CML-58
Images Series Fireplace

CTL-58
Transitional Series Fireplace

Linear Direct Vent Gas Fireplaces
Installation and Operating Instructions

**DO NOT DISCARD**

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

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.

---

**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.

---

**WARNING**

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

These products have been tested and listed for use in the USA and Canada by:
Underwriters Laboratories, Northbrook, IL
File #MH47882

www.stellarhearth.com
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.

Once you have located the rating plate, record the following information and keep with your records:

Model Name: ______________________________ Type of Gas: __________________
Date Installed: _____________________________ MFG Date: __________________
Serial Number: _____________________________ Dealer Purchased From: _______________

Model/Model#: □ CML-58-S □ CTL-58-S

This vented gas heater is not for use with air filters / Ne pas utiliser de filtre à air avec ce foyer au gaz à évacuation.

This appliance must be installed in accordance with local codes, if any; if none, follow the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or Natural Gas and Propane Installation Codes, CSA B149.1, and the applicable rules and regulations of the CSA B149.1 en vigueur.

This unit is equipped for use with: Pour nous, cet appareil est équipé avec: □ NATURAL GAS □ PROPANE (L.P.)

### Input and Orifice Specifications/Spécifications de l’arrivée de gaz et des orifices

<table>
<thead>
<tr>
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<th>N.G.</th>
<th>L.P.</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Input Rating (BTU/hr)</td>
<td>34,000</td>
<td>32,500</td>
<td>Puissance Évaluée à Max. (BTU/hr)</td>
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<td>Minimum Input Rating (BTU/hr)</td>
<td>18,000</td>
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<td>Puissance Évaluée à Min. (BTU/hr)</td>
</tr>
<tr>
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<td>32 USA/32 Can</td>
<td>31 USA/32 Can</td>
<td>Orifice du Brûleur (DMS)</td>
</tr>
<tr>
<td>Manifold Pressure Hi Setting (in W.C.)</td>
<td>3.5&quot;</td>
<td>10.0&quot;</td>
<td>Pression du collecteur d’Echappement a “HI” (po. W.C.)</td>
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<tr>
<td>Manifold Pressure LO Setting (in W.C.)</td>
<td>1.1&quot;</td>
<td>2.0&quot;</td>
<td>Pression du collecteur d’Echappement à “LO” (po. W.C.)</td>
</tr>
<tr>
<td>Minimum Inlet Pressure (in W.C.)</td>
<td>5.0&quot;</td>
<td>11.0&quot;</td>
<td>Pression Minimum de la Valve (po. W.C.)</td>
</tr>
</tbody>
</table>

### Minimum Clearance to Combustibles / Espaces Libres Minimum Des Matériaux Combustibles:

- Unit to Sidewall (from back corner of unit to left and right sides): 1.75" (45 mm) / Mur de côté au poêle
- Unit to Backwall: 1.375" (35 mm) / Mur de arrière au poêle

### Blower Electrical Rating/Evaluation du Ventilateur Électrique: 110-120 Volts, 1.1 Amps, 50/60 Hz.

**WARNING:**
Operation of this heater when not connected to a properly installed and maintained direct venting system can result in injury and possible death. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the information in the owner’s manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

Risk of electrical shock. Disconnect power before servicing unit.

This appliance may be installed in a mobile home and sleeping room provided the wall thermostat option is used. This appliance is only for use with the type of gas indicated on the rating plate and may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes. See owner’s
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1 - SAFETY INFORMATION

This fireplace has been tested to and complies with ANSI Z21.88a-2009-CSA 2.33a-2007-CSA P.4.1-02 “VENTED GAS FIREPLACE” 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, ANSI Z223.1/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.

- If this appliance is installed directly on carpeting, tile or other combustible material other than wood flooring, the appliance shall be installed on a metal or wood panel extending the full width and depth of the appliance.

- 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 place 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, part # STL-1641 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.

- Any safety screen or guard 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 fireplace 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.
NOTE: The following requirements reference various Massachusetts and national codes not contained in this manual.

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.

**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.
### 3 - SPECIFICATIONS

#### A. FIREPLACE DIMENSIONS

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<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>I</th>
</tr>
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<tbody>
<tr>
<td>DESCRIPTION</td>
<td>Height</td>
<td>Width</td>
<td>Back Width</td>
<td>Depth</td>
<td>Opening Width</td>
<td>Glass Frame Height</td>
<td>Stand-off Height</td>
<td>Front to Vent Center (Vertical)</td>
<td>Floor to Vent Center (Horizontal)</td>
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<tr>
<td>DIMENSIONS</td>
<td>INCHES</td>
<td>24-1/4</td>
<td>51</td>
<td>57-7/8</td>
<td>17</td>
<td>46-7/8</td>
<td>16-1/2</td>
<td>12</td>
<td>9-1/4</td>
</tr>
<tr>
<td>mm</td>
<td>616</td>
<td>129.5cm</td>
<td>147.0cm</td>
<td>432</td>
<td>119.1cm</td>
<td>419</td>
<td>305</td>
<td>235</td>
<td>133.4cm</td>
</tr>
</tbody>
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**Figure 3A**

