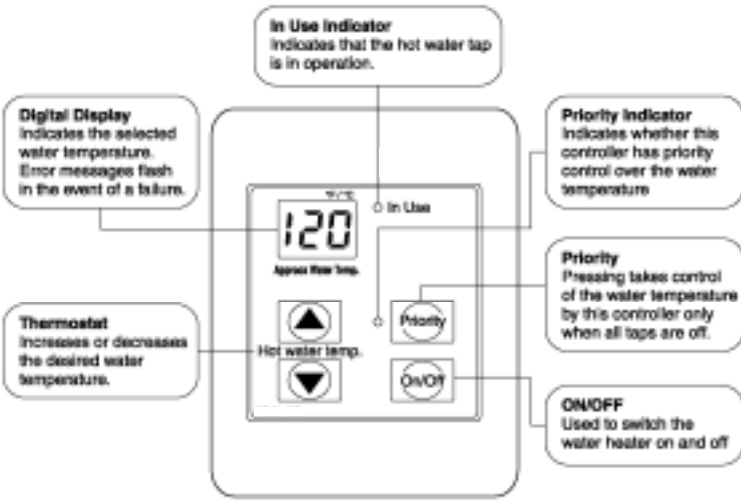


Remote Controller



Diagnostic Use of Controller

1. To Display Maintenance Codes: Press the 'On/Off' button once to turn the controller off. Press and hold the 'On/Off' button followed by the thermostat button to cycle through the maintenance codes.
2. To Display Water Flow through the water heater: Press the thermostat button and hold for 2 seconds and then press the 'On/Off' button while continuing to hold the thermostat button.
3. To Display Outlet Water Temperature: Press the thermostat button and hold for 2 seconds and then press the 'On/Off' button while continuing to hold the thermostat button.

To Change the Temperature Display from °F to °C (or °C to °F)

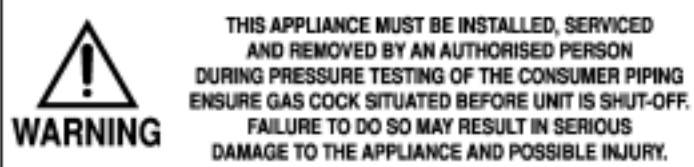
1. Press the 'On/Off' button once to turn the controller unit off. With the controller off press and hold the 'On/Off' button until the display changes to °C (°F), approximately 5 seconds.

To Turn Off the Sound (Mute)

1. To turn the sound off (mute) press and hold both the thermostat buttons until an audible "beep" is heard, approximately 5 seconds.

Gas Pressure Setting

NOTE: For additional installation and commissioning information refer to Operation / Installation Manual



APPLIANCE OPERATING PRESSURES

	Water Inlet Min.	Gas Inlet Min./Max		Forced Low		Forced High	
		NAT.G	LPG	NAT.G	LPG	NAT.G	LPG
505	150 PSI	5"W.C. 10.5"W.C.	8"W.C. 13.5"W.C.	0.52"W.C.	0.92"W.C.	3.3"W.C.	5.0"W.C.
305							

COMMISSIONING

With all gas appliances in operation at maximum gas rate, the flowing inlet pressure at the incoming test point on the Water Heater should read 5"W.C. - 10.5"W.C. on Natural Gas and 8"W.C. - 13.5"W.C. on Propane Gas. If the pressure is lower, the gas supply is inadequate and the appliance unit will not operate to specification. Check gas meter, regulator and pipework for correct operation/sizing and rectify as required.

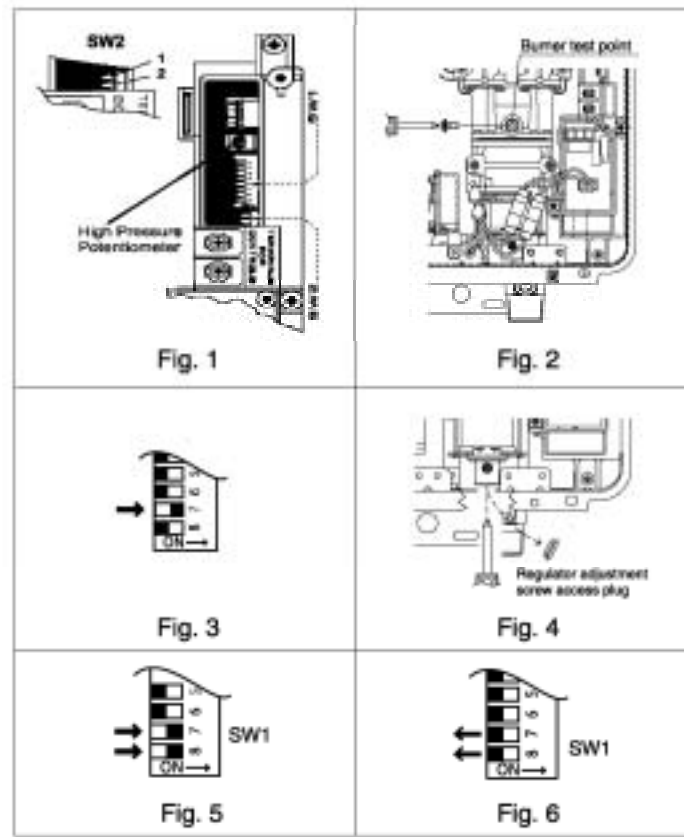
GAS PRESSURE SETTING

(Ensure gas pressure check under Commissioning has been completed first!)
The regulator is electronically controlled and factory pre-set. Under normal circumstances it does not require adjustment during installation. Make adjustments only if the unit is not operating correctly and all other possible causes for incorrect operation have been eliminated.

