

The set of columns below compares PCB and service sheet numbers between the HP-8663A and HP8662A

The following data is based on manual part No. 08663-90071, volumes 1 to 4 and assembly part numbers from HP-8663A with serial prefix 2419A00499 option 002 and 003 fitted

Some HP-8662A assembly numbers have the same assembly number as the HP-8663A, however there function is quite different, these are highlighted on **BOLD ITALIC** text

- denotes assemblies that are common across the 8662A and 8663A, however the schematic service sheet number may not be the same between both models. Each assembly service sheet is listed
- denotes assemblies that are only compatible with the 8663A
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HP-8662A service manual data only					HP-8663 service manual data only									
Index	HP-8662 Assembly No.	HP-8662A Assembly Part no.	Good Schematic Y/N	Schematic Service sheet No.	HP-8663 Assembly No.	HP-8663A Assembly Part no.	Good Schematic Y/N	Assembly or section description for the HP-8662A & HP-8663A	Schematic Service sheet No.	Block diagram	Theory/Trouble-shooting page No.	Located in Volume No.		
1				A			N	Overall block diagram (Instrument level)		BD1	8-201			
2				C			N	Reference level		BD2	8-213			
3				D			N	High frequency loops section		BD3	8-217			
4				G			N	Fractional-N loops section		BD4	8-223			
5				H			N	Low frequency loops section		BD5	8-223			
6				E			N	Output section		BD6	8-241			
7				F			N	Modulation section		BD7	8-249			
8							N	Phase modulation section		BD8	8-257			
9				B			N	Digital control unit (DCU) section		BD9	8-261			
10				B1				DCU diagnostics, part 1						
11				B2				DCU diagnostics, part 2						
12				B3				DCU diagnostics, part 3						
13				I			N	Power supply Section		BD10	8-289			
14	A8A3	10544-003	Y	SS18	A8A3	10811-60111	Y	10MHz reference oscillator	SS1	DB2	8-301	2		
15	A8A4	08662-60290	Y	SS18	A8A4	08666-60305	N	Reference buffer	SS1	DB2	8-301	2		
16	A6A1	08662-60115	Y	SS19	A6A1	08662-60115	Y	Reference section LF Multiplier	SS2	DB2	8-307	2		
17	A6A3	08662-60297	Y	SS20	A6A3	08662-60314	Y	Reference section HF Multiplier	SS3	DB2	8-313	2		
18	A6A2	08662-60114	Y	SS21	A6A2	08662-60114	Y	Reference section LO drive	SS4	DB2	8-319	2		
19	A6A9	08662-60101	Y	SS22	A6A9	08662-60101	Y	HP loops and reference section controller	SS5	DB3	8-325	2		
20	A6A6	08662-60105	Y	SS23	A6A6	08662-60105	Y	Reference sum loop RF mixer	SS6	DB3	8-331	2		
21	A6A5/A8A2	08662-60103	Y	SS24	A6A5/A8A2	08662-60103	Y	Reference sum loop phase detector	SS7	DB3	8-337	2		
22	A6A5	08662-60103	Y	SS25	A6A5	08662-60103	Y	Reference sum loop phase detector	SS8	DB3	8-347	2		
23	A6A7	08662-60106	Y	SS26	A6A7	08662-60106	Y	RF buffer	SS9	DB3	8-355	2		
24	A6A8	08662-60107	Y	SS27	A6A8	08662-60107	Y	Output sum loop RF mixer	SS10	DB3	8-361	2		
25	A6A4/A8A1	08662-60108	Y	SS28	A6A4/A8A1	08662-60108	Y	Output sum loop phase detector, part 1	SS11	DB3	8-367	2		
26	A6A4	08662-60108	Y	SS29	A6A4	08662-60108	Y	Output sum loop phase detector, part 2	SS12	DB3	8-377	2		
27	A5A4	08662-60151	Y	SS41	A5A4	08662-60151	Y	Fractional N loop reference divider	SS13	BD3	8-401	3		
28	A5A3	08662-60147	Y	SS42	A5A3	08662-60147	Y	Fractional N loop phase detector	SS14	BD4	8-407	3		
