

**Hydro-Hot**<sup>®</sup>

**By Vehicle Systems, Inc.**

*Motor Coach Heating Specialists*

## Parts Manual Rev. C

Model Numbers

HHE-200-08E

HHE-500-08M



# HYDRO-HOT PARTS MANUAL

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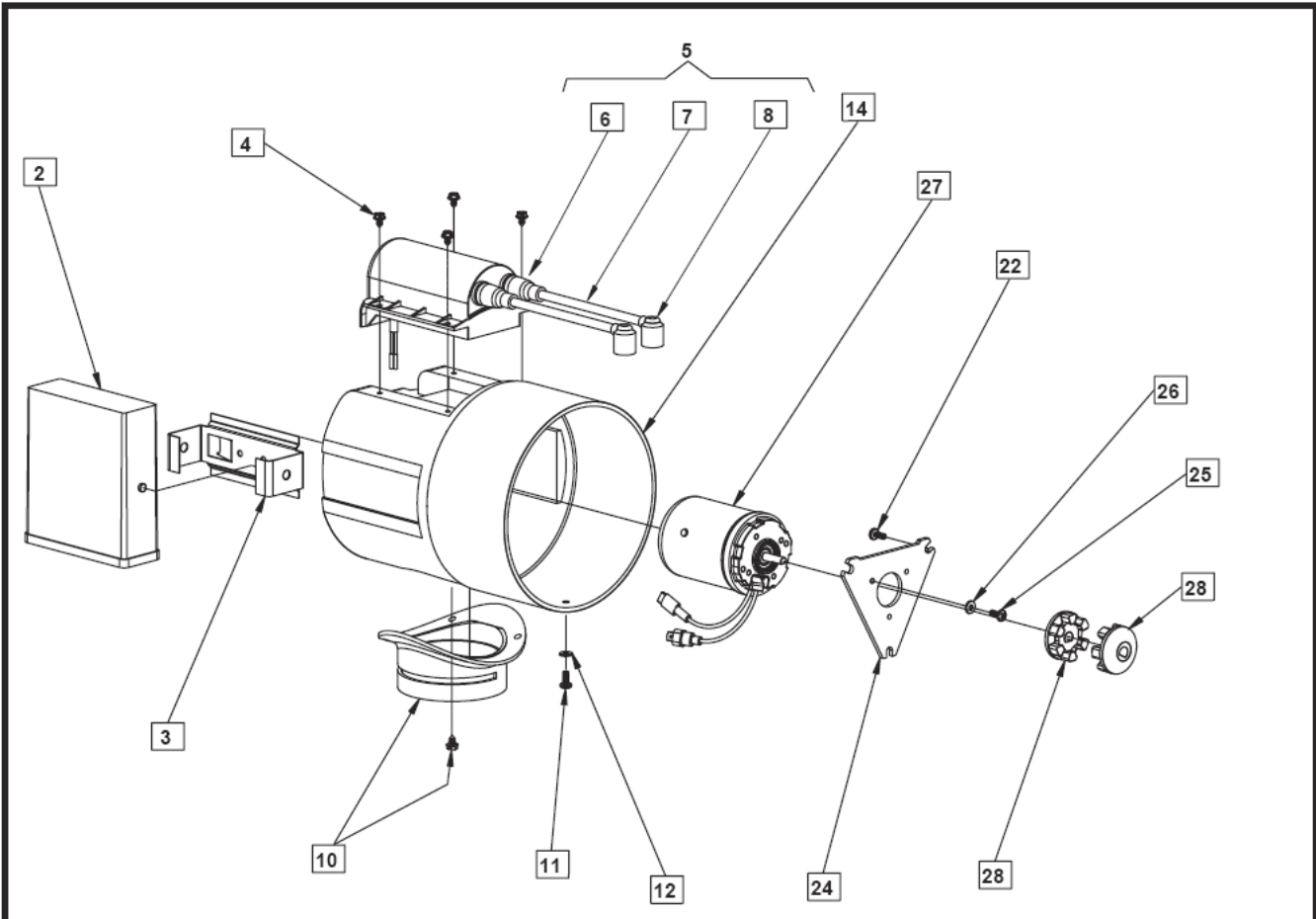
  

<b>HHE-500-08M - 12VDC (w/Motoraide)</b>	
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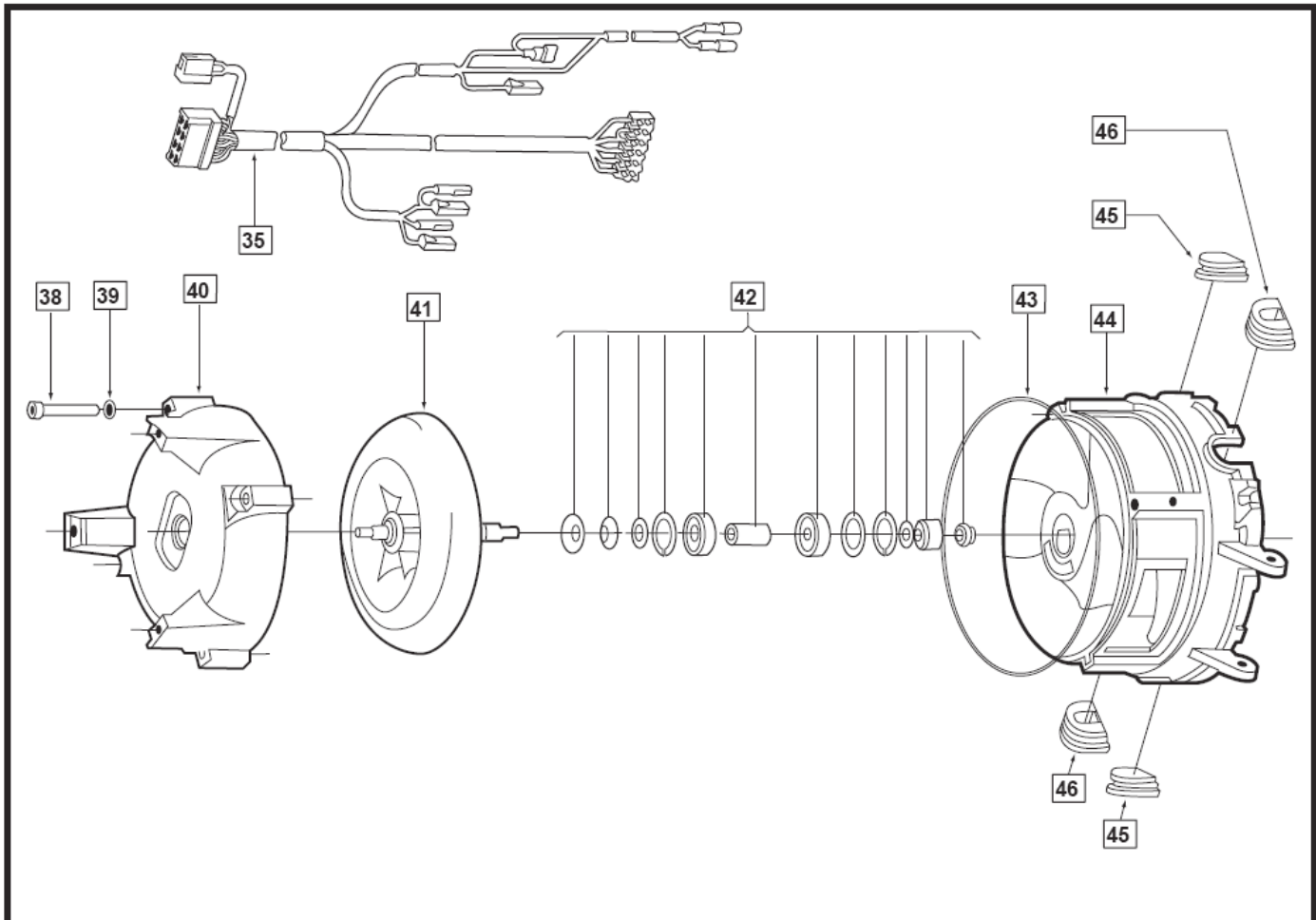
## ■ Diesel Burner Parts