Front View

Top View

Right Side View

Left Side View

Dimensions:

- Height: 24-1/4 inches (616 mm)
- Width: 51 inches (129.5 cm)
- Back Width: 57-7/8 inches (147.0 cm)
- Depth: 17 inches (432 mm)
- Opening Width: 46-7/8 inches (119.1 cm)
- Glass Frame Height: 16-1/2 inches (419 mm)
- Stand-off Height: 12 inches (305 mm)
- Front to Vent Center (Vertical): 9-1/4 inches (235 mm)
- Floor to Vent Center (Horizontal): 52-1/2 inches (133.4 cm)
WARNING: Top stand-off bracket must be attached to fireplace. Do not remove. Stand-off brackets are not load-bearing. Non-combustible zone: Stand-offs provide 12" (305 mm) minimum clearance to header. Use only non-combustible material in this area for entire width of fireplace. Do not use wood, sheetrock, etc., in this zone. Other clearances apply. All clearances must be maintained.

WARNING: NON-COMBUSTIBLE ZONE: STAND-OFFS PROVIDE 12" (305 mm) MINIMUM CLEARANCE TO HEADER. USE ONLY NON-COMBUSTIBLE MATERIAL IN THIS AREA FOR ENTIRE WIDTH OF FIREPLACE. DO NOT USE WOOD, SHEETROCK, ETC., IN THIS ZONE.

NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED. REFER TO PAGE 14 FOR MORE INFORMATION.

### B. CLEARANCES

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<tr>
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<th>Inches</th>
<th>mm</th>
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<tr>
<td>Top of unit face to header (cement board may be used in this area)</td>
<td>12</td>
<td>305</td>
</tr>
<tr>
<td>From unit left &amp; right sides at rear of unit</td>
<td>1-3/4</td>
<td>45</td>
</tr>
<tr>
<td>From surround sides (flush) at front of unit</td>
<td>1/8</td>
<td>3</td>
</tr>
<tr>
<td>To flooring under fireplace</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Unit top to ceiling</td>
<td>31&quot;</td>
<td>788</td>
</tr>
<tr>
<td>Unit side to adjacent sidewall</td>
<td>12</td>
<td>305</td>
</tr>
<tr>
<td>Mantel 12&quot; (305 mm) deep from top of fireplace</td>
<td>13-1/2</td>
<td>343</td>
</tr>
<tr>
<td>From unit back</td>
<td>1-3/8</td>
<td>35</td>
</tr>
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Figure 3B
C. INSTALLATION OVERVIEW

1. Frame an opening for fireplace, allowing for vent installation and type of installation (corner, flat wall, type of front to be used and/or clean face application).
2. If masonry (optional) will be used, prepare foundation for the masonry load. A lintel is required to support the added weight above the fireplace.
3. Install hearth if desired.
4. Bend out nailing tabs from fireplace.
5. Insert fireplace into framing.
6. Complete gas line installation.
7. Complete electrical hook-up. Install any standard or optional electrical components at this time.
8. Complete venting installation.
9. Secure fireplace to flooring through holes located in outer box bottom and to framing with nailing flanges. Verify all clearances at this point.
10. Install facing material, mantel or cabinetry, allowing room for optional full size fronts, if applicable.
11. Install logs or glass and ember material.
12. Install decorative front.
13. Verify proper operation of fireplace and all components.

D. PLACEMENT CLEARANCE REQUIREMENTS

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- Fireplace must be placed directly on wood or non-combustible surface (not linoleum or carpet) extending entire depth and width of fireplace.
- Due to high surface temperatures, fireplace should be located out of traffic and away from furniture and draperies.
- This fireplace may be installed in a bedroom.
- Please be aware of the large amount of heat this fireplace will produce when determining a location.
3 - SPECIFICATIONS

E. DECORATIVE FRONTS AND HEARTH - VERIFY PRIOR TO FRAMING

IMPORTANT: Keep the outer dimensions of the decorative front and hearth specifications in consideration, up front, when planning the framing and finishing of the fireplace. See Section 12 Finishing The Wall on pages 27-29.

CLEAN TRIM FRONT AND HEARTH

Clean Trim dimensions are 48" x 22-3/4" (1,291mm x 577.8mm) and is an inside fit front.

ACCENT DECORATIVE FRONT

![Diagram of Accent Decorative Front]

Figure 3E.1

EMINENCE AND INSPIRATION DECORATIVE FRONTS - Inspiration Front Shown Below

![Diagram of Eminence and Inspiration Decorative Front]

Figure 3E.2

NOTE: PLEASE REFER TO SECTION 12 FINISHING THE WALL (PAGES 27-29) FOR MORE IMPORTANT INFORMATION ON THE FINISHING MATERIAL CONSIDERATIONS FOR THE DIFFERENT DECORATIVE FRONTS.
4 - PREPARE THE FIREPLACE

WARNING: STAND-OFFS PROVIDE 12” (305 mm) MINIMUM CLEARANCE TO HEADER. USE ONLY NON-COMBUSTIBLE MATERIAL IN THIS AREA FOR ENTIRE WIDTH OF FIREPLACE. DO NOT USE WOOD, SHEETROCK, ETC., IN THIS ZONE.

