WARNING:
If the information in these instructions are not followed exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

FOR YOUR SAFETY
Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

Installation and service must be performed by a qualified installer, service agency or the gas supplier.

MODELS: E63-NG1 Natural Gas E63-LP1 Propane

FOR YOUR SAFETY
What to do if you smell gas:
- Do not try to light any appliance
- Do not touch any electrical switch: do not use any phone in your building.
- Immediately call your gas supplier from a neighbour’s phone. Follow the gas supplier’s instructions.
- If you cannot reach your gas supplier, call the fire department.

Installer: Please complete the details on the back cover and leave this manual with the homeowner.
Homeowner: Please keep these instructions for future reference.
To the New Owner:

Congratulations! You are the owner of a state-of-the-art EMERALD Gas Stove by Waterford Irish Stoves. The Waterford Gas Series of hand crafted appliances has been designed to provide you with all the warmth and charm of a woodstove, at the flick of a switch. The models E63-NG1 and E63-LP1 of this series has been approved by Warnock Hersey for both safety and efficiency. As it also bears our own mark, it promises to provide you with economy, comfort and security for many trouble free years to follow. Please take a moment now to acquaint yourself with these instructions and the many features of your Waterford Gas Stove.

Minor imperfections such as blisters, seeds or thin flaws visible in this product are not defects. These are inherent in the hand-crafted enamel process and cannot be avoided, and they substantiate that this is genuine porcelain enamel.
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This is a copy of the label that accompanies each EMERALD Freestanding Gas Stove. We have printed a copy of the contents here for your review. The safety label is located on the inside of the drop down pedestal door.

NOTE: Waterford units are constantly being improved. Check the label on the unit and if there is a difference, the label on the unit is the correct one.

### Copy of the Safety Label for the E63-NG1 Natural Gas

#### FACTORY EQUIPPED FOR NATURAL GAS  
**Model: E63NG1**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum supply pressure</td>
<td>5” WC/C.E. (1.25 kPa)</td>
</tr>
<tr>
<td>Manifold pressure High</td>
<td>3.8” WC/C.E. (0.94 kPa)</td>
</tr>
<tr>
<td>Manifold pressure Low</td>
<td>1.1” WC/C.E. (0.27 kPa)</td>
</tr>
</tbody>
</table>

#### Factory Equipped for Altitude 0-2000 ft.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Input</td>
<td>38,000 Btu/h (11.14 Kw/h)</td>
</tr>
<tr>
<td>Minimum Input</td>
<td>19,000 Btu/h (5.57 Kw/h)</td>
</tr>
<tr>
<td>Orifice size</td>
<td>#32 DMS (2.9mm)</td>
</tr>
<tr>
<td>Output -fan OFF</td>
<td>27740 Btu/h (8.13 Kw)</td>
</tr>
<tr>
<td>Output -fan ON</td>
<td>28690 Btu/h (8.41 Kw)</td>
</tr>
<tr>
<td>Altitude</td>
<td>0-2000 ft/pi (0-610m)</td>
</tr>
</tbody>
</table>

#### Convertible for Altitude 2000-4500 ft.

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Input</td>
<td>34,000 Btu/h (9.96 Kw/h)</td>
</tr>
<tr>
<td>Minimum Input</td>
<td>17,000 Btu/h (4.98 Kw/h)</td>
</tr>
<tr>
<td>Orifice size</td>
<td>#33 DMS (2.87mm)</td>
</tr>
<tr>
<td>Output -fan OFF</td>
<td>24820 Btu/h (7.28 Kw)</td>
</tr>
<tr>
<td>Output -fan ON</td>
<td>25670 Btu/h (7.52 Kw)</td>
</tr>
<tr>
<td>Altitude</td>
<td>2000-4500 ft/pi (0-1372m)</td>
</tr>
</tbody>
</table>

#### Convertible to 27,000 Btu for Altitude 0 - 4500 ft. with Kit #: 260-920

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Input</td>
<td>27,000 Btu/h (7.91 Kw/h)</td>
</tr>
<tr>
<td>Minimum Input</td>
<td>13,500 Btu/h (3.95 Kw/h)</td>
</tr>
<tr>
<td>Orifice size</td>
<td>#40 DMS (2.49mm)</td>
</tr>
<tr>
<td>Output -fan OFF</td>
<td>19,575 Btu/h (5.74 Kw)</td>
</tr>
<tr>
<td>Output -fan ON</td>
<td>20,331 Btu/h (5.96 Kw)</td>
</tr>
<tr>
<td>Altitude</td>
<td>0-4500 ft/pi (0-1372m)</td>
</tr>
</tbody>
</table>

### GAS FIRED ROOM HEATER

This appliance must be installed in accordance with local codes, if any; if not, follow the current ANSI Z223.1 in the USA or the current CAN/CGA-B149 in Canada. Electrical supply 115V/AC, 1.13 A, 60Hz. Not for use with solid fuel.

### Minimum Clearances to Combustibles/Degagement Minimum De Materiaux Combustibles

- **A** 6”/150mm
- **B** 10”/255mm
- **C** 5”/125mm
- **D** 2”/50mm
- **E** 2”/50mm

See Manual for details.
Copy of the Safety Label for the E63-LP1 Propane

<table>
<thead>
<tr>
<th>FACTORY EQUIPPED FOR PROPANE GAS</th>
<th>ÉQUIPÉ À L'USINE POUR GAZ PROPANE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum supply pressure</td>
<td>12&quot; WC/C.E. (3.00 kPa)</td>
</tr>
<tr>
<td>Manifold pressure High</td>
<td>11&quot; WC/C.E. (2.74 kPa)</td>
</tr>
<tr>
<td>Manifold pressure Low</td>
<td>2.9&quot; WC/C.E. (0.72 kPa)</td>
</tr>
<tr>
<td>Factory Equipped for 38,000 Btu</td>
<td></td>
</tr>
<tr>
<td>Maximum Input</td>
<td>38,000 Btu/h (11.14 Kw/h)</td>
</tr>
<tr>
<td>Minimum Input</td>
<td>19,000 Btu/h (5.57 Kw/h)</td>
</tr>
<tr>
<td>Orifice size</td>
<td>#50 DMS (1.8mm)</td>
</tr>
<tr>
<td>Output - fan OFF</td>
<td>28,500 Btu/h (8.35 Kw/h)</td>
</tr>
<tr>
<td>Output - fan ON</td>
<td>29,374 Btu/h (8.61 Kw/h)</td>
</tr>
<tr>
<td>Altitude</td>
<td>0-2000 ft/pi (0-610m)</td>
</tr>
<tr>
<td>Convertible to 29,000 Btu for altitude 0 - 4500 ft.</td>
<td>with Kit #: 260-922</td>
</tr>
<tr>
<td>Maximum Input</td>
<td>29,000 Btu/h (8.5 Kw/h)</td>
</tr>
<tr>
<td>Minimum Input</td>
<td>14,500 Btu/h (4.25 Kw/h)</td>
</tr>
<tr>
<td>Orifice size</td>
<td>#52 DMS (1.61mm)</td>
</tr>
<tr>
<td>Output - fan OFF</td>
<td>21,518 Btu/h (6.31 Kw/h)</td>
</tr>
<tr>
<td>Output - fan ON</td>
<td>22,330 Btu/h (6.54 Kw/h)</td>
</tr>
<tr>
<td>Altitude</td>
<td>0-4500 ft/pi (0-1372m)</td>
</tr>
</tbody>
</table>

GAS FIRED ROOM HEATER
This appliance must be installed in accordance with local codes, if any; if not, follow the current ANSI Z223.1 in the USA or the current CAN/CGA-B149 in Canada. Electrical supply 115VAC, 1.13 A, 60Hz. Not for use with solid fuel.