Key	Part No.	Description	Serial No.
2	WPX-287-962	Controller, Diesel Burner, 12 VDC	
3	WPX-362-107	Bracket, Controller Mounting	
4	WPX-470-562	Screw, Coil Mounting	
5	WPX-101-838	Coil, Ignition, 12 VDC	
6	WPX-404-918	Boot, Ignition Wire	
7	WPX-178-624	Wire, Ignition	
8	WPX-176-494	Boot, Ignition Wire, ELbow	
10	WPX-350-427	Shutter, Combustion Air Intake	
11	WPX-432-377	Screw, Protection Housing	
12	WPX-152-269	Washer, Star, Protection Housing	
14	WPX-436-216	Housing, Protection, Motor	
22	WPX-147-834	Screw, Flange, Blower Housing	
24	WPX-425-05A	Plate, Motor Mounting	
25	WPX-432-377	Screw, Motor Plate	
26	WPX-152-269	Washer, Star, Motor Plate	
27	WPX-425-060	Motor, Combustion Air/Fuel Pump, 12 VDC	
28	WPX-350-516	Coupling, Half, 6mm	

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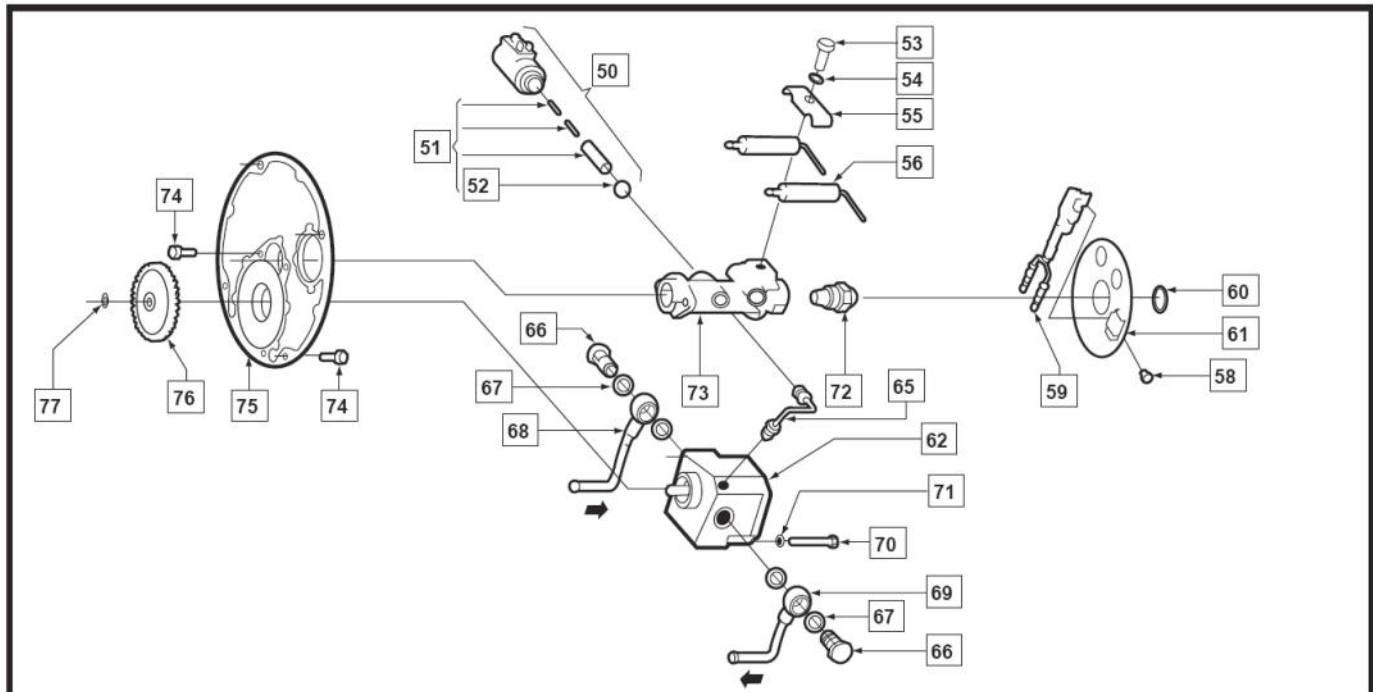
## ■ Diesel Burner Parts, continued



Key	Part No.	Description	Serial No.
35	WPX-434-795	Harness, C-Plug	
38	WPX-148-210	Screw, Blower Housing	
39	WPX-152-552	Washer, Lock, Blower Housing	
40	WPX-301-841	Housing, Blower, Half	
41	WPX-373-001	Blower, Wheel, w/Shaft	
42	WPX-378-313	Bearing, Blower, Kit	
43	WPX-412-244	O-Ring, Blower Housing	
44	WPX-225-67A	Housing, Blower, Main	
45	WPX-298-964	Grommet, Blower Housing, Left	
46	WPX-299-995	Grommet, Blower Housing , Right	