IMPORTANT: TOP STAND-OFF BRACKETS MUST BE FORMED AND ATTACHED PRIOR TO POSITIONING FIREPLACE INTO FRAMED OPENING.

CAUTION: STAND-OFF BRACKETS ARE NOT LOAD-BEARING.

NOTE: OTHER CLEARANCES APPLY. ALL CLEARANCES MUST BE MAINTAINED. REFER TO PAGE 8 FOR MORE INFORMATION.

A. STAND-OFF ASSEMBLY & INSTALLATION

Figure 4A
The top stand-off brackets are attached to fireplace top in a flat state for shipping.
1. Remove and save (2) screws securing stand-off heat shield, and stand-off brackets.
2. Form each stand-off bracket as shown.
3. Re-attach stand-off brackets to fireplace using screws previously removed.
4. Attach the shorter stand-off heat shield to the centers of stand-offs.
5. Attach the longer stand-off heat shield to the top of the stand-offs.

**IMPORTANT:**
The top stand-off brackets (2) are attached to the fireplace top in a flat state for shipping and will need to be bent up into shape by bending at the perforations on each end and in the middle.

Figure 4A
5 - Framing

A. Wall Enclosure Rough Opening

- **Important:** Framing dimensions should allow for wall covering thickness and fireplace facing materials. When using a hearth, adjust rough opening size as necessary to maintain at least minimum clearance requirements.

- **Important:** Non-combustible facing material may be applied up to, but should not be applied over, the black fireplace face. The front will cover the black fireplace front. Do not obstruct the flow of ventilation air.

B. Minimum Finished Opening Dimensions

- **Note:** Provide adequate clearance in front of fireplace to operate lower grille, open and close optional decorative doors/full door faces, access components, installation of gas line, fan, etc.

- **Warning:** Do not obstruct the screen front. Room air enters through lower passage, is heated and exits through upper passage. Blocking these passages may result in overheating, creating a potentially hazardous situation.

**Clean Trim Front:** Inside fit door. N/A

**Accent Front:** Fireplace must be raised 3/4" (19mm) over the finished height of the hearth extension material.

**Eminence and Inspiration Fronts:** Fireplace must be raised 2-1/4" (57mm) over the finished height of the hearth extension material.

**Note:** Interior framing shown. Add sheetrock thickness to framing depth for exterior walls.

---

**Figure 5B**

**Opening required for horizontal terminations:**
- 10"H x 10"W (254mm x 254mm)

**For clearance of front to floor or hearth extension:**
- Eminence and Inspiration = 2-1/4" (57mm)
- Accent = 3/4" (19mm)
- Clean Trim = NA (Inside fit)
5 - FRAMING

Determine exact position of your fireplace, including hearth height, width, and depth. If possible, place fireplace in such a manner that vent termination will be placed between two studs, eliminating the need for additional framing.

If masonry is to be used (optional), prepare the necessary foundation for the masonry load. When masonry construction is being used, a lintel must be used over top of fireplace to support the added weight. Build hearth to desired size and height. If a hearth extension is desired, combustible material may be used.

NOTE: Consider height of hearth extension finishing material (stone, brick, etc.) when building fireplace platform. The bottom 5/8” (15.8mm) of black fireplace may be covered.

WARNING: Install fireplace on metal, concrete or hard wood surface extending the full width and depth of fireplace. Minimum platform size: 61"W x 16"D (1,550mm x 407mm).

IMPORTANT: Vent cap location must be in compliance with guidelines on pages 24-26 of this manual.

C. HORIZONTAL TERMINATION

Follow vent pipe manufacturer’s installation instructions for horizontal terminations using approved direct vent pipe. Include required 3” (76mm) top clearance and 1” (25mm) sides and bottom clearances for rigid vent systems.

<table>
<thead>
<tr>
<th>MINIMUM HORIZONTAL FRAMING DIMENSIONS</th>
<th>WALL FIRESTOP FRAMING DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Figure 5C</strong></td>
<td><strong>WIDTH</strong></td>
</tr>
<tr>
<td>RIGID PIPE</td>
<td>10” (254mm)</td>
</tr>
<tr>
<td>Center or Vent Pipe (A)</td>
<td>10” (254mm)</td>
</tr>
<tr>
<td>Center of Wall Pass-</td>
<td></td>
</tr>
<tr>
<td>Thru (B)</td>
<td></td>
</tr>
<tr>
<td>WIDE (10”)</td>
<td>10” (254mm)</td>
</tr>
<tr>
<td>HEIGHT (10”)</td>
<td></td>
</tr>
</tbody>
</table>
5 - FRAMING

**D. VERTICAL TERMINATION**

Follow vent pipe manufacturer’s installation instructions using approved direct vent pipe for vertical terminations.

A minimum 1” (25 mm) clearance on all sides of vertical vent pipe must be maintained.

- **IMPORTANT:** A venting firestop must be used on all horizontal vent runs. Follow instructions in Section 11 - Venting (Figure 11D) on page 22.