Minimum Clearances to Combustibles/Degagement

Minimum ceiling height from top of unit: 18"/460mm
Minimum plafond hauteur en haut de l'appareil: 18"/460mm

- A 6"/150mm
- B 10"/255mm
- C 5"/125mm
- D 2"/50mm
- E 2"/50mm

For the State of Massachusetts, installation and repair must be done by a plumber or gasfitter licensed in the Commonwealth of Massachusetts.

For the State of Massachusetts, flexible connectors shall not exceed 36 inches in length.

For the State of Massachusetts, the appliances individual manual shut-off must be a t-handle type valve.
BEFORE YOU START

Safe installation and operation of this appliance requires common sense, however, we are required by the Canadian Safety Standards and ANSI Standards to make you aware of the following:

INSTALLATION AND REPAIR SHOULD BE DONE BY A QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND AT LEAST ANNUALLY BY A PROFESSIONAL SERVICE PERSON. MORE FREQUENT CLEANING MAY BE REQUIRED DUE TO EXCESSIVE LINT FROM CARPETING, BEDDING MATERIAL, ETC. IT IS IMPERATIVE THAT CONTROL COMPARTMENTS, BURNERS AND CIRCULATING AIR PASSAGeways OF THE APPLIANCE BE KEPT CLEAN.

DUE TO HIGH TEMPERATURES, THE APPLIANCE SHOULD BE LOCATED OUT OF TRAFFIC AND AWAY FROM FURNITURE AND DRAPERIES.

WARNING: FAILURE TO INSTALL THIS APPLIANCE CORRECTLY MAY CAUSE A SERIOUS HOUSE FIRE AND WILL VOID YOUR WARRANTY.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES, ESPECIALLY THE FIREPLACE GLASS, AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION.

YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.

CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.

IMPORTANT: SAVE THESE INSTRUCTIONS

The EMERALD Freestanding Gas Stove must be installed in accordance with these instructions. Carefully read all the instructions in this manual first. Consult the "authority having jurisdiction" to determine the need for a permit prior to starting the installation.

GENERAL SAFETY INFORMATION

1) The appliance installation must conform with local codes or, in the absence of local codes, with the current Canadian or National Gas Codes, CAN1-B149 or ANSI-223.1 Installation Codes.

2) The appliance when installed, must be electrically grounded in accordance with local codes, or in the absence of local codes with the current National Electrical Code, ANSI/NFPA 70 or CSA C22.1 Canadian Electrical Code.

3) This appliance is Listed for bedroom installations when used with a Listed Millivolt Thermostat. Some areas may have further requirements, check local codes before installation.

4) This appliance is Listed for Alcove installations, maintain minimum Alcove clearances as follows, minimum ceiling height of 47", minimum width of 41" and a maximum depth of 24".

5) This unit is not approved for installation into a mobile home.

6) See general construction and assembly instructions.

7) This appliance must be connected to a vent and terminate to the outside of the building envelope. Never vent to another room or inside a building.

8) Inspect the venting system annually for blockage and any signs of deterioration.

9) Any safety glass removed for servicing must be replaced prior to operating the appliance.

10) To prevent injury, do not allow anyone who is unfamiliar with the operation to use the fireplace.

11) Wear gloves and safety glasses for protection while doing required maintenance.

12) Under no circumstances should this appliance be modified. Parts that have to be removed for servicing should be replaced prior to operating this appliance.

13) Installation and any repairs to this appliance should be done by a qualified service person. A professional service person should be called to inspect this appliance annually. Make it a practice to have all of your gas appliances checked annually.

14) Do not strike the glass door.

15) Under no circumstances should any solid fuels (wood, paper, cardboard, coal, etc.) be used in this appliance.

16) The appliance area must be kept clear and free of combustible materials, (gases and other flammable vapours and liquids).

17) This unit can be installed on a solid combustible surface like a wood floor as well as on carpeting.

18) Do not connect this gas appliance to chimney flue serving a separate solid-fuel burning appliance.

19) WARNING: Operation of this appliance when not connected to a properly installed and maintained venting system or tampering with the blocked vent shutoff system can result in carbon monoxide (CO) poisoning and possible death.

20) This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air.

INSTALLATION CHECKLIST

1) Check Clearances to Combustibles, page 7.

2) Install Optional Fan, page 7.

3) Install venting, page 8.

4) Make gas connections, page 9. Test the pilot. Must be as per diagram, page 17. If converting to Propane (see page 10, or if converting to lower Btu Rating (see page 11).


6) Install log set where indicated on page 12.

7) Test for flue spillage (draft test), page 13.
8) Install optional Remote Control, or Wall Thermostat, page 13.

9) Final check, page 14.

Before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly and operation fully explained to customer.

This includes:
1) Clocking the appliance to ensure the correct firing rate (rate noted on label) after burning appliance for 15 minutes.

2) If required, adjusting the primary air to ensure that the flame does not carbon. First allow the unit to burn for 15-20 min. to stabilize.

CAUTION: Any alteration to the product that causes sooting or carboning or that results in damage is not the responsibility of the manufacturer.

CLEARANCES TO COMBUSTIBLES

The clearances listed below are MINIMUM distances. Measure the clearance to both the appliance and the chimney connector. (The farthest distance is correct if the two clearances do not coincide.) For example, if the appliance is as indicated in one of the figures but the connector is too close, move the stove until the correct clearance to the connector is obtained.

This appliance may be installed only with the clearances as shown in the situations pictured. Do not combine clearances from one type of installation with another in order to achieve closer clearances.

Use the minimum clearances shown in the diagrams below for installation with “B” vent.

E63-NG1 & E63-LP1 Clearances

A Left Side Wall to Unit 6" / 150 mm
B Right Side Wall to Unit 10" / 255 mm
C Back Wall to Unit 5" / 125 mm
D Vertical Vent Pipe to Back Wall 2" / 50 mm
E Unit Corner to Wall 2" / 50 mm
Mantel 18" / 460 mm
Unit to Alcove Ceiling 18" / 460 mm
Max. Alcove Depth 24" / 610 mm

Minimum ceiling height is 18" / 460 mm from top of unit.

If further reduced clearances are needed, obtain requirements for construction of a protected wall from your local building authorities and their allowable reductions of the listed clearances.

OPTIONAL FAN INSTALLATION

Fan Kit Contains:

- Fan Speed Controller with nut, and knob.
- Fan Assembly c/w green wire attached
- power cord
- Plastic locking grommet

1) Remove the Top Control Panel Assembly by removing the three screws. Diagram 1.

2) Remove the nylon hole plug from the control panel.

3) Install the fan speed controller onto the control panel and secure with nut. Connect remaining wire harness wires to speed control. NOTE: Speed control wires must be in the down position when control panel is in place.

4) Push black knob onto speed control.

5) Remove the rear access panel on the back of the stove. Remove the 3 top screws, but only loosen the 3 bottom screws - the panel can then be lifted off. Install the fan onto pins as per diagram 2.

6) Push power cord through hole in the rear panel 14" - 16" and tie a loose knot in the cord on the inside to prevent the power cord from being pulled out. Diagram 2.

7) Install locking grommet to power cord and push through hole in the rear panel and give a 1/4 turn to secure.