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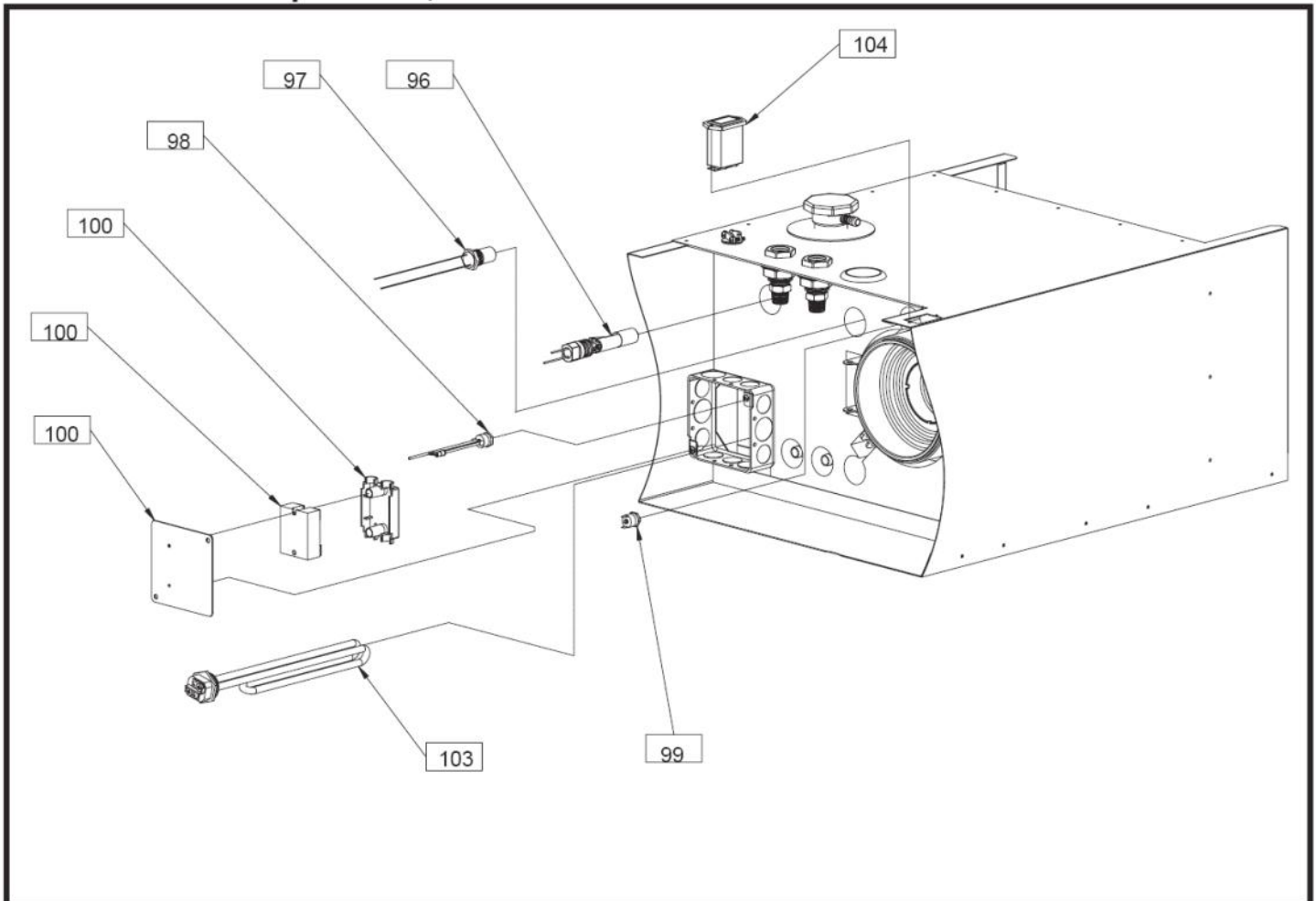
## ■ Diesel Burner Parts, continued



50	WPX-322-083	Valve, Fuel Solenoid, 12 VDC
51	WPX-386-650	Valve, Fuel Solenoid, Kit
53	WPX-267-279	Bolt, Electrode
54	WPX-152-560	Washer, Lock, Electrode
55	WPX-278-971	Clamp, Electrode
56	WPX-274-313	Electrode, Ignition
58	WPX-147-699	Screw, Flame Sensor
59	WPX-638-78A	Sensor, Flame
60	WPX-453-048	Clip, Retaining, Photo Disc
61	WPX-887-71A	Disc, Photo
62	WPX-503-03A	Pump, Fuel, Kit
65	WPX-665-49A	Tube, Fuel, w/Fittings (High Pressure)
66	WPX-150-754	Bolt, Banjo
67	WPX-151-157	Gasket, Copper
68	WPX-111-372	Tube, Fuel, Banjo, Supply
69	WPX-345-288	Tube, Fuel, Banjo, Return
70	WPX-277-282	Screw, Fuel Pump
71	WPX-152-544	Washer, Lock, Fuel Pump
72	WPX-886-41A	Nozzle, Fuel, 0.35 GPH
73	WPX-412-198	Stand, Nozzle, Brass
74	WPX-277-150	Screw, Manifold
75	WPX-102-861	Plate, Manifold
76	WPX-371-289	Gear, Fuel Pump, Nylon
77	WPX-152-390	Snap Ring, Gear