- **CAUTION:** Cold air transfer area. The surrounding fireplace chase must comply with all clearances as outlined in this manual and be constructed in compliance with local building codes. Outside walls should be insulated to prevent cold air from entering room.

- **CAUTION:** Due to high temperatures, this fireplace should be located out of traffic areas and away from furniture and draperies.

**E. CORNER INSTALLATION**

- **NOTE:** When installing in a corner, you must use a minimum of 24” (610 mm) of vertical venting before using a 90° elbow. See Section 11 - Venting (Figure 11C) on page 21.

- **WARNING:** TOP STAND-OFF BRACKETS MUST BE ASSEMBLED AND ATTACHED TO FIREPLACE. DO NOT REMOVE. STAND-OFF BRACKETS ARE NOT LOAD-BEARING.

---

**Figure 5E**
To Install Nailing Flanges:
1. Bend perforation on nailing flange until parallel with fireplace face. Do not over-bend toward fireplace face.
2. Position framing against stand-off. Secure with nails or screws. See pages 12-14 framing. Fully installed nailing flanges shown at left.
6 - MANTEL REQUIREMENTS

A. NON-COMBUSTIBLE ZONE

Non-Combustible Zone:
No materials allowed on top of the fireplace within shaded area for entire width and depth of fireplace.
This air space MUST remain open.

Figure 6A

7 - GLASS FRAME ASSEMBLY

CAUTION: TO PREVENT GLASS FRAME ASSEMBLY FROM FALLING FROM FIREPLACE AND BECOMING DAMAGED, FOLLOW THE INSTRUCTIONS EXACTLY WHEN REMOVING AND INSTALLING GLASS FRAME ASSEMBLY.

WARNING: DO NOT OPERATE THIS FIREPLACE WITH THE GLASS REMOVED, CRACKED OR BROKEN.
REPLACEMENT OF GLASS ASSEMBLY #011-044 SHOULD BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

WARNING: DO NOT REMOVE GLASS ASSEMBLY WHEN HOT!!!!
A. REMOVE GLASS FRAME ASSEMBLY

1. If decorative front is already in place, remove the front or mesh screen:
   - CLEAN TRIM AND ACCENT FRONTS: Remove the front by lifting and unhooking the front.
   - EMINENCE AND INSPIRATION FRONTS: Remove the mesh by lifting up on the mesh and pulling the bottom free of the lower slots.
2. Locate spring-loaded handles securing glass frame assembly at top & bottom of firebox.
3. Pull bottom handles out and 'down' to release glass frame assembly bottom.
4. Pull top handles out and 'up' to release glass frame assembly top.

Remove glass frame assembly from fireplace.

B. INSTALL GLASS FRAME ASSEMBLY

1. Place glass frame assembly onto fireplace front.
2. Pull top handles out and 'down' to secure glass frame assembly top.
3. Pull bottom handles out and 'up' to secure glass frame assembly bottom.

Figure 7AB
8 - OPTIONAL FK160 FAN KIT

INSTALLATION OF THIS FAN SHOULD BE DONE ONLY BY A QUALIFIED INSTALLER.

WARNING: MAKE SURE HOUSEHOLD BREAKER IS SHUT OFF PRIOR TO WORKING ON ANY ELECTRICAL LINES.

WARNING: THIS APPLIANCE IS EQUIPPED WITH A THREE-PRONG (GROUNDING) PLUG FOR PROTECTION AGAINST SHOCK HAZARD AND SHOULD BE PLUGGED DIRECTLY INTO A PROPERLY GROUNDED THREE-PRONG RECEPTACLE. DO NOT CUT OR REMOVE GROUNDING PRONG FROM THIS PLUG.

IMPORTANT: If installing a fan, it is easier to complete prior to connecting the valve to gas supply. Wiring must be done before enclosing fireplace sides. An electrical box and Romex connector are pre-installed on a removable panel on right side of fireplace. A receptacle assembly and (3) wire nuts are included in fireplace components packet.

NOTE: Code approved line voltage wiring 14 gauge or better must be used when wiring this assembly. Refer to local electrical codes for specific requirements.

NOTE: This appliance must be electrically grounded and connected in accordance with local codes, or in the absence of Local codes, with the National Electrical Code, ANSI/NFPA 70 Current Edition, or the Canadian electrical Code CSA C22.1.

NOTE: Fan is on a timer and will automatically turn on 5 minutes after the fireplace has been turned on, and will turn off 12 Minutes after fireplace has shut down. See remote control section for more details.

NOTE: If the gas supply line is in the way, install the fan on the right side. DO NOT PUT FAN IN THE CENTER.

1. Remove front or lower access panel, if installed.
2. Remove glass assembly. Refer to Section 7 - Glass Frame Assembly, page 17
3. Insert fans through lower valve cavity opening on left side of gas valve. Push to back of fireplace. Pull slightly forward (1/4” (6 mm)) to ensure against vibration.
4. Plug fan into electrical receptacle on the remote control box. Refer to Section 16, Valve & Wiring Schematic, page 38.
5. Ensure that there are no wires touching the bottom of the fireplace.
6. Re-install glass assembly. Refer to Section 7 - Glass Frame Assembly, page 17

9 - THERMOSTAT REMOTE CONTROL INSTALLATION

A thermostat remote control assembly should be used to turn fireplace ‘OFF’ and ‘ON’. Only ONE of these may be installed. Follow instructions included with remote control.