NOTE: When running wires, keep them clear of valve assembly and tubing to avoid tangling of wires and valve.

NOTE: Be careful not to cut wires when passing through holes in the firebox.

8) Run green ground wire from fan and connect to grounding lug.

Diagram 1

Diagram 2

Hint for pushing fan down onto pins - rub a bit of dish soap on the pins so the grommets will slide down more easily. Check to make sure the fan is seated properly on the pins - try to move the fan back and forth.
DRAFT HOOD

This heater has a draft hood built in. It must not be altered, obstructed, or blocked in any way, and the unit must be installed so that the draft hood is in the same atmospheric pressure zone as the combustion air inlet to the burner. This heater must be properly connected to a venting system. This heater is equipped with a vent safety shutoff system.

WARNING: Operation of this heater when not connected to a properly installed and maintained venting system or tampering with the vent safety shutoff system can result in carbon monoxide (CO) poisoning and possible death.

HIGH ELEVATION

The E63-1 (with 38,000 Btu) is approved in Canada for altitude 2000 ft. to 4500 ft. (CAN/CGA-2.17-M91) with the orifice kit (Part # 591-975). For Natural Gas installations above 4500 ft. follow current CAN/CGA-B149.1. In U.S.A., for installations above 2000 ft. refer to current ANSI Z223.1 Sc8-8.1.2a appendix F, for resizing orifice.

VENTING

This heater is a vented appliance and must be connected to a chimney/flue in accordance with the installation codes.

Vent Terminations

Follow all venting manufacturer’s requirements and local building codes. In cold climates, we recommend the use of insulated B-vent, chase, and liners. For altitudes above 2000 ft. we recommend that a minimum flue height of 12 ft. is used.

Installation into Existing Woodstove Flue System

1) Clean existing Chimney system.
2) Run an approved 4” flex liner or “B” vent into existing chimney.

Note: See the chimney systems manufacturer for detailed installation instructions.
GAS CONNECTION

The gas line can be rigid pipe, or to make installation easier, use a listed flexible connector if allowed by local codes. Copper may also be used if approved by local codes.

The gas connection at the valve is 3/8” NPT. For minimum and maximum supply pressure see the System Data Table.

<table>
<thead>
<tr>
<th>System Data - E63-1 (with 38,000 Btu)</th>
</tr>
</thead>
<tbody>
<tr>
<td>For 0 to 2000 feet altitude</td>
</tr>
<tr>
<td>Burner Inlet Orifice Sizes:</td>
</tr>
<tr>
<td>Natural Gas</td>
</tr>
<tr>
<td>Propane</td>
</tr>
<tr>
<td>Burner</td>
</tr>
<tr>
<td>#32</td>
</tr>
<tr>
<td>#50</td>
</tr>
</tbody>
</table>

**Max. Input Rating**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>38,000 Btu/h</td>
<td>38,000 Btu/h</td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Min. Input Rating**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>19,000 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Output Capacity with blower Off**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>27,740 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Output Capacity with blower On**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>28,690 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Supply Pressure**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>min. 5.0” w.c.</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>min. 12.0” w.c.</td>
<td></td>
</tr>
</tbody>
</table>

**Manifold Pressure**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>3.8” +/- 0.2” w.c.</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td>11” +/- 0.2” w.c.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>System Data - HIGHELEVATION:E63-NG1</th>
</tr>
</thead>
<tbody>
<tr>
<td>For 2,000 - 4,500 feet altitude</td>
</tr>
<tr>
<td>Burner Inlet Orifice Sizes:</td>
</tr>
<tr>
<td>Natural Gas</td>
</tr>
<tr>
<td>Burner</td>
</tr>
<tr>
<td>#33</td>
</tr>
</tbody>
</table>

**Max. Input Rating**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>34,000 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Min. Input Rating**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>17,000 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Output Capacity with blower Off**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>24,820 Btu/h</td>
<td></td>
</tr>
<tr>
<td>Propane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Max. Output Capacity with blower On**

<table>
<thead>
<tr>
<th></th>
<th>Natural Gas</th>
<th>Propane</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>25,670 Btu/h</td>
<td></td>
</tr>
</tbody>
</table>

**AERATION ADJUSTMENT**

The burner aeration is factory set but may need adjusting due to either the local gas supply, air supply or altitude.

<table>
<thead>
<tr>
<th></th>
<th>with 38,000 Btu</th>
<th>with 27,000 (NG) / 29,000 (LP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Gas</td>
<td>3/8”(9.5mm)</td>
<td>Natural Gas</td>
</tr>
<tr>
<td>Propane</td>
<td>3/16”(4.75mm)</td>
<td>3/16”(4.75mm)</td>
</tr>
</tbody>
</table>

The aeration adjustment gears are located on the right side of the burner box and can be accessed from the side.

To adjust the aeration: use the allen key to turn the turning gear which will adjust the air shutter. Open the air shutter for a blue flame or close it for a yellower flame. This adjustment is performed by a qualified installer. The factory setting should be sufficient for most installations.

**GAS PIPE PRESSURE TESTING**

The appliance must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 psig (3.45 kPa). Disconnect piping from valve at pressures over 1/2 psig (14” w.c.).

The manifold pressure is controlled by a regulator built into the gas control, and should be checked at the pressure test point.

Note: To properly check gas pressure, both inlet and manifold pressures should be checked using the valve pressure ports on the valve.

1) Make sure the valve is in the "OFF" position.
2) Loosen the "IN" (# 7) and/or "OUT" (# 6) pressure tap(s), turning counterclockwise with a 1/8" wide flat screwdriver.

3) Attach manometer to "IN" and/or "OUT" pressure tap(s) using a 5/16" ID hose.

4) Light the pilot and turn the valve to "ON" position.

5) The pressure check should be carried out with the unit burning and the setting should be within the limits specified on the safety label.

6) When finished reading manometer, turn off the gas valve, disconnect the hose and tighten the screw (clockwise) with a 1/8" flat screwdriver. Screw should be snug, but do not over tighten.

### S.I.T. Valve Description

1) Gas cock knob
2) Manual high/low adjustment
3) Pilot Adjustment
4) Thermocouple Connection
5) Main Operator
6) Outlet Pressure Tap
7) Inlet Pressure Tap
8) Pilot Outlet
9) Main Gas Outlet
10) Flange Securing Screw Holes
11) Alternative TC Connection Point
12) Thermoelectric Unit
13) Additional Valve Mounting Hole

### Conversion Kit

**CONVERSION KIT FROM NATURAL GAS TO PROPANE**

**Model #261-969**

for Emerald Gas Stoves and Gas Inserts using SIT 820 NOVA Gas Valve

**THIS CONVERSION MUST BE DONE BY A QUALIFIED GAS FITTER IF IN DOUBT DO NOT DO THIS CONVERSION!!**

Conversion Kit Contains:

<table>
<thead>
<tr>
<th>Qty.</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>910-018</td>
<td>SIT Conversion Kit-50% Turndown LP</td>
</tr>
<tr>
<td>1</td>
<td>910-037</td>
<td>LP Injector (Pilot Orifice)</td>
</tr>
<tr>
<td>1</td>
<td>904-641</td>
<td>Burner Orifice #50</td>
</tr>
<tr>
<td>1</td>
<td>908-175</td>
<td>E63/E65 Decal &quot;Converted to Propane&quot;</td>
</tr>
<tr>
<td>1</td>
<td>908-528</td>
<td>Red &quot;PROPANE&quot; label</td>
</tr>
<tr>
<td>1</td>
<td>908-780</td>
<td>Instruction Sheet</td>
</tr>
</tbody>
</table>

1) Shut off the gas supply.