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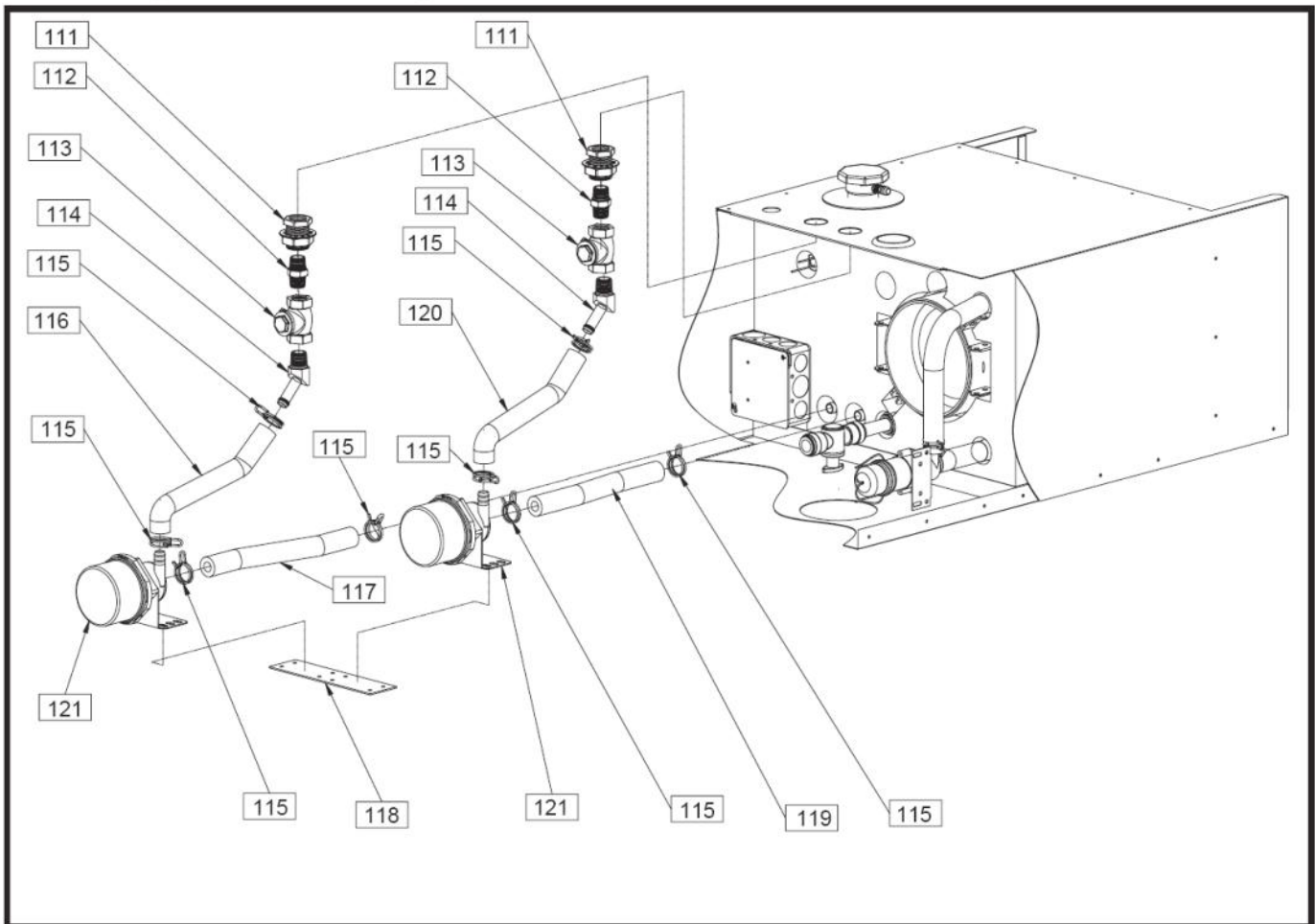
## ■ Electrical Components, Internal



Key	Part No.	Description	Serial No.
96	ELE-800-002	Switch, Float	
97	ELE-800-100	Thermostat, Control	
98	ELE-ASY-200-FRU	Thermostat, High-Limit, 120VAC	
99	ELE-HLT-322	Thermostat, High Limit, 12VDC	
100	ELE-630-002-FRU	Relay, Electromechanical Retrofit kit, HH	
103	ELX-2E7-540	Element, Heating, 120 VAC, 1650 Watts	
104	ELX-002-100	Meter, Hour, Quartz	

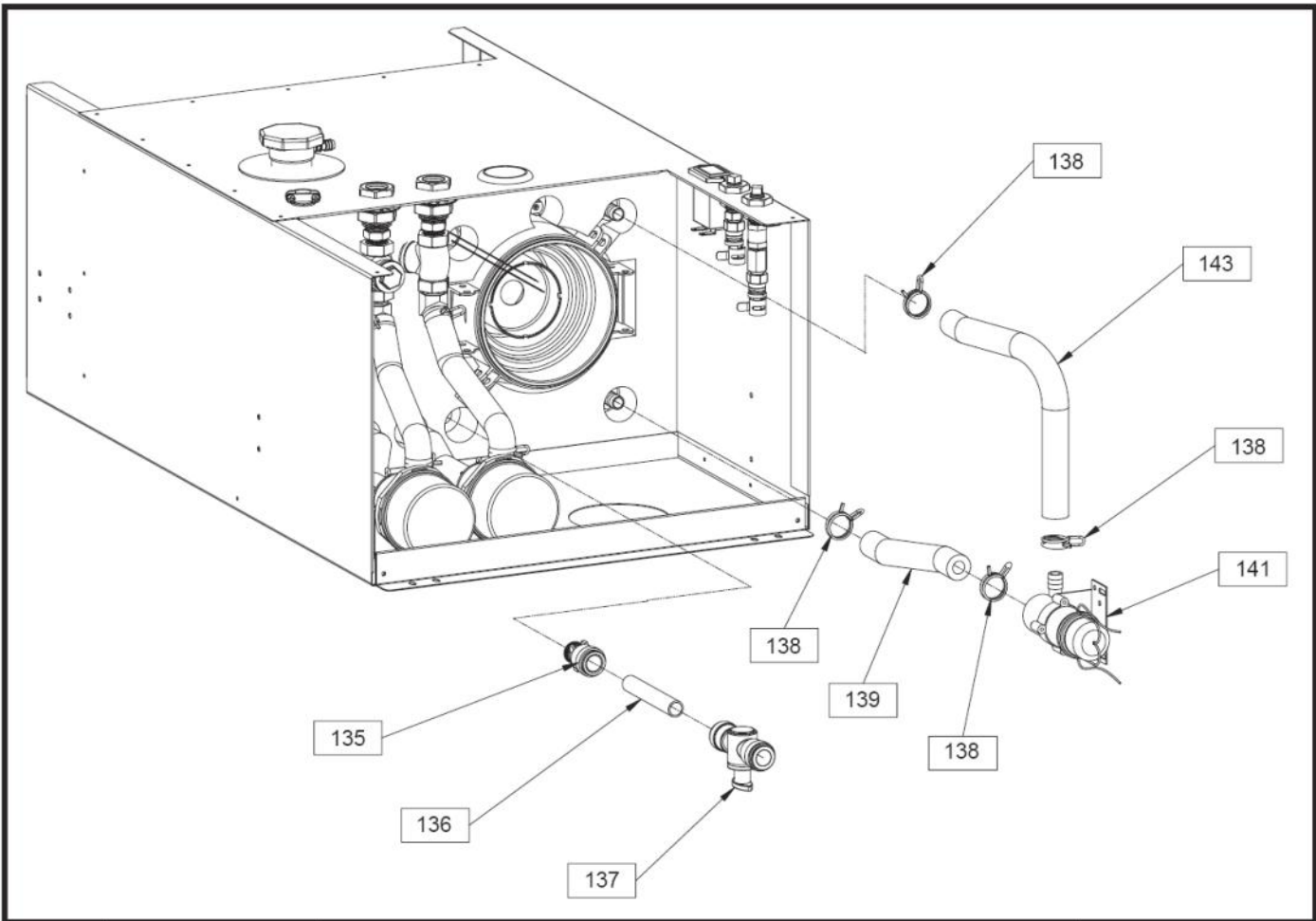
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## ■ Heating Zone Plumbing