1. Turn 'OFF' the gas supply.
2. Turn 'ON' 120V power supply.
3. Remove the front cover from the appliance.
4. Check gas type using data plate on side of unit. If using spare PC board, check gas type switches (Fig.1) are in the correct position. (dip switch 1 of SW2 'ON' = NG, 'OFF' = LPG) See Dip Switch Settings section below.
5. Attach pressure gauge to burner test point, located on the gas control. (Fig.2).
6. Turn 'ON' the gas supply.
7. Turn 'ON' 120V power supply.
8. If remote controllers are fitted, turn the unit 'ON' at the controller, select the maximum delivery temperature and open all available hot water taps full including the shower. (CAUTION: Ensure building occupants do not have access to hot water outlets during this procedure).
9. Set the Water Heater to 'Forced Low' combustion by setting No.7 dip switch of the (SW1) set of dip switches to 'ON'. (Fig.3).
10. Check the burner test point pressure.
11. Remove rubber access plug and adjust the regulator screw on the modulating valve (Fig.4) as required in Table 1. Replace rubber access plug.
12. Set the Water Heater to 'Forced High' combustion by setting both No.7 and No.8 dip switches of the bottom (SW1) set to 'ON'. (Fig.5). **Ensure maximum water flow!**
13. Check the burner test point pressure.
14. Adjust the high pressure Potentiometer (POT) on the Printed Circuit Board (PCB) as required to the pressure shown in Table 1.

IMPORTANT: Set dip switches 7 and 8 on the bottom (SW1) to 'OFF' to return the appliance to 'Normal' combustion. (Fig. 6).

15. Close hot water tap.
16. Turn 'OFF' the gas supply and 120V power supply.
17. Remove pressure gauge & replacing sealing screw.
18. Turn 'ON' the gas supply and 120V power supply.
19. Operate unit and check for gas leaks at test point.
20. Replace the front cover of the appliance.



Error Codes

02 No burner operation during freeze protection mode <ul style="list-style-type: none"> • Service Call 	16 Over Temperature Warning <ul style="list-style-type: none"> • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check for clogged heat exchanger.
03 Power interruption during Bath fill (Water will not flow when power returns) <ul style="list-style-type: none"> • Turn off all hot water taps. Press ON/OFF twice. 	32 Outgoing Water Temperature Sensor Fault <ul style="list-style-type: none"> • Check sensor wiring for damage. • Measure resistance of sensor. • Clean sensor of scale build up. • Replace sensor.
10 Air Supply or Exhaust Blockage <ul style="list-style-type: none"> • Ensure approved venting materials are being used. • Check that nothing is blocking the flue inlet or exhaust. • Check all vent components for proper connections. • Ensure vent length is within limits. • Ensure condensation collar was installed correctly. • Verify dip switches are set properly. • Check fan for blockage. 	33 Heat Exchanger Outgoing Temperature Sensor Fault <ul style="list-style-type: none"> • Check sensor wiring for damage. • Measure resistance of sensor. • Clean sensor of scale build up. • Replace sensor.
11 No Ignition <ul style="list-style-type: none"> • Check that the gas is turned on at the water heater, gas meter, or cylinder. • Ensure gas type and pressure is correct. • Ensure gas line, meter, and/or regulator is sized properly. • Bleed all air from gas lines. • Verify dip switches are set properly. • Ensure appliance is properly grounded. • Disconnect EZConnect or MSA controls to isolate the problem. • Ensure igniter is operational. • Check igniter wiring harness for damage. • Check gas solenoid valves for open or short circuits. • Remove burner cover and ensure all burners are properly seated. • Remove burner plate and inspect burner surface for condensation or debris. 	34 Combustion Air Temperature Sensor Fault <ul style="list-style-type: none"> • Check for restrictions in air flow around unit and vent terminal. • Check sensor wiring for damage. • Measure resistance of sensor. • Clean sensor of scale build up. • Ensure fan blade is tight on motor shaft and is in good condition. • Replace sensor.
12 Flame Failure <ul style="list-style-type: none"> • Check that the gas is turned on at the water heater and gas meter. Check for obstructions in the flue outlet. • Ensure gas line, meter, and/or regulator is sized properly. • Ensure gas type and pressure is correct. • Bleed all air from gas lines. • Ensure proper venting material was installed. • Ensure condensation collar was installed properly. • Ensure vent length is within limits. • Verify dip switches are set properly. • Ensure appliance is properly grounded. • Disconnect keypad. • Disconnect EZConnect or MSA controls to isolate the problem. • Check power supply for loose connections. • Check power supply for proper voltage and voltage drops. • Ensure flame rod wire is connected. • Check flame rod for carbon build-up. • Disconnect and re-connect all wiring harnesses on unit and PC board. • Check all components for electrical short. • Check gas solenoid valves for open or short circuits. • Remove burner plate and inspect burner surface for condensation or debris. 	52 Modulating Solenoid Valve Signal Abnormal <ul style="list-style-type: none"> • Check modulating gas solenoid valve wiring harness for loose or damage terminals. • Measure resistance of valve coil.
14 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	61 Combustion Fan Failure <ul style="list-style-type: none"> • Ensure fan will turn freely. • Check wiring harness to motor for damaged and/or loose connections. • Measure resistance of motor winding.
16 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	65 Water Flow Servo Faulty (does not stop flow properly) <p>If blank screen is present on remote control then the flow control has shorted out. Unplug flow control. If remote lights up and unit starts operating then replace flow control assembly.</p>
17 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	71 SV0, SV1, SV2, and SV3 Solenoid Valve Circuit Fault <ul style="list-style-type: none"> • Check wiring harness to all solenoids for damage and/or loose connections. • Measure resistance of each solenoid valve coil.
18 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	72 Flame Sensing Device Fault <ul style="list-style-type: none"> • Ensure flame rod is touching flame when unit fires. • Check all wiring to flame rod for damage. • Remove flame rod and check for carbon build-up; clean with sand paper. • Check inside burner chamber for any foreign material blocking flame at flame rod. • Measure micro amp output of sensor circuit with flame present. • Replace flame rod.
19 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	LC Scale Build-up in Heat Exchanger (when checking maintenance code history "00" is substituted for "LC") <ul style="list-style-type: none"> • Flush heat exchanger. Refer to instructions in manual. • Replace heat exchanger.
20 Thermal Fuse <ul style="list-style-type: none"> • Check gas type of unit and ensure it matches gas type being used. • Check for restrictions in air flow around unit and vent terminal. • Check for low water flow in a circulating system causing short-cycling. • Ensure dip switches are set to the proper position. • Check for foreign materials in combustion chamber and/or exhaust piping. • Check heat exchanger for cracks and/or separations. • Check heat exchanger surface for hot spots which indicate blockage due to scale build up. Refer to instructions in manual for flushing heat exchanger. • Measure resistance of safety circuit. • Ensure high fire and low fire manifold pressure is correct. • Check for improper conversion of product. 	No Code (Nothing happens when water flow is activated.) <ul style="list-style-type: none"> • Clean inlet water supply filter. • On new installations ensure hot and cold water lines are not reversed. • Check for bleed over. Isolate unit from building by turning off hot water line to building. Isolate the circulating system if present. Open your pressure relief valve; if unit fires, there is bleed over in your plumbing. • Ensure you have at least the minimum flow rate required to fire unit. • Ensure turbine spins freely. • Measure the resistance of the water flow control sensor. • Remote control does not light up but you have 12 VDC at the terminals for controls.

