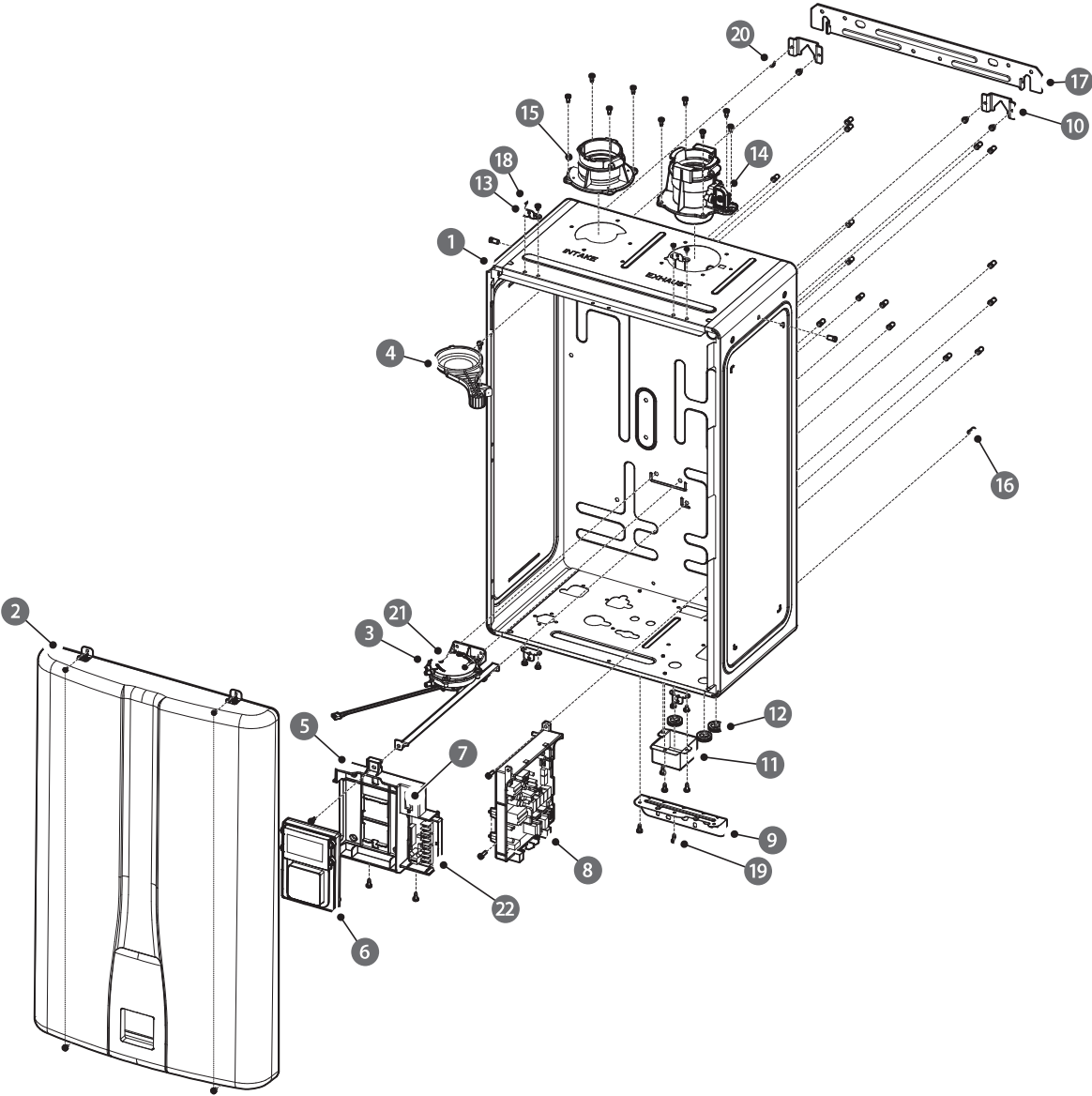


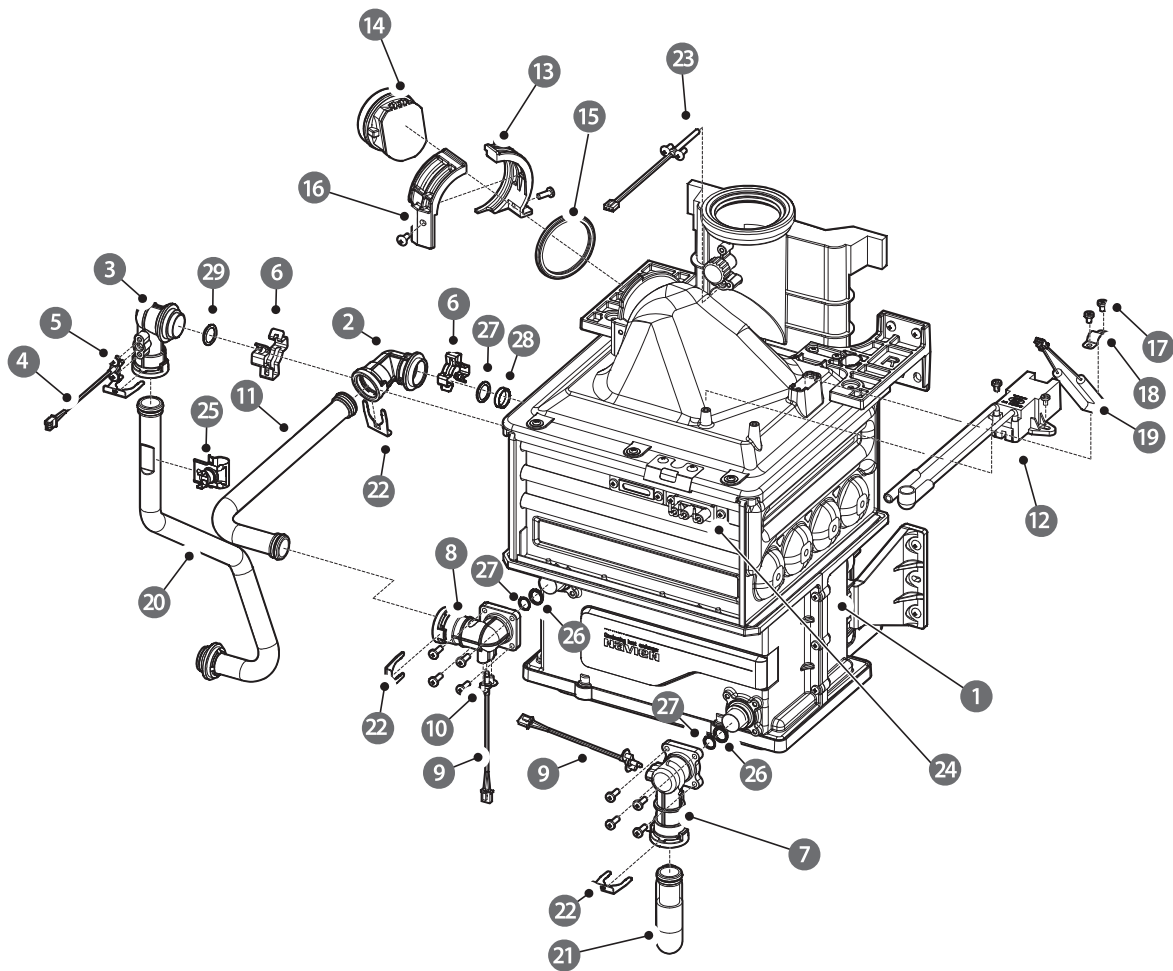
7.5 Component Assembly Diagrams and Parts Lists

