Direct Vent Gas Fireplace Inserts
Installation and Operating Manual
Renew Series
MODELS: SM-INS Small Fireplace Insert
LG-INS Large Fireplace Insert

DO NOT DISCARD

Installer: Leave this manual with the appliance.
Consumer: Retain this manual for future reference.

IMPORTANT: This appliance is only for use with the type(s) of gas indicated on the rating plate. An LP conversion kit is available when using Liquid Propane gas; order separately.

This appliance may be installed in an aftermarket permanently located, manufactured (mobile) home, where not prohibited by local codes. A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSBCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4

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.

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

— 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 neighbor’s phone. Follow the gas supplier’s instructions.
  • If you cannot reach your gas supplier, call the fire department.

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

DANGER

HOT GLASS WILL CAUSE BURNS.
DO NOT TOUCH GLASS UNTIL COOLED.
NEVER ALLOW CHILDREN TO TOUCH GLASS.

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

These products have been tested and listed for use in the USA and Canada by:
Underwriters Laboratories,
Northbrook, IL

File #MH47882
Listing Label Information & Homeowner Reference

This manual should be read thoroughly before installing or operating the fireplace. Installers, please leave manual for the homeowner to use for future reference.

Please have the fireplace model information available when contacting a dealer or Stellar Hearth for additional information and service work. The model information regarding your fireplace can be found on the rating plate located in the valve control area underneath the burner assembly of the fireplace.

Date Purchased/Installed: ____________________
Dealer: ________________________________

Serial Number and ID Label

Your rating plate may not look identical to the example shown below.
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1 - SAFETY INFORMATION

This fireplace has been tested to and complies with ANSI Z21.88a-2014·CSA 2.33a-2014 “VENTED GAS FIREPLACE HEATERS” by Underwriters Laboratories, Northbrook, IL. Installation must conform with local building codes or in the absence of local building codes, with the National Fuel Gas Code, ANSIZ223.1/NFPA 54 - Current Edition, or the Natural or Propane Installation Code, CSAB149.1

- Installation and repair should be done only by a qualified service person. The appliance should be inspected by a qualified service person before use. Annual inspection by a qualified service person is required to maintain warranty. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that control compartments, burners and circulation air passageways of the appliance be kept clean.

- Children and adults should be alerted to the hazards of high surface temperatures 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. Toddlers, young children and others may be susceptible to accidental contact burns. A physical barrier is recommended if there are at risk individuals in the house. To restrict access to a fireplace or stove, install an adjustable safety gate to keep toddlers, young children and other at risk individuals out of the room and away from hot surfaces.

- Clothing or other flammable material should not be placed on or near the appliance.

- Adequate accessibility clearances for servicing and proper operation must be maintained.

- This appliance must not share or be connected to a chimney flue serving any other appliance.

- Keep area around the appliance clear of combustible materials, gasoline and other flammable vapor and liquids.

- The flow of combustion and ventilation air must not be obstructed.

- Due to high temperatures the appliance should be located out of traffic and away from furniture and draperies.

- The glass front or any part removed for servicing the appliance must be replaced prior to operating the appliance. Work should be done by a qualified service technician.

- Clean glass only when cool and only with non-abrasive cleansers.

- Do not operate this appliance with the glass/frame assembly removed, cracked or broken. The glass assembly shall only be replaced as a complete unit, as supplied by Stellar Hearth Products. Replacement of the glass assembly must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.

- Do not strike or slam glass assembly.

- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.

- If the barrier becomes damaged, the barrier shall be replaced with only the manufacturer’s barrier for this appliance.

- Any safety barrier removed for servicing the appliance must be replaced prior to operating the appliance.

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

- Keep burner and control compartment clean.

- Do not use this insert if any part has been under water. Immediately call a qualified service technician to inspect this appliance and to replace any part of the control system and any gas control which has been under water.
For all sidewall horizontally vented gas fueled equipment installed in every dwelling, building or structure used in whole or in part for residential purposes, including those owned or operated by the Commonwealth and where the side wall exhaust vent termination is less than (7) feet above finished grade in the area of the venting, including but not limited to decks and porches, the following requirements shall be satisfied:

INSTALLATION OF CARBON MONOXIDE DETECTORS

At time of installation of side wall horizontally vented gas fueled equipment, the installing plumber or gas-fitter shall observe that a hard wired carbon monoxide detector with an alarm and battery back-up is installed on the floor level where the gas equipment is to be installed. In addition, the installing plumber or gas-fitter shall observe that a battery operated or hard wired carbon monoxide detector is installed on each additional level of the dwelling, building or structure served by the side wall horizontal vented gas fueled equipment. It shall be the responsibility of the property owner to secure the services of qualified licensed professionals for the installation of hard wired carbon monoxide detectors.

In the event that the side wall horizontally vented gas fueled equipment is installed in a crawl space or attic, the hard wired carbon monoxide detector with alarm and battery back-up may be installed on the next adjacent floor level.*

In the event that the requirements of this subdivision can not be met at the time of completion of installation, the owner shall have a period of thirty (30) days to comply with the above requirements; provided, however, that during said thirty (30) day period, a battery operated carbon monoxide detector with an alarm shall be installed.

EXEMPTIONS

The following equipment is exempt from 248 CMR 5.08 (2) (a) 1 through 4: The equipment listed in Chapter 10 entitled “Equipment Not Required To Be Vented” in the most current edition of NFPA 54 as adopted by the Board; and Product Approved side wall horizontally vented gas fueled equipment installed in a room or structure separate from the dwelling, building or structure used in whole or in part for residential purposes.

APPROVED CARBON MONOXIDE DETECTORS

Each carbon monoxide detector as required in accordance with the above provisions shall comply with NFPA 720 and be ANSI/UL 2034 listed and IAS certified.

SIGNAGE

A metal or plastic identification plate shall be permanently mounted to the exterior of the building at a minimum of eight (8) feet above grade directly in line with the exhaust vent terminal for the horizontally vented gas fueled heating appliance or equipment. The sign shall read, in print no less the one-half inch (1/2) in size, “GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS”.

INSPECTION

The state or local gas inspector of the side wall horizontally vented gas fueled equipment shall not approve the installation unless, upon inspection, the inspector observes carbon monoxide detectors and signage installed in accordance with the provisions of 248 CMR 5.08 (2) (a) 1 through 4.

* Does not apply to the Renew Insert Series Inserts which can only be vertically terminated.
This fireplace is design certified in accordance with American National Standard/CSA Standard ANSI Z.21-88/CSA 2.33 and by Underwriters Laboratories as a Direct Vent Gas Fireplace Heater and shall be installed according to these instructions. Consult your local building code agency, prior to installation, to ensure compliance with local codes-including permits and inspections.

The fireplace insert, when installed, must be electrically grounded in accordance with local codes or, in absence of local codes, with the National Electric Code ANSI/NFPA 70 or Canadian Electric code, CSA C22.1, if an external electrical source is utilized. These models may be installed in a bedroom or bed-sitting room in the U.S.A. and Canada.

Installation and replacement of gas piping, gas utilization equipment or accessories and repair and servicing of equipment shall be performed only by a qualified agency. The term “qualified agency” means any individual, firm, corporation or company which either in person or through a representative is engaged in and is responsible for (a) the installation or replacement of gas piping or (b) the connection, installation, repair or servicing of equipment, who is experienced in such work, familiar with all precautions required and has complied with all the requirements of the authority having jurisdiction.

State of Massachusetts: The installation must be made by a licensed plumber or gas fitter in the Commonwealth of Massachusetts.

The installation must conform with local codes or, in the absence of local codes, with the National Fuel Gas Code ANSI Z223.1/NFPA 54* Natural Gas and Propane Installation Code, or CSA B149.1 in Canada. *Available from the American National Standards Institute, Inc. 11 West 42nd St., New York, N.Y. 10036.

This fireplace is not for use with solid fuels.

ANY CHANGE TO THIS FIREPLACE OR ITS CONTROLS CAN BE DANGEROUS. Improper installation or use of the fireplace can cause serious injury or death from fire, burns, explosions, or carbon monoxide poisoning.

Any alteration of the original design, installed other than as shown in these instructions or use with a type of gas not shown on the rating plate is the responsibility of the person and company making the change.

Important: All correspondence should refer to complete Model Number, Serial Number and type of gas.
4 - SPECIFICATIONS

A. BTU SPECIFICATIONS

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<th>SM-INS (NG/LP)</th>
<th>LG-INS (NG/LP)</th>
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<tr>
<td>Input Btu/hr (maximum)</td>
<td>32,500 NG 30,000 LP</td>
<td>39,000 NG 38,500 LP</td>
</tr>
<tr>
<td>Input Btu/hr (minimum)</td>
<td>21,500 NG 23,500 LP</td>
<td>26,500 NG 30,000 LP</td>
</tr>
<tr>
<td>Orifice</td>
<td>34 INCHES 51 MM</td>
<td>0.125 INCHES 49 MM</td>
</tr>
<tr>
<td>Air Shutter Opening</td>
<td>3/8&quot; INCHES Fully Open</td>
<td>3/8&quot; INCHES Fully Open</td>
</tr>
</tbody>
</table>

B. DIMENSIONS

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<th>SM-INS (NG/LP)</th>
<th>LG-INS (NG/LP)</th>
</tr>
</thead>
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<tr>
<td>A Front Width</td>
<td>29-1/8 INCHES 740 MM</td>
<td>33-1/8 INCHES 841 MM</td>
</tr>
<tr>
<td>B Glass Opening Width</td>
<td>28-3/4 INCHES 730 MM</td>
<td>32-3/4 INCHES 832 MM</td>
</tr>
<tr>
<td>C Glass Opening Height</td>
<td>17-3/8 INCHES 441 MM</td>
<td>21-3/8 INCHES 543 MM</td>
</tr>
<tr>
<td>Actual Viewing Area</td>
<td>26-3/4 x 15 INCHES 679 x 381 MM</td>
<td>30-3/4 x 19 INCHES 781 x 483 MM</td>
</tr>
<tr>
<td>D Front Height</td>
<td>19-1/4 INCHES 489 MM</td>
<td>22-7/8 INCHES 581 MM</td>
</tr>
<tr>
<td>E Back Height</td>
<td>16-1/2 INCHES 419 MM</td>
<td>20 INCHES 508 MM</td>
</tr>
<tr>
<td>F Depth</td>
<td>14-3/8 INCHES 365 MM</td>
<td>16-3/8 INCHES 416 MM</td>
</tr>
<tr>
<td>G Back Width</td>
<td>17-1/8 INCHES 435 MM</td>
<td>21-3/8 INCHES 543 MM</td>
</tr>
</tbody>
</table>

If exhaust collar on insert and fireplace damper do not line up, add 4" (102mm) to minimum fireplace height for bends in vent pipe.

Figure 4B
C. MINIMUM FIREPLACE DIMENSIONS

**IMPORTANT NOTE**
If the fireplace lintel is wider than 8” (203mm), the height of the fireplace opening may need to be increased a few inches to allow for a gradual offset in the exhaust and/or intake vent pipes.

**IMPORTANT NOTE**
These dimensions are guidelines only. Features in your fireplace may change for minimum size requirements.

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<td><strong>Refer To:</strong> Figure 4C Below</td>
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<td><strong>HEIGHT A</strong></td>
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<tr>
<td>SM-INS Inches</td>
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<tr>
<td>mm</td>
</tr>
<tr>
<td>LG-INS Inches</td>
</tr>
<tr>
<td>MM</td>
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</tbody>
</table>

For Both Zero-Clearance and Masonry Woodburning Fireplaces

* Interior Rear Width

Figure 4C
5 - MANTEL AND TRIM CLEARANCES

A. PERPENDICULAR SIDE WALL CLEARANCE

**WARNING**

DO NOT OVERLAP THE SURROUND WITH COMBUSTIBLE MATERIAL.

---

Figure 5A

B. MANTEL CLEARANCES

**WARNING**

NO COMBUSTIBLES OF ANY TYPE SHOULD BE PLACED ON OR ATTACHED TO THE FIREPLACE. THE FLOW OF HEAT CAN IGNITE COMBUSTIBLES.

---

Figure 5B
# A. GAS CONVERSION IMPORTANT NOTES

This fireplace insert is manufactured for use with Natural Gas or LP Gas. NG and LP Gas conversion kits are available. Natural Gas to LP Gas Conversion Kit (LPC-SM-INS and LPC-LG-INS) and LP Gas to NG Conversion Kits (NGC-SM-INS and NGC-LG-INS) are sold separately. Follow instructions found in Section 23 - or included with the conversion kits.

<table>
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<tr>
<th>IMPORTANT NOTE</th>
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<tr>
<td>The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements on the ANSI Z223.1 installation code.</td>
</tr>
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<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
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</thead>
<tbody>
<tr>
<td>Installation of the gas line must only be done by a qualified person in accordance with local building codes, if any. If not, follow ANSI 223.1. Commonwealth of Massachusetts: Installation must be done by a licensed plumber or gas fitter.</td>
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<thead>
<tr>
<th>IMPORTANT NOTE</th>
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<tbody>
<tr>
<td>A listed (and Commonwealth of Massachusetts approved) 1/2&quot; (13 mm) T- handle manual shut-off valve and flexible gas connector (included) are connected to the 1/2&quot; (13 mm) control valve inlet. If substituting for these components, please consult local codes for compliance.</td>
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</tbody>
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<thead>
<tr>
<th>IMPORTANT NOTE</th>
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<tbody>
<tr>
<td>This fireplace is equipped with a 3/8&quot;(10 mm) x 24&quot; (610mm) long flexible gas connector and manual shut-off valve. The gas line should be run to the point of connection where the shut-off valve and flexible gas line will connect.</td>
</tr>
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<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
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<tbody>
<tr>
<td>The appliance and its individual shut-off valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi (3.5 kPa).</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
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</thead>
<tbody>
<tr>
<td>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 line at test pressures equal to or less than ½ psi (3.5 kPa).</td>
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<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
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<tr>
<td>For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods.</td>
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<thead>
<tr>
<th>IMPORTANT NOTE</th>
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<tbody>
<tr>
<td>The efficiency rating of this appliance is a product of thermal efficiency rating determined under continuous operating conditions and was determined independently of any installed system.</td>
</tr>
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The insert has a Flexline with shutoff valve located on the left side when facing the unit. Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

The gas lines must be checked for leaks by the installer. This should be done with a soap solution watching for bubbles on all exposed connections, and if unexposed, a pressure test should be made. Never use an exposed flame to check for leaks. Appliance must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with appliance connected; control valve will sustain damage!

**NOTICE:**

The gas controls are equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connector use only approved fittings. The appliance and its individual shut off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.

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.

**Attention!** If one of the procedures results in pressures in excess of 1/2 psig (14" w.c.) on the fireplace gas valve, it will result in a hazardous condition.

**Checking Manifold Pressures**

Both Propane and Natural gas valves have a built-in pressure regulator in the gas valve. Natural gas models will have a manifold pressure of approximately 3.5" w.c. at the valve outlet with the inlet pressure to the valve from a minimum of 5.0" w.c. for the purpose of input adjustment to a maximum of 10.5" w.c. Propane gas models will have a manifold pressure approximately 10.0" w.c. at the valve outlet with the inlet pressure to the valve from a minimum of 11.0" w.c. for the purpose of input adjustment to a maximum of 13.0" w.c.

---

**6 - GAS LINE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>B. GAS LINE CONNECTION</th>
<th>NATURAL GAS</th>
<th>LP GAS</th>
</tr>
</thead>
</table>
| Minimum Inlet Gas Pressure           | 5.0 inches W.C.  
(7.0 W.C. recommended) | 11.0 inches W.C.  
(recommended) |
| Maximum Inlet Gas Pressure           | 10.5 inches W.C. | 13.0 inches W.C. |
| Manifold Pressure (HI)               | 3.5 inches W.C. | 10.0 inches W.C. |

GAS PRESSURES MAY VARY PLUS OR MINUS 5%.

The gas lines must be checked for leaks by the installer. This should be done with a soap solution watching for bubbles on all exposed connections, and if unexposed, a pressure test should be made. Never use an exposed flame to check for leaks. Appliance must be disconnected from piping at inlet of control valve and pipe capped or plugged for pressure test. Never pressure test with appliance connected; control valve will sustain damage!

**NOTICE:** The gas controls are equipped with a captured screw type pressure test point, therefore it is not necessary to provide a 1/8" test point up stream of the control.

When using copper or flex connector use only approved fittings. The appliance and its individual shut off valve must be disconnected from supply piping system during any pressure testing of that system at test pressures in excess of 1/2 psig.

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.

**Attention!** If one of the procedures results in pressures in excess of 1/2 psig (14" w.c.) on the fireplace gas valve, it will result in a hazardous condition.

---

The use of the following gas connectors is recommended:

- **ANS Z21.24** Appliance Connectors of Corrugated Metal Tubing and Fittings.
- **ANS Z21.45** Assembled Flexible Appliance Connectors of Other Than All-Metal Construction

The above connectors may be used if acceptable by the authority having jurisdiction. The state of Massachusetts requires that a flexible appliance connector cannot exceed three feet in length.

The insert has a Flexline with shutoff valve located on the left side when facing the unit. Consult the current National Fuel Gas Code, ANSI Z223.1 CAN/CGA-B149 (.1 or .2) installation code.

---

**Figure 6B**

**Installing the Main Gas Shut-Off Valve**

Each appliance should have its own manual gas shut-off valve. A manual main gas cock should be located in the vicinity of the unit. Where none exists, or where its size or location is not adequate, contact your local authorized installer for installation or relocation. Compounds used on threaded joints of gas piping shall be resistant to the action of liquefied petroleum gases.
1. Before beginning, remove glass door and log package from unit. Also check to make sure there is no hidden damage to the unit. Take a minute and plan out the gas, venting and electrical route. It is best to start with the gas line first, followed by the chimney liner and electrical supply requirements.

2. Minimum fireplace opening requirements are shown on Page 8, Section 4C of this installation manual. The firebrick (refractory), glass doors, screen rails, screen mesh and log grates can be removed from a factory-built fireplace in order to gain minimum gas insert opening requirements prior to installing the gas fireplace insert.

3. This insert requires no hearth extensions. Combustible material on the floor may be installed up to the insert. Do not obstruct the lower louver of the insert. The original fireplace cannot be returned to solid fuel in this condition.

4. The side walls and top structure of the firebox may not be altered with the exception of removable baffles and dampers. Smoke shields, shelves and baffles may be removed if attached with mechanical fasteners. The original fireplace cannot be returned to solid fuel in this condition.

5. The original specified clearances of a factory-built fireplace must be maintained, with the exception of the hearth. Clearances on a masonry fireplace must be maintained at 12” from the opening for combustible projections over 1 1/2”. Clearances for combustible projections under 1 1/2” must be maintained at 6” from the opening per NFPA211. Plan the surround size accordingly. A surround must be used with the insert. UNDER NO CIRCUMSTANCE CAN COMBUSTIBLE MATERIAL BE PLACED BEHIND THE SURROUND!

6. The insert surround is tested and approved with this gas insert and may cover existing air circulation vents or grilles on the solid fuel fireplace it is installed into. If the surround does not cover the entire ventilation grille surface, the exposed grille area should be left open.

NOTICE: Surround panel kits have been tested and approved to cover existing air circulation vents or grilles.

NOTICE: Cutting of sheet metal parts of a fireplace in order to install the fireplace insert is prohibited.

7. To assure top performance, safety and efficiency, inserts must be installed with an approved flue liner as per CAN/CGA B-149 or National Fuel Code ANSI Z223 and these instructions.

NOTICE: The following statement is also provided on a separate label plate in the instruction packet. Prior to installation of the fireplace insert, the installer must mechanically secure this warning plate to the inside of the fireplace for future reference as required.

WARNING

This solid fuel fireplace has been converted for use with gas only and cannot be used for burning wood or solid fuels unless all original parts have been replaced and the fireplace has been reapproved by the authority having jurisdiction.

8. The solid fuel fireplaces’ flue damper must be fully locked in the open position or removed for installation of the gas fireplace insert.

9. The fireplace and fireplace chimney must be cleaned and in good working order and constructed of noncombustible materials.

10. Make sure that all chimney clean-outs fit properly so air cannot leak into the chimney.

11. Install the insert without the decorative, front surround panels attached and make all gas, venting, and electrical connections.

12. To complete the installation, install surround panel assembly. Please refer to instructions included with the surround panel kit.

INSTALLING THE VENT SYSTEM

Vent System Installation Precautions

Before starting installation of vent kits, the installer should read these instructions and the Vent Kit Instructions to ensure that a proper vent installation is completed. Consult your local Building Codes before beginning the Installation.

WARNING

COMMON VENT SYSTEMS ARE PROHIBITED. THIS GAS INSERT AND VENT ASSEMBLY MUST BE VENTED TO THE OUTSIDE AND MUST NEVER BE ATTACHED TO A CHIMNEY SERVING A SEPARATE SOLID FUEL BURNING APPLIANCE. EACH GAS APPLIANCE MUST USE A SEPARATE VENT SYSTEM.
Figure 7.1

- 10’ Minimum
- 40’ Maximum

- Screw liner to collar (4 total)
- High temperature sealant recommended on intake
- 2000° stove cement recommended on exhaust
7 - VENTING AND INSTALLATION

Vent System Approvals
Figure 8 shows the vent termination caps and systems approved for use with these models. Approved vent system terminations are labeled for identification. 3-inch diameter listed flexible aluminum or stainless steel gas vent is used for both the incoming combustion air and exhaust vent pipes. NO OTHER VENTING SYSTEMS OR COMPONENTS MAY BE USED. Detailed installation instructions are included with each vent termination kit and should be used in conjunction with this manual.

Horizontal Venting
The vent system on this model CANNOT be terminated horizontally.

Vertical Venting
The inlet and exhaust vent pipes MUST be connected to the proper collars on the unit AND to the termination cap or the unit will not operate. The intake vent collar is the rear-most collar.

3.6 X 2.3 Connecting Vent Pipe

Level The Insert
Install the insert into fireplace and check for fit. Use the leveling legs included in the manual bag to level the insert side to side and front to back. Remove the insert and install the venting.

Connecting The Vent Pipe

Install the 3-inch flexible vent pipes down through the chimney. Attach the pipe-to-cap adaptor to the termination cap and the top of the flexible vent pipe, then install the cap to the top of the chimney. Remove the vent slide plate assembly from the top of the insert. See Figure 7.2. Trim off excess venting then attach and secure the bottom ends of the flex pipes to the starting collars with the screws provided. Slide the gas insert into place, and position any excess flex vent pipe back up into the chimney. Begin installation of the insert into the fireplace opening. Align the vent slide plate assembly with the guides located on top of the insert. Work the insert inch by inch into the fireplace cavity as you pull forward on the vent slide plate assembly. Do not use excessive force on the vent slide plate. Once the vent slide plate is close to seating, install the vent bolt through the center hole of the insert top flange, and into the vent slide plate nut. Using a screw driver, tighten the bolt until the vent slide plate is seated forward completely.

WARNING
MAJOR U.S. BUILDING CODES SPECIFY MINIMUM CHIMNEY AND/OR VENT HEIGHT ABOVE THE ROOF TOP. THESE MINIMUM HEIGHTS ARE NECESSARY IN THE INTEREST OF SAFETY. SEE FIGURES 8 THROUGH 10 FOR MINIMUM HEIGHTS, PROVIDED THE TERMINATION CAP IS AT LEAST 2- FEET FROM A HORIZONTAL OVERHANG.

Note: This also pertains to vertical vent systems installed on the outside of the building.

WARNING

NOTICE: The minimum vertical rise is 10 feet and the maximum vertical vent rise is 40 feet. These dimensions are measured from the starting collars of the unit to the bottom of the flashing.

NOTICE: The damper of the masonry chimney may need to be removed to allow installation of the flexible-vent pipe.

Figure 7.2
Determining Minimum Vent Height Above the Roof.

**WARNING**

Major U.S. building codes specify minimum chimney and/or vent height above the roof top. These minimum heights are necessary in the interest of safety. These specifications are summarized in Figure 8.1.

<table>
<thead>
<tr>
<th>ROOF PITCH</th>
<th>H (Min.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat to 6/12</td>
<td>12&quot; (305 mm)</td>
</tr>
<tr>
<td>6/12 to 7/12</td>
<td>15&quot; (381 mm)</td>
</tr>
<tr>
<td>Over 7/12 to 8/12</td>
<td>18&quot; (457 mm)</td>
</tr>
<tr>
<td>Over 8/12 to 16/12</td>
<td>24&quot; (610 mm)</td>
</tr>
<tr>
<td>Over 16/12 to 21/12</td>
<td>36&quot; (914 mm)</td>
</tr>
</tbody>
</table>

Figure 8.1

Note: If the original solid fuel chimney is shortened, refer to Figure 8.1 for minimum vent height above the roof.

When terminating the vent cap near an exterior wall or overhang, maintain minimum clearances as shown in Figure 8.2.

**General Maintenance**

Conduct an inspection of the venting system semi-annually. Recommended areas to inspect are as follows:

1. Check areas of the venting system which are exposed to the elements for corrosion. These will appear as rust spots or streaks and, in extreme cases, holes. These components should immediately be replaced.
2. Remove the cap and shine a flashlight down the vent. Remove any bird nests or other foreign material.
3. Check for evidence of excessive condensate, such as water droplets forming in the flex venting and subsequently dripping out at joints or seams. Condensate can cause corrosion of caps, pipe and fittings.
4. Inspect joints to verify that no pipe sections or fittings have been disturbed and, consequently, loosened.
9 - SURROUND PANEL INSTALLATION

**WARNING**

WHEN FINISHING THE FIREPLACE INSERT, NEVER OBSTRUCT OR MODIFY THE AIR INLET/OUTLET LOUVERS ON THE FIREPLACE INSERT AT ANY TIME.

**INSTALLING THE DECORATIVE FRONTS**

The front surround will cover over the back surround (plate that the fans/valve and electrical components are mounted on) attached to the insert firebox, with the top hooks of the front surround dropping into the top slots of the back surround. Then tilt down to cover over the back surround.

To attach the decorative front mesh, simply place over and in front of the front surround such that the top return flange of the mesh is slightly above the top of the front surround, then slide down so as to engage the top hooks onto the top side of the front surround, into the corresponding hanging slots. Press down firmly to ensure that the mesh is securely in place, and engaged with the magnets.

![Diagram of fireplace insert with front surround installed](image)

Figure 9

10 - BLOWER ACCESSORY INFORMATION

**CAUTION**

UNPLUG THE INSERT IF YOU ARE ABSENT FOR EXTENDED PERIODS OF TIME. THIS WILL PREVENT ACCIDENTAL FIREPLACE OPERATION.

**IMPORTANT NOTE**

Electrical wiring must be installed by a licensed electrician.

**Blowers**

Two blowers are factory installed and will operate after the fireplace insert has been turned on for 5 minutes, providing the fan has been turned on with the remote control.

The fan will operate for 12 minutes after the insert has been turned off.

![Diagram of blower system](image)

Figure 10
A. GLASS REMOVAL

Remove the decorative front prior to glass removal.

The glass frame has two (2) tabs on the bottom and four (4) tabs on top.

To remove the glass:

1. Using the hook tool, hook the top glass retainer through the hole and pull forward while moving the retainer outward.
2. Repeat for the three (3) other retainers.
3. Pull the top of the glass outward and lift the glass to disengage the lower retainers.

B. GLASS INSTALLATION

1. Drop the bottom tabs on the glass frame behind the bottom glass retainers.
2. Push down and bring the top of the glass frame against the insert.
3. Using the hook tool, hook the retainer through the hole and pull around the glass tab and in front of the tab to secure.
4. Disengage the hook tool from the glass retainer.
5. Repeat for the other three (3) retainers.

![Diagram showing glass removal and installation steps](image-url)

* Right Side Shown As Cut-Away To Better View The Glass Retainers

** Figure 11.1

** Figure 11.2

IMPORTANT NOTE

All retainers must be engaged on the glass frame tabs to operate the insert.
PARTS: Locate the deeper liner clips (qty. 2) from the parts bag.

1. Remove the grate and set aside.
2. Locate the left and right screw heads on the roof of the firebox and remove.
3. Place the back liner in place.
4. Place the left liner in place and the refractory clip against the liner. Replace the screw so the clip is held in place.
5. Place the right liner in place and the refractory clip against the liner. Replace the screw so the clip is held in place.
6. Re-install the grate and proceed with the log installation.
# 13 - LOG INSTALLATION (SM-INS)

Section 13 A & B are the SM-INS Log Installation found on Pages 20-24. Section 13 C & D are the LG-INS Log Installation found on Pages 25-31.

<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CAUTION</strong></td>
</tr>
<tr>
<td>Do not place logs directly over burner port holes. Improper log placement may affect flame appearance and cause excessive soot to build up on logs and glass.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Carefully remove the logs from the packaging and arrange them on a drop cloth or other protected surface. Arrange the logs as shown in Figure 13A below.</td>
</tr>
</tbody>
</table>

## A. SM-INS LOG SET IDENTIFICATION

|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|----------------------------------------|

**Figure 13A**
B. SM-INS LOG SET INSTALLATION - Steps 1 & 2

Step 1- Clinkers and Embers

**Clinkers:**
Place the clinkers around the fireplace base between the burner and the fireplace walls. Cover the floor evenly.

**Embers:**
Place dime size pieces of the mineral wood around and next to the burner ports. DO NOT COVER THE PORTS TOO HEAVILY.

It is not necessary to cover the burner surface outside of the port area; the logs will cover the empty burner space.

**Tab 1 and Tab 2:**
Tab 1 and Tab 2 are used in the placement of Log 2 in Step 3, page 22.

---

Step 2 - Log 1

Log Part Number: SMINS-Log 1

Place Log 1 on the log platform. The notch on the bottom on the log falls into the right grate tine. The left side almost touches the back wall. Slide the log back until it is 1/2” from the back wall.
**B. SM-INS LOG SET INSTALLATION - Steps 3 & 4**

**Step 3 - Log 2**  
Log Part Number: SMINS-Log 2

Place Log 2 over Log 1. The hole in the bottom of Log 2 matches the pin molded into the top of Log 1. The flat side of Log 2 rests on the flat part of Tab 2 (and pulled forward) and Tab 1 that is attached to the back wall. Refer to Figure 13B.1 on Page 21 for Tab placement.

**Step 4 - Log 3**  
Log Part Number: SMINS-Log 3

Place Log 3 over Log 1. The hole in the bottom of Log 3 matches the pin molded into the top of Log 1. The left end fits between the grate and the left fireplace wall.
B. SM-INS LOG SET INSTALLATION - Steps 5 & 6

Step 5 - Log 4
Log Part Number: SMINS-Log 4

Place Log 4 onto the left side of the burner. Place the log so the burner ports are equal distance from it all the way around the log. DO NOT PLACE THE LOG OVER ANY PORTS.

Step 6- Log 5
Log Part Number: SMINS-Log 5

Place Log 5 onto the right side of the burner. Place the log so the burner ports are equal distance from it all the way around the log. DO NOT PLACE THE LOG OVER ANY PORTS.
**B. SM-INS LOG SET INSTALLATION - Steps 7 & 8**

---

**Step 7 - Log 6**
Log Part Number: SMINS-Log 6

Place Log 6 onto Log 3. The hole in the bottom of Log 6 matches the pin molded into the top of Log 3. The end of Log 6 rests on the right side of the second grate tine.

---

**Step 8 - Log 7**
Log Part Number: SMINS-Log 7

Place Log 7 onto Log 2. The hole in the bottom of Log 7 matches the pin molded into the top of Log 2. The end of Log 7 rests against the backside of the fourth grate tine.
13 - LOG INSTALLATION (LG-INS)

C. LG-INS LOG SET IDENTIFICATION

![Log Set Identification Diagram]

**CAUTION**
Do not place logs directly over burner port holes. Improper log placement may affect flame appearance and cause excessive soot to build up on logs and glass.

**IMPORTANT NOTE**
Carefully remove the logs from the packaging and arrange them on a drop cloth or other protected surface. Arrange the logs as shown in Figure 13C below.

- **Log 1** - Right Back Log (STL-411-701)
- **Log 2** - Left Back Log (STL-411-702)
- **Log 3** - Large Right Side Top Log (STL-411-703)
- **Log 4** - Large Left Side Top Log (STL-411-704)
- **Log 5** - Right Front Chunk (STL-411-705)
- **Log 6** - Middle Right Log (STL-411-706)
- **Log 7** - Left Front Chunk (STL-411-707)
- **Log 8** - Right Center Top Log (STL-411-708)
- **Log 9** - Right Top Log (STL-411-709)
- **Log 10** - Left Top Log (STL-710)
D. LG-INS LOG SET INSTALLATION - Steps 1 & 2

Step 1- Embers

Clinkers:
Place the clinkers around the fireplace base between the burner and the fireplace walls. Cover the floor evenly.

Embers:
Place dime size pieces of the mineral wood around and next to the burner ports. DO NOT COVER THE PORTS TOO HEAVILY.

It is not necessary to cover the burner surface outside of the port area; the logs will cover the empty burner space.

Figure 13D.1

Step 2 - Log 1
Log Part Number: LG-INS LOG 1

Place Log 1 on top of the log platform with the right end touching the back and side walls of the refractory. The inside log profile will slightly overhang the steel cut-out on the log platform.

Figure 13D.2
Step 3 - Log 2
Log Part Number: LGINS-Log 2

Place Log 2 on the left side of the firebox. The left end will touch the back and side walls of the refractory. The underside of the right end has a circular indent in it; this will match the circular pin on top of Log 1.

Step 4 - Log 3
Log Part Number: LGINS-Log 3

Place Log 3 on top of Log 1. The circular indent on the bottom of the log will match the circular pin on top of Log 1. The end of Log 3 goes between the right grate tine and the right wall of the refractory.
Step 5 - Log 4
Log Part Number: LGINS-Log 4

Place Log 4 on top of Log 2. The rectangular pin on the top of Log 2 will match the slot on the bottom of Log 4. The end of Log 4 goes between the left grate tine and the left wall of refractory.

Step 6 - Log 5
Log Part Number: LGINS-Log 5

Place Log Chunk 5 on top of the right side of the burner. The log chunk will go right in the center of all the burner ports. The burner ports will trace the shape of the log. Do not cover any burner ports.
**D. LG-INS LOG SET INSTALLATION - Steps 7 & 8**

**Step 7- Log 6**
Log Part Number: LGINS-Log 6

**Step 8 - Log 7**
Log Part Number: LGINS-Log 7

---

Place Log 6 on top of the center of the burner. The split end will point forward and to the left. The ports will trace the shape of the log. Do not cover the burner ports.

Place Log Chunk 7 on top of the left side of the burner. The log chunk will go right in the center of the burner ports. Do not cover the burner ports.
D. LG-INS LOG SET INSTALLATION - Steps 9 & 10

Step 9 - Log 8
Log Part Number: LGINS-Log 8

Place Log 8 on top of Log 6. The circular indent on the bottom of the log will match the circular pin on top of Log 6. The skinny end of the Log 8 goes to the right side of the fourth (from the left) grate tine.

Step 10 - Log 9
Log Part Number: LGINS-Log 9

Place Log 9 on top of Log 3. The circular indent on the bottom of the log will match the circular pin on top of Log 3. The burned skinny end of the log will rest on top of Log 8. It points at, but doesn’t quite touch, the second grate tine.
Step 11 - Log 10
Log Part Number: LGINS-Log 10

Place Log 10 on top of Log 4. The circular indent on the bottom of the log will match the circular pin on the top center of Log 4. The end of the log will touch the right side of the second (from the left) grate tine.
Figure 14

*DRAWINGS NOT TO SCALE.
A. REMOTE ICON IDENTIFICATION

Proflame 2 Remote Control by SIT

**IMPORTANT NOTE**

ON/OFF Rocker Switch must be ON for the remote to operate.

**Features:**
- Main Burn ON/OFF
- Main Burner flame modulation (6 levels)
- Choice of standing or intermittent pilot
- Thermostat or Smart thermostat functions
- Accent light modulation* (6 levels)
- Comfort Fan speed modulation (6 levels)

Figure 15A.1

![Remote Control with Icons and Buttons]

- Blue back lit LCD display
- ON/OFF Key
- THERMOSTAT Key
- UP/DOWN Arrow Key
- MODE Key
- Key Lock
- Transmission
- Thermostat OFF/ON/SMART
- Set Point Temperature/Level/State
- Flame ON
- Comfort fan
- Low Battery Alarm
- Room Temperature
- CPI mode
- Aux ON
- Split Flow
- Dimmer ON

Figure 15A.2
C. INITIALIZING THE SYSTEM FOR THE FIRST TIME

Install the three (3) AAA type batteries in the Transmitter battery bay located on the base of the Transmitter (back side).

Power the receiver.

* With the ON/OFF rocker switch turned ON, press the SW1 button on the module. (See Figure 14)

The Receiver will “beep” three (3) times to indicate that it is ready to synchronize with a Transmitter.

With the batteries already installed in the Transmitter, push the “ON” button. The Receiver will “beep” four (4) times to indicate the Transmitter’s command is accepted and set to the particular code of that Transmitter.

The system is now initialized.
D. TEMPERATURE INDICATION DISPLAY

With the system in the “OFF” position, press the THERMOSTAT key and the MODE key at the same time.

Look at the LCD screen on the Transmitter to verify that a °C or °F is visible to the right of the Room Temperature display. (Figure 15D.1 and 15D.2)

E. TURN THE APPLIANCE ON AND OFF

TURN ON THE APPLIANCE

With the system OFF, press the ON/OFF key on the Transmitter. The Transmitter LCD display will show some other active Icons on the screen. At the same time the Receiver will activate the appliance.

A single “beep” from the Receiver will confirm reception of the command.

TURN OFF THE APPLIANCE

With the system ON, press the ON/OFF Key on the Transmitter. The Transmitter LCD display will show the room temperature (Figure 15E). At the same time the Receiver will turn off the appliance.

A single “beep” from the Receiver confirms reception of the command.
15 - REMOTE CONTROL OPERATION

F. REMOTE-FLAME CONTROL

The Proflame has six (6) flame levels.

With the system ON and the flame level at the maximum in the appliance, pressing the DOWN ARROW key once will reduce the flame height by one step until the flame is turned OFF.

The UP ARROW key will increase the flame height each time it is pressed.

If the UP ARROW key is pressed while the system is ON but the flame is OFF, the flame will come ON in the high position. (Figure 15F.1 & 15F.2)

G. ROOM THERMOSTAT (TRANSMITTER OPERATION)

The Remote Control can operate as a room thermostat. The thermostat can be set to a desired temperature to control the comfort level in a room.

To activate the function, press the THERMOMSTAT key. (Figure 15A.1) The LCD display on the Transmitter will change to show that the room thermostat is “ON” and the set temperature is now displayed. (Figure 15G.1)

To adjust the set temperature, press the UP or DOWN ARROW keys until the desired set temperature is displayed on the LCD screen of the Transmitter.
H. SMART THERMOSTAT (TRANSMITTER OPERATION)

The Smart Thermostat function adjusts the flame height in accordance with the difference between the set point temperature and the actual room temperatures.

As the room temperature gets closer to the set point the Smart Function will modulate the flame down.

To activate this function, press the THERMOSTAT key (Figure 15A.1) until the word “SMART” appears to the right of the temperature bulb graphic. (Figure 15H.1)

To adjust the set temperature, press the UP or DOWN ARROW keys until the desired set temperature is displayed on the LCD screen of the Transmitter. (Figure 15H.2)

**NOTE:** When Smart Thermostat is activated, the manual flame height adjustment is disabled.

---

I. FAN SPEED CONTROL

The speed of the fan can be controlled by the Proflame system.

The fan speed can be adjusted through six (6) speeds.

To activate this function, use the MODE key (Figure 15A.1) to index to the fan control icon. (Figure 15I.1)

Use the UP/DOWN ARROW keys to turn on, off or adjust fan speed. (Figure 15I.2)

A single “beep” will confirm reception of the command.
With the system in “OFF” position press the MODE key (Figure 15A.1) to index to the CPI mode icon. (Figure 15M.1 & 15M.2)

Pressing the UP ARROW key will activate the Continuous Pilot Ignition mode (CPI).

Pressing the DOWN ARROW key will return to IPI.

A single “beep” will confirm the reception of the command.

K. KEY LOCK

This function will lock the keys to avoid unsupervised operation.

To activate this function, press MODE and UP keys at the same time. (Figure 15A.1) A Lock and Key icon will appear to the right of the temperature icon. (Figure 15N)

To deactivate this function, press MODE and UP Keys at the same time. (Figure 15A.1)
15 - REMOTE CONTROL OPERATION

L. LOW BATTERY POWER DETECTION

TRANSMITTER
The life span of the remote control batteries depends on various factors: quality of the batteries used, the number of ignitions of the appliance, the number of changes to the room thermostat set point, etc.

When the Transmitter batteries are low, a Battery icon will appear on the LCD display of the Transmitter (Figure 15O) before all battery power is lost. When the batteries are replaced, this icon will disappear.

M. USING THE INSERT WITHOUT A REMOTE CONTROL

Remove the decorative front and outer surround (Figure 9) to access the module. With the ON/OFF rocker switch in the ON position, press with SW1 button on the module. The module will beep 3 times to indicate that it is ready to synchronize with a remote. If no remote is found, the module will enter Manual Mode and the flame and pilot will light. The insert can now be turned ON and OFF with the rocker switch. To enter Remote Mode again, follow the initialization sequence in 15C.

N. BATTERY BACKUP OPERATION

To operate the insert on Battery Backup, remove the decorative front and outer surround (Figure 9) to access the module. Locate the battery holder and install 4 AA batteries into it. The insert will now operate without flame level adjustment or fan.

LOW BATTERY DETECTION MODULE
When the module batteries are low, a double-beep will be emitted when it receives an ON/OFF command. No more commands will be accepted until the batteries are changed or the insert is plugged in.
16 - LIGHTING & SHUTDOWN

FOR YOUR SAFETY - READ BEFORE LIGHTING

WARNING

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

DUE TO HIGH SURFACE TEMPERATURES, KEEP CHILDREN, CLOTHING AND FURNITURE AWAY.

This appliance needs fresh air for safe operation and must be installed so there are provisions for adequate combustion and ventilation air. This is a direct vent appliance which means it gets 100% of its air from the outside through the termination cap. It is important to make sure the termination cap remains unobstructed at all times from snow, ice, leaves or other debris.

• This fireplace is equipped with an ignition device which automatically lights the pilot and main burner. The pilot and burner light automatically with the hand held remote only. DO NOT try to light the pilot by hand. Before lighting this fireplace, follow these instructions exactly.

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

• 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 the control system which has been under water.

WHAT TO DO IF YOU SMELL GAS:

• Do not touch any electrical switches

• Do not try to light any appliance

• Do not use the phone in your building

• Immediately call your gas supplier from a neighbor's phone

• Follow the gas supplier's instructions

• If you cannot reach your gas supplier, call the fire department

DO NOT STORE OR USE GASOLINE OR OTHER FLAMMABLE VAPORS AND LIQUIDS IN THE VICINITY OF THIS OR ANY OTHER APPLIANCE

WARNING

IF YOU DO NOT FOLLOW THESE INSTRUCTIONS EXACTLY, A FIRE OR EXPLOSION MAY OCCUR.

CHILDREN AND ADULTS SHOULD BE ALERTED TO THE HAZARDS OF HIGH SURFACE TEMPERATURES 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 MUST NOT BE PLACED ON OR NEAR THE APPLIANCE.

IMPORTANT NOTE

A PAINT SMELL WILL OCCUR DURING THE FIRST FEW HOURS OF BURNING. IT IS RECOMMENDED TO LEAVE THE FAN OFF DURING THIS PERIOD TO HELP SPEED THE PAINT CURING PROCESS.

IMPORTANT NOTE

THIS FIREPLACE MAY PRODUCE NOISES OF VARYING DEGREE AS IT HEATS AND COOLS DUE TO METAL EXPANSION AND CONTRACTION. THIS IS NORMAL AND DOES NOT AFFECT THE PERFORMANCE OR LONGEVTY OF THE FIREPLACE.
A. LIGHTING

<table>
<thead>
<tr>
<th>STOP!</th>
</tr>
</thead>
</table>

Read safety information on previous page and front cover of this manual before continuing.

<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
</tr>
</thead>
</table>

This fireplace is equipped with an ignition device which automatically lights the pilot. DO NOT try to light the pilot by hand.

1. Turn off all electrical power to fireplace.
2. Press hand held remote MODE button to OFF.
3. Wait five (5) minutes to allow any gas that may have accumulated inside the firebox to escape. If you then smell gas, STOP! Follow safety information on front cover and on previous page of the installation manual. If you don't smell gas, go to next step.
4. Turn ON all electrical power to fireplace.
5. Press hand held remote MODE button to ON.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
</table>

If fireplace will not operate, follow instructions TURNING OFF GAS TO FIREPLACE and call your service technician or the gas supplier.

<table>
<thead>
<tr>
<th>IMPORTANT NOTE</th>
</tr>
</thead>
</table>

When fireplace is initially lit, condensation will appear on the glass; this is normal in all gas fireplaces and will disappear after several minutes.

B. TURNING OFF GAS TO FIREPLACE

1. Press hand held remote MODE button to ‘OFF’.
2. Turn OFF all electrical power to fireplace if service is required.
3. Turn manual shut-off valve to OFF.

Figure 16A

Figure 16B
17 - PRESSURE TESTING

IMPORTANT NOTE

The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of ½ psi.

IMPORTANT NOTE

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 line at test pressures equal to or less than ½ psi (3.5 kPa).

A. INLET PRESSURE TEST

1. Loosen inlet (‘IN’) pressure tap screw (counter-clockwise).

2. Attach manometer using a 1/4” I.D. hose.

3. Light fireplace using hand held remote control. Note manometer reading.

4. Turn fireplace off using hand held remote control.

5. Disconnect hose and tighten screw (clockwise). Screw should be snug, do not over tighten.

6. Relight fireplace using hand held remote control. Use a little leak-test solution to verify the tap is completely sealed.

IMPORTANT NOTE

If inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust incoming gas pressure.

CAUTION

A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.
DEFINITION OF LOCKOUT
A lockout will occur when there is a anomalous flame detection or too many unsuccessful ignition tries.
A lockout will remain in memory as long as the power supply is present.
To unlock the module, turn OFF all system power for 2 minutes. Restore system power.

A. NO PILOT FLAME IS ESTABLISHED DURING PILOT IGNITION SEQUENCE
If no pilot flame is sensed during ignition sequence the system will try 2 times. There will be a waiting period between retries to purge the combustion chamber of unburned gas. After the second time, it will lockout and the red LED will flash 3 times.

B. PILOT LOSS OF FLAME
If the pilot flame signal is lost, the system will shut down the main burner and attempt to relight the pilot. If too many pilot losses are detected the system will lockout.

NOTE: After re-establishing the pilot flame the system will wait 5 seconds before lighting the main burner. After 2 consecutive flame signal losses, the pilot will run up to a minute before lighting the main burner.
19 - FINALIZING THE INSTALLATION

A. FLAME APPEARANCE

Flame appearance is affected by several factors including altitude, venting configuration and fuel quality. Although the venturi setting has been factory set, adjustments may be necessary for optimal performance and visual aesthetics. When fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during first 15 minutes of operation. If flames remain blue, or become dark orange with evidence of sooting (black tips), the burner tube venturi may need adjustment.

**WARNING**

**BURNER TUBE ADJUSTABLE VENTURI POSITIONING SHOULD ONLY BE PERFORMED BY A QUALIFIED PROFESSIONAL SERVICE TECHNICIAN.**

B. FACTORY SET BURNER TUBE VENTURI SETTINGS
(ADJUST AS NECESSARY FOR YOUR INSTALLATION)

<table>
<thead>
<tr>
<th></th>
<th>NATURAL GAS</th>
<th>LP GAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BURNER</td>
<td>3/8” (9.5mm) OPEN</td>
<td>FULLY OPEN</td>
</tr>
</tbody>
</table>

C. BURNER TUBE VENTURI ADJUSTMENT GUIDELINES

<table>
<thead>
<tr>
<th>VENTURI POSITION</th>
<th>FLAME COLOR</th>
<th>VENTURI ADJUSTMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed too far</td>
<td>Dark orange flame with black tips</td>
<td>OPEN venturi setting slightly</td>
</tr>
<tr>
<td>Open too far</td>
<td>Blue flames</td>
<td>CLOSE venturi setting slightly</td>
</tr>
</tbody>
</table>

**IMPORTANT NOTE**

If soot is present, check log positioning before adjusting burner venturi. Logs must not block burner ports.

**IMPORTANT NOTE**

IMPORTANT: SLIGHT ADJUSTMENTS TO BURNER VENTURI OPENING CREATE DRAMATIC RESULTS. ADJUST AT SLIGHT INCREMENTS UNTIL DESIRED LOOK IS ACHIEVED. ALWAYS BURN FIREPLACE FOR AT LEAST 15 MINUTES AND ALLOW TIME TO COOL BEFORE MAKING ANY FURTHER ADJUSTMENTS.

D. TO ADJUST BURNER VENTURI:

**WARNING**

To avoid property damage or personal injury, allow fireplace time to cool before making any adjustments.

1. Locate the shutter adjustment screw.
2. Turn clockwise to open the shutter. Turn counter-clockwise to close the shutter.
3. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.

![Shutter Adjustment Screw](image-url)
20 - MAINTENANCE

The appliance is required to be inspected at least once a year by a professional service person. The compartment below firebox (behind lower grille) must be cleaned at least once a year; more frequent cleaning may be required due to excessive lint from carpeting, bedding materials, or other fibrous materials. It is imperative that the burner be cleaned once a year.

**A. IPI BOARD SYSTEM**

- Annual cleaning of burner system is required.
- Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
- Visually check pilot light and burner when in operation. Flames should be steady, not lifting or floating.