Troubleshooting

IMPORTANT SAFETY NOTES:

There are a number of (live) tests that are required when fault finding this product. Extreme care should be used at all times to avoid contact with energized components inside the water heater. Only trained and qualified service agencies should attempt to repair this product. Remember, before checking for resistance readings, you should disconnect the power source to the unit and isolate the item to be checked from the circuit (unplug it).

(SV1, SV2, SV3 and POV) Gas valve and Modulating solenoids: (Set meter above 2K)

Wire color	Voltage	Resistance	Connector #	Pin #s
(Main) Pink - Black	11 - 13 VDC	36.8 - 44.8 ohms	H5	6 - 7
(SV1) Black - Yellow	11 - 13 VDC	36.8 - 44.8 ohms	H6	5 - 6
(SV2) Black - Blue	11 - 13 VDC	36.8 - 44.8 ohms	H7	4 - 6
(SV3) Black - Brown	11 - 13 VDC	36.8 - 44.8 ohms	H8	3 - 6
(POV) Pink - Pink	2 - 15 VDC	67 - 81 ohms	H3	9 - 10

(M) Water Flow Control Device Servo or Geared Motor:

Red - Blue	11 - 13 VDC	22 - 28 ohms	F7	9 - 10
Grey - Brown	4 - 6 VDC	N/A	F7	5 - 7
Grey - Yellow	N/A	N/A	F7	5 - 8

NOTE: The grey wire listed above turns to black at B connector on the PCB, the orange wire turns to red.

(QS) Water Flow Sensor:

Black - Red	11 - 13 VDC	5.5 - 6.2 K ohms	F2	1 - 3
Yellow - Black	4 - 7 VDC	1 - 1.4 Mega ohms	F2	2 - 3

By-pass Flow Control (By-pass servo model ONLY):

Brown - White	11 - 13 VDC	15 - 35 ohms	G1	1 - 5
Orange - White	2 - 6 VDC		G1	2 - 5
Yellow - White	(Unit in operating mode)		G1	3 - 5
Red - White - Ground			G1	4 - 5

(IG) Ignition System:

Grey - Grey	90 - 110 VAC	N/A	C1	1 - 2
-------------	--------------	-----	----	-------

(FM) Combustion Fan Motor:

Red - Black	6 - 45 VDC	N/A	E1	1 - 2
White - Black	5 - 10 VDC	9.2 - 9.4 K ohms	E1	2 - 4
Yellow - Black	11 - 13 VDC	3.5 - 3.9 K ohms	E1	3 - 4

Set your meter to the hertz scale. Reading across the white and black wires at terminals 2 and 3 you should read between 60 and 420 hertz.

Thermal Fuse / Overheat Switch:

Red - Red	11 - 13 VDC	Below 1 ohms	F6 H1	F6 - H12
-----------	-------------	--------------	----------	----------

Flame Rod:

Place one lead of your meter to the flame rod and the other to earth or ground. With the unit running you should read between 5 - 150 VAC. Set your meter to the μ amp scale, series your meter in line with the flame rod. You should read ≥ 1 or greater for proper flame circuit. In the event of low flame circuit remove the flame rod and check for carbon and/or damage.

Heat Exchanger, Air Temperature, and Outgoing Water Temperature Thermistors:

Check all thermistors by inserting meter leads into each end of the thermostat plug. Set your meter to the 20K scale and read resistance. You should be able to apply heat to the thermostat bulb and see the resistance decrease. Then apply some ice to the thermostat and the resistance should increase. See below for examples of temperatures and resistance reading at those temperatures.

