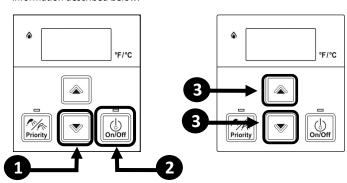
U356-0755-2X02(00

PERFORMANCE DATA

To Obtain Performance Data:

- Press and hold the ▼(Down) button.
- While holding the ▼(Down) button for 2 seconds, press and hold the "On/Off" hutton (hold both buttons simultaneously)
- Use the \triangle (Up) and ∇ (Down) buttons to scroll to the desired performance nformation described below



Perfor	mance Data Ta	ble	
#	DATA		UNIT
81	Water Flow Ra	te	x0.1 gal/min
02	Outgoing Tem	perature	°F
03	Combustion H	ours	x100 Hours
84	Combustion Cy	/cles	See following information
05	Fan Frequency	,	Hz
06	Additional Con	trollers Connected	See following information
07	Water Flow Co	ntrol Position	0=Mid, 1=Open, 2=Closed
08	Inlet Temperat	ture	°F
09	Fan Current		x10 mA
10	Total Bath Fill	Amount	gallons
11	HEX Outlet Ter	nperature	°F
15	By-Pass Flow C	Control Position	Degrees of opening
14	Intake Thermis (Indoor Units C	stor Temperature Only)	°F
lΠ	Freeze Protect	ion Temperature	°F
19	Pump Hours		x100 Hours
50	Pump Cycles		See following information
14	Combustion Cyc	les	
20	Pump Cycles		
	DISPLAY		CYCLE COUNT

Controllers Connected

000 to 999

10- to 99-

I-- to E--

CONTROLLER MODEL	CONNECTED	NOT CONNECTED
MC	1	0
ВС	_1_	_0_
BSC & BSC2	I, Z (QTY2)	0

x100 (0 to 99,900)

(10.000 (100.000 to 990.000)

x1,000,000 (1,000,000 to 6,000,000)

Default display is IDD.

depends on connection status of another controller

MANIFOLD PRESSURE SETTINGS

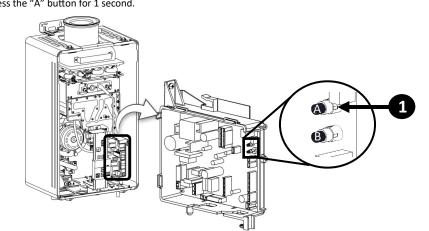
electronically controlled and factory pre-set. Under normal circumstances it does not require djustment during installation. Make adjustments only if the unit is not operating correctly and Il other possible causes for incorrect operation have been eliminated.

- Turn off the gas supply.
- Turn off the 120 V power supply. Remove the front panel from the appliance.
- Turn on the 120 V power supply.
- Check the gas type using the data plate on the side of the unit and parameter setting 10 (refer to Parameter Settings section). (A=LPG, b=NG).
- Remove test port screw and attach the manometer to the burner test point, located on the manifold.
- Turn on the gas supply.
- Flow water through the water heater at the maximum flow rate obtainable. (At least 3 gallons per minute is recommended. If there is not enough water flowing, the water
- heater could shut off or sustain damage due to overheating.)
- Push and hold "B" button. "IF" will appear on the display. Push and hold "A" button, "Forced Low" will appear on the display.
- 11. Push and hold "A" button again, "Forced High" will appear on the display. While in "Forced Low" or "Forced High", use the Up button on the controller to increase
- the pressure. Use the Down button to decrease the pressure. To exit "Forced Low" or "Forced High", push and hold "B" button. "2L" will appear on the
- 14. Push and hold "B" button again. "3C" will appear on the display. (Indoor models only)
- 15. Push and hold "B" button again. "4t" will appear on the display. 16. Push and hold "B" button again. The set temperature will appear on the display (indoor
- models only).
- Close hot water taps.
- 18. Turn off the gas supply and 120 V power supply. Remove the manometer and re-install sealing screw.
- Operate the unit and check for gas leaks.
- 20. Turn on the gas supply and 120 V power supply. Install the front panel.