Key	Part No.	Description	Serial No.
111	PLX-105-810	Fitting, Bulkhead, 3/4 in (M)NPST x 1/2 in (F) NPT, Brass	
112	PLX-122-000	Fitting, Nipple, 1/2 in (M)NPT, Brass	
113	PLX-2A1-300	Valve, Check, 1/2 in (F)NPT, Brass	
114	PLX-114-080	Elbow, 45 degree, 1/2 in (M)NPT x 1/2 in Hose Barb	
115	PLX-DW1-140	Clamp, Hose	-04335
	PLX-DW1-130	Clamp, Hose	04336-
116	PLE-TUB-105	Hose, Heater, 1/2 in x 9 in	-04335
	PLE-286-202	Hose, Heater, 1/2 in x 9 in	04336-
117	PLE-TUB-104	Hose, Heater, 1/2 in x 8.5 in	-04335
	PLE-285-301	Hose, Heater, 1/2 in x 8.75 in	04336-
118	PLE-GAS-012	Insulator, Mounting, Pumps	
119	PLE-TUB-102	Hose, Heater, 1/2 in x 8.5 in	-04335
	PLE-285-301	Hose, Heater, 1/2 in x 8.75 in	04336-
120	PLE-TUB-103	Hose, Heater, 1/2 in x 8.75 in	-04335
	PLE-285-201	Hose, Heater, 1/2 in x 6.75 in	04336-
121	PLE-100-821	Pump, Circulation, Kit, 12VDC	

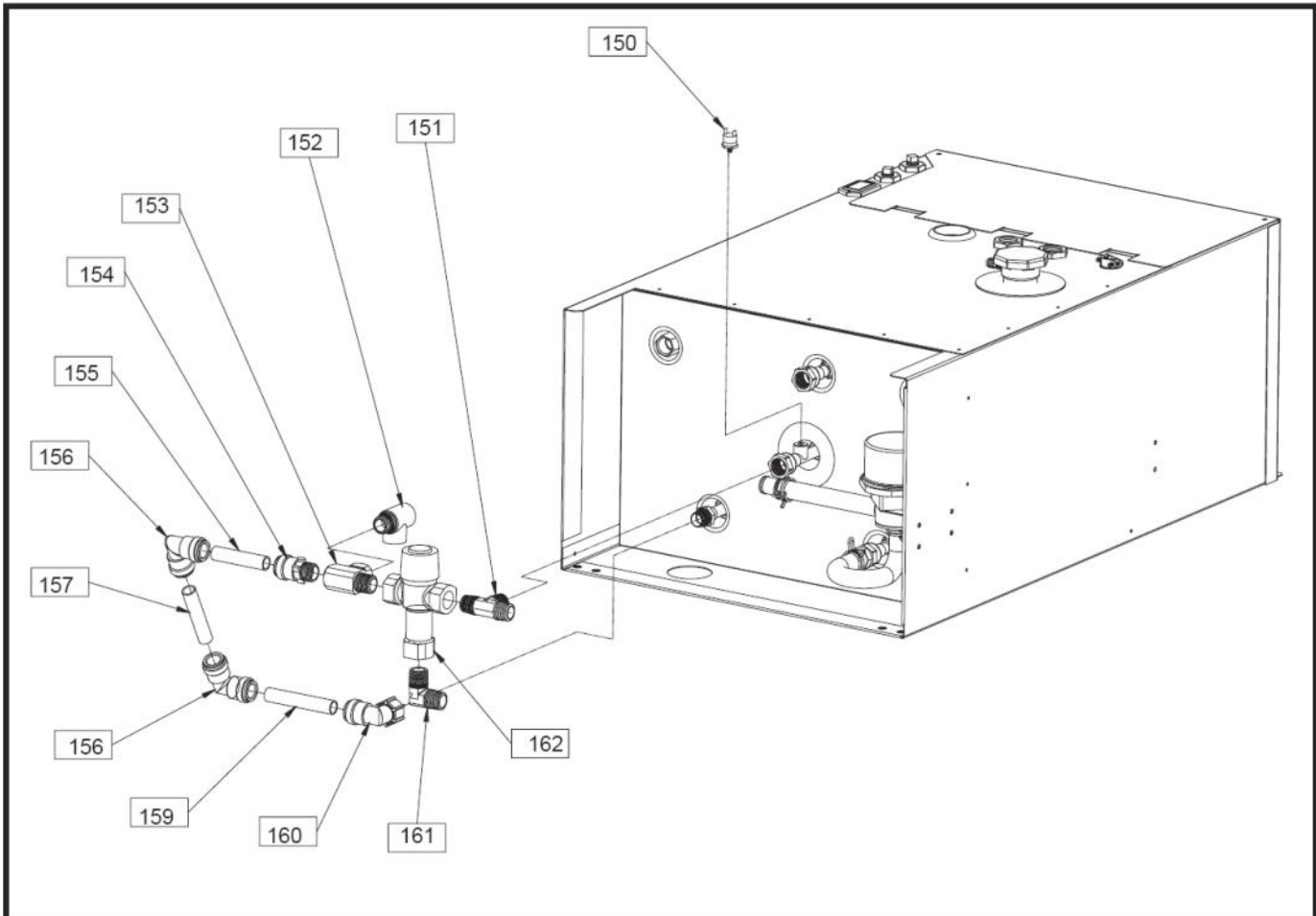
## ■ Stir Pump Plumbing



Key	Part No.	Description	Serial No.
135 } 136 } 137 }	PLE-688-002-FRU	Valve, Ball Asm 1/2in F NPT Brass w/Fitting	
138	PLX-DW1-140	Clamp, Hose	-04335
	PLX-DW1-130	Clamp, Hose	04336-
139	PLE-TUB-101	Hose, Heater, 1/2 in x 5.75 in	-04335
	PLX-285-101	Hose, Heater, 1/2 in x 5.75 in	04336-
141	PLE-100-830-FRU	Pump, Circulation, Stir, 12VDC	
143	PLE-TUB-100	Hose, Heater, 1/2 in x 10.75 in	-04335
	PLE-285-501	Hose, Heater, 1/2 in x 10.75 in	04336-