7.5.1 Case Assembly



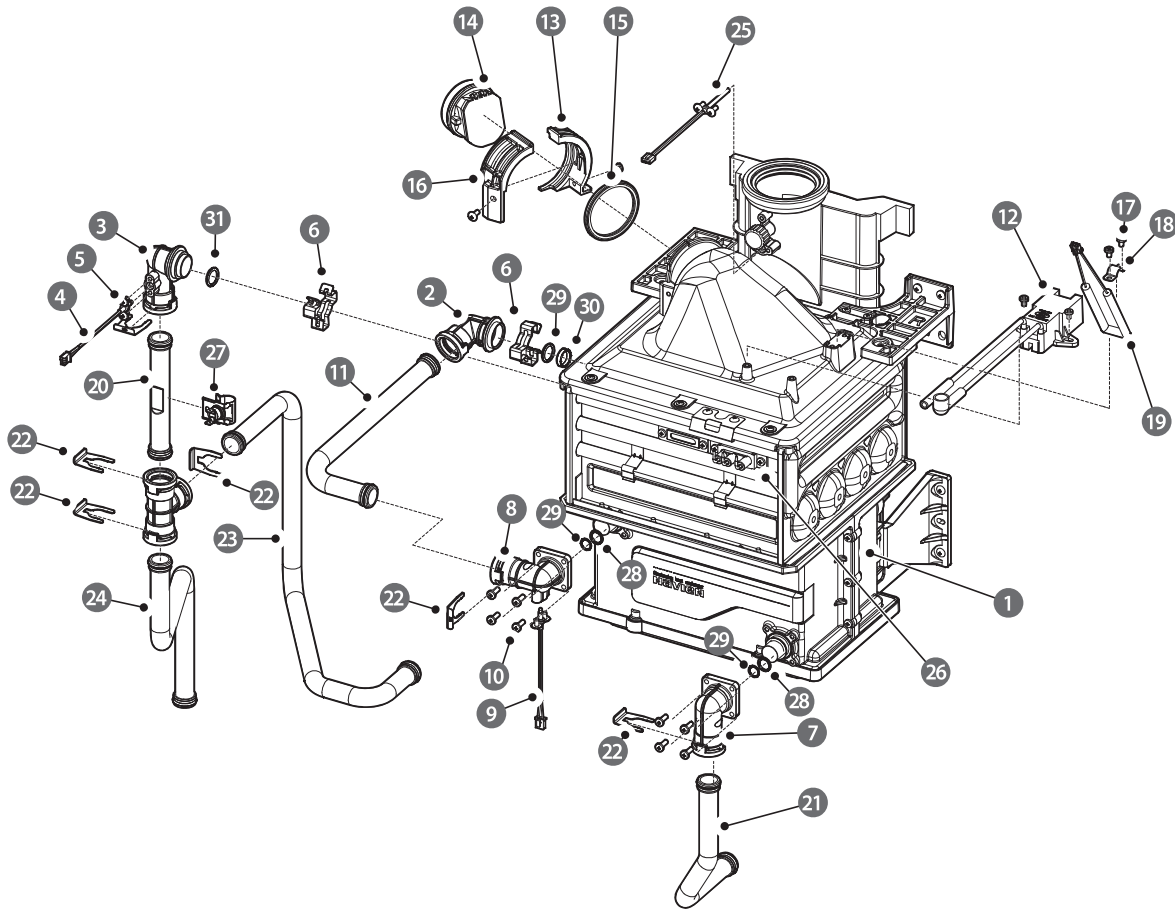
#	Description	Service Code	Part #	Remark
1	Case	-	20049732*	NPE-180A2/210A2/240A2
		-	20049515*	NPE-150S2/180S2/210S2/240S2
2	Cover	30026143A	30024855*	
3	Air Pressure Sensor	30021100A	30021100*	
4	Intake Air Filter	30016248B	30016248*	
5	Panel Bracket	-	20049470*	
6	Front Panel	30024955A	30024955*	
7	Power Switch	30009482A	30009482*	
8	PCB	30024835A	30024835*	NPE-180A2/210A2/240A2
		30024837A	30024837*	NPE-150S2/180S2/210S2/240S2
9	Case Bracket (Lower)	-	20048214*	
10	Case Bracket (Upper)	-	20049507*	
11	Junction Box	-	20046065*	
12	Rubber Ring	-	20025127*	
13	Case Bracket (Lock)	-	20049636*	
14	Exhaust Duct Assembly	30024848A	30024848*	
15	Intake Air Duct Assembly	30008662B	30008662*	
16	Pop nut	-	20047199*	
17	Wall Bracket	-	20007610*	
18	Screw, STS410, 4×6	-	20050522*	
19	Screw, STS410, 4×10	20049000A	20049000*	
20	Screw, STS430, M4×6	-	20050523*	
21	Screw, S18A, M4×14	-	20041463*	
22	Hotbutton	30025294A	30025294*	

7.5.2 Burner Assembly (NPE-180A2/ 210A2/ 240A2)



#	Description	Service Code	Part #	Remark
1	Heat Exchanger Assembly	30026111A	30024850*	NPE-210A2/240A2
		30026110A	30025104*	NPE-180A2
2	SC-Ex Inlet Adaptor	-	20049491*	
3	SC-Ex Outlet Adaptor	-	30024763*	
4	Thermistor	30008366A	30008366*	
5	Screw, S10A, 4x6	20017962A	20017962*	
6	Fastener	20007853A	20007853*	
7	Flow Sensor Assembly	30024866A	30024866*	
8	Latent-Ex Outlet Adaptor	-	30024764*	
9	Thermistor	30008366A	30008366*	
10	Screw, S10A, 4x6	20017962A	20017962*	
11	H-Ex Middle Pipe	-	30024769*	NPE-210A2/240A2
		-	30024768*	NPE-180A2
12	Ignition Transformer	30010455A	30010455*	
13	Fan Bracket (R)	-	20022096*	
14	Fan Damper	30008825A	30008825*	
15	Fan Packing	-	20022744*	
16	Fan Bracket (F)	20022095A	20022095*	
17	Screw, S18A, M4x6	-	20038859*	
18	Burner Fuse Bracket	-	20050642*	
19	Burner Fuse	30025036A	30025036*	
20	Hot Water Outlet Pipe	30024771A	30024771*	NPE-210A2/240A2
		30024770A	30024770*	NPE-180A2
21	Cold Inlet Pipe	30024767A	30024767*	NPE-210A2/240A2
		30024766A	30024766*	NPE-180A2
22	Pipe Clip	20045992A	20045992*	
23	Thermistor (Exhaust)	30009478A	30009478*	
24	Igniter	30025442A	30025442*	
25	High Limit Switch	30023954A	30023954*	
26	Packing (Ø26.5x2.4t)	-	20006868*	
27	O-ring (Ø17.5x2.7t)	20006949A	20006949*	
28	Backup Ring	-	20018744*	
29	O-ring (Ø21.7xØ3.5)	-	20033699*	