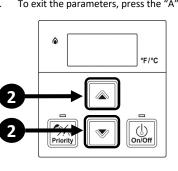
PARAMETER SETTINGS

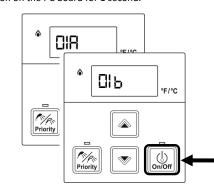
To Adjust the Parameters:

1. Press the "A" button for 1 second.



- 2. Use the \blacktriangle (Up) and \blacktriangledown (Down) button on the controller to select a setting number (See *Parameter* Settings Table)
- Once the desired setting number is selected, use the "On/Off" button on the controller to change the selection for the setting number Example: Display will change from 01A to 01b for Maximum Temperature setting
- To exit the parameters, press the "A" button on the PC board for 1 second.





Parameter Settings Table

SETTING	SETTING	SELECTION											
#	DESCRIPTION	R	Ь	C	А								
01	Maximum Set Temperature	120°F	140°F										
02	High Altitude	0 - 2,000 ft	2,001 - 5,400 ft	5,401 - 7,700 ft	7,701 - 10,200 ft								
UL.	(Installation Location)	(0 - 610 m)	(610 - 1,646 m)	(1,646 - 2,347 m)	(2,347 - 3,109 m)								
03	Service Soon	Disabled	0.5 Year	1 Year	2 Years								
04	Recirculation Settings	No Recirculation	Recirculation (Dedicated)										
05	Recirculation Mode	Economy	Comfort										
06	Control Switch	BMS	Air Handler (AH)										
רם	Units in Standby	2	1										
10	Gas Type (Factory Set)	LPG	NG										
15	Water Heater Model	Without Pump	With Pump										
13	(Factory set values and	199/160	180/140										
14	not adjustable)	Indoor	Outdoor										
15	Low Activation Mode	On	Off										
18	Setting Temperature Table	Default	Alternate										
19	Adjust DHW Temperature Setting	0°F (0°C)	1.8°F (1°C)	3.6°F (2°C)	5.4°F (3°C)								
99	Vent Length	Long	Short										

▲ WARNING	This appliance must be installed, serviced and removed by a trained and qualified person. During pressure testing of the consumer piping, ensure gas valve is turned off before unit is shut off. Failure to do so may result in serious
injury to yourself or dama	ge to the unit.

With all gas appliances in operation at maximum gas rate, the following inlet gas pressure at the incoming test point on the Rinnai water heater should read 4 in. wc - 10.5 in. wc on natural gas and 8 in. wc -13.0 in. wc on propane gas. If the pressure is lower, the gas supply is inadequate and the unit will not operate to specification. Check the gas meter regulator and pipework for correct operation/sizing and correct as required.

	Maximum	Gas Supp	ly Pressure	(FL) For	ced Low	(FH) Forced High						
Model #	Water	Min.	/Max.	NG	LPG	NG	LPG					
	Pressure	NG	LPG	inH2O(wc)	inH2O(wc)	inH2O(wc)	inH2O(wc)					
RE199e				0.62	1.02	2.52	4.31					
RE180e				0.62 1.02 2.52			4.31					
RE160e	150 PSI	4.0/10.5	8.0/13.0	0.64	0.99	2.71	4.23					
RE140e				0.64	0.99	2.71	4.23					

ELECTRICAL DIAGNOSTICS

NOTE: Wiring diagram is available in manual and on the inside front cover.

There are a number of (live) tests required when performing electrical diagnostics on this product. Proceed with caution at all times to avoid contact with energized components inside the water heater. Only trained and qualified service technicians should attempt to repair this product. Before checking for resistance readings, disconnect the power source to the unit and isolate the item from the circuit (unplug it).

This unit has freeze protection heaters mounted at different points to protect the water heater from freezing. All of them should display a positive resistance reading.

Flame Rod

Place one lead of your meter to the flame rod and the others to ground. When the unit is attempting to ignite, you should read more than 0.5VAC.