2) Open the valve door and remove the control panel.

3) Open the front door. Open the right side door and there is a cutout in the heat shield through which can be seen a wing nut threaded on to a stud attached to the front door. Loosen this nut by turning it counterclockwise.

4) Carefully remove the logs, embers and rockwool.

5) Remove burner. See diagram below.

**Note:** Use a magnetic type screwdriver if possible.

6) Remove and discard the 3 pressure regulator mounting screws (A), pressure regulator tower (B) and diaphragm (C).

7) Insure that the rubber gasket (D) is properly positioned and install the new HI/LO pressure regulator assembly to the valve using the new screws (E) supplied with the kit. Tighten screws securely.

8) Pull off the pilot cap to expose the pilot orifice.
12) Reverse steps 4) to 2).

13) Attach the Conversion label “This unit has been converted to Propane” on top of the Serial # decal. E63/E65: Part #175

14) Replace yellow “Natural Gas” label with red “Propane” label.

15) Check for gas leaks.

16) Check inlet and outlet pressures.

17) Check operation of flame control.

18) Check for proper flame appearance and glow on logs.

Reduction Kit to Lower Btu Rating for Emerald E65-1 Gas Stove
Natural Gas - Kit #: 260-920
Propane - Kit # 260-922

THIS CONVERSION MUST BE DONE BY A QUALIFIED GAS FITTER IF IN DOUBT DO NOT DO THIS CONVERSION !!

Natural Gas Conversion Kit 260-920
Contains:
Qty. Part # Description
1 904-593 Burner Orifice #40 (Natural Gas)
1 908-365 Decal “Converted to 27,000 Btu”
1 908-363 Instruction Sheet

Propane Conversion Kit 260-922
Contains:
Qty. Part # Description
1 904-390 Burner Orifice #52 (Propane)
1 908-365 Decal “Converted to 29,000 Btu”
1 908-363 Instruction Sheet

1) Shut off the gas supply.

2) Open the valve door and remove the control panel.

3) Open the front door. Open the right side door and there is a cutout in the heat shield through which can be seen a wing nut threaded on to a stud attached to the front door. Loosen this nut by turning it counterclockwise.

4) Carefully remove the logs, embers and rockwool.

5) Remove burner.

6) The wing nut that holds the front door is accessible through the cut-out in the right side heat shield.

7) Unscrew the pilot orifice with the allen key and replace with the LP pilot orifice in the kit.

8) Carefully remove the logs, embers and rockwool.

9) Reinstall new burner orifice LP stamped #50 and tighten.
6) Remove burner orifice with a 1/2” wrench and discard.

7) Reinstall new burner orifice (NG stamped #40 or LP stamped #52) and tighten.

8) Reverse steps 5) to 2).

9) Attach the label “This unit has been converted to...” on top of the Serial # decal over the higher Btu information.

10) Check for gas leaks.

11) Check inlet and outlet pressures.

12) Check operation of flame control. Check for proper flame appearance and glow on logs.

---

**LOG INSTALLATION**

**WARNING:** Dangerous operating conditions may occur if these logs are not positioned in their approved locations. Read the instructions below carefully and refer to the diagrams. If logs are broken do not use the unit until they are replaced. Broken logs can interfere with the pilot and burner operation.

- **a**) Front Right Log - Part # 902-020
- **b**) Front Left Log - Part # 902-021
- **c**) Rear log - Part # 902-022
- **d**) Embers - Part # 902-151 (1 bag)
- **e**) Lava - Part # 902-154 (1 bag)

*(Part # 560-935 for the set of three logs)*

1) Remove the logs from the box and carefully unwrap them. The logs are fragile, handle with care - **DO NOT FORCE** into position.

2) Place the rear log, carefully sliding it down onto the pins, with the flat side of the log facing the back of the unit. See diagram 1.

3) Place the left front log, carefully sliding it down onto the left pins of the front burner. See diagram 2.

4) Place the right front log, carefully sliding it down onto the right pins of the front burner. See diagram 3.

5) Distribute the embers along the front burner but do not cover the burner ports and around the logs. Place the embers on the floor of the firebox. Place the lava on the burner tray in front of the left and right front logs. See Diagram 4.

---

**OPTIONAL DOOR GRILL INSTALLATION**

Door Grill Kit Contains:

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Front Door Grill</td>
</tr>
<tr>
<td>4</td>
<td>Screws</td>
</tr>
<tr>
<td>4</td>
<td>Grill Clips</td>
</tr>
</tbody>
</table>

1) Open the front door. Open the right side door and there is a cutout in the heat shield through which can be seen a wing nut threaded on to a stud attached to the front door. Loosen this nut by turning it counterclockwise.

2) Remove the glass panel by loosening the 6 screws securing the glass brackets. Support the glass to prevent it from dropping out and breaking.
3) Attach the 4 grill clips with the 4 screws but do not tighten down at this point.

4) Place the grill into position on the front of the door, center it in the front viewing area and use the grill clips to hold it in place.

5) Tighten the screws on the grill clips.

6) Replace the glass and secure the glass clips, reversing step 2.

7) Close the front door by reversing step 1.

---

**OPTIONAL REMOTE CONTROL**

Use the Waterford Remote Control Kit approved for this unit. Use of other systems may void your warranty.

The remote control kit comes with a hand held transmitter, a receiver and a wall mounting plate.

1) Choose a convenient location on the wall to install the receiver and the receptacle box (protection from extreme heat is very important). Run wires from the fireplace to that location, use Thermostat Wire Table.

2) Connect the wires as per the wiring diagram on page 14.

---

**OPTIONAL WALL THERMOSTAT**

A wall thermostat may be installed if desired. Connect the wires as per the wiring diagrams. Note that the wires are connected to the "TH" on the gas valve. Use table below to determine the maximum wire length:

Note: Preferable if the thermostat is installed on an interior wall.

Waterford offers an optional programmable thermostat but any 250-750 millivolt rated non-anticipator type thermostat that is CSA, ULC or UL approved may be used.

---

**TEST FOR FLUE SPILLAGE**

A "spillage" test must be made before the installed unit is left with the customer. Follow the procedure below:

1) Start all exhaust fans in the home and any other gas appliances. Then close all doors and windows.

2) Light the unit and set controls to maximum.

3) After five minutes, test that there is a "pull" on the flue by placing a smoke match, cigarette or similar device which gives off smoke, on the edge of the draft hood. See diagrams.

The smoke should be drawn into the draft hood. If the smoke is not drawn into the draft hood, turn the unit off and check for the cause of lack of draft.

---

**Thermostat Wire Table**

<table>
<thead>
<tr>
<th>Wire Size</th>
<th>Max. Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 GA.</td>
<td>50 Ft.</td>
</tr>
<tr>
<td>16 GA.</td>
<td>32 Ft.</td>
</tr>
<tr>
<td>18 GA.</td>
<td>20 Ft.</td>
</tr>
<tr>
<td>20 GA.</td>
<td>12 Ft.</td>
</tr>
<tr>
<td>22 GA.</td>
<td>9 Ft.</td>
</tr>
</tbody>
</table>

Note: If the flue is blocked or has a strong reverse flow, the thermally activated safety switch mounted in the draft hood will automatically shut off the gas supply within about 10 minutes. If the heater turns off because of this during the spillage test, check for the
INSTALLATION

3) Install 3 AAA alkaline batteries in transmitter and 4 AA alkaline batteries in the receiver. Install the receiver and its cover in the wall. Switch the remote receiver to "remote" mode. The remote control is now ready for operation.