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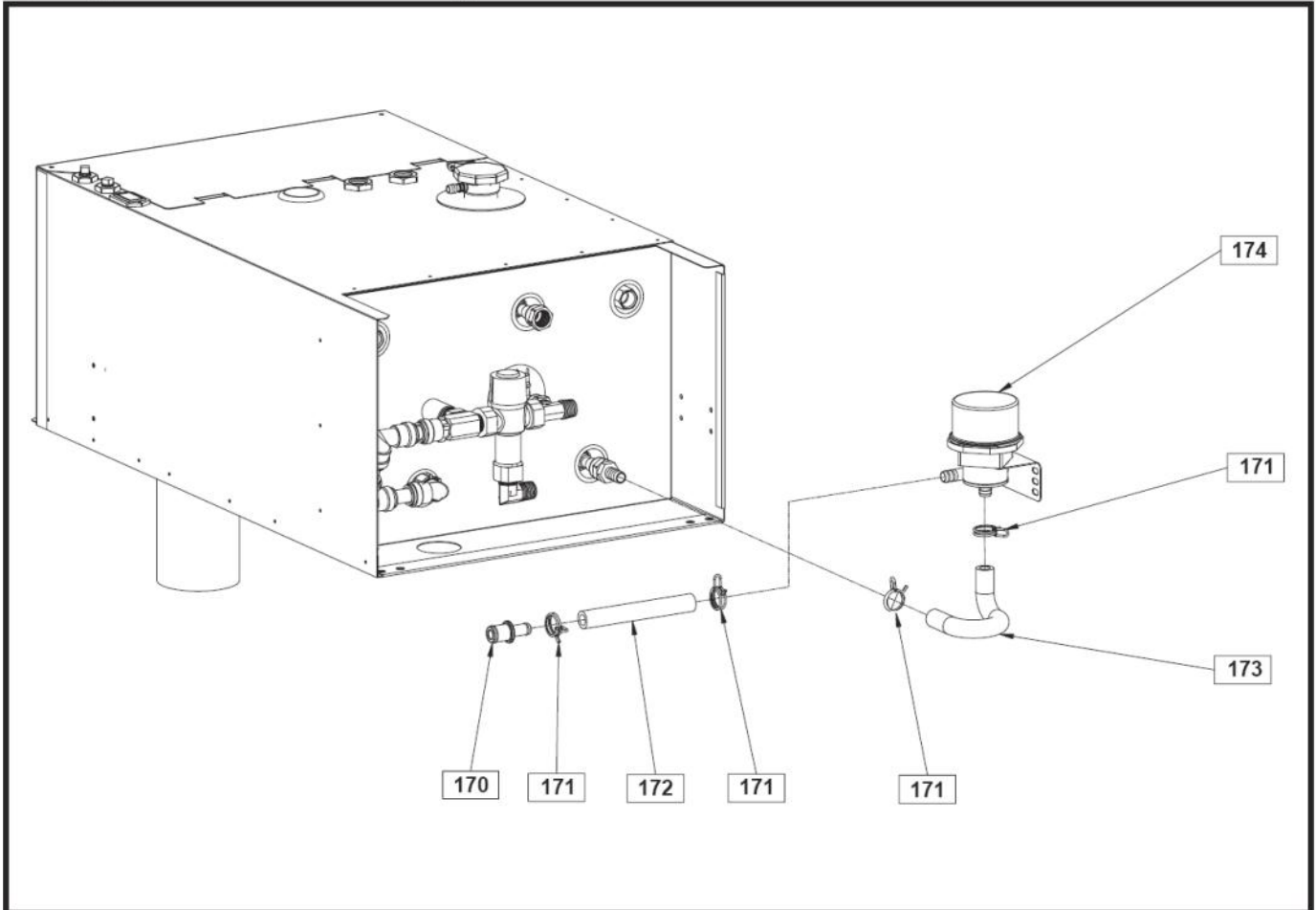
## Domestic Water Plumbing



Key	Part No.	Description	Serial No.
150	ELE-LTC-505	Thermostat, Low Temperature Cut-Off, w/Clip	-04164
	ELE-000-606	Thermostat, Low Temperature Cut-Off	04165-
151	PLE-200-011	Fitting, Tee, 1/2 in (M)NPT, Brass	
152	PLX-111-125	Valve, Pressure Relief	
153	PLX-0X1-07D	Fitting, Tee, 1/2 in (M)NPT x 1/2 in (F)NPT, Brass	
154	PLX-432-000	Fitting, 1/2 in (M)NPT x 1/2 in PEX	
155	PLE-803-TUB	Tube, PEX, 1/2 in x 2.75 in	
156	PLX-803-ELB	Fitting, Elbow, 1/2 in, PEX	
157	PLE-805-TUB	Tube, PEX, 1/2 in x 3 in	
159	PLE-806-TUB	Tube, PEX, 1/2 in x 3.375 in	
160	PLX-803-FSE	Fitting, Elbow, 1/2 in PEX x 1/2 in (F)NPT	
161	PLX-99D-90A	Fitting, Elbow, 1/2 in (N)NPT, Brass	
162	PLX-09P-100	Valve, Tempering	