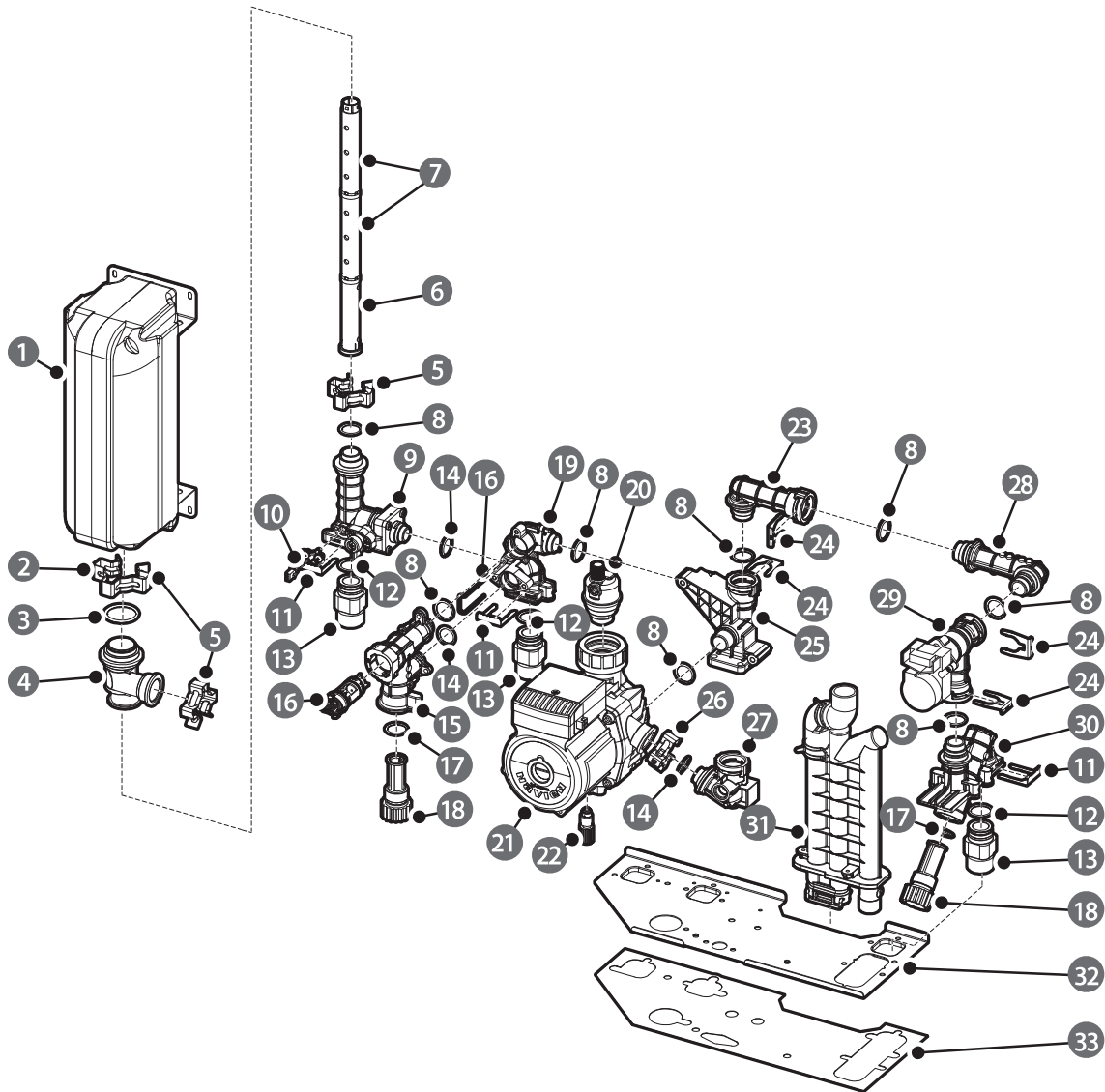
7.5.3 Burner Assembly (NPE-150S2/180S2/ 210S2/ 240S2)