29	A5A5	08662-60149	Y	SS43	A5A5	08662-60149	Y	Fractional N loop VCO	SS15	BD4	8-417	3		
30	A5A2	08662-60148	Y	SS44	A5A2	08662-60148	Y	Fractional N loop N divider	SS16	BD4	8-425	3		
31	A5A1	08662-60146	Y	SS45	A5A1	08662-60146	Y	Fractional N loop accumulator	SS17	BD4	8-433	3		
32	A3A3	08662-60138	Y	SS46	A3A3	08663-60309	N	N loop divider/phase detector, part 1	SS18	BD5	8-445	3		
33	A3A3	08662-60138	Y	SS47	A3A3	08663-60309	N	N loop divider/phase detector, part 2	SS19	BD5	8-455	3		
36	A3A4	08662-60136	Y	SS48	A3A4	08662-60136	Y	N loop VCO	SS20	BD5	8-461	3		
37	A3A5	08662-60141	Y	SS49	A3A5	08662-60141	Y	Sum loop mixer	SS21	BD5	8-467	3		
38	A3A6	08662-60142	Y	SS50	A3A6	08662-60142	Y	Sum loop phase detector	SS22	BD5	8-473	3		
39	A3A7	08662-60140	Y	SS51	A3A7	08662-60140	Y	Sum loop VCO	SS23	BD5	8-479	3		
40	A3A9	08662-60139	Y	SS52	A3A9	08662-60139	Y	FM sum loop mixer	SS24	BD5	8-485	3		
41	A3A10	08662-60145	Y	SS53	A3A10	08662-60145	Y	FM sum loop phase detector	SS25	BD5	8-491	3		
42	A3A8	08662-60143	Y	SS54	A3A8	08662-60143	Y	FM sum loop VCO	SS26	BD5	8-495	3		
43	A3A1	08662-60135	Y	SS36				HP-8662A Reverse power driver assembly						
44	A2A11		Y	SS36				HP-8662A Attenuator assembly						
45					A4A3	08663-60304	N	Distributor, part 1	SS27	BD6	8-501	3		
46					A4A3	08663-60304	N	Distributor, part 2	SS28	BD6	8-505	3		
47					A4A3A1	08663-60033	Y	4GHz oscillator	SS45	BD6	8-630	3		
48					A12A5	08663-60308	N	Low frequency down converter	SS29	BD6	8-509	3		
49	A4A5	08662-60151	Y	SS31				HP-8662A Low frequency down converter assembly						
50					A12A3	08663-60345	N	Low frequency amplifier	SS30	BD6	8-515	3		
51	A4A3	08662-60130	Y	SS32				HP-8662A Low frequency amplifier assembly						
52					A12A2	08663-60303	N	UHF modulator	SS31	BD6	8-521	3		
53					A12A4	08663-60307	N	Doubler #1	SS32	BD6	8-525	3		
55	A4A2	08662-60081	Y	SS33	A4A2	08663-60351	N	Doubler #2	SS33	BD6	8-533	3		
56					A12A1	08663-60351	N	RF multiplexer and power amplifier	SS34	BD6	8-537	3		
57					A12A1	08663-60301	N	RF multiplexer and power amplifier	SS35	BD6	8-541	3		
58					AT1			Output attenuator				3		
59					AT2			Output attenuator				3		
60	A4A1	08662-60126	Y	SS34				HP-8662A output power amplifier assembly, part 1						
61	A4A1	08662-60126	Y	SS35				HP-8662A output power amplifier assembly, part 2						
62					A4A1	08663-60302	N	Automatic level control (ALC), part 1	SS36	BD6	8-545	3		
63					A4A1	08663-60302	N	Automatic level control (ALC), part 2	SS37	BD6	8-549	3		
64	A4A7	08662-60129	Y	SS37				HP-8662A Output section AGC assembly						
65					A11A4	08663-60344	Y	FM phase detector	SS38	BD7	8-601	4		
66					A11A1	08663-60321	Y	P/O A11A1 variable modulation oscillator, part 1	SS39	BD7	8-607	4		
67					A11A1	08663-60321	Y	P/O A11A1 variable modulation oscillator, part 2	SS40	BD7	8-611	4		
68					A11A5	08663-60323	Y	P/O A11A5 modulation drive, part 1	SS41	BD7	8-615	4		
69					A11A5	08663-60323	Y	P/O A11A5 modulation drive, part 2	SS42	BD7	8-619	4		
70					A11A2	08663-60343	Y	FM loop VCO	SS43	BD7	8-623	4		
71					A11A3	08663-60322	Y	P/O phase modulation input	SS44	BD8	8-631	4		
72					A4A4	08663-60011	Y	Phase modulator / detector, option 002 only	SS45	BD8	8-635	4		
73	A4A4	08662-60197	Y	SS30				HP 8662A Distributor assembly						