IMPORTANT: If ON/OFF rocker switch wires are not disconnected, the ON/OFF rocker switch on millivolt board must be in ‘OFF’ position for proper operation of any of these components.

IMPORTANT: If rocker switch is ‘ON’, fireplace burner will operate until it is turned ‘OFF’ by rocker switch. A wall switch, thermostat, or remote control will not turn fireplace ‘OFF’ when it has been turned ‘ON’ by the rocker switch. Fireplace must be turned ‘ON’ and ‘OFF’ by same method.
Example: If fireplace is turned ‘ON’ by remote control, it must be turned ‘OFF’ by remote control.
10 - GAS LINE CONNECTION

A. GAS CONVERSION

ATTENTION: The conversion shall be carried out in accordance with the requirements of the provincial authorities having jurisdiction and in accordance with the requirements of the ANSI Z223.1 installation code.

NOTE: A listed (and Commonwealth of Massachusetts approved) 12" (13 mm) T-handle manual shut-off valve and flexible gas connector (included) are connected to the 1/2" (13 mm) control valve inlet. If substituting for these components, please consult local codes for compliance.

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).

NOTE: For high altitude installations, consult the local gas distributor or the authority having jurisdiction for proper rating methods.

CAUTION: 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 of gas fitter.

NOTE: This fireplace is equipped with a 3/8" (10 mm) x 24" (610 mm) 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.

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: 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.

This fireplace is manufactured for use with Natural Gas. An LP conversion kit is available. LPC-CXL is sold separately. Follow instructions found in Section 24 - LPC-CXL Conversion Kit Instructions, or included with conversion kit.

B. GAS LINE CONNECTION

<table>
<thead>
<tr>
<th></th>
<th>NATURAL GAS</th>
<th>LP GAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>MINIMUM INLET GAS PRESSURE</td>
<td>5.0 inches W.C. (7.0 W.C. recommended)</td>
<td>11.0 inches W.C. (recommended)</td>
</tr>
<tr>
<td>MAXIMUM INLET GAS PRESSURE</td>
<td>10.5 inches W.C.</td>
<td>13.0 inches W.C.</td>
</tr>
<tr>
<td>MANIFOLD PRESSURE (HI)</td>
<td>3.5 inches W.C.</td>
<td>10.0 inches W.C.</td>
</tr>
<tr>
<td>ORIFICE SIZE</td>
<td>Main #27, LSS #00</td>
<td>Main #45, LSS #48</td>
</tr>
<tr>
<td>INPUT BTU/HR</td>
<td>50,000</td>
<td>48,000</td>
</tr>
<tr>
<td>MINIMUM INPUT BTU/HR</td>
<td>27,000</td>
<td>29,500</td>
</tr>
</tbody>
</table>

GAS PRESSURE MAY VARY PLUS OR MINUS 5%.

Manifold pressure must be taken at the OUTPUT PRESSURE tap and inlet pressure at the INLET PRESSURE tap with the burner operating by a qualified installer.

**FLEXIBLE GAS LINE CONNECTION**

![Figure 10B](image-url)
11 - VENTING

A. APPROVED VENTING

Refer to the vent systems manufacturer's installation manual for complete installation instructions. Installation must conform with the venting requirements and restrictions as outlined in this manual.

M&G Dura-Vent DV-GD and Selkirk, 4" x 6-5/8" direct vent systems (horizontal and vertical terminations).

**IMPORTANT:** Consult the local and national installation codes to assure adequate combustion and ventilation air is available.

**IMPORTANT:** Flame height and appearance will vary depending upon venting configuration and type of fuel used. Venting requirements apply to both Natural and LP gas.

**WARNING:** MAINTAIN ALL CLEARANCES AS STATED IN THIS INSTALLATION MANUAL.

**CAUTION:** This gas appliance must not be connected to or joined with any other chimney flue serving another appliance.

**IMPORTANT:** A restrictor is included in fireplace components packet.

Each installation is unique and affected by various factors including venting configuration, altitude and climate. Therefore, after fireplace installation is complete a restrictor may be required or may need to be removed or modified.

Please refer to Section 22 - Finalizing The Installation (Figures E - G) on page 51 for installation instructions if installing restrictor in conjunction with venting and restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

B. HORIZONTAL TERMINATIONS

**VENT SYSTEM CLEARANCES**

<table>
<thead>
<tr>
<th>ALL APPROVED VENTING</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>SIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>HORIZONTAL</td>
<td>3&quot; (76mm)</td>
<td>1&quot; (25mm)</td>
<td>1&quot; (25mm)</td>
</tr>
</tbody>
</table>

**TERMINATIONS**

REQUIRED: A 2' SECTION OF DVP PIPE MUST BE INSTALLED BEFORE THE 90° ELBOW.