#	Description	Service Code	Part #	Remark
1	Heat Exchanger Assembly	30026111A	30025252*	NPE-210S2/240S2
		30026110A	30025110*	NPE-180S2
		30026109A	30025477*	NPE-150S2
2	SC-Ex Inlet Adaptor	-	20049491*	
3	SC-Ex Outlet Adaptor	-	30024763*	
4	Thermistor	30008366A	30008366*	
5	Screw, S10A, 4x6	20017962A	20017962*	
6	Fastener	20007853A	20007853*	
7	Latent-Ex Inlet Adaptor	-	20049517*	
8	Latent-Ex Outlet Adaptor	-	30024764*	
9	Thermistor	30008366A	30008366*	
10	Screw, S10A, 4x6	20017962A	20017962*	

#	Description	Service Code	Part #	Remark
11	H-Ex Middle Pipe	-	30024769*	
		-	30024768*	
		-	30025435*	
12	Ignition Transformer	30010455A	30010455*	
13	Fan Bracket (R)	-	20022096*	
14	Fan Damper	30008825A	30008825*	
15	Fan Packing	-	20022744*	
16	Fan Bracket (F)	20022095A	20022095*	
17	Screw, S18A, M4×6	-	20038859*	
18	Burner Fuse Bracket	-	20050642*	
19	Burner Fuse	30025036A	30025036*	
20	Heat Exchanger Outlet Pipe	30024780A	30024780*	NPE-180S2/210S2/240S2
		30024779A	30024779*	NPE-150S2
21	Cold Inlet Pipe	30024778A	30024778*	NPE-210S2/240S2
		30024777A	30024777*	NPE-180S2
		30024776A	30024776*	NPE-150S2
22	Clip	20045992A	20045992*	
23	Mixing Pipe	30024784A	30024784*	NPE-210S2/240S2
		30024783A	30024783*	NPE-180S2
		30024782A	30024782*	NPE-150S2
24	Hot Water Outlet Pipe	30024787A	30024787*	NPE-210S2/240S2
		30024786A	30024786*	NPE-180S2
		30024785A	30024785*	NPE-150S2
25	Thermistor (Exhaust)	30009487A	30009478*	
26	Igniter	30025442A	30025442*	
27	High Limit Switch	30023954A	30023954*	
28	Packing (Ø26.5x2.4t)	-	20006868*	
29	O-ring (Ø17.5x2.7t)	20006949A	20006949*	
30	Backup Ring	-	20018744*	
31	O-ring (Ø21.7xØ3.5)	-	20033699*	

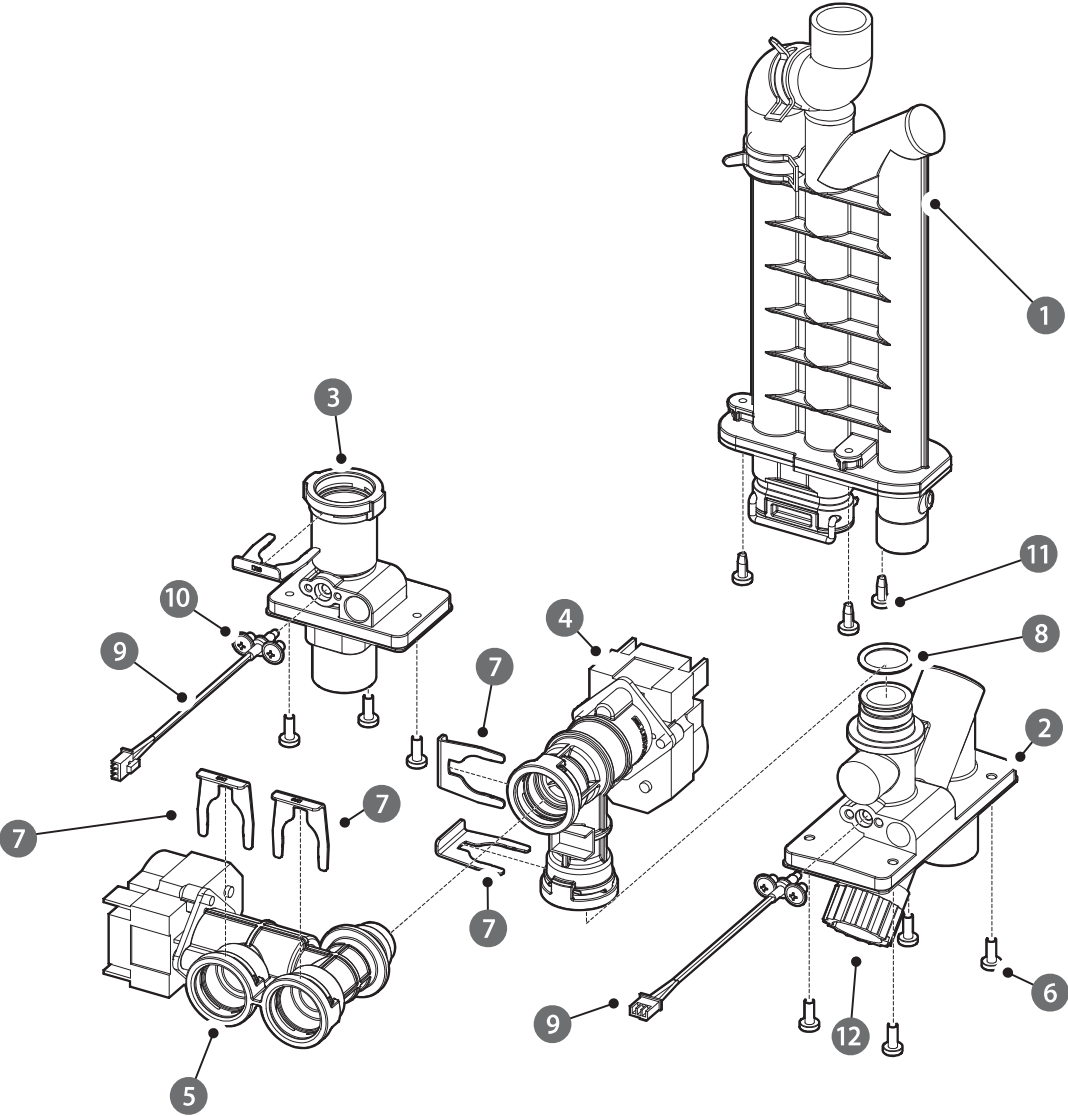
7.5.4 Waterway Assembly (NPE-180A2/210A2/240A2)