74					A4A4A1	08663-60312	Y	Input mixer	SS45	BD8		4		
75					A4A4A2	08663-60365	Y	IF amplifier	SS45	BD8		4		
76					A4A4A3	08663-60367	Y	LO 1 amplifier	SS45	BD8		4		
77					A4A4A4	08663-60324	Y	Phase modulator driver	SS45	BD8		4		
78					A4A4A5	08663-60366	Y	LO 2 Amplifier / bypass switch driver assembly	SS45	BD8		4		
79	A4A6	08662-60185	Y	SS39				HP-8662A FM loop VCO assembly						
80	A4A8	08662-60184	Y	SS38				HP-8662A Modulation divider assembly						
81	A4A9	08662-60183	Y	SS40				HP-8662A Modulation drive assembly						
82					A2A7	08663-60332	Y	P/O A2A7 Microprocessor, part 1	SS46	BD9	8-701	4		
83					A2A7	08663-60332	Y	P/O A2A7 Microprocessor, part 2	SS47	BD9	8-705	4		
84	A2A7	08662-60298	Y	SS10				HP-8662A RAM assembly only						
85					S2A8	08663-60329	Y	RAM/ROM serial Prefix 2537A	SS48	BD9	8-709	4		
86					S2A8	08663-60365	Y	RAM/ROM serial Prefix 2234A to 2536A	SS48	BD9	8-711	4		
87	A2A8	08662-60245	Y	SS8				HP-8662A ROM 1 Serial prefixes 2021 assembly						
88	A2A9	08662-60296	Y	SS9				HP-8662A ROM 2 assembly						
89					A2A9	08663-60331	Y	ROM	SS49	BD9	8-713	4		
90					A2A3	08663-60328	Y	P/O A2A3 peripheral RAM, part 1	SS50	BD9	8-717	4		
91					A2A3	08663-60328	Y	P/O A2A3 peripheral RAM, part 2	SS51	BD9	8-721	4		
92	A2A3	08662-60294	Y	SS14				HP-8662A Level/modulation output assembly, part 1						
93	A2A3	08662-60294	Y	SS15				HP-8662A Level/modulation output assembly, part 2						
94					A2A5	08663-60341	Y	P/O A2A5 frequency Control assembly, part 1	SS52	BD9	8-725	4		
95					A2A5	08663-60341	Y	P/O A2A5 frequency Control assembly, part 2	SS53	BD9	8-729	4		
96	A2A5	08662-60299	Y	SS5				HP-8662A HP-IB assembly						
97					A2A10	08663-60335	Y	Level control assembly	SS54	BD9	8-733	4		
98					A2A4	08663-60334	Y	Modulation control assembly	SS55	BD9	8-737	4		
99	A2A4	08662-60167	Y	SS12				HP-8662A Frequency output board assembly, part 1						
100	A2A4	08662-60167	Y	SS13				HP-8662A Frequency output board assembly, part 2						
101	A2A2	08662-60171	Y	SS15				HP-8662A P/O sweep board assembly, part 1						
102	A2A2	08662-60171	Y	SS16				HP-8662A P/O sweep board assembly, part 2						
103	A2A2	08662-60171	Y	SS17				HP-8662A P/O sweep board assembly, part 3						
104					A2A2	08663-60337	Y	P/O sweep control assembly, part 1	SS56	BD9	8-741	4		
105					A2A2	08663-60337	Y	P/O sweep control assembly, part 2	SS57	BD9	8-745	4		
106					A2A6	08663-60333	Y	HP-IB assembly	SS58	BD9	8-749	4		
107	A2A6	08662-60236	Y	SS6				HP-8662A Microprocessor/Decoder assembly, part 1						
108	A2A6	08662-60236	Y	SS7				HP-8662A Microprocessor/Decoder assembly, part 2						
109	A1A3	08662-60169	Y	SS1	A1A3	08663-60339	Y	Main keyboard	SS59	BD9	8-753	4		
110	A1A2	08662-60168	Y	SS2	A1A2	08663-60168	Y	Sweep keyboard	SS60	BD9	8-757	4		
111	A2A1	08662-60235	Y	SS3	A2A1	08663-60336	Y	P/O keycode assembly, part 1	SS61	BD9	8-761	4		
112	A2A1	08662-60235	Y	SS4	A2A1	08663-60336	Y	P/O keycode assembly, part 2	SS62	BD9	8-765	4		
113	A1A1	08662-60173	Y	SS11	A1A1	08663-60338	Y	P/O display assembly, part 1	SS63	BD9	8-769	4		
114					A1A1	08663-60338	Y	P/O display assembly, part 2	SS64	BD9	8-773	4		
116	A7A3	08662-60289	Y	SS55	A7A3	08662-60289	Y	Power supply Inverter	SS65	BD10	8-901	4		
117	A7A4	08662-60156												