

Wharfedale

SERVICE MANUAL

Hi-Fi LOUDSPEAKER

MODEL DIAMOND 9.SW150

SW150

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★ SPECIFICATION

Format	Powered Subwoofer
Drive Unit	250 mm long throw
Aamplifier Power	150w
Line Input Sensitivity	200mV for 75W
Averaged Max.O/P(@ 1M)	110dB
Frequency Response	35Hz-110Hz
Low Pass Filter Frequencies	25Hz-85Hz
Phase Adjustment	Switchable 0°-180°
Dimensions(H*W*D)mm	330*330*170
Height on Feet mm	360

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★ ASSEMBLY PARTS LIST

R/N	P/N	PART NAME	DESCRIPTION	QUA
1	344-2948000000	DIA9.SW150 CABINET		1
2	ZD-55200-01	WOOFER		1
3	ZC-34100-07	AMPLIFER		1
4	238-2948000000	GRILLE		1
5	226-0350753201	RUBBER FOOT		4
6	233-1611000701	TUBE		1
7	347-0780700951	PAPER TUBE		1
8	217-2940000000	LOGO PLATE		1
9	062-5318000110	POWER LINE		1
10	517-5000000800A	WASHER	M5 BZn	6
11	539-4601250803A	SCREWS	MC(*)4.6*25	6
12	557-4001258061A	SCREWS	4*25 PA H	4
13	559-4001208072A	SCREWS	4*20 CA H	10

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★ ASSEMBLY PARTS LIST(AMP)

R/N	P/N	PART NAME	DESCRIPTION	QUA
1	215-1158000001	GRAY PLASTIC KNOB		2
2	223-0630111251	PLASTIC POST		1
3	301-1341000011	METAL PANEL		1
4	306-1204000001	RADIATOR		1
5	307-2300500241	COPPER POST		2
6	527-3012100811A	SCREWS	SP(+) ³ *10 DC H BZn	1
7	534-3001120801A	SCREWS	MK(+) ³ *12 BZn	2
8	535-3031060801A	SCREWS	MPW(+) ³ *6 BZn	1
9	537-3001140801A	SCREWS	MP(+) ³ *8 BZn	6
10	537-3001140801A	SCREWS	MP(+) ³ *14 BZn	5
11	537-4001120801A	SCREWS	MP(+) ⁴ *12 BZn	5

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★ ELECTRONICS PARTS LIST(AMP)

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R/N	P/N	PART NAME	DESCRIPTION	QUA	PLACE
	088-1294001300	INPUT PCB		1	
1	053-1293002113	PCB BOARD		1	
2	001-4702203010	RESISTOR	4.7K 1/8W F	1	R205
3	001-1003203010	RESISTOR	10K 1/8W F	3	R200.201.202
4	001-3603103050	RESISTOR	36K 1/8W 5%	1	R207
5	001-2703203010	RESISTOR	27K 1/8W F	1	R208
6	001-2203203010	RESISTOR	22K 1/8W F	4	R206.209.221.222
7	001-1803203010	RESISTOR	18K 1/8W F	1	R210
8	001-1503203010	RESISTOR	15K 1/8W F	1	R211
9	001-1303203010	RESISTOR	13K 1/8W F	1	R212
10	001-5602203010	RESISTOR	5.6KOHM 1/8W F	1	R219
11	001-1004203010	RESISTOR	100K 1/8W F	2	R203.204
12	001-3904203010	RESISTOR	390KOHM 1/8W F	1	R213
13	001-3304203010	RESISTOR	330K 1/8W F	1	R214
14	001-2404203010	RESISTOR	240K1/8W	1	R215
15	001-2204203010	RESISTOR	220K 1/8W 1%	1	R216
16	001-1804203010	RESISTOR	180K 1/8W F	1	R217
17	001-1504203010	RESISTOR	150K 1/8W F	1	R218
18	001-2704103050	RESISTOR	270K 1/8W J	1	R220
19	006-1004051163	CAPACITOR	SM10uF 50V 20	5	R200.206.207.208.209
20	013-1040210801	CAPACITOR	104/63V	3	C202.204.205
21	013-1030210501	CAPACITOR	103 63V 5%	1	C203
22	017-0650000000	IC	TL072(CN)	2	IC200A/B/C.201A/B/C
23	020-5052120425	POTENTIOMETER	RK 16K 12D0025-50KA	1	VR200
24	089-0500000012	MOVE SWITCH	SS-22F20-G12	2	SW200.201
25	051-3300000000	JACK	4PIN PCB JK040	1	CON200
26	079-0401000000	PROTECTOR	PTC RXE040	2	REX1.REX2
27	097-0701200000	SWITCH	SR2512-0206-26F1A-C	1	SW102
28	056-4108220000	JACK	JS-1135-08	1	CON202
29	056-4104220000	JACK	JS-1135-04	1	CON201
	088-1294001000	AMPLIFIER PCB		1	
1	053-1293002110	PCB BOARD		1	
2	001-0229308050	RESISTOR	0.22 OHM	4	R117.118.119.120
3	001-1000307050	RESISTOR	10 OHM 1W	1	R121
4	001-2701205010	RESISTOR	270 OHM 1/4W F	2	R113.114
5	001-4700205010	RESISTOR	47 OHM 1/4W F	3	R102.103.112