#	Description	Service Code	Part #	Remark
1	Buffer Tank	30016125A	30023708*	
2	Fastener	20017724A	20017724*	
3	O-RING (P29)	20017923A	20017923*	
4	Buffer Tank Adapter	20035697A	20035697*	
5	Fastener	-	20017726*	
6	Buffer Tank Pipe A	-	20017759*	
7	Buffer Tank Pipe B	-	20017760*	
8	O-RING (P18)	20006947A	20006947*	

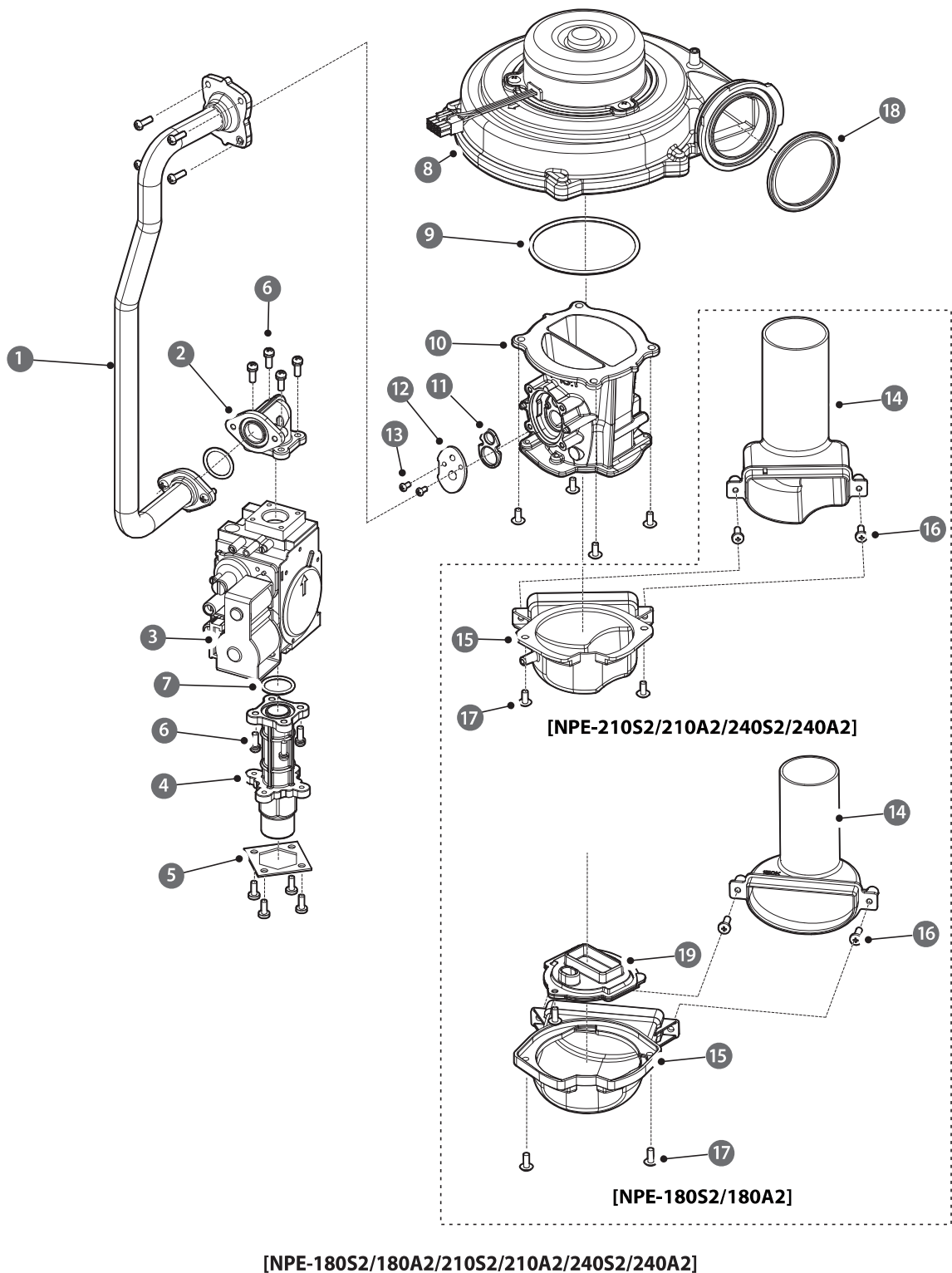
#	Description	Service Code	Part #	Remark
9	Hot Water Outlet Adapter	-	30008338*	
10	Thermistor	30008366A	30008366*	
11	Clip	20007733B	20007733*	
12	O-RING (P20)	20017212A	20017212*	
13	Pipe Adapter	20024496A	20024496*	
14	O-RING (P16)	20017210A	20017210*	
15	Check Valve Adapter	20048412A	20048412*	
16	Check Valve	-	30008360*	
17	O-RING (P19)	20017211A	20017211*	
18	Water Filter	30008171A	30008171*	
19	Return Connect Adapter	20048405A	20048405*	
20	Pump Air Separator	30014451A	30013056*	
21	Circulation Pump		30008355*	
22	Drain Plug		30008630*	
23	Pump Connect Adapter	20048418A	20048418*	
24	Clip	20045992A	20045992*	
25	Pump Inlet Adapter	20048414A	20048414*	
26	Fastener	20007859A	20007859*	
27	Pump Outlet Adapter	20048419A	20048419*	
28	WAV Outlet Adapter	20048415A	20048415*	
29	Water Adjust Valve	30024183A	30024183*	
30	Cold Water Adapter	20048454A	20048454*	
31	Syphon	30024921A	30024921*	
32	Bracket	-	20048396*	
33	Bracket Packing	-	20048400*	