MINIMUM: 24" VERTICAL, 90° ELBOW + TERMINATION CAP

MAXIMUM: 24" VERTICAL, 90° ELBOW + 12" SECTION + TERMINATION CAP

**ELBOWS**

For each additional 90° elbow used after first elbow, 3 ft. (914mm) must be subtracted from maximum allowed venting.

For each 45° elbow used, 1-1/2 ft. (457mm) must be subtracted from maximum venting allowed.

NOTE: (2) 45° elbows may be used in place of (1) 90° elbow.

**NOTE:** Horizontal sections require 1/4" (6 mm) rise for every 12" (305 mm) of travel.
### 11 - VENTING

#### C. VERTICAL TERMINATIONS

**VENT SYSTEM CLEARANCES**

<table>
<thead>
<tr>
<th>ALL APPROVED VENTING</th>
<th>TOP</th>
<th>BOTTOM</th>
<th>SIDES</th>
</tr>
</thead>
<tbody>
<tr>
<td>VERTICAL</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
<td>1 inch (25mm)</td>
</tr>
</tbody>
</table>

**TERMINATIONS**

**MINIMUM:** 10 ft. (3.05 m) + termination cap.

**MAXIMUM:** 40 ft. (9.14 m) + termination cap.

**ELBOWS**

- For each additional 90° elbow used after first elbow, 3 ft. (914 mm) must be subtracted from maximum allowed venting.
- For each 45° elbow used, 1-1/2 ft. (457 mm) must be subtracted from maximum venting allowed.

```
NOTE: Horizontal sections require 1/4” (6 mm) rise for every 12” (305 mm) of travel.
```

![Figure 11C](image)
D. WALL PASS-THROUGH

IMPORTANT: M & G DURAVENT 46DVA-WT WITH HEAT SHIELD OR DURAVENT VERTICAL 46DVA-FS WALL PASS-THRU (OR SELKIRK EQUIVALENT) MUST BE USED ON ALL HORIZONTAL VENT TERMINATIONS. THIS INCLUDES BOTH INTERIOR AND EXTERIOR WALLS. FOLLOW INSTRUCTIONS BELOW.

- If the area above the ceiling is an attic space, position the firestop ON TOP of the framed hole.

- If the area above the ceiling is not an attic space, position the firestop on the CEILING SIDE of the framed hole.

A = 10-1/2" (268mm)    B = 10-1/2" (268mm)

- Position the firestop on the INSIDE of the framed hole.

Figure 11D
E. HORIZONTAL & VERTICAL COMBINATION TERMINATIONS

MAXIMUM: 10 ft. (3.05 m) vertical + 20 ft. (6.10 m) horizontal + cap.
Measurements are from the center lines on the pipe to the back of the termination cap plate.

Figure 12E
This gas appliance must not be connected to a chimney serving any other appliance.

- Terminations against vinyl siding must use a vinyl siding protector. Follow instructions included.
- DO NOT RECESS TERMINATION KIT INTO OUTSIDE BUILDING MATERIALS - i.e.: brick, stone, siding, etc. If necessary, extend framing so that termination kit will be exposed once building materials are installed.
- Vent termination must not be located where it will become plugged by snow or other material. The flow of combustion and ventilation air must be not obstructed.

**LOCATION CLEARANCES:**

A. Above grade, veranda, porch, deck, balcony - 12" (305 mm).
B. Operable window or door - CANADA: 12" (305 mm). US: 9" (229 mm).
C. Permanently closed window* - 12" (305 mm) (recommended to prevent condensation on window).
D. Ventilated soffit* - 24" (610 mm).
E. Unventilated soffit* - 12" (305 mm).
F. Outside corner* - 12" (305 mm).
G. Inside corner* - 12" (305 mm).
H. Meter / Regulator: Not to be installed above a gas meter/regulator assembly within 3 ft. (914 mm) horizontally from the centerline of the regulator.
I. Gas Service regulator vent outlet - 3 ft. (914 mm).
J. Non-mechanical air supply inlet to building or the combustion air inlet to any other appliance.
   CANADA: 12" (305 mm). US: 9" (229 mm).
K. Mechanical air supply inlet.
   CANADA: 6 ft. (1.83 m) US: 3 ft. (914 mm) above if within 10 ft. (3.05 m) horizontally. Massachusetts installations: 10 ft. (3.05 m).
L. Above paved side-walk or paved driveway located on public property - 7 ft. (2.13 m).
M. Under veranda, porch, deck, or balcony (must be fully opened on a minimum of 2 sides) - 18" (475 mm).
N. Between two horizontal terminations - 12" (305 mm).
O. Between two vertical terminations - 12" (305 mm). Terminations may be same height.
P. Above furnace exhaust or inlet - 12" (305 mm).

*Clearance must be in accordance with local installation codes & the requirements of the gas supplier.
NOTE: A vent cannot be located directly above a side-walk or paved driveway that is located between two single family dwellings and serves both dwellings.