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6	001-1802205010	RESISTOR	1.8K 1/4W F	1	
7	001-6801205010	RESISTOR	560 OHM 1/4W F	1	R111
8	001-1002205010	RESISTOR	1K 1/4W F	2	R100.108
9	001-1002307050	RESISTOR	1K 1W J	2	R124.130
10	001-1502205010	RESISTOR	1.5K 1/4W F	1	R110
11	001-1802308050	RESISTOR	1.8K 2W	2	R122.123
12	001-4702205010	RESISTOR	4.7K 1/4W F	1	R141
13	001-6802308050	RESISTOR	6.8K 2W	1	R109
14	001-1003205010	RESISTOR	10K 1/4W F	2	R134.135
15	001-1503205010	RESISTOR	15K 1/4W F	2	R106.126
16	001-1803205010	RESISTOR	18K 1/4W F	2	R125.127
17	001-2203205010	RESISTOR	22K 1/4W F	2	R139.140
18	001-3903205010	RESISTOR	39K 1/4W F	2	R101.105
19	001-4703205010	RESISTOR	47K 1/4W F	1	R131
20	001-1004205010	RESISTOR	100K 1/4W F	2	R128.129
21	001-2204205010	RESISTOR	220K 1/4W F	1	R133
22	001-1005205010	RESISTOR	1M 1/4W F	1	R137
23	001-1006205010	RESISTOR	10M 1/4W F	1	R138
24	008-1512050004	CAPACITOR	151/500V 10%	2	C105.107
25	008-1002005015	CAPACITOR	1NF-50V-10%	1	C100
26	006-1014051144	CAPACITOR	100UF 25V 2	1	C116
27	014-1040100001	CAPACITOR	UCL11 100NF/50V	1	C108.
28	014-1040400004	CAPACITOR	UCL21 0.1UF/250V	1	C123
29	013-4730210801	CAPACITOR	U47NF/63V	2	C106 122
30	006-1004051163	CAPACITOR	USM10UF 50V 20	4	C109.110.117.121
31	006-1004061193	CAPACITOR	U10UF 100V UL	3	C104.114.115
32	006-4701081573	CAPACITOR	U47uF 63V 10%	5	C102.103.113.119.120
33	006-4714102154	CAPACITOR	U470μF 35V 2	1	C118
34	067-2204004000	DIODE	IN4004	16	D3.4.100-103.108.109.111-116 117 118
35	067-1104148000	DIODE	UIN4148	2	D1.D2
36	067-2205404000	DIODE	IN5404	4	D104.105.106.107
37	067-3304744000	MANOSTAT TUBE	IN4744A 15V-1W	2	Z100.101
38	067-3304736000	DIODE	UIN4736 6V8	1	Z102
39	018-0302690113	AUDION	2SC2690	1	Q105
40	018-0304381111	AUDION	2SC4381YU	2	Q104.106
41	018-2905401115	AUDION	2N5401 TO-92	4	Q100.101.102.103
42	018-0200817116	AUDION	2SB817 TO-3P	2	Q107.108
43	018-0101667111	AUDION	2SA1667Y TO-220	1	Q109

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44	018-0401047116	AUDION	2SD1047 TO-3P	2	Q110.111
45	018-2905551115	AUDION	BC546B TO-92	3	Q112.113.114
46	017-0650000000	IC	TL072(CN)	1	IC1A.IC1B
47	024-2240101012	RELAY	JH32F-024-HS 24V	1	RL100
48	024-2240501006	RELAY	OMI-SS-224 24V	1	RL101
49	031-2200515121	SAFTY TUBE	50T063H	2	F100.101
50	050-0100070211	SAFTY BRACKET	FUC-2	4	F100.101
51	056-4108220000	JACK	UJS-1135-08	1	CON100
52	056-4103220000	JACK	UJS-1135-03	3	CON101.104 102
53	056-0102224400	JACK	JS3962-2P-WAFER	1	CON103
54	001-2202205010	RESISTOR	U2.2K 1/4W F	1	R250
55	001-1001205010	RESISTOR	100 OHM 1/4WF	3	
56	001-4701205010	RESISTOR	470 OHM 1/4WF	1	
57	001-2701205010	RESISTOR	270 OHM 1/4WF	1	
58	001-2201205010	RESISTOR	220 OHM 1/4WF	2	
1	019-0311022001	LED	234HD RED	1	
2	019-0522122000	LED	GREEN 333GD/E-A	1	
3	031-2200510122	SAFTY TUBE	TSD3.15A 250V	1	
4	050-0111070111	SAFTY BRACKET	R3-11 5*20 UL	1	
5	022-1096902098	TRANSFORMER	TD91015F0	1	
6	044-0500000000	POWER JACK	SS-7B-10-4.8	1	
7	041-2043000000	POWER SWITCH	R130-22C-11P	1	
8	071-1100000000	LEASH	100MM YJ-100	8	
9	221-2862000000	RUBBER SLEEVE		1	
10	324-0280220100	ISINGRASS		4	
11	742-3000000000	PRYOCONDENSATION		0.03	
12	742-2500000000	PRYOCONDENSATION		0.03	
13	742-1000000000	PRYOCONDENSATION		0.02	
14	742-0151000000	PRYOCONDENSATION		0.08	

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