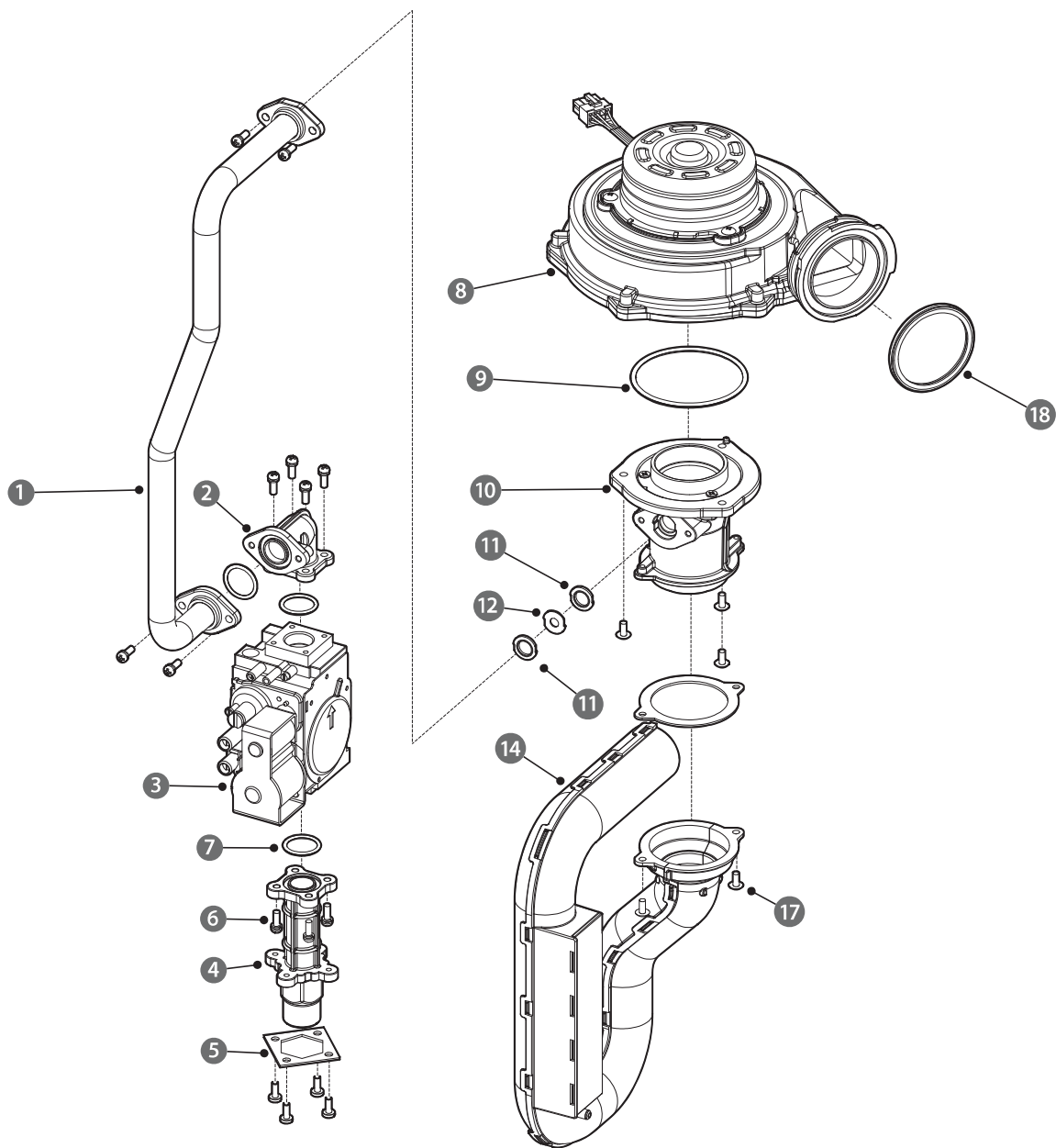
7.5.5 Waterway Assembly (NPE-150S2/180S2/210S2/240S2)