**B. FAN**

The fan should be disconnected from electrical current, and cleaned (vacuumed) every six months. The bearings are sealed and require no oiling.

**C. VENT SYSTEM**

- Annual examination of venting system by a qualified agency is required.
- IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALLATION.
- The flow of combustion and ventilation air must not be obstructed.

**D. GLASS CLEANING & REPLACEMENT**

- Clean glass only when cool and only with non-abrasive cleansers.
- Do not operate this fireplace with glass/frame assembly removed, cracked or broken.
- The glass assembly, part #011-044, shall only be replaced as a complete unit, as supplied by Stellar Hearth Products.
- Replacement of glass & frame assembly, must only be performed by a licensed or qualified service person. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass door assembly.

**IMPORTANT NOTE**

ANY SAFETY SCREEN OR GUARD REMOVED FOR SERVICING MUST BE REPLACED PRIOR TO OPERATING THE APPLIANCE.

**CAUTION**

LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING. KEEP APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE AND OTHER FLAMMABLE VAPORS AND LIQUIDS. VAPORS AND LIQUIDS.
A. REMOTE DOES NOT WORK

- Ensure new batteries are installed correctly in the transmitter.
- Verify the insert is plugged in and power is present.
- Learn the transmitter to the remote. See Section 15C.
- Does the transmitter have a lock icon? If so it is locked. See Section 15N.

B. PILOT WILL NOT LIGHT/STAY LIT

- Verify gas supply is turned on.
- Verify main control module is receiving signal from hand held remote by listening for a beep from receiver when ON is pressed on hand held remote. If you do not hear a beep, ensure main control module has learned the hand held remote. (See Section 15C).
- Verify with module is not locked out. See Section 18.
- Ensure the ground is securely connected to the tab on the valve. A proper ground is essential.
- Make sure the pilot flame is in contact with the rectification sensor or the pilot assembly. If the flame is too small, check gas pressure on the supply line.

C. PILOT BURNING BUT IGNITOR CONTINUES TO SPARK

- Ensure the ground is securely connected to the tab on the valve. A proper ground is essential.
- Make sure the pilot flame is in contact with the rectification sensor or the pilot assembly. If the flame is too small, check gas pressure on the supply line.
- Clean flame sensor with a piece of emery cloth.

D. MAIN FLAME WILL NOT LIGHT

- Verify the module is not in Warm Up Mode from pilot flame signal loss. See Section 18B. If this happens, the pilot will run up to 1 minute to warm the firebox before lighting the main burner flame.
- Verify the valve is hooked up properly. See Wiring Diagram 14A.
**22 - NG to LP CONVERSION KIT INSTRUCTIONS**

---

**WARNING**

This conversion kit shall be installed by a qualified service agency in accordance with the manufactures instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion or production of carbon monoxide may result, causing property damage, personal injury or loss of life. The qualified service agency is responsible for proper installation of the kit. The installation is not proper and complete until operation of the converted appliance is checked as specified in the instructions supplied with the kit. Refer to appliance owner’s manual or product data plate for proper inlet and manifold pressure adjustments and orifice sizing.

---

**Kit Includes:**
- (1) Gas Conversion Label
- (1) Pilot Orifice LP
- (1) Burner Orifice LP
- (1) Gas Label

**Conversion Kit Part #'s**

<table>
<thead>
<tr>
<th>LPC-SM-INS</th>
<th>LPC-LG-INS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input Btu/hr. Maximum</td>
<td>30,000</td>
</tr>
<tr>
<td>Btu/hr. Minimum</td>
<td>23,500</td>
</tr>
<tr>
<td>KWH (Maximum)</td>
<td>8.8</td>
</tr>
<tr>
<td>(Minimum)</td>
<td>6.9</td>
</tr>
<tr>
<td>Orifice - Front</td>
<td>#51</td>
</tr>
<tr>
<td>Air Shutter Opening - Front</td>
<td>Fully Open</td>
</tr>
</tbody>
</table>

---

**WARNING**

SHUT OFF GAS SUPPLY AND ELECTRICAL POWER TO FIREPLACE.

---

**A. PREPARE THE FIREPLACE:**

1. Remove the front glass assembly.
2. Remove the logs, ember chunks, and grate from the insert.
3. Remove the optional liner panels if installed.
4. Remove the air dam surrounding the burner.
5. Remove the log platform that is covering the burner.
6. Remove the two screws that hold the pilot to the burner.
7. Remove the burner by removing the 4 screws securing the burner to the floor and sliding the burner forward as far as you can before lifting it. This will allow the shutter to disengage the burner neck. You may have to turn the shutter adjustment screw counter-clockwise to move the shutter all the way back.

---

**B. CONVERT THE PILOT ASSEMBLY:**

1. Locate the pilot nut and loosen. Place a squirt of WD-40 into the top of the pilot if the fireplace has been used prior to converting. This will aid in removing the nut.
2. Remove the pilot orifice. **NOTE:** if the orifice does not fall out, lightly tap the pilot to loosen it.
3. Replace the orifice with the one included with the kit.
4. Tighten the nut snugly - **DO NOT OVER TIGHTEN.**
22 - NG to LP CONVERSION KIT INSTRUCTIONS

C. REPLACE THE BURNER ORIFICE:

1. Remove existing orifice and replace with orifice included with kit.
   Tighten securely - DO NOT OVER TIGHTEN.

D. CONVERT GAS CONTROL VALVE:

Follow the instructions included with the gas valve stepper motor conversion kit.

E. COMPLETE THE CONVERSION

1. Adjust the shutter to the fully closed position by turning the shutter adjustment screw counter-clockwise as far as it will go.
2. Re-install the burner by guiding the burner neck into the shutter and sliding it back into place.
3. Adjust the shutter to the fully open position by turning the shutter adjustment screw 30 times in the clockwise direction.
4. Re-attach the pilot to the burner with two screws. Light the pilot by pressing the bottom button on the remote and pressing the up arrow to select “CPI” (Constant Pilot Ignition). Check for leaks at the pilot nut with a soapy leak-check solution.
5. Light the burner, check for leaks at all connections with a soapy leak-check solution, whether field or factory made.
6. Test inlet pressure. See Figure 23E.
7. Turn the fireplace OFF.
8. Re-attach the air dam around the burner.
9. Re-attach the log platform to the back wall. Replace the pilot shield.
10. Affix gas type sticker to existing label.
11. Re-install the logs, ember chunks, and grate from the insert. Follow the log placement instructions in the manual. Refer to Section 13.
12. Re-install the glass front following the instructions in the manual. Refer to Section 11.
13. Re-install the firebox floor, optional Liner Kit (if applicable), grate and log set. Refer to Section 12.
14. Re-install the surround and decorative front. Refer to Section 9.
15. Light the fireplace and observe the flames. Adjust the air shutter if necessary.
1. Turn on the gas and electricity to the fireplace. Light the pilot by pressing the "Pilot" button. CONSTANT PILOT will appear on the LCD screen (Figure 17J). The pilot should light.
2. Using a solution of soapy water, check the pilot tube and nut area for leaks.
3. If no leaks are present, extinguish the pilot and proceed.

1. Loosen inlet ("IN") pressure tap screw (counter-clockwise).
2. Attach manometer using a 1/4" I.D. hose.
3. Light fireplace using hand held remote control.
   Note manometer reading.
4. Turn fireplace off using hand held remote control.
5. Disconnect hose and tighten screw (clockwise).
   Screw should not be over-tightened.
6. Re-light fireplace using hand-held remote control. Re-attach manometer to inlet pressure tap to verify that it is completely sealed.
   Manometer should read no pressure.

**IMPORTANT NOTE**
If the fireplace will not operate, follow the instructions TURNING OFF GAS TO FIREPLACE and call your service technician or the gas supplier.

**IMPORTANT NOTE**
When the fireplace is initially lit, condensation will appear on the glass; this is normal in all places and will disappear after several seconds.

**IMPORTANT NOTE**
The appliance and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at pressures in excess of 1/2 psi. The appliance must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas line at test pressures equal to or less than 1/2 psi (3.5 kPa).

**IMPORTANT NOTE**
Pressure check taps for the manifold (outgoing) and inlet (incoming) pressure have been incorporated into the valve. The pressure tap marked “OUT” measures outgoing pressure and the pressure tap marked “IN” measures incoming pressure. Follow instructions below for proper testing procedures.