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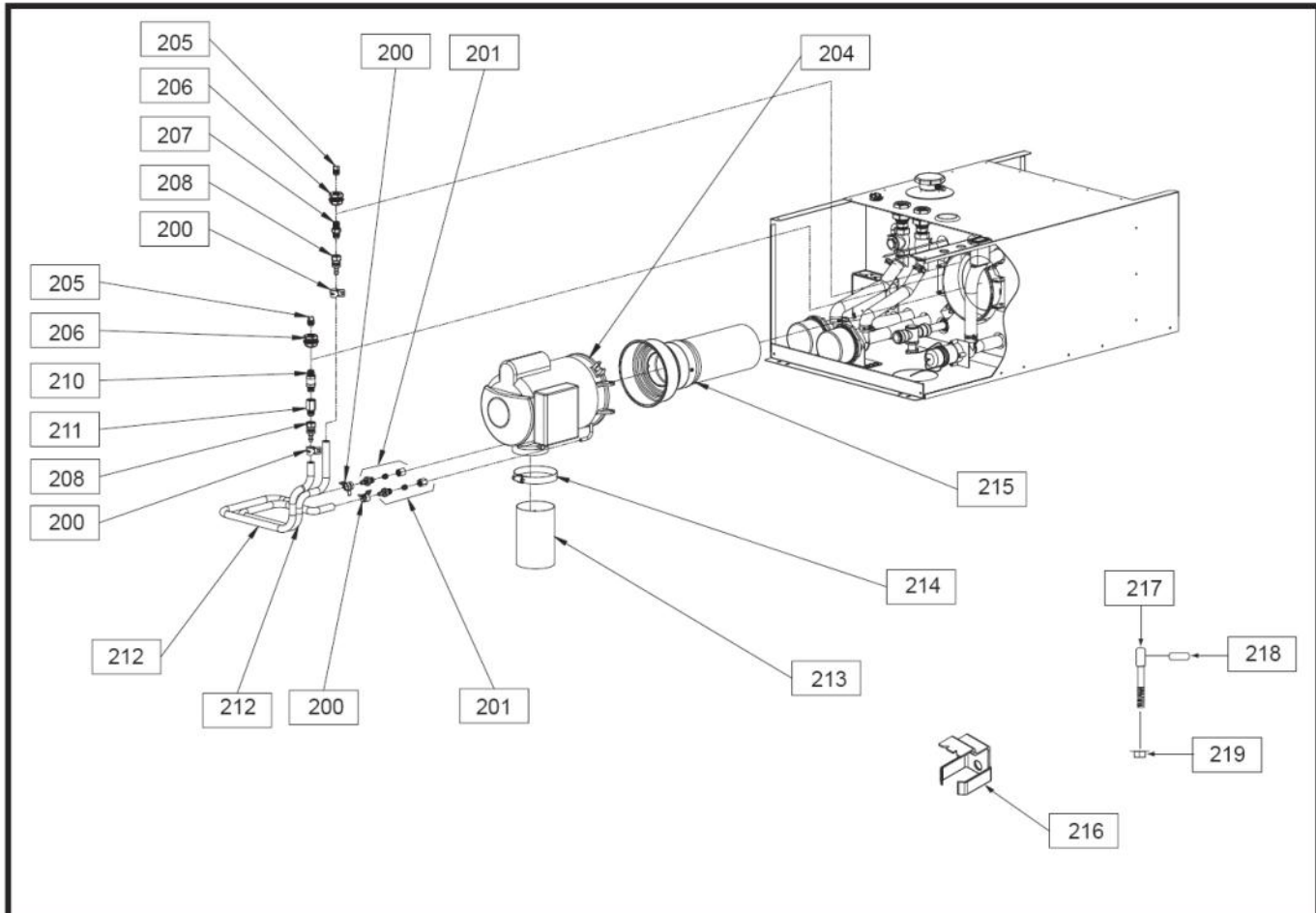
## ■ Engine Preheat Plumbing



Key	Part No.	Description	Serial No.
170	PLE-200-000	Fitting, 3/4 in x 1/2 in, Reducer, Brass	
171	PLX-DW1-140	Clamp, Hose	
172	PLE-285-101	Hose, Heater, 1/2 in x 5.75 in	
173	PLX-GAT-700	Hose, Heater, Molded	
174	PLE-100-821	Pump, Circulation, Kit, 12VDC	

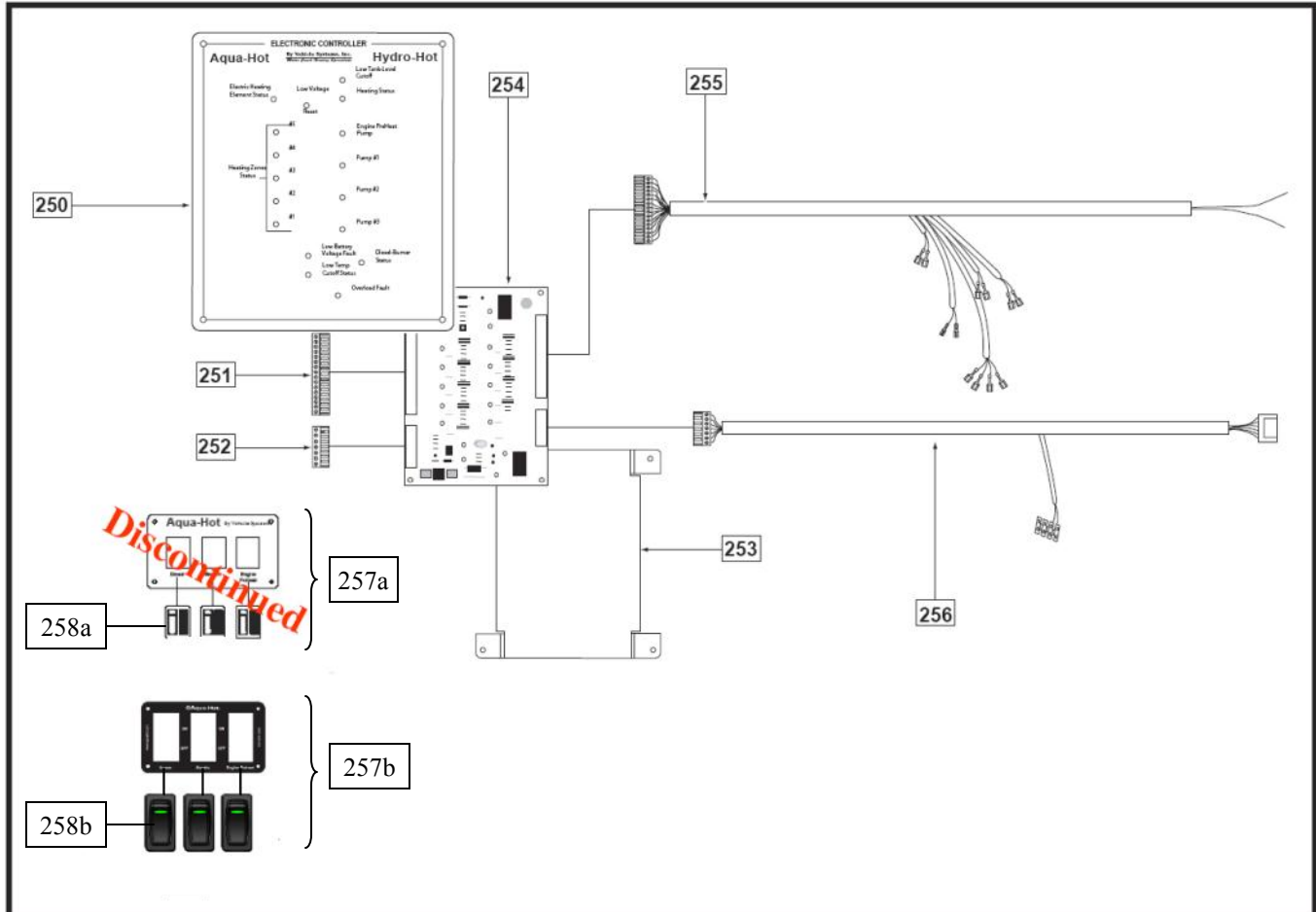
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## ■ Diesel Burner and Fuel Lines