This unit has two glass fuses located on the PC Board, one inline (10) amp and one (4) amp glass fuse. Remove the fuses and check continuity through it. If you have continuity through each fuse then it is functioning. Otherwise the fuse is blown and must be replaced. Note: RE140i/e does not

Check all thermistors by inserting meter leads into each end of the thermistor plug. Set your meter to the 20 K scale and read resistance. Applying heat to the thermistor bulb should decrease the resistance. Applying ice to the thermistor bulb should increase the resistance. Below are examples of typical temperatures and resistance readings.

Temperature	Resistance Readings
59°F	11.4 - 14ΚΩ
86°F	6.4 - 7.8ΚΩ
113°F	3.6 - 4.5ΚΩ
140°F	2.2 - 2.7ΚΩ
221°F	0.6 - 0.8ΚΩ

Electrical Circuit Table

COMPONENT	WIRE COLOUR	VOLTAGE	DECISTANCE	PCB			
CONFONENT	WINE COLUUK	VULTAGE	RESISTANCE	Connector	PIN		
Power Supply	Black-White	AC108∼132V	N/A	CN100	1-3		
Flame Rod	Yellow-Body	more than 0.5VAC	N/A	CN9	37		
гате коа	Pink-Body	more than 0.5VAC	N/A	CN7	1		
Spark Electrode	White-Black	11~14VDC*	N/A	CN9	5-8		
	Red-Black	7∼48VDC*	N/A	CN9	1-3		
Combustion Fan	White-Black	2~14VDC*	N/A	CN9	2-3		
	Yellow-Black	11~14VDC	N/A	CN9	4-3		
	Red-Pink			CN9	21-19		
	Blue-White	N/A	40∼60Ω	CN9	25-23		
Water Flow Con-	Orange-Grey	11~14VDC	N/A	CN9	6-13		
trol Device	Brown-Grey	limitter On: less than 1VDC limitter Off: $4{\sim}6$ VDC	N/A	CN9	17-13		
By-Pass Flow	Red-Pink			CN9	29-27		
Control Device (2737, 2432 model only)	Blue-White	N/A	40~60Ω	CN9	33-31		
Main Solenoid Valve	Black-Black	8∼13.5VDC	15∼25Ω	CN9	18-32		
Modulating Solenoid Valve	Yellow-Yellow	2∼17VDC*	10∼20Ω	CN9	12-14		
Solenoid Valve 1	Blue-Black	8∼13.5VDC	20∼30Ω	CN9	24-22		
Solenoid Valve 2	Yellow-Black	8∼13.5VDC	20∼30Ω	CN9	26-22		
Solenoid Valve 3	Red-Black	8∼13.5VDC	20~30Ω	CN9	28-22		
Solenoid Valve 4 (2737, 2432, 2730 model only)	Orange-Black	8∼13.5VDC	20~30Ω	CN9	30-22		
Outgoing Water	White-White			CN7	11-13		
Thermistor	White-White		59°F: 11.4-14kΩ 86°F: 6.4-7.8kΩ	CN7	4-5		
Inlet Thermistor	White-White		113°F: 3.6-4.5kΩ 140°F: 2.2-2.7kΩ	CN7	9-6		
Heat Exchanger Thermistor	White-White	N/A	221°F: $0.6-0.8k\Omega$ Disconnect the con-	CN7	8-4		
Intake Thermistor (Indoor type only)	White-White	,	nector and measure at thermistor side.	CN7	12-6		
Freeze Protection Thermistor (Outdoor type only)	White-White		32°F: 38k-43k 50°F: 22k-26k	CN7	10-6		
Overheat Switch	Black-Black	less than 1VDC	less than 1Ω	CN9	10-16		
	Red-Black	11~14VDC		CN9	7-11		
Water Flow Sensor	Yellow-Black	4~7VDC* Comment: more than 6Hz (1.0L/min)	N/A	CN9	9-11		
Integrated Pump (Integrated Pump	White-Black	AC108∼132V	N/A	C101	1-2		
type only)	Red-Brown	11~14VDC*	N/A	CN8	1-2		
External Pump (Except for integrated pump and 1720 model)	White-Black	AC108∼132V*	N/A	C101	1-2		
Additional Controller(s)	White-White	11∼14VDC	N/A	CN4	1-3		
Thermal Fuse	White-White	less than 1VDC	less than 1Ω	CN9	20-34		

(* Value to be measured while unit is in operation)

DIAGNOSTIC CODES

To Display Diagnostic Codes:

- 1. Turn off the water heater by pressing the "On/Off" button.
- 2. Press and hold the "On/Off" for 2 seconds and then the ▲(Up) button simultaneously.
- 3. The last 9 maintenance codes display and flash one after the other.
- 4. To exit diagnostic codes and return the water heater to normal operation, press and hold the "On/Off" button for 2 seconds and then
- the \triangle (Up) button simultaneously.

5. Turn on the water heater by pressing the "On/Off" button. Inlet Water Temperature Thermistor

Air Supply or Exhaust Blockage

- 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 matches with the vent lengths set in the parameter settings.
- Verify High Altitude setting is set properly. (See Parameter Setting) Check fan for blockage.

No Ignition (Heater Not Turning On)

- Check that the gas is turned on at the water heater, meter, or propane cylinder.
- If the system is propane, make sure that gas is in the tank. Bleed all air from the gas line
- Ensure appliance is properly grounded
- Ensure gas type and pressure is correct. Ensure gas line, meter, and/or regulator is sized properly.
- Verify parameter setting are set properly
- Ensure igniter is operational.
- Check igniter wiring harness for damage.
- Check gas solenoid valves for open circuits.
- Ensure flame rod wire is connected. • Check flame rod for carbon build-up.
- Remove burner cover and ensure burners are properly seated.
- Remove burner plate; inspect burner surface for condensation/debris. Check the ground wire for the PC board.

No Flame

- Check that the gas is turned on at the water heater, meter, or cylinder.
- Check for obstructions in the flue outlet.
- If the system is propane, make sure that gas is in the tank. 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 parameter setting are set properly.
- 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 reconnect all wiring harnesses on unit and PC board. Check gas solenoid valves for open circuits.
 Remove burner plate; inspect burner surface for condensation/debris.
- Check for restrictions in air flow around unit and vent terminal.
- Check gas type of unit and ensure it matches gas type being used.
- Check for low water flow in a circulating system causing short-cycling.
- Check for foreign materials in combustion chamber and exhaust piping. • Check heat exchanger for cracks or separations. Check heat exchanger surface for hot spots which may be caused by scale build-up
- Refer to instructions in manual for flushing heat exchanger. Hard water must be treated to prevent scale build up or damage to the heat exchanger. Measure resistance of safety circuit.
- Ensure high fire and low fire manifold pressure is correct.
- Check for improper gas conversion of product.
- High Outgoing Temperature
- 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 exhaust piping. • Check for blockage in the heat exchanger.
- Check the thermistor sensor and clean sensor of scale build-up.

Electrical Grounding Check all components for electrical short.

- Outgoing Water Temperature Thermistor
- Check sensor wiring for damage. Measure resistance of sensor. (See Electrical Diagnostics)
- Clean sensor of scale build-up. Replace sensor if necessary.
- Heat Exchanger Thermistor
- Check sensor wiring for damage. • Measure resistance of sensor. (See Electrical Diagnostics)
- Replace sensor if necessary.
- Combustion Air Temperature Thermistor Fault
- Check for restrictions in air flow around unit and vent terminal.
- Measure resistance of sensor.
- Ensure fan blade is tight on motor shaft and is in good condition. Replace sensor if necessary.

4 Freeze Protection Thermistor

- Check sensor wiring for damage. • Measure resistance of sensor. (See Electrical Diagnostics)
- Replace sensor if necessary.

*See "Electrical Diagnostics"

• Check sensor wiring for damage.

Visit www.rinnai-lms.com for additional troubleshooting resources

Measure resistance of sensor. (See Electrical Diagnostics) • Replace sensor if necessary.

Modulating Solenoid Valve Signal

• Check modulating gas solenoid valve wiring harness for loose or damaged terminals.

Measure resistance of valve coil.

Combustion Fan

Ensure fan will turn freely. • Check wiring harness to motor for damaged and/or loose connections.

- Measure resistance of motor winding.
- Recirculation Low Flow
- Ensure the inlet water filter is clean and free of debris.
- Ensure parameter setting are correctly set for recirculation mode. Ensure pump supply voltage. Check the wiring harness to the pump and PCB for damaged and/or loose
- connections.

 Ensure air is removed from the recirculation line.

65 Water Flow Servo

- Measure the resistance values and voltage of the water flow control.* • Ensure the harness and connector are not wet.
- If the voltage from the PC Board is abnormal, replace the PC Board; otherwise, replace the water flow servo valve. Bypass Flow Servo
- Measure the resistance values and voltage of the bypass servo valve.* Ensure the harness and connector are not wet.
- If the voltage from the PC Board is abnormal, replace the PC Board; otherwise, eplace the bypass servo valve
- PC Board
- Check the connection harness at the connection on the PC board. Replace PC board.
- Solenoid Valve Circuit
- Ensure dip switch on PC board is in the OFF position
- Check gas solenoid valves for short circuits or grounding. • Ensure heater circuit is not grounded.

Replace PC Board. 72 Flame Sensing Device

- Verify flame rod is touching flame when unit fires.
- Check the flame rod and wire for damage.
- Remove flame rod; check for carbon build-up; clean with sand paper. • Check inside burner chamber for any foreign material blocking flame at flame rod.
- Check the resistance to the cabinet. • If there is no issue with the flame rod or wiring, replace the PC Board.

Water Leak Detected

• Turn off water supply and contact licensed professional. Scale Build-up in Heat Exchanger (when checking maintenance code history, "00" is substituted for "LC"

• LC indicates that there is scale build up in the heat exchanger and that the heat

exchanger needs to be flushed to prevent damage. Refer to the flushing instructions in the manual. Hard water must be treated to prevent scale build up or damage to the heat exchanger.

After flushing, reset LC code as instructed. Please call Rinnai technical department.

- (SS) Service Soon (Flush Heat Exchanger) • 55 is a time-based service indicator set during installation. See section "4.10"
- Configure Parameter Settings" for additional details on setting and changing the 55 indicator.

 55 indicates that it is time for service. The heat exchanger should be flushed to
- prevent damage (refer to section "6.2 Flushing the Heat Exchanger" for more information). Hard water must be treated to prevent scale build-up or damage to the heat exchanger.

 To reset the 55 code, push the On/Off button on the temperature controller 5 times

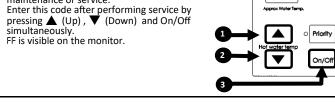
NO CODE - Nothing happens when water flow is activated

- Clean inlet water supply filter. • On new installations ensure hot and cold water lines are not reversed.
- Verify you have at least the minimum flow rate required to fire unit. • Check for cold to hot cross over. Isolate circulating system if present. Turn off cold water to the unit, open pressure relief valve; if water continues to flow, there is
- bleed over in your plumbing. Verify turbine spins freely.
- Measure the resistance of the water flow control sensor. If the display is blank and clicking is coming from the unit, disconnect the water flow servo motor (GY, BR, O, W, P, BL, R). If the display comes on then replace the water flow servo motor

FF Maintenance Indicator

Placeholder in Diagnostic code history indicating that a service provider performed maintenance or service.

pressing ▲ (Up), ▼ (Down) and On/Off FF is visible on the monitor.



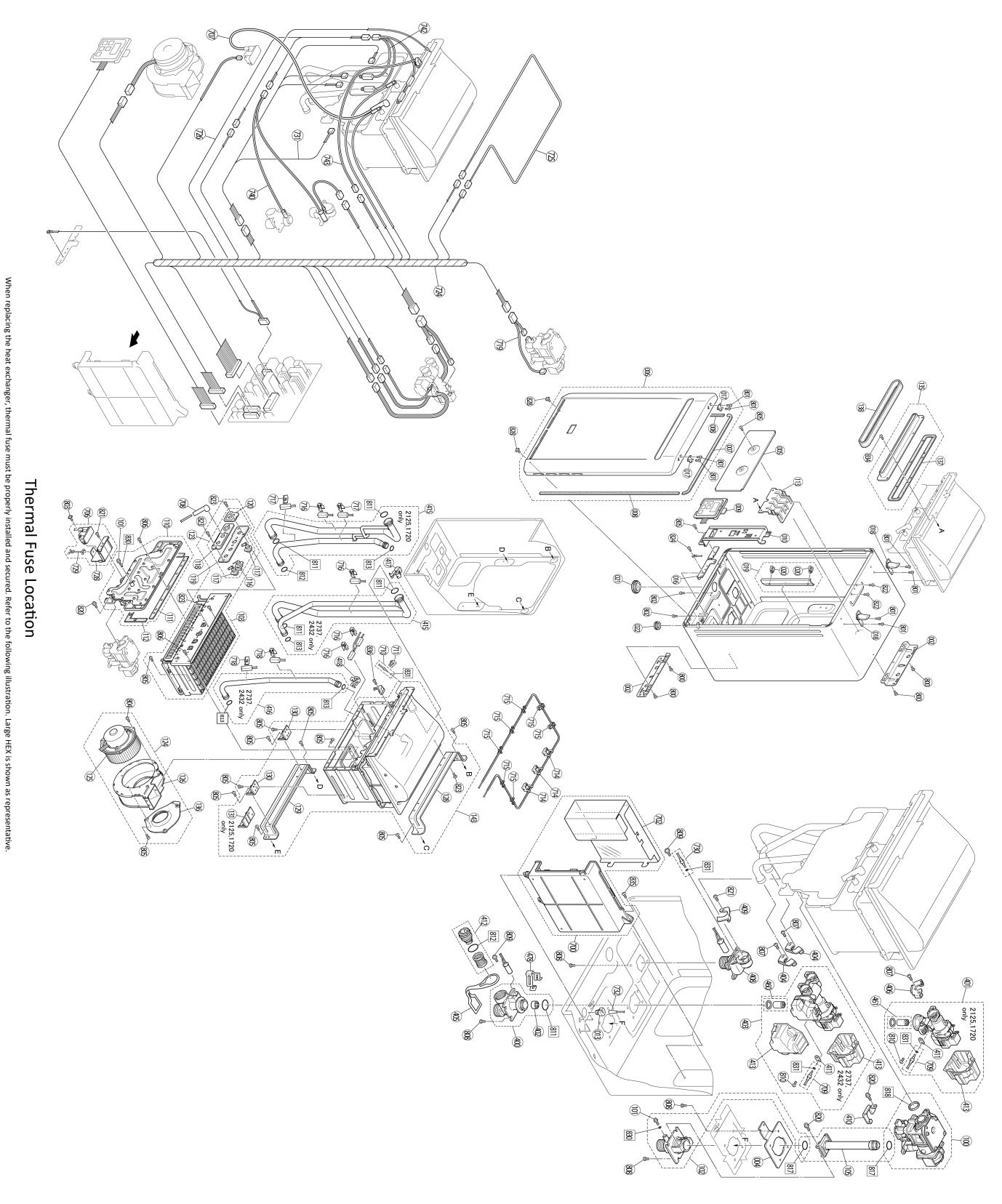
°F/°C ○ In Use

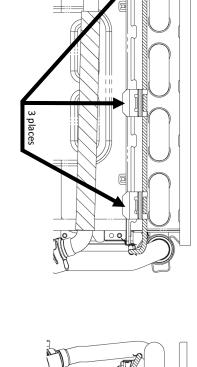
100000735

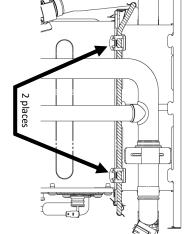
FF

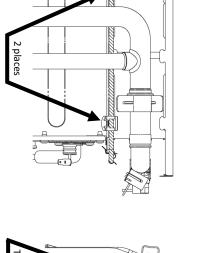
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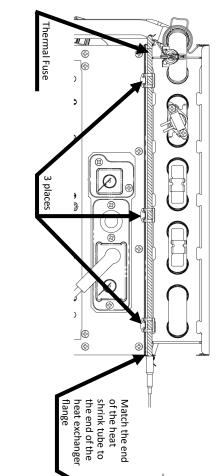
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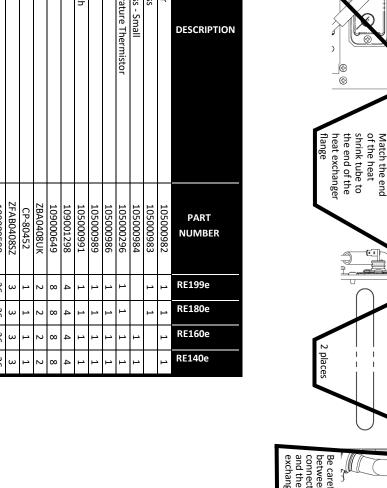












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137	136	135	135	131	130	129	128	126	125	124	123	120	ETT.	118	11/	117	116	112	112	111	111	110	110	110	110	105	103	103	102	101	100	022	020	020	019	010	017	016	013	010		00/	006	005	004	002	ITEM
Seal Packing	Bellmouth	Flue Outlet - Small	Flue Outlet	Combustion Chamber Bracket - Small	Combustion Chamber Bracket	Combustion Chamber - Body Bracket	Exhaust Duct Bracket	Fan Casing	Fan Motor	Fan Motor Assembly	Electrode Bracket Assembly	Electrode Bracket - Left	Electrode Packing	Electrode Bracket - Kight	Flame Rod	Flama Bod	lop side Reinforcement	Manifold Lower Packing - Small	Manifold Lower Packing	Manifold Upper Packing - Small	Manifold Upper Packing	Manifold Assembly - NG	Manifold Assembly - LPG	Manifold Assembly - NG	Manifold Assembly - LPG	Gas Pipe	Burner Unit Assembly - Small	Burner Unit Assembly	3/4 Gas Inlet	Test Port Set Screw	Gas Control Assembly	Rubber Stop	Righber Stop	Clamp	Clamp Fixing Plate	Latch Hook	Eat the Flack	Earth Blato	Thermistor Packing	Temperature Control Blate	Front Pariel Lower Packing	Front Panel Upper Packing	Front Panel	Heat Protection Plate	Reinforcement Plate	Wall Bracket	DESCRIPTION
109001280	109001278	102000069	102000068	109001272	109001271	109001270	109001269	108000128	105000992	105000955	109001268	109001267	109001266	109001265	105000954	10500053	10500053	106000259	106000258	106000257	106000256	106000255	106000254	106000253	106000252	106000251	106000250	106000249	106000119	C10D-5	106000248	109001262	1090001201	100001260	109001259	100001250	109001257	109000450	109001233	100000000	105000053	109001252	109001251	109001249	109001248	109000281	PART NUMBER
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729 Cable Clip	+-	726 Power Supply Harness - 2	Fuse Harness - 2	+	-	724 Sensor Harness - 2	719 Gas Control Harness	+-	+-	Heater Clip	715 Fuse Holder	+	+	_	_	_	708 Flectrode Sleeve	+	+-	_	+	700 PC Board - Large	478 Clip	461 Water Flow Turbine	460 Water Flow Turbine	418 Clip	417 Clip	416 Cold Water Pipe Assembly	415 Hot and Cold Water Pipe Assembly	415 Hot Water Pipe Assembly	_	-	411 Bracket	-	409 Ston Bracket	+	405 Plug Band	+	_	+	+	_	_	Heat Exchanger Assembly	138 Front Panel Seal Packing	137 Seal Packing - Small	DESCRIPTION
109001297			105000977	-	105000971		105000966		_	ĭ	109000786						A11206-218				105000960		109000636	107000088	107000621	109000244	1090001288		107000617	107000616				_	109001286		_			_	-				109001282	109001281	PART NUMBER
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												Tech Sheet	Manual	Screw	Screw	Screw	O-ring Scrow	O-ring	Screw	Screw	Screw	Screw	Screw	Screw	Packing	O-ring	O-ring	O-ring	O-ring	Screw	Screw	Screw	Screw	Screw	Screw	Crew Crew	Screw	SCI EW	Screw	Coroni Cycl Heat Switch	Dear Post Switch	Heater	Outside Temperature Thermistor	Solenoid Harness - Small	Solenoid Harness	Twin Thermistor	DESCRIPTION
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