**IMPORTANT NOTE**
If inlet pressure reading is too high or too low, contact the gas company. Only a qualified gas service technician should adjust the incoming gas pressure.

**WARNING**
A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.

**G. INLET PRESSURE TEST:**

1. Loosen inlet ("IN") pressure tap screw (counter-clockwise).
2. Attach manometer using a 1/4" I.D. hose.
3. Light fireplace using hand held remote control.
   Note manometer reading.
4. Turn fireplace off using hand held remote control.
5. Disconnect hose and tighten screw (clockwise).
   Screw should not be over-tightened.
6. Re-light fireplace using hand-held remote control. Re-attach manometer to inlet pressure tap to verify that it is completely sealed.
   Manometer should read no pressure.

**Figure 22G**
## 23 - REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Description</th>
<th>EXTENDED DESCRIPTION</th>
<th>QTY</th>
<th>SM-INS</th>
<th>LG-INS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PILOT ASSEMBLY - LP</td>
<td></td>
<td>1</td>
<td>STL-411-182</td>
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</tr>
<tr>
<td>PILOT ASSEMBLY - NG</td>
<td></td>
<td>1</td>
<td>STL-411-181</td>
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<td>GAS VALVE - LP</td>
<td></td>
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<td>STL-411-501</td>
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<tr>
<td>GAS VALVE - NG</td>
<td></td>
<td>1</td>
<td>STL-411-500</td>
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<tr>
<td>BURNER ORIFICE - NG</td>
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<td>STL-251</td>
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<tr>
<td>BURNER ORIFICE - NG</td>
<td>.125</td>
<td>1</td>
<td>STL-125</td>
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<td>BURNER ORIFICE - LP</td>
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<tr>
<td>FLEXIBLE GAS LINE</td>
<td>90° 1/8 NPT 1/8 BLACK (VALVE TO BURNER)</td>
<td>1</td>
<td>STL-411-550</td>
<td>X</td>
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<tr>
<td>FLEXIBLE GAS LINE</td>
<td>FLEX LINE WITH MANUAL SHUTOFF (GAS LINE TO VALVE)</td>
<td>1</td>
<td>STL-010-350</td>
<td>X</td>
</tr>
<tr>
<td>ON/OFF SWITCH</td>
<td>ROCKER SWITCH</td>
<td>1</td>
<td>STL-010-400</td>
<td>X</td>
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<tr>
<td>CONTROL MODULE</td>
<td>MAIN</td>
<td>1</td>
<td>STL-411-552</td>
<td>X</td>
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<tr>
<td>ADAPTER</td>
<td>3-PRONG PLUG</td>
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<tr>
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<tr>
<td>WIRE HARNESS</td>
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<tr>
<td>BATTERY PACK BACK-UP</td>
<td>BATTERIES NOT INCLUDED</td>
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<td>STL-411-556</td>
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<tr>
<td>BLOWER</td>
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<td>1</td>
<td>STL-411-499</td>
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<tr>
<td>BLOWER</td>
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<td>1</td>
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<tr>
<td>REMOTE CONTROL</td>
<td>TRANSMITTER</td>
<td>1</td>
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<tr>
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<td>SMINS LP AND NG</td>
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<td>LGINS LP AND NG</td>
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<tr>
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<tr>
<td>GLASS PANEL</td>
<td>SMINS</td>
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<td>GLASS PANEL</td>
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<tr>
<td>LOG SET</td>
<td>SMINS COMPLETE - REFER TO PAGE 20</td>
<td>1</td>
<td>STL-411-030</td>
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</tr>
<tr>
<td>BACK RIGHT LOG</td>
<td></td>
<td>1</td>
<td>STL-411-720</td>
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<tr>
<td>TOP RIGHT LOG</td>
<td></td>
<td>1</td>
<td>STL-411-721</td>
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</tr>
<tr>
<td>LEFT BACK LOG</td>
<td></td>
<td>1</td>
<td>STL-411-722</td>
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<tr>
<td>FRONT RIGHT BASE LOG</td>
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<tr>
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<td>STL-411-725</td>
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<tr>
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<td>1</td>
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<tr>
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<td>RIGHT BACK LOG</td>
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<td>LARGE RIGHT SIDE TOP LOG</td>
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<tr>
<td>RIGHT FRONT CHUNK</td>
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<td>MIDDLE RIGHT LOG</td>
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<tr>
<td>LEFT FRONT CHUNK</td>
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</tr>
<tr>
<td>LEFT TOP LOG</td>
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<td>BURNING EMBERS</td>
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<td>STL-REMB</td>
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<td>KLINKERS</td>
<td>ROCK</td>
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<td>STL-KLK</td>
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<td>GLASS EMBERS</td>
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<td>STL-GEMB</td>
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<td>BRICK REFRACTORY LINING</td>
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<td>LEFT SIDE PANEL</td>
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<td>1</td>
<td>STL-FB-LRP</td>
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</tr>
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<td>RIGHT SIDE PANEL</td>
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<td>STL-FB-RRP</td>
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<td>BACK PANEL</td>
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<td>RETAINER CLIPS</td>
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<td>3</td>
<td>STL-INS-BRKT</td>
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Limited Lifetime Warranty

Stellar Hearth Products, a brand of Big Woods Hearth Products Inc, warrants the following components for life to the original owner, subject to proof of purchase: Firebox, Heat Exchanger, Combustion Chamber, Grate and Stainless Steel Burners. Electrical components and wearable parts (gas valve, blowers, wiring, switches, remote controls, gasketing, and pilot assembly) are covered and will be provided free of charge for a period of one year from date of purchase. Labor to repair the warranted parts is covered and will be free of charge for a period of one year from date of purchase. See the warranty exclusions below.

YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN. Service must be provided by a Big Woods Hearth Products designated service company. This limited warranty is valid only in the United States or Canada and applies only when the major appliance is used in the country in which it was purchased. This limited warranty is effective from the date of original consumer purchase. Proof of original purchase date is required to obtain service under this limited warranty.

ITEMS EXCLUDED FROM WARRANTY

This limited warranty does not cover:

1. Replacement parts or repair labor if this major appliance is used for other than normal use or when it is used in a manner that is inconsistent to published user or operator instructions and/or installation instructions.
2. Service calls to correct the installation of your major appliance, to instruct you on how to use your major appliance, to replace or repair house fuses, or to correct house wiring or plumbing.
3. Service calls to repair or replace appliance light bulbs.
4. Damage resulting from accident, alteration, misuse, abuse, fire, flood, acts of God, improper installation, installation not in accordance with electrical or plumbing codes, or use of products not approved by Big Woods Hearth Products Inc.
5. Cosmetic damage, including scratches, dents, chips or other damage to the finish of your major appliance, unless such damage results from defects in materials or workmanship and is reported to Big Woods Hearth Products Inc within 30 days from the date of purchase.
6. Pick up and delivery. This major appliance is intended to be repaired in your home.
7. Repairs to parts or systems resulting from unauthorized modifications made to the appliance.
8. Expenses for travel and transportation for product service if your major appliance is located in a remote area where service by an authorized Big Woods Hearth Products Inc servicer is not available.
9. The removal and reinstallation of your major appliance if it is installed in an inaccessible location or is not installed in accordance with Big Woods Hearth Products Inc published installation instructions.
10. Replacement parts or repair labor on major appliances with original model/serial numbers that have been removed, altered, or cannot be easily determined.

DISCLAIMER OF IMPLIED WARRANTIES

IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO ONE YEAR OR THE SHORTEST PERIOD ALLOWED BY LAW. Some states and provinces do not allow limitations on the duration of implied warranties of merchantability or fitness, so this limitation may not apply to you. This warranty gives you specific legal rights, and you also may have other rights that vary from state to state or province to province.

LIMITATION OF REMEDIES; EXCLUSION OF INCIDENTAL AND CONSEQUENTIAL DAMAGES

YOUR SOLE AND EXCLUSIVE REMEDY UNDER THIS LIMITED WARRANTY SHALL BE PRODUCT REPAIR AS PROVIDED HEREIN. BIG WOODS HEARTH PRODUCTS SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states and provinces do not allow the exclusion or limitation of incidental or consequential damages, so these limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you also may have other rights that vary from state to state or province to province.

If outside the 50 United States and Canada, contact your authorized Big Woods Hearth Products Inc dealer to determine if another warranty applies.

If you think you need repair service, first see the “Troubleshooting” section of the Use & Care Guide.

If you are unable to resolve the problem after checking “Troubleshooting,” additional help can be found by calling Big Woods Hearth Products Inc at 952-224-4072.