Key	Part No.	Description	Serial No.
200	PLX-CTB-17T	Clamp, Hose, Fuel Line	
201	FLE-FUL-100	Fitting, Fuel Line, Hose Barb x Compression	
204	WPE-905-835	Burner, Diesel, 12VDC	
205	PLX-TP3-PLG	Fitting, 1/4 in Plug, Plastic (for product shipping only)	
206	PLX-105-800	Fitting, Bulkhead, 3/4 in (M)NPST x 1/4 in (F)NPT, Brass	
207	FLX-038-204	Fitting, #6 (M)JIC x 1/4 in (M)NPT, Steel	
208	FLX-380-406	Fitting, #6 (F)JIC x 5/16 in Hose Barb, w/ Swivel, Brass	
210	FLX-751-CVL	Valve, Check, Fuel, 1/4 in (M)NPT, Brass	
211	FLX-184-604	Fitting, #6 (M)JIC x 1/2 in (F)NPT, Steel	
212	FLX-421-000	Line, Fuel	
213	N/A		
214	HDX-620-210	Clamp, Hose	
215	WPX-265-53A	Chamber, Combustion	
216	WPX-310-646	Gauge, Adjustment, Electrode	
217	WPX-461-555	Bolt, Eye	
218	WPX-420-565	Pin, Eye Bolt	
219	WPX-363-618	Nut, Eye Bolt	

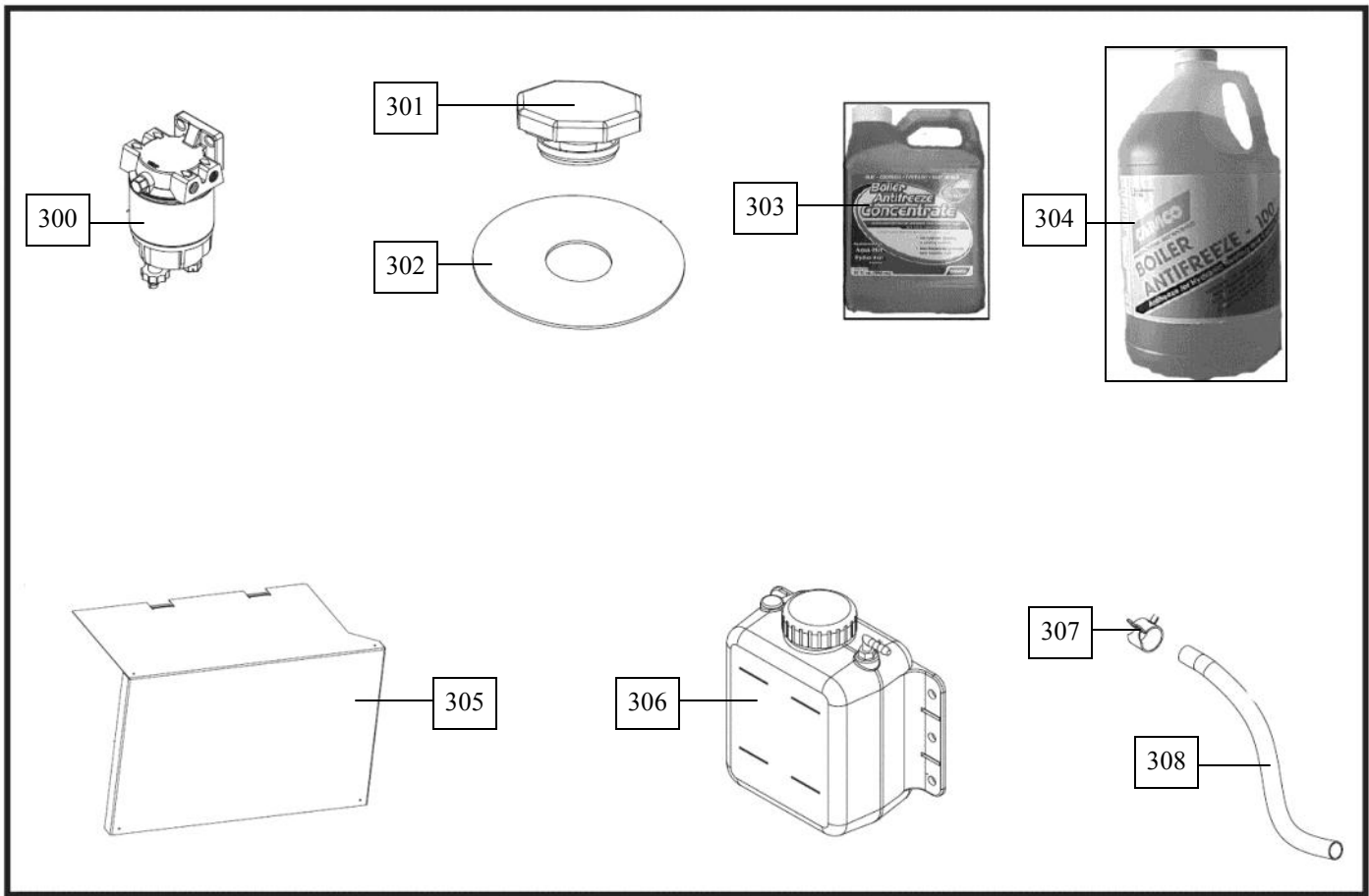
## ■ Electronic Controller and Switch Panel



Key	Part No.	Description	Serial No.
250	SME-200-501	Faceplate, Electronic Controller, Enclosure	
251	ELX-312-491	Plug, Electronic Controller, 20-Position	
252	ELX-312-499	Plug, Electronic Controller, 8-Position	
253	SME-EN4-008	Back, Electronic Controller, Enclosure	
254	ELE-PC4-010-FRU	Controller, Electronic, w/Time Delay, 12 VDC	
255	ELE-JP3-452	Harness, Control	
256	ELE-JP4-221	Harness, B-Plug	
257a	ELE-000-507	Panel, Switch, Assembly, 12 VDC	
257b	ELE-000-509	Panel, Switch, Assembly, 12 VDC	
258a	ELX-283-284	Switch, Rocker, w/LED	
258b	ELX-283-283	Switch, Rocker, w/LED	

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## ■ Miscellaneous Parts



Key	Part Number	Description	Serial Number
300	FLX-R12-TRA	Filter, Fuel, Racor	
301	PLX-102-229	Cap, Radiator, 13lb	
302	PLE-GAS-FLL	Gasket, Rubber, Filler Neck	
303	MSX-300-275	Antifreeze, Boiler, P.G.,1qt.	
304	MSX-300-270	Antifreeze P.G. 1 gallon	
305	SME-C23-500	Cover, Access	
306	PLE-070-400	Tank, Expansion, 3 qt	
307	PLX-UM5-007	Clamp, Hose	
308	PLX-210-092	Tube, Overflow, 5/16 in x 6 ft	





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