To thermopile

To wall switch, remote control or thermostat

FINAL CHECK

Before leaving this unit with the customer, the installer must ensure that the appliance is firing correctly. This includes:

1) Clocking the appliance to ensure the correct firing rate (rate noted on label) at 15 minutes.

2) If required, adjusting the primary air to ensure that the flame does not carbon. First allow the unit to burn for 15 minutes to stabilize.

3) Check for proper draft.

WIRING DIAGRAM

This heater does not require a 120V A.C. supply for operation. In case of a power failure, the burner switch and the optional remote control/thermostat will continue to operate. However, a 120V A.C. power supply is needed for the fan/blower operation.

CAUTION

Any alteration to the product that causes sooting or carboning that results in damage to the exterior facia is not the responsibility of the manufacturer.

This heater does not require a 120V A.C. supply for operation. In case of a power failure, the burner switch and the optional remote control/thermostat will continue to operate. However, a 120V A.C. power supply is needed for the fan/blower operation.

CAUTION

Any alteration to the product that causes sooting or carboning that results in damage to the exterior facia is not the responsibility of the manufacturer.

WARNING: Electrical Grounding Instructions

This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.
OPERATING INSTRUCTIONS

Before operating this appliance, proceed through the following check list.

1) Read and understand these Instructions before operating this appliance.

2) Check to see that all wiring is correct and enclosed to prevent possible shock.

3) Check to ensure there are no gas leaks.

4) Make sure the three pieces of door glass are properly positioned. Never operate the appliance with any of the glass removed or with the door open.

5) Verify that all venting and the cap is unobstructed.

6) Verify log placement. If the pilot cannot be seen when lighting the unit - the logs or the embers have been incorrectly positioned.

7) The unit should never to turned off and on without a minimum of a 60 second wait.

LIGHTING INSTRUCTIONS

IMPORTANT: The PILOT knob cannot be turned from pilot to off unless it is partially depressed.

Note: Open the pedestal door of the unit before lighting the pilot. Once the pilot is lit, close the door. You should never operate the unit with the door open.

1) If the PILOT knob is in the off position proceed to Step 4.

2) Push in PILOT knob slightly and turn clockwise to off. Knob cannot be turned from pilot to off unless knob is pushed in slightly. Do not force.

3) Wait five minutes to allow gas, that may have accumulated in the main burner compartment, to escape. If you smell gas, follow the instructions on the front of this manual. If you don't smell gas continue on to the next step.

4) Turn the PILOT knob counterclockwise to pilot and align it with the arrow.

5) Push in PILOT knob all the way in and hold. Immediately push IGNITOR button until pilot lights. Continue to hold the PILOT knob in for approximately one minute, then release the PILOT knob. The pilot flame should continue to burn. If the pilot does not remain lit, repeat operation allowing a longer period before releasing PILOT knob.

6) Turn PILOT knob counter clockwise to on.

7) Use the Burner ON/OFF switch to turn on the burner.

8) Rotate the HEAT control to adjust the flame height higher or lower.

DO NOT BURN THE APPLIANCE WITHOUT THE GLASS FRONT IN PLACE.

AUTOMATIC CONVECTION FAN OPERATION

The fan operates automatically - turn the knob at the top right rear corner to adjust to the desired speed. The fan will turn on as the stove comes up to operating temperature. After the unit has been turned off and the unit cooled to below a useful heat output range the fan will shut off automatically.

ADJUSTING FLAME HEIGHT

Your heater has an adjustable flame to tailor the look and heat output to your specific needs. It is adjusted by turning the flame adjustment dial on the gas control valve.

Turn clockwise to adjust the flame higher, counterclockwise for a lower flame.

FIRST FIRE

The FIRST FIRE in your stove is part of the paint curing process. To ensure that the paint is properly cured, it is recommended that you burn your fireplace for at least four (4) hours the first time you use it with the fan on. When first operated, the unit will release an odour caused by the curing of the paint and the burning off of any oils remaining from manufacturing. Smoke detectors in the house may go off at this time. Open a few windows to ventilate the room for a couple of hours. The glass may require cleaning.

DO NOT ATTEMPT TO CLEAN THE GLASS WHILE IT IS STILL HOT!

Note: When the glass is cold and the appliance is lit, it may cause condensation and fog the glass. This condensation is normal and will disappear in a few minutes as the glass heats up.
COPY OF THE LIGHTING PLATE INSTRUCTIONS

FOR YOUR SAFETY READ BEFORE LIGHTING

This appliance must be installed in accordance with local codes, if any; if not, follow the current CAN1-B149/ANSI Z223.1 (Australia: AS661, New Zealand: NZS 5261)

WARNING: If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or gas supplier.

A) This appliance has a pilot which must be lighted by hand. When lighting the pilot, follow these instructions exactly.

B) BEFORE LIGHTING smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS
- Do not try to light any appliance
- Do not touch any electric switch, do not use any phone in your building
- Immediately call your gas supplier from a neighbours phone. Follow the gas supplier’s instructions.
- If you cannot reach your gas supplier, call the fire department.

CAUTION: Hot while in operation. Do not touch. Severe Burns may result. Due to high surface temperatures keep children, clothing and furniture, gasoline and other liquids having flammable vapors away. Keep burner and control compartment clean. See installation and operating instructions accompanying appliance.

LIGHTING INSTRUCTIONS

STOP! Read the safety information above on this label.

1) Push in gas control knob slightly and turn clockwise to “OFF”. Knob cannot be turned from “PILOT” to “OFF” unless knob is pushed in slightly. Do not force.

2) Wait five (5) minutes to clear out any gas. If you then smell gas STOP! Follow “B” in the safety information above on this label. If you don’t smell gas, go to the next step.

3) Turn knob on gas control counter-clockwise to “PILOT”.

PILOT BURNER VEILLEUSE THERMOPILE ELEMENT THERMO-ELECTRIQUE

4) Push in control knob all the way and hold in. Continually push and release the black button on spark igniter until pilot lights. Continue to hold the control knob in for about 1/2 minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 1) to 4). If knob does not pop up when released, stop and immediately call your service technician or gas supplier. If the pilot will not stay lit after several tries, turn the gas control knob to “OFF” and call your service technician or gas supplier.

5) Turn gas control knob counter-clockwise to “ON”.

6) Use rocker switch to operate main burner.

TO TURN OFF GAS APPLIANCE

1) Push in the gas control knob slightly and 2) Turn off all electric power to the appliance if service is to be performed.

NORMAL OPERATING SOUNDS OF GAS APPLIANCES

It is possible that you will hear some sounds from your gas appliance. This is perfectly normal due to the fact that there are various gauges and types of steel used within your appliance. Listed below are some examples. All are normal operating sounds and should not be considered as defects in your appliance.

Blower: Waterford gas appliances use high tech blowers to push heated air farther into the room. It is not unusual for the fan to make a “whirring” sound when ON. This sound will increase or decrease in volume depending on the speed setting of your fan speed control.

Burner Tray: The burner tray is positioned directly under the burner tube(s) and logs and is made of a different gauge material from the rest of the firebox and body. Therefore, the varying thicknesses of steel will expand and contract at slightly different rates which can cause “tick ing” and “cracking” sounds. You should also be aware that as there are temperature changes within the unit these sounds will likely re-occur. Again, this is normal for steel fireboxes.

