, 2 115/50/110/60	550/50		
TRANSFORMER (VIBRATOR)					
ITEM No.	RATING	ZENITH PART No.	STANCOF PART No.	THORDARSON PART No.	MERIT PART No.
47	Freq. 50-100 SEC. 1 SEC. 2 SEC. 3	SG-1056	P-4054		
	Imp. 500K 300V AC 3.5A				
TRANSFORMER (OUTPUT)					
ITEM No.	RATING	ZENITH PART No.	STANCOF PART No.	THORDARSON PART No.	MERIT PART No.
48	Impedance 500K SEC. 1 SEC. 2 SEC. 3	SG-1056	A-3576	T22347	A-25100
	Output 500V 100W 3.5A				
SPEAKER					
ITEM No.	RATING	ZENITH PART No.	JENSEN PART No.	QUAM PART No.	INSTALLATION NOTES
49	Freq. 1000-1500 SEC. 1 SEC. 2 SEC. 3	SG-6235	41-6235	SG-6235	
	Imp. 8Ω 10W 3.5A				
R F COILS					
ITEM No.	USE	DC RES.	ZENITH PART No.	MESSNER PART No.	INSTALLATION NOTES
51	Ant. Choke	Freq. SEC.			
52	Ant. Coil		752		
53	RF Coil		1222		
54	RF Coil		1223		
55	Coax. Coax. Coax. Coax. Coax. Coax. Coax. Coax.	3.5Ω	7.4Ω		
56	Coax. Coax. Coax. Coax. Coax. Coax. Coax. Coax.	3.5Ω	2.4Ω		
57	Coax. Trimmer		402		
58	Input IP		403		
59	Output IP		404		
60	RF Choke		652		
61			652		

DIAL LIGHT					
ITEM No.	BASE TYPE	VOLTS	AMPS.	LEAD COLOR	REPLACEMENT DATA
51	Fluorescent	6-8	0.25	Blue	ZENITH PART No.
52	Fluorescent	6-8	0.25	Blue	Type 44

MISCELLANEOUS			
ITEM No.	PART NAME	ZENITH PART No.	NOTES
62	Speaker Plate	64	
63	Speaker Plate	65	14. A.M.P. (F.S.)

HUDSON MODEL DE-46

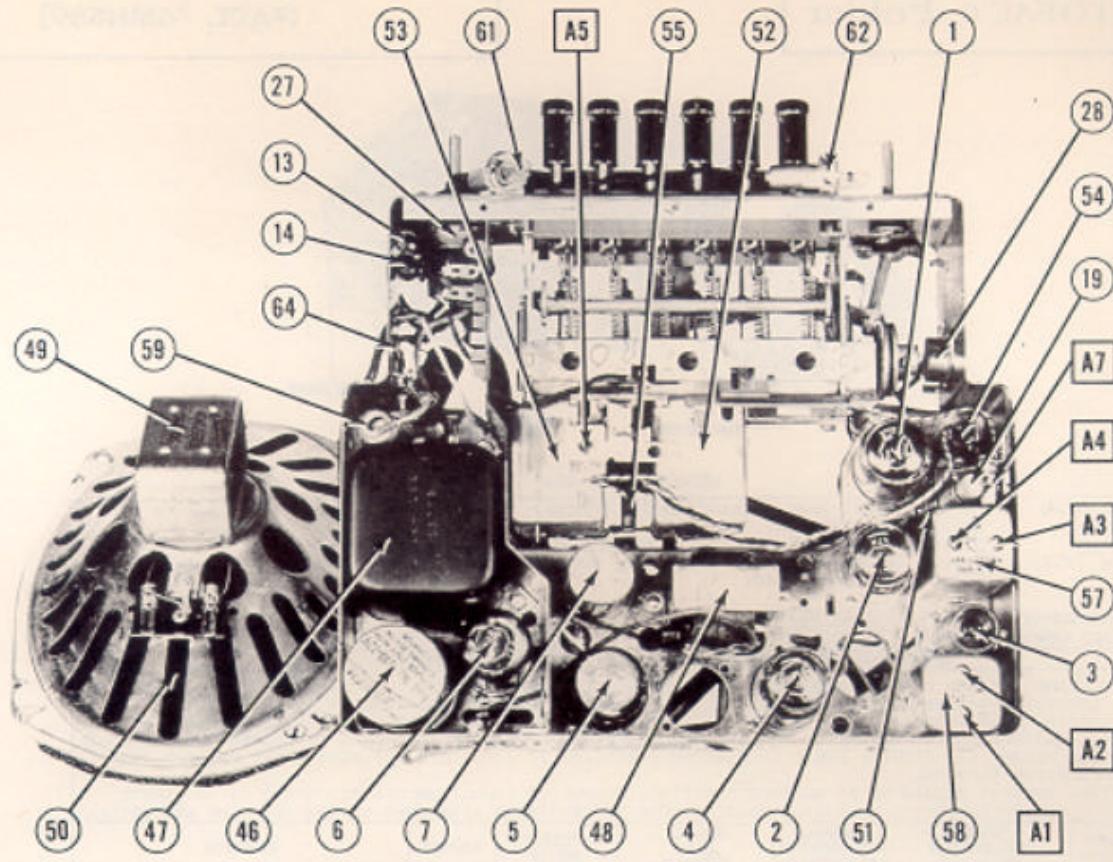
PARTS LIST AND DESCRIPTIONS

TUBES (SYLVANIA or Equivalent)

ITEM No.	USE	REPLACEMENT DATA		ZENITH PART No.	STANDARD PART No.	REPLACEMENT DATA	ZENITH PART No.	STANDARD PART No.	REPLACEMENT DATA	ZENITH PART No.	STANDARD PART No.	REPLACEMENT DATA	ZENITH PART No.	STANDARD PART No.	
		CAP.	VOLT.			CAP.	VOLT.			CAP.	VOLT.	CAP.	VOLT.	CAP.	VOLT.
1	30V A/F	.001	300	42-1644	A/F44										
2	Converter	.006	1600	22-1648											
3	12V A/F	.5	100												
4	12V A/V-A/F														
5	Power Output														
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CAPACITORS

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



CHASSIS—TOP VIEW

HUDSON
T-1000
T-1045

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA		ZENITH PART No.	IRC PART No.	CLANSTAN PART No.	PART No.	INSTALLATION NOTES
		ZENITH	IRC					
27A	1.5 MAH T	Q2-1507EX	Q2-1507EX					
30	1.0 MAH	1	1					

*Unit one section.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA		PART No.	PART No.	PART No.	PART No.	IDENTIFICATION CODES
		ZENITH	IRC					
22	1.5 MAH	63-1411	B75-320X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Sp Plate Load	1
23	1.0 MAH	63-1202	B75-10X	Or-Or-Y1	Or-Plate Load	Br-Or-Y1	Convector Grid	2
24	1.0 MAH	63-1401	B75-00X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Screen Grid	3
25	1.0 MAH	63-1302	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	AVC Network	4
26	1.0 MAH	63-1303	B75-00X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Defilator Plate Load	5
27	1.0 MAH	63-1304	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Screen Dropping	6
28	1.0 MAH	63-1305	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	AVC Network	7
29	1.0 MAH	63-1306	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Defilator Plate Load	8
30	1.0 MAH	63-1307	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Tone Compensation	9
31	1.0 MAH	63-1308	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	AV Plate Load	10
32	1.0 MAH	63-1309	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Output Grid	11
33	1.0 MAH	63-1310	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Output Cathode	12
34	1.0 MAH	63-1311	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Filter Grid	13
35	1.0 MAH	63-1312	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Filter Cathode	14
36	1.0 MAH	63-1313	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Filter Suppression	15
37	1.0 MAH	63-1314	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Def-Elec.	16
38	1.0 MAH	63-1315	B75-10X	Or-Or-Y1	Or-Grid	Br-Or-Y1	Def-Elec.	17