Example: 59°F = 11.4 - 14K Ω	140°F = 2.2 - 2.7K Ω
86°F = 6.4 - 7.8K Ω	221°F = 0.6 - 0.8K Ω
113°F = 3.6 - 4.5K Ω	

Outgoing Water Thermistors:

White - White	N/A	See example above	F5	3 - 4
---------------	-----	-------------------	----	-------

Heat Exchanger Temperature Thermistors:

Pink - White	N/A	See example above	F4	3 - 11
--------------	-----	-------------------	----	--------

Intake Air Thermistors (Indoor model ONLY)

Orange - White	N/A	See example above	F3	3 - 12
----------------	-----	-------------------	----	--------

Surge Protector:

Black - White	108 - 132 VAC	N/A	D2	1 - 3
Blue - Brown	108 - 132 VAC	N/A	D1	1 - 3

With the power off you can check the continuity through the surge protector. Place one meter lead on the top pin #1 of the surge protector and pin #2 on the bottom of the surge protector. Then check across top pin #3 and bottom pin #1. If you read continuity across these two points the surge protector is good. If you do not get continuity, replace the surge protector.

Remote Controls:

Terminals B1	10 - 13 VDC	1.5 - 3.0 K ohms	B	1 - 3
--------------	-------------	------------------	---	-------

Frost Protection:

This unit has five frost protection heaters mounted at different points inside the unit, to protect the water heater from freeze ups. There are two heaters located on the outlet hot water line next to the thermostat.

Using a voltage meter set on the 200 ohm scale, you should have a resistance reading of 123 - 137 ohms through each of these heaters. The heater located on the heat exchanger piping should have a resistance reading of 109 - 121 ohms and the one located in the water flow sensor valve has a resistance reading of 14 - 16 ohms. The one located in the outlet valve has a resistance reading of 14 - 16. Voltage throughout this circuit should be 120 VAC.

Amp Fuses:

This unit has an inline (3) amp glass fuse. Remove the fuse and check continuity through it. If you have Continuity through the fuse, it is good. If you can not read continuity, the fuse is blown and must be replaced.

Dip Switches Settings

Adjust switches 2 and 3 in the bank of 8 depending on your altitude according to the table below.

The original PC boards on the water heaters do not have the bank of 6 dip switches. Only spare PC boards have this bank.