Blower Thermodisc: When this thermally activated switch turns ON it will create a small “clicking” sound. This is the switch contacts closing and is normal.

Pilot Flame: While the pilot flame is on it can make a very slight “whisper” sound.

Gas Control Valve: As the gas control valve turns ON and OFF, a dull clicking sound may be audible, this is normal operation of a gas regulator or valve.

Unit Body/Firebox: Different types and thicknesses of steel will expand and contract at different rates resulting in some “cracking” and “tick ing” sounds will be heard throughout the cycling process.
MAINTENANCE INSTRUCTIONS

1) Always shut the valve off before cleaning. For relighting, refer to lighting instructions. Keep the burner and control compartment clean by brushing and vacuuming at least once a year. When cleaning the logs, use a soft clean brush as the logs are fragile and easily damaged.

2) Clean glass (never when unit is hot), appliance, and door with a damp cloth. Never use an abrasive cleaner.

3) The heater is finished in a porcelain finish or with a heat resistant paint and should only be refinished with heat resistant paint (not with wall paint). Waterford uses Stove-Bright Paint - Metallic Black #6309. Never use an abrasive cleaner on the porcelain finish as it may scratch the surface.

4) Make a periodic check of burner for proper position and condition. Visually check the flame of the burner periodically, making sure the flames are steady; not lifting or floating. If there is a problem, call a qualified service person.

5) The appliance and venting system must be inspected before use, and at least annually, by a qualified field service person, to ensure that the flow of combustion and ventilation air is not obstructed. During the annual service call, the burner should be removed from the burner tray and cleaned. Replace the embers - do not block the pilot or burner ports.

6) Keep the area near the appliance clear and free from combustible materials, gasoline and other flammable vapours and liquids.

CLOTHING OR OTHER FLAMMABLE MATERIAL SHOULD NOT BE PLACED ON OR NEAR THE APPLIANCE.

DO NOT USE THIS APPLIANCE IF ANY PART HAS BEEN UNDER WATER. IMMEDIATELY CALL A QUALIFIED SERVICE TECHNICIAN TO INSPECT THE APPLIANCE AND TO REPLACE ANY PART OF CONTROL SYSTEM AND ANY GAS CONTROL WHICH HAS BEEN UNDERWATER.

7) Verify proper operation after servicing.

LOG REplacement

The unit should never be used with broken logs. Turn off the gas valve and allow the unit to cool before opening door to carefully remove the logs. The pilot light generates enough heat to burn someone. If for any reason a log should need replacement, you must use the proper replacement log. The position of these logs must be as shown in the diagram under Log Installation.

Note: Improper positioning of logs may create carbon build-up and will alter the unit’s performance which is not covered under warranty.

GLASS REPLACEMENT

Your EMERALD stove is supplied with high temperature, 5 mm Neoceram ceramic glass that will withstand the highest heat that your unit will produce. In the event that you break your glass by impact, purchase your replacement door from an authorized Waterford dealer only, and follow our step-by-step instructions for replacement.

1) Open the front door. Open the right side door and there is a cutout in the heat shield through which can be seen a wing nut threaded on to a stud attached to the front door. Loosen this nut by turning it counterclockwise.

The wing nut that holds the front door is accessible through the cut-out in the right side heat shield.

2) Remove the six screws that secure the retainers holding the glass in place.

3) Remove the glass and replace with the new glass.

4) Install two bottom retainers and turn the screws in just enough to support the glass.

5) Install the other retainers, tighten the screws alternately. Do not overtighten as this can damage the glass.

6) Close the door. Thread the nut onto the end of the stud.

PILOT ADJUSTMENT

Periodically check the pilot flames. Correct flame pattern has three strong blue flames: 1 flowing around the thermopile and 1 around the thermocouple, and 1 flowing across the rear of the burner (it does not have to be touching the burner).

Note: If you have an incorrect flame pattern, contact your Waterford dealer for further instructions.

Incorrect flame pattern will have small, probably yellow flames, not coming into proper contact with the rear of the burner or thermopile.

CAUTION: ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING AN APPLIANCE MUST BE REplaced PRIOR TO OPERATING THE APPLIANCE.

WARNING: CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURE AND SHOULD STAY AWAY TO AVOID BURNS OR CLOTHING IGNITION. YOUNG CHILDREN SHOULD BE CAREFULLY SUPERVISED WHEN THEY ARE IN THE SAME ROOM AS THE APPLIANCE.
MAINTENANCE

Replacing Part
# 940-087 Emerald Glass

WARNING: Do not operate appliance with glass panels removed, cracked or broken. Replacement of the glass should be done by a licensed or qualified service person.

Note: Wearing gloves will protect your hands while handling glass.

REMOVING VALVE

If your valve requires maintenance or replacement, use the following instructions:

Note: Always close off the gas supply before removing the valve.

1) If optional fan is installed, disconnect power source to stove.

2) Remove access panel.

3) Disconnect gas line to stove.

4) Disconnect 3/8" NPT pipe from 90° elbow on valve.

5) Disconnect the two (2) switch wires from valve.

6) Disconnect piezo wire.

7) Open the front door. Open the right side door and there is a cutout in the heat shield through which can be seen a wing nut threaded on to a stud attached to the front door. Loosen this nut by turning it counterclockwise.

8) Carefully remove the logs, embers and rockwool.

9) Remove burner. See diagram below.

Note: Use a magnetic type screwdriver if possible.

FAN MAINTENANCE

If your fan requires maintenance or replacement, access to the fan is through the plate on the rear wall of the firebox.

NOTE: The unit MUST NOT be operated without the fan access panel securely in place and correctly sealed.

IMPORTANT: These fans collect a lot of dust from within your home. Ensure you maintain these fan motors on a regular basis by vacuuming out the fan squirrel cages, around the motor, and around the grills on the back of the stove.

To replace fan: See the fan installation instructions on page 7 and reverse the steps.

IMPORTANT
Disconnect power supply before servicing

WARNING: Electrical Grounding Instructions
This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

The Emerald has 3/8" fiberglass gasket in the front door. Should it ever need replacement, use only the proper replacement gasket that is available from your Waterford dealer. To replace the gasket, follow this procedure:

1) Open the front door (see instructions above in Glass Replacement 1)).

2) Remove the existing gasket and clean its channel with a scraper or wire brush.

3) Lay a thin bead of gasket cement the entire length of the channel.

4) Lay the gasket in the channel with sufficient pressure that it stays in place. Trim the excess from the end of the gasket so that it butts snugly against the other end without leaving a gap.

5) Close the door and apply firm pressure to seat the gasket evenly throughout.

To replace gasket:

1) Open the front door (see instructions above in Glass Replacement 1)).

2) Remove the existing gasket and clean its channel with a scraper or wire brush.

3) Lay a thin bead of gasket cement the entire length of the channel.

4) Lay the gasket in the channel with sufficient pressure that it stays in place. Trim the excess from the end of the gasket so that it butts snugly against the other end without leaving a gap.

5) Close the door and apply firm pressure to seat the gasket evenly throughout.

WARNING:
Electrical Grounding Instructions
This appliance is equipped with a three pronged (grounding) plug for your protection against shock hazard and should be plugged directly into a properly grounded three-prong receptacle. Do not cut or remove the grounding prong from this plug.

To replace fan: See the fan installation instructions on page 7 and reverse the steps.

To replace gasket:

1) Open the front door (see instructions above in Glass Replacement 1)).

2) Remove the existing gasket and clean its channel with a scraper or wire brush.

3) Lay a thin bead of gasket cement the entire length of the channel.

4) Lay the gasket in the channel with sufficient pressure that it stays in place. Trim the excess from the end of the gasket so that it butts snugly against the other end without leaving a gap.

5) Close the door and apply firm pressure to seat the gasket evenly throughout.

Note: Wearing gloves will protect your hands while handling glass.
10) Remove all 8 screws holding the burner tray assembly in place.

11) Carefully lift the burner tray assembly out.

12) To replace the burner tray assembly, simply reverse these instructions.

To remove valve from valve assembly, continue.

13) Remove two (2) thermopile wires.

14) Remove thermocouple with a 9 mm (metric) wrench.

15) Remove pilot nut with an 11 mm wrench.

16) Remove valve to orifice nut with a 5/8" wrench.

17) Remove inlet pipe with pipe wrench. Note orientation of 90° elbow.

18) Remove two (2) phillips head M5 screws on each side of the valve.

19) Remove valve and remove gas out 90° brass fitting. Note orientation of fitting.

**INSTALLING VALVE ASSEMBLY**

1) To install a new valve assembly, reverse instructions for removing valve. See assembly steps 1-12.

2) Check for leaks and manifold pressure. See Gas Pressure Test instructions.

3) To reinstall valve, reverse instructions for removing valve assembly, steps 13-19.
### PARTS LIST

#### MAIN ASSEMBLY

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
<th>Part #</th>
<th>Description</th>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1) W400141**</td>
<td>Emerald Right Door</td>
<td>28) *</td>
<td>Draft Hood Assembly</td>
<td>46) 260-535</td>
<td>Heat Exchanger Assy</td>
</tr>
<tr>
<td>2) 904-258</td>
<td>Door Magnet</td>
<td>29) 560-030</td>
<td>Gasket - Relief Mounting</td>
<td>47) *</td>
<td>Firebox Heatshield</td>
</tr>
<tr>
<td>3) 948-134</td>
<td>Door Stop</td>
<td>30) *</td>
<td>B-Vent Clip</td>
<td>48) *</td>
<td>Top Heat Shield</td>
</tr>
<tr>
<td>4) 44351</td>
<td>Black Butt Hinge</td>
<td>31) *</td>
<td>Access Plug</td>
<td>49) W841991**</td>
<td>Emerald Hob</td>
</tr>
<tr>
<td>5) W842001**</td>
<td>Emerald Right Side</td>
<td>32) *</td>
<td>Pipe Collar</td>
<td>51) *</td>
<td>Nut 1/4 x 20 Hex</td>
</tr>
<tr>
<td>6) 41211</td>
<td>Tape Gasket w/ adhesive Backing</td>
<td>33) *</td>
<td>Rear Panel</td>
<td>67) 42801**</td>
<td>Side Shelf with Brackets (Optional)</td>
</tr>
<tr>
<td>7) *</td>
<td>Heat Shield - Right</td>
<td>34) 250-020</td>
<td>Rear Control Panel</td>
<td>68) 942-061**</td>
<td>Decorative Door Grill Front (Optional)</td>
</tr>
<tr>
<td>8) *</td>
<td>Firebox - Right</td>
<td>35) 260-037</td>
<td>Burner ON/OFF Switch</td>
<td>69) *</td>
<td>Screw - 1/4 x 1/2&quot; Flat Head</td>
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<tr>
<td>9) *</td>
<td>Firebox - Base/Back</td>
<td>36) 910-241</td>
<td>Hole Plug 0.375</td>
<td>90) *</td>
<td>Phillips Zinc Plated</td>
</tr>
<tr>
<td>10) *</td>
<td>Firebox - Left</td>
<td>37) *</td>
<td>Fan Access Panel</td>
<td>91) *</td>
<td>Screw #8 x 1/2&quot; Hex slotted washer</td>
</tr>
<tr>
<td>11) *</td>
<td>Heat Shield - Left</td>
<td>38) 630-021</td>
<td>Fan Access Panel</td>
<td>92) *</td>
<td>Screw 1/4 x 5/8&quot; Flat Head</td>
</tr>
<tr>
<td>12) W842121**</td>
<td>Emerald Left Side</td>
<td>39) 910-233</td>
<td>Fan Auto On/Off</td>
<td>93) *</td>
<td>Screw 1/4 x 1&quot; Flat Head</td>
</tr>
<tr>
<td>13) 260-066</td>
<td>Door Shim</td>
<td>40) 560-071</td>
<td>Thermodisc</td>
<td>94) W942051**</td>
<td>Decorative Door Grill Front</td>
</tr>
<tr>
<td>14) *</td>
<td>Wire Tie Wrap</td>
<td>41) 730-517</td>
<td>Fan Assembly (Option)</td>
<td>95) W942051**</td>
<td>Decorative Door Grill Front</td>
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<tr>
<td>15) *</td>
<td>Wire Tie Mount Button</td>
<td>42) 910-331/P</td>
<td>Fan Blower</td>
<td>96) W942051**</td>
<td>Decorative Door Grill Front</td>
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<tr>
<td>16) 904-001</td>
<td>Door Rod</td>
<td>43) 910-330</td>
<td>Fan Speed Control (120 V)</td>
<td>97) W942051**</td>
<td>Decorative Door Grill Front</td>
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<tr>
<td>17) *</td>
<td>Wing Nut for Door Rod</td>
<td>44) 904-569</td>
<td>Knob - Fan Speed Control (120 V)</td>
<td>98) W942051**</td>
<td>Decorative Door Grill Front</td>
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<tr>
<td>18) 910-897</td>
<td>High Temp. Wire Harness - Fan End</td>
<td>45) 560-071</td>
<td>Power Cord (120 V)</td>
<td>99) W942051**</td>
<td>Decorative Door Grill Front</td>
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<tr>
<td>19) *</td>
<td>Grommet for power cord</td>
<td>20) W842081**</td>
<td>Emerald Front Frame</td>
<td>100) *</td>
<td>Screw 1/4 x 20 3/8&quot; Flat undercut</td>
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<tr>
<td>21) W942051**</td>
<td>Emerald Door Front</td>
<td>21) 936-236</td>
<td>Rope Gasket</td>
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<tr>
<td>22) 936-087/P</td>
<td>Replacement Glass</td>
<td>22) 910-250</td>
<td>Spill Switch</td>
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<tr>
<td>23) 940-087/P</td>
<td>Glass</td>
<td>23) 260-535</td>
<td>Heat Exchanger Assy</td>
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<tr>
<td>24) W310171</td>
<td>Glass Clip</td>
<td>24) 942-061**</td>
<td>Decorative Door Grill Front</td>
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</tbody>
</table>

*Not available as a replacement part.
** Last digit of the Part # represents the color code: 1=Black, 2=Blue, 4=Blush, 5=Brown, 8=Claret, 9=Hunter Green
### BURNER & LOG ASSEMBLY

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>52) 910-190</td>
<td>Piezo Igniter with Nut</td>
</tr>
<tr>
<td>56) 908-672</td>
<td>Control Panel Decal</td>
</tr>
<tr>
<td>57) 490-061</td>
<td>Switch Plate</td>
</tr>
<tr>
<td>251-524/P</td>
<td>Valve Assembly S.I.T. - Natural Gas</td>
</tr>
<tr>
<td>251-526/P</td>
<td>Valve Assembly S.I.T. - Propane</td>
</tr>
<tr>
<td>261-969</td>
<td>Propane Conversion Kit</td>
</tr>
<tr>
<td>60) 910-378</td>
<td>Valve S.I.T. - Natural Gas</td>
</tr>
<tr>
<td>910-380</td>
<td>Valve S.I.T. - Propane</td>
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<tr>
<td>64) *</td>
<td>Heat Shield</td>
</tr>
<tr>
<td>65) *</td>
<td>Valve Bracket</td>
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<tr>
<td>904-688</td>
<td>#32 Orifice - N.G. (38,000 Btu)</td>
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<tr>
<td>904-641</td>
<td>#50 Orifice - LP (38,000 Btu)</td>
</tr>
<tr>
<td>904-593</td>
<td>#40 Orifice - N.G. (27,000 Btu)</td>
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<tr>
<td>904-390</td>
<td>#52 Orifice - LP (29,000 Btu)</td>
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<tr>
<td>70) 260-042</td>
<td>Valve Gasket</td>
</tr>
<tr>
<td>71) 260-570</td>
<td>Log Stand Assy</td>
</tr>
<tr>
<td>72) 910-034</td>
<td>Pilot Assy-S.I.T.-3 flame - Natural Gas</td>
</tr>
<tr>
<td>910-035</td>
<td>Pilot Assy-S.I.T.-3 flame-Propane</td>
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<td>73) *</td>
<td>Burner Box</td>
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<tr>
<td>74) 260-565</td>
<td>Air Shutter Gear Assy - Female</td>
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<tr>
<td>75) 560-935</td>
<td>Log Set</td>
</tr>
<tr>
<td>78) 651-580</td>
<td>Burner Assy - NG/LP</td>
</tr>
<tr>
<td>79) 701-580</td>
<td>Base Plate</td>
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<tr>
<td>80) 260-565</td>
<td>Air Shutter Gear Assembly - Female</td>
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<tr>
<td>81) 904-565</td>
<td>Hex Key 3/16&quot; AF</td>
</tr>
<tr>
<td>82) 260-042</td>
<td>Valve Gasket</td>
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<tr>
<td>83) *</td>
<td>Air Shutter Gear Assembly - Male</td>
</tr>
<tr>
<td>84) 948-042</td>
<td>Hinge for Valve Access Door</td>
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<tr>
<td>85) 260-056</td>
<td>Valve Access Door</td>
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<tr>
<td>86) W420011**</td>
<td>Leg</td>
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<tr>
<td>91) *</td>
<td>Screw - #8 x 1/2 Hex slotted washer</td>
</tr>
<tr>
<td>94) *</td>
<td>Capscrew 3/8 x 3/4&quot; Zinc Plated</td>
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<tr>
<td>95) *</td>
<td>Washer 3/8 Flat Zinc Plated</td>
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<tr>
<td>96) *</td>
<td>Levelling Bolt 5/16 x 5/8&quot;</td>
</tr>
<tr>
<td>910-896</td>
<td>High Temperature Wire Harness - to power cord</td>
</tr>
<tr>
<td>910-897</td>
<td>High Temperature Wire Harness - Fan End</td>
</tr>
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WARRANTY

Waterford Fireplace Products are designed with reliability and simplicity in mind. In addition, our internal Quality Assurance Team carefully inspects each unit thoroughly before it leaves our facility. FPI Fireplace Products International Ltd. is pleased to extend this limited lifetime warranty to the original purchaser of a Waterford Product.

The Warranty: Limited Lifetime

External casting, not directly in contact with the fire, such as hobs, sides, ash lips, legs, fronts and fire doors, are covered against cracks and warps resulting from manufacturer defects, parts and subsidized labour* for three (3) years from the date of purchase and parts only thereafter.

The combustion chamber, heat exchanger, burner tubes/pans, logs, embers and all gold plating (against defective manufacture only) are covered under the Limited Lifetime Warranty for five (5) years for parts and subsidized labour* and parts only thereafter.

Glass is covered for lifetime against thermal breakage only, parts and subsidized labour* for three (3) years and parts only thereafter from date of purchase.

Electrical and mechanical components such as blowers, switches, wiring, thermodiscs, FPI remote controls, spill switches, thermopiles, thermocouples, pilot assembly components, and gas valves are covered for one year parts and subsidized labour* from the date of purchase. Blowers and valves replaced under warranty are considered repairs and continue as if new with appliance. i.e. twelve (12) months from original purchase date of appliance with a minimum of three (3) months coverage from date of replacement.

FPI venting components are covered parts and subsidized labour* for three (3) years from date of installation and parts only thereafter.

Conditions:

Porcelain/Enamel - Absolute perfection is neither guaranteed nor commercially possible. Any chips must be reported and inspected by an authorized dealer within three days of installation. Reported damage after this time will be subject to rejection.

Any part or parts of this unit which in our judgement show evidence of such defects will be repaired or replaced at FPI’s option, through an accredited distributor or agent provided that the defective part be returned to the distributor or agent Transportation Prepaid, if requested.

It is the general practice of FPI to charge for larger, higher priced replacement parts and issue credit once the replaced component has been returned to FPI and evaluated for manufacturer defect.

The authorized selling dealer is responsible for all in-field service work carried out on your Waterford product. FPI will not be liable for results or costs of workmanship from unauthorized service persons or dealers.

At all times FPI reserves the right to inspect product in the field which is claimed to be defective.

All claims must be submitted to FPI by authorized selling dealers. It is essential that all submitted claims provide all of the necessary information including customer name, purchase date, serial #, type of unit, problem, and part or parts requested, without this information the warranty will be invalid.

Exclusions:

This limited Lifetime Warranty does not extend to or include paint (charcoal units), porcelain (including pinholes, scratches and minor shade mismatch), door or glass gasketing or trim.

At no time will FPI be liable for any consequential damages which exceed the purchase price of the unit. FPI has no obligation to enhance or modify any unit once manufactured. i.e. as products evolve, field modifications or upgrades will not be performed.

FPI will not be liable for travel costs for service work.

Installation and environmental problems are not the responsibility of the manufacturer and therefore are not covered under the terms of this warranty policy.

Refractory liners, gaskets, door handles, paint are not covered under the terms of this warranty policy.

Any unit which shows signs of neglect or misuse is not covered under the terms of this warranty policy.

The warranty will not extend to any part which has been tampered with or altered in any way, or in our judgment has been subject to misuse, improper installation, negligence or accident, spillage or downdrafts caused by environmental or geographical conditions, inadequate ventilation, excessive offsets, negative air pressure caused by mechanical systems such as furnaces, fans, clothes dryer, etc.

Freight damage to stoves and replacement parts is not covered by warranty and is subject to a claim against the freight carrier by the dealer.

FPI will not be liable for acts of God, or acts of terrorism, which cause malfunction of the appliance.

Performance problems due to operator error will not be covered by this warranty policy.

Products made or provided by other manufacturers and used in conjunction with the operation of this appliance without prior authorization from Waterford, may nullify your warranty on this product.

Simpson Dura-Vent venting components are covered by Simpson Dura-Vent Inc. warranty.

* Subsidy according to job scale as predetermined by FPI.
Installer: Please complete the following information

Dealer Name & Address: __________________________________________________________
__________________________________________________________________________

Installer: _________________________________________________________________

Phone #: ________________________________________________________________

Date Installed: ____________________________________________________________

Serial No.: _______________________________________________________________