#	Description	Service Code	Part #	Remark
1	Syphon	30024921A	30024921*	
2	Cold Water Inlet Adapter	30024923A	30024923*	
3	Hot Water Outlet Adapter	-	30024924*	
4	Water Adjust Valve (Built in Flow Sensor)	30022123A	30022123*	
5	Mixing Valve	30022124A	30022124*	
6	Screw, STS430, M4×10	-	20038758*	
7	Clip	20045992A	20045992*	
8	O-RING (P18)	20006947A	20006947*	
9	Thermistor	30008366A	30008366*	
10	Screw, S10A, M4×6	-	20027618*	
11	Screw, STS410, 4×10	20049000A	20049000*	
12	Water Filter	30008171A	30008171*	

7.5.6 Fan (Gas) Assembly





[NPE-150S2]

#	Description	Service Code	Part #	Remark
1	Gas Pipe	30024773A	30024773*	NPE-210S2/240S2/210A2/240A2
		30024772A	30024772*	NPE-180S2/180A2
		30025069A	30025069*	NPE-150S2
2	Gas Connector	20018430A	20018430*	
3	Gas Valve	30011586B	30011586*	
4	Gas Inlet Adapter	20023809A	20023809*	
5	Gas Inlet Adapter Packing	-	20023581*	
6	Screw, S10A, M4×12	20006390A	20006390*	
7	O-Ring (P20)	20006934A	20006934*	
8	Fan Assembly	30015421A	30015421*	NPE-150S2
		30025295A	30025295*	NPE-180S2/180A2/210S2/210A2/ 240S2/240A2
9	O-Ring (G70)	20007001A	20007001*	NPE-150S2
	O-Ring (G75)	20018079A	20018079*	NPE-180S2/180A2/210S2/210A2/ 240S2/240A2
10	Single Venturi	30014688A	30014688*	NPE-150S2
	Dual Venturi	30024967A	30024967*	NPE-180S2/180A2
		30025251A	30025251*	NPE-210S2/240S2/210A2/240A2
11	Venturi Packing	20022660A	20022660*	
12	Gas Orifice	20049501A	20049501*	NPE-210S2/240S2/210A2/240A2 (NG)
		20050546A	20050546*	NPE-210S2/240S2/210A2/240A2 (LP)
		20049500A	20049500*	NPE-180S2/180A2 (NG)
		20050545A	20050545*	NPE-180S2/180A2 (LP)
		20029420B	20029420*	NPE-150S2 (NG)
		20034178A	20034178*	NPE-150S2 (LP)
13	Screw, S10A, M3×6, 3	-	20018065*	
14	Silence	-	20032570*	NPE-210S2/240S2/210A2/240A2
		-	20031242*	NPE-180S2/180A2
15	Silence Adapter	-	20032569*	NPE-210S2/240S2/210A2/240A2
		-	20049499*	NPE-180S2/180A2
16	Screw, S10A, 4×12	-	20006555*	
17	Screw, S18A, M4×10	-	20034293*	
18	Fan Packing	-	20022744*	
19	Reducer	-	30024970*	NPE-180S2/180A2