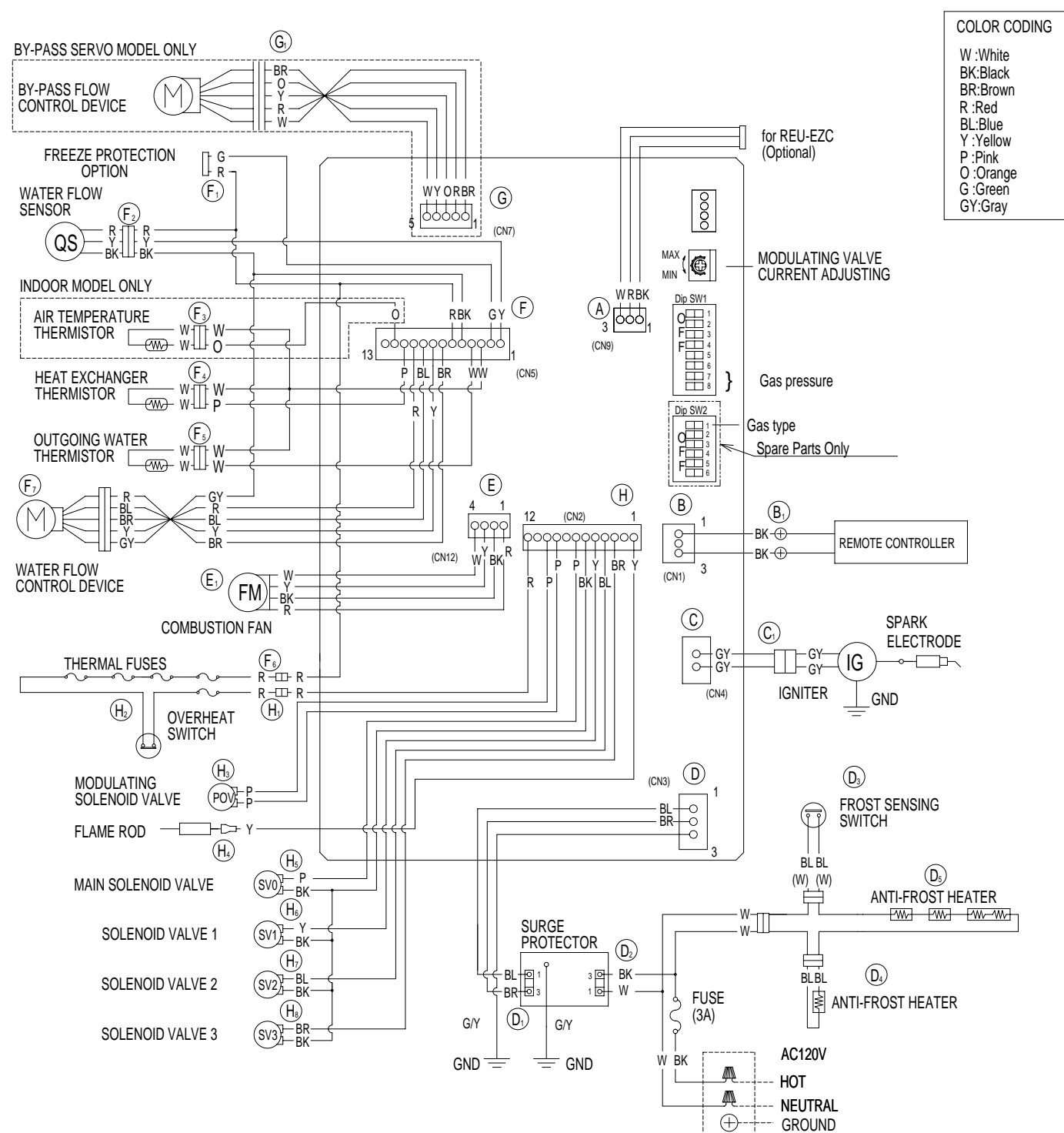


WARNING

DO NOT adjust the other dip switches unless specifically instructed to do so. Incorrect Dip Switch Settings can cause the water heater to operate in an unsafe condition and may damage the water heater and void the warranty.

SW No.	NOTES								
2	High Altitude	Off	Level 0 0-2000ft (0-610m)	Off	Level 1 2001-5200ft (610-1585m)	On	Level 2 5201-7800ft (1585-2377m)	On	Level 3 7801-10200ft (2377-3109m)
3		Off		On		Off			

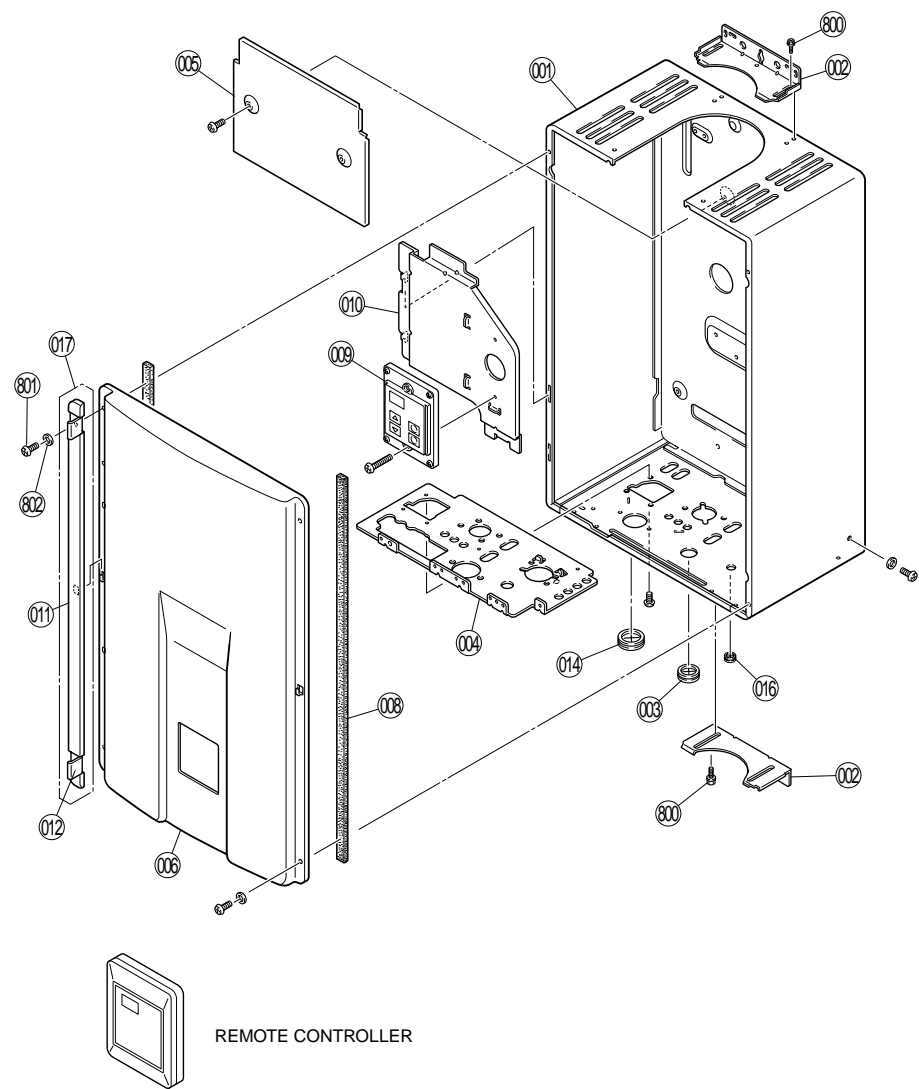
Wiring Diagram



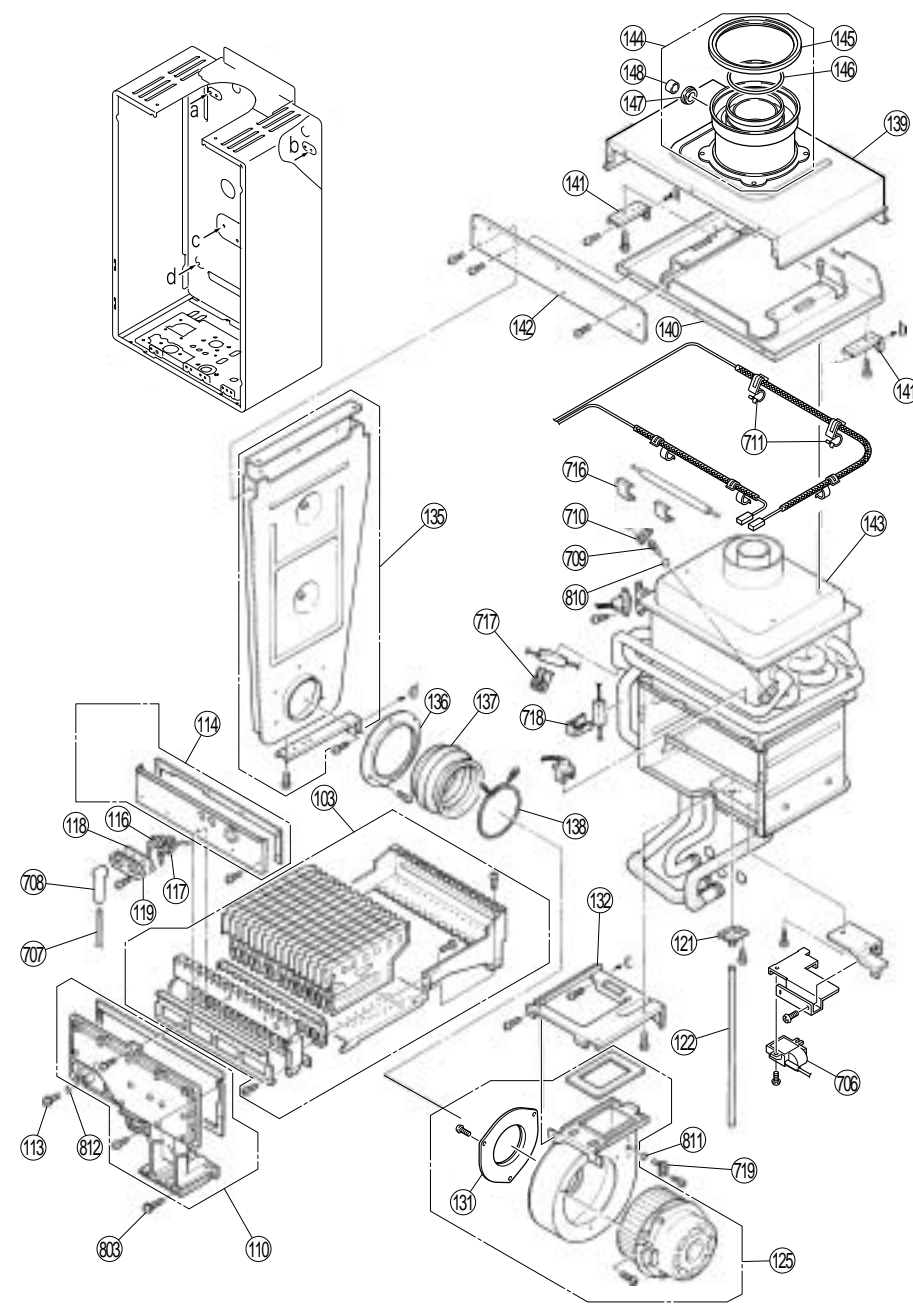
505(VA2532FFUD)
305(VA2520FFUD)

U287-093(00)

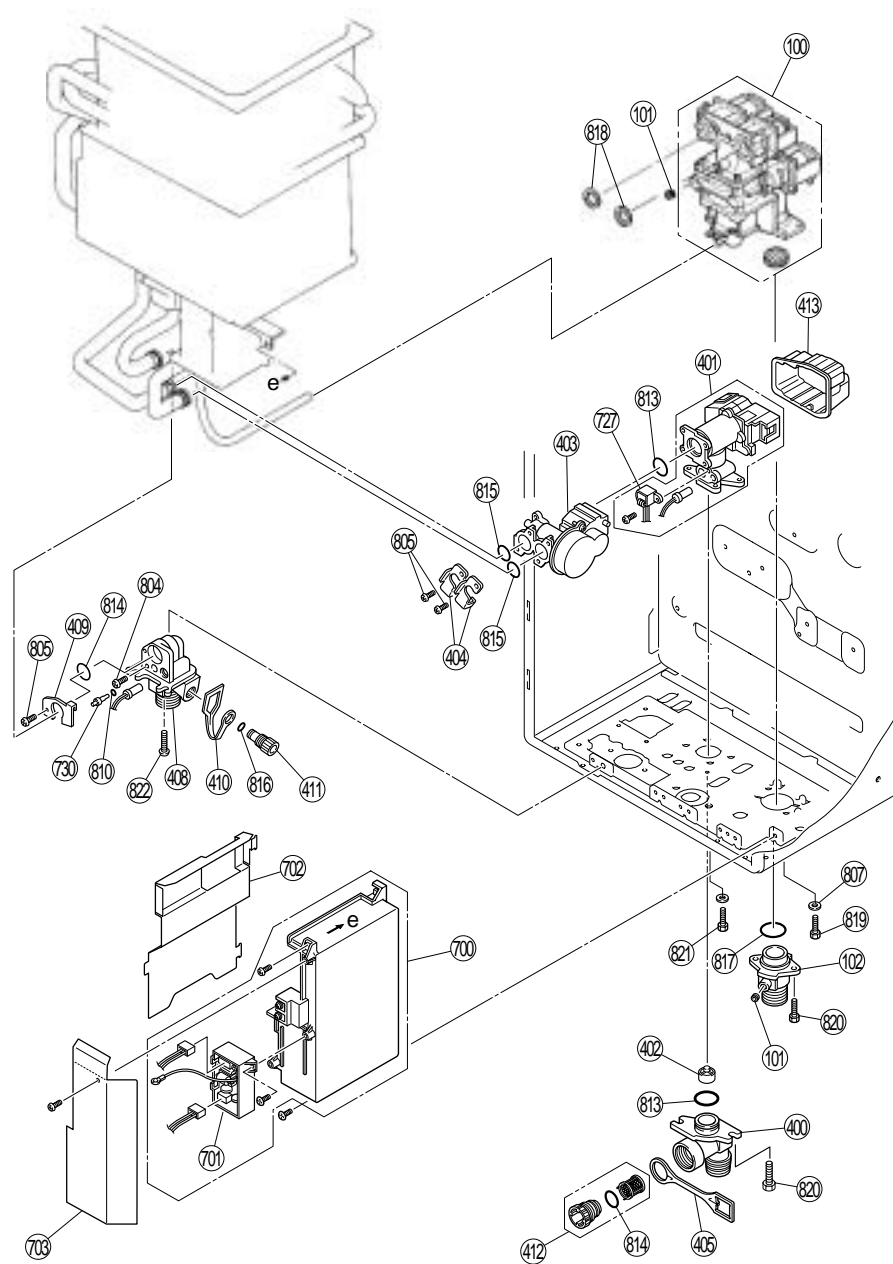
EXPLODED VIEW - CABINET



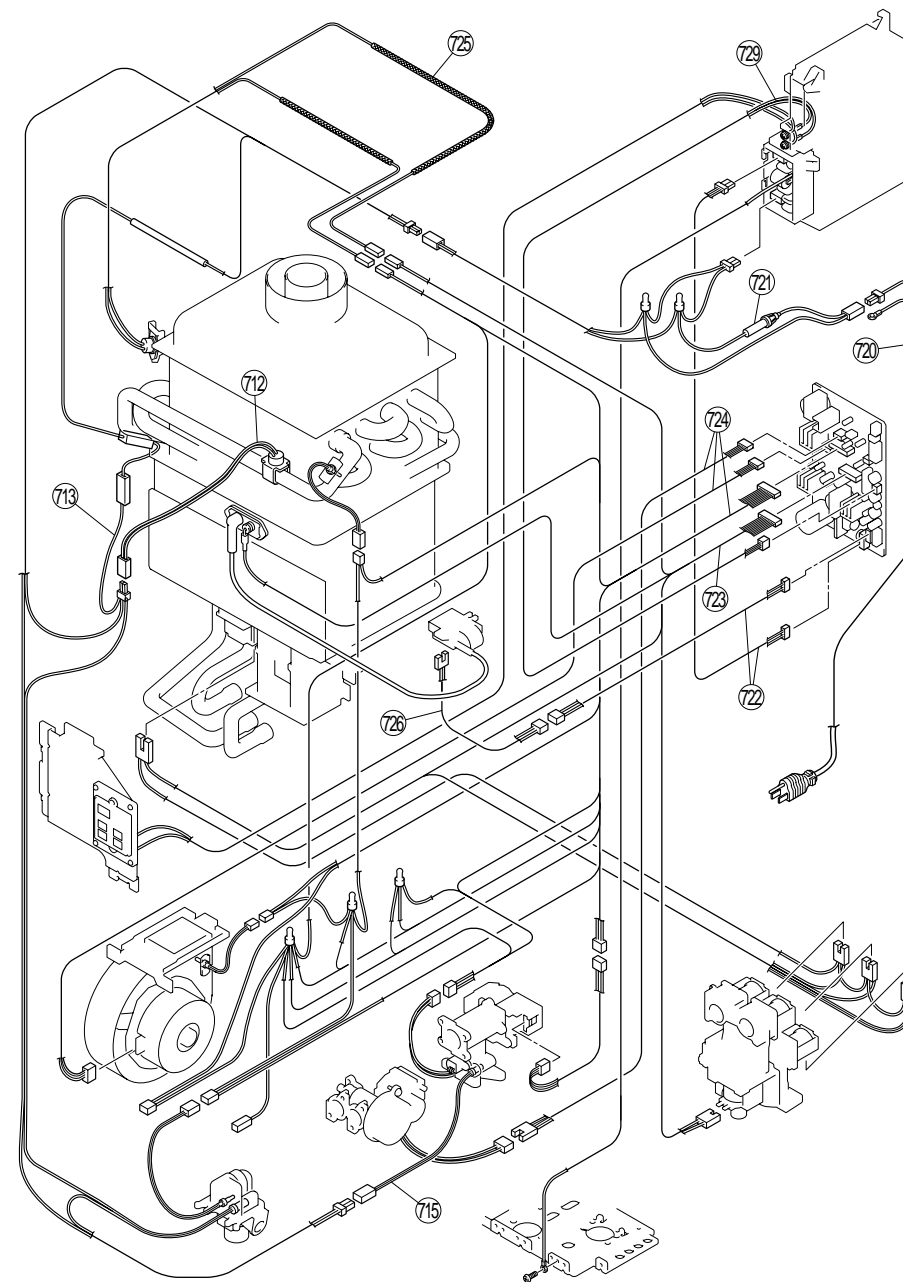
EXPLODED VIEW - INTERNALS



EXPLODED VIEW - INTERNALS



EXPLODED VIEW - ELECTRICAL



PARTS LIST

Number	Description	Parts Number	Quantity		Number	Description	Parts Number	Quantity		Number	Description	Parts Number	Quantity	
			505	305				505	305				505	305
001	Main Body (FFU)	701022-004	1	1	140	Air Inlet Box Frame	701022-056	1	1	713	Anti Frost Heater (120V)	701022-098	1	1
002	Wall Mounting Bracket (FFU)	701022-006	1	1	141	Joint Exhaust Tube Frame Supporter	701022-057	2	2	715	Valve Heater (120V) Assembly	701022-100	1	1
003	Rubber Bushing	701022-008	1	1	142	Air Inlet Box Cover	701022-058	1	1	716	Antifrost Heater Clip B	701022-102	2	2
004	Connection Reinforcement Panel	701022-009	1	1	143	Heat Exchanger Assembly	701022-059	1	-	717	Antifrost Heater Clip A	701022-103	1	1
005	Heat Protection Plate	701022-010	1	1	143	Heat Exchanger Assembly	701022-060	-	1	718	Antifrost Heater Clip C	701022-105	1	1
006	Front Panel	701022-011	1	1	144	Flue Connection Assembly	701022-063	1	1	719	Inlet Air Thermistor	701022-106	1	1
008	Front Panel Packing Side	701022-014	2	2	144	Flue Connection Assy - Male (optional)	701022-064	1	1	720	Power Cord	701022-107	1	1
009	Remote Controller Ass'y	701022-015	1	1	145	O-ring	701022-065	1	1	721	Fuse Harness (FF)	701022-108	1	1
010	Remote Controller Bracket	701022-016	1	1	146	O-ring	701022-066	1	1	722	Power Harness	701022-110	1	1
011	Screw Cover	701022-017	2	2	147	Pipe Seal	701022-067	1	1	723	Solenoid Valve Harness	701022-111	1	1
012	Screw Cover Lid	701022-018	4	4	148	Cap	701022-068	1	1	724	Sensor Harness	701022-112	1	-
014	Rubber Bushing	701022-020	1	1	400	Water Inlet (3/4" NPT)	701022-069	1	1	724	Sensor Harness	701022-113	-	1
016	Packing	701022-023	1	1	401	Water Flow Servo & Sensor Assembly	701022-071	1	-	725	Thermal Fuse Harness Assy	701022-116	1	1
017	Screw Cover Assy	701022-024	2	2	401	Water Flow Servo & Sensor Assembly	701022-072	-	1	726	Ignitor Harness	701022-117	1	1
100	Gas Control Assembly	701022-025	1	1	402	Rectifier	701022-073	1	1	727	Flow Sensor	701022-118	1	1
101	Test Port Set Screw	701022-026	2	2	403	By-pass Servo Assembly	701022-074	1	-	729	Remote Controller Harness	701022-119	1	1
102	Gas Connection (3/4" NPT)	701022-027	1	1	404	Stop Bracket	701022-075	2	-	730	Thermistor	701022-120	1	1
103	Burner Unit Assy (LPG)	701022-028	1	1	404	Stop Bracket	701022-076	-	1	800	Screw	701022-121	8	8
103	Burner Unit Assy (NG)	701022-029	1	1	405	Plug Band	701022-077	1	1	801	Screw	701022-122	4	4
103A	24 Damper (NG)	701022-030	1	1	408	Hot Water Outlet (3/4" NPT)	701022-078	1	1	802	Resin Washer	701022-123	4	4
110	Manifold Assembly (LPG)	701022-031	1	1	409	Stop Bracket	701022-079	1	1	803	O-ring	701022-124	3	3
110	Manifold Assembly (FF-NG)	701022-032	1	1	410	Plug Band (small)	701022-080	1	1	804	Thermistor Stop Screw	701022-125	1	1
113	Pressure Point Sealing Screw	701022-034	1	1	411	Drain Valve	701022-081	1	1	805	Screw	701022-126	3	2
114	Combustion Chamber Sightglass Plate	701022-035	1	1	412	Water Filter Assy	701022-082	1	1	810	O-ring	701022-130	2	2
116	Electrode	701022-036	1	1	413	Cover	701022-083	1	1	810	O-ring	701022-131	1	1
117	Flame Rod	701022-037	1	1	700	PCB	701022-084	1	-	812	O-ring	701022-132	1	1
118	Electrode Packing	701022-038	1	1	700	PCB	701022-085	-	1	813	O-ring	701022-133	2	1
119	Electrode Holder	701022-039	1	1	701	Surge Protector	701022-086	1	1	814	O-ring	701022-134	2	2
119A	Sparker Bracket	701022-040	1	1	701	Surge Protector with terminal (optional)	701022-087	1	1	815	O-ring	701022-135	2	1
121	Tube Joint	701022-041	1	1	702	PCB cover - side	701022-088	1	1	816	O-ring	701022-136	1	1
122	Vent Tube	701022-042	1	1	703	PCB cover - front	701022-090	1	1	817	O-ring	701022-137	1	1
125	Fan Assembly	701022-043	1	1	706	Ignitor	701022-091	1	1	818	Packing	701022-138	2	2
131	Rubber Boot Bracket Right	701022-046	1	1	707	High Tension Cord	701022-092	1	1	819	Screw	701022-139	2	2
132	Combustion Chamber Fan Bracket	701022-047	1	1	708	Electrode Sleeve	701022-093	1	1	820	Screw	701022-140	4	4
135	Air Inlet Box All Assembly	701022-048	1	1	709	Thermistor - Heat Exchanger	701022-094	1	1	821	Screw	701022-141	2	2
136	Rubber Boot Bracket Left	701022-050	1	1	710	Thermistor Clip Large	701022-095	1	1	822	Screw	701022-142	3	3
137	Rubber Boot	701022-051	1	1	711	Temperature Fuse Clip	701022-096	5	5	888	Manual	701022-143	1	1
138	Rubber Boot Clamping Ring	701022-053	1	1	712	Frost Sensing Switch	701022-097	1	1	889	Tech Sheet	701022-145	1	1