Inside Corner

Outside Corner

Recessed Location

Balcony with perpendicular side wall

Balcony with no side wall

Figure 11F.2

Figure 12M.2
## 11 - VENTING

### G. VERTICAL VENT CAP LOCATION AND CLEARANCES

<table>
<thead>
<tr>
<th>ROOF PITCH (Figure 11.G)</th>
<th>H (Min.) Ft.</th>
<th>H (Min.) M</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLAT TO 6/12</td>
<td>1.0*</td>
<td>0.30</td>
</tr>
<tr>
<td>OVER 6/12 TO 7/12</td>
<td>1.25*</td>
<td>0.38</td>
</tr>
<tr>
<td>OVER 7/12 TO 8/12</td>
<td>1.5*</td>
<td>0.46</td>
</tr>
<tr>
<td>OVER 8/12 TO 9/12</td>
<td>2.0*</td>
<td>0.61</td>
</tr>
<tr>
<td>OVER 9/12 TO 10/12</td>
<td>2.5*</td>
<td>0.76</td>
</tr>
<tr>
<td>OVER 10/12 TO 11/12</td>
<td>3.25*</td>
<td>0.99</td>
</tr>
<tr>
<td>OVER 11/12 TO 12/12</td>
<td>4.0</td>
<td>1.22</td>
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<tr>
<td>OVER 12/12 TO 14/12</td>
<td>5.0</td>
<td>1.52</td>
</tr>
<tr>
<td>OVER 14/12 TO 16/12</td>
<td>6.0</td>
<td>1.83</td>
</tr>
<tr>
<td>OVER 16/12 TO 18/12</td>
<td>7.0</td>
<td>2.13</td>
</tr>
<tr>
<td>OVER 18/12 TO 20/12</td>
<td>7.5</td>
<td>2.27</td>
</tr>
<tr>
<td>OVER 20/12 TO 21/12</td>
<td>8.0</td>
<td>2.44</td>
</tr>
</tbody>
</table>

* = 3 foot minimum in snowy regions

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![Diagram](image_url)

**Figure 11G**

- **VENT CAP**
- **GAS VENT**
- **LOWEST DISCHARGE OPENING**
- **H**
- **ROOF PITCH IS X/12**

**H (Min.)** - Minimum height from roof to lowest discharge opening.
12 - FINISHING THE WALL

A. NON-COMBUSTIBLE ZONE

NOTE: DO NOT COVER THE NON-COMBUSTIBLE BOARD WITH COMBUSTIBLE FINISHING MATERIAL

ACTUAL FRONT DIMENSIONS:
Clean Trim: 48” x 22-3/4”
Accent: 53-1/2” x 25-1/2”
Eminence: 62-1/2” x 28”
Inspiration: 62-1/2” x 28”

METRIC:
Clean Trim: 121.9cm x 577.8mm
Accent: 135.8cm x 647.7mm
Eminence: 158.7cm x 711mm
Inspiration: 62-1/2” x 28”

Figure 12A

B. CLEAN TRIM FRONT

Finishing the wall and installation for optional CTF58 Front with inside fit:
The inside fit front allows for finishing over the face of the fireplace and right up to the removable front.
Fireplace must be installed prior to CTF58 Clean Trim Front installation.

Figure 12B
12 - FINISHING THE WALL

C. ACCENT DECORATIVE FRONT

NOTE: DO NOT COVER THE NON-COMBUSTIBLE BOARD WITH COMBUSTIBLE FINISHING MATERIAL

Thin Finishing Material - Up To 1" (25mm) Thick

Stop finishing material at the top of the unit.

Finishing materials up to 1" (25mm) thick may come to the sides of the unit.

Front will overlap the finishing materials.

Stop finishing material at the bottom of the unit.

Figure 12C.1

Thick Finishing Material - Over 1" (25mm) Thick

Stop finishing material 1" (25mm) from the top of the unit. This will allow 3/8" (10mm) for lifting and unhooking the front.*

Stop finishing material 3/4" (19mm) from the bottom of the unit.

*For finishing materials over 1" (25mm) thick, center the unit from side to side in a 26" x 53-3/4" (660mm x 1,365mm) opening. The front will fit inside the finishing material.

Figure 12C.2
NOTE: DO NOT COVER THE NON-COMBUSTIBLE BOARD WITH COMBUSTIBLE FINISHING MATERIAL

**Thin Finishing Material - Up To 1” (25mm) Thick**

Center the unit in a 61-1/2" x 27-3/8" (1,562mm x 695mm) opening in the finishing material.

Finishing material up to 2” (51mm) thick may come to these lines. Front will overlap the finishing materials by 1/2” (13mm).

**Thick Finishing Material - Over 1” (25mm) Thick**

Center the unit in a 62-3/4" x 28-3/4" (1,594mm x 730mm) opening in the finishing material.

Finishing material up to 2” (51mm) thick may come to these lines. Front will fit inside the finishing material, with 1/8” (3mm) clearance around the outside.
A. CTL-58 LOG SET IDENTIFICATION (Figure 14A)

ATTENTION: If converting to LP (propane) gas do so now before installing log set. Follow instructions included with kit.

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.

B. CTL-58 LOG SET INSTALLATION

Burning Embers (Part # REMB)

Logs 1 & 2: Combined
Left Back Bottom and Top Logs

Logs 3 & 4: Combined
Right Back Bottom and Top Logs

Figure 13B.A

Step 1: Place dime-sized pieces of ember across the burner surface. A single layer, is sufficient; do not over-apply.

Step 2—Logs 1 & 2
Place logs 1 & 2 (combined) behind the burner onto the left side of the log tray. The bottom front edge of the log is notched along the whole length, pull the log forward so the log tray lip nests into the notch. Slide the log to the right until the steel tab left of the pilot stops it. Figure 13B.1

Step 3—Logs 3 & 4
Place logs 3 & 4 (combined) behind the burner onto the right side of the log tray. The bottom front edge of the log is notched along the whole length, pull the log forward so the log tray lip nests into the notch. Slide the log to the left until the steel tab right of the pilot stops it. Figure 13B.1
Logs 5-7 are placed behind the grate.

**Log 5:** Far Right Bottom Log  
**Log 6:** Left Twig  
**Log 7:** Right Twig

---

**Step 4—Log 5**
Locate the slot in the bottom of log 5. Place log 5 to the right of the logs 3 & 4. The log tray lip engages the slot in the bottom of log 5. Slide log 5 to the left until it touches logs 3 & 4 and rests on the right end of the burner. Figure 13B.2

**Step 5—Log 6**
Place log 6 in front of logs 1 & 2. Log 6 rests forward against the grate. Slide the log right until the tab on the backside of the grate stops it. Figure 13B.2

**Step 6—Log 7**
Place log 7 in front of logs 3 & 4. Pull the logs forward until it rests against the grate. Slide the log to the left until the tab on the backside of the grate stops it. Figure 13B.2

---

**Log 8:** Left Top Log  
**Log 9:** Center Log  
**Log 10:** Far Left Top Log

---

**Step 7—Log 8**
Locate the rectangular notch in the bottom front edge of the log. Locate the rectangular bump on the top log of logs 1 & 2. The notch from log 8 rests onto the bump of log 1 & 2. The burned out area rests on top of the knot formed into logs 1 & 2. The flat backside of the log is parallel with the back logs of 1 & 2. Figure 13B.3

**Step 8—Log 9**
Locate the rectangular notch on the bottom-front edge of log 9. Locate the raised rectangular bump in the groove, on the left end of logs 3 & 4. The notch rests onto the bump and the left (burned out) end of the log rests against the back of the grate. The burned out area is "squared off" at the end to assist in it resting properly. There is a groove on the underside of the burned out end of the log. This groove rests over the grate tine. Figure 13B.3

**Step 9—Log 10**
Locate the oval notch on the bottom of the log. Locate the raised oval bump on the top of (left end) logs 1 & 2. The notch rests onto the bump and the burned out end of the log rests on top of the left-most grate tine and against the tall left grate tine. Figure 13B.3

---

**CAUTION:** THE PILOT MUST NOT BE COVERED BY ANY OF THE LOGS.
ATTENTION: You MUST wear gloves before handling the glass pieces. This will reduce the risk of injury if there should be any sharp edges still on the glass and to help keep finger prints off the glass pieces.

CAUTION: Take care when handling the glass pieces to avoid breakage.

14 - CML-58 LOG SET INSTALLATION

**SET UP #1: MODEL CML - 58**
Proceed to Part "A. CML REFLECTIVE FIREBOX PANEL INSTALLATION", completing each step in the installation of the mirrored firebox panels and in Part "B. CML-58 LOG SET IDENTIFICATION & INSTALLATION" for the glass log set, glass media dam/media and burning embers installation on pages 33 - 37.

**SET UP #2: MODEL CML - 58 with Optional Glass Media and CML-GLASS-WALLS**
Proceed to Part "A. CML REFLECTIVE FIREBOX PANEL INSTALLATION" on page 33 and follow each step of the installation of the mirrored firebox panels. Skip "Steps 1-6" in Part "B. CML-58 LOG SET IDENTIFICATION & INSTALLATION" on pages 34-37. Continue with Steps 7, 8 & 9 for installing the glass media dam/media and burning embers on page 37.

**SET UP #3: MODEL CML - 58 with Optional Glass Media and CML-GLASS-LOGS**
Skip Part "A. CML REFLECTIVE FIREBOX PANEL INSTALLATION" on Page 33 and go directly to Part "B. CML-58 LOG SET IDENTIFICATION & INSTALLATION", following each step in the installation of the glass log set, glass media dam/media and burning embers on pages 34-37.

**SET UP #3: MODEL CML - 58 with Optional Glass Media, CML-GLASS-LOGS and CML-GLASS-WALLS**
A. CML-58 REFLECTIVE FIREBOX PANELS INSTALLATION (Figure 14A)

ATTENTION: You MUST wear gloves before handling the glass pieces. This will reduce the risk of injury if there should be any sharp edges still on the glass and to help keep finger prints off the glass pieces.

CAUTION: Take care when handling the glass pieces to avoid breakage.

REFLECTIVE FIREBOX PANELS
1 - Left Side Panel
2 - Left, Back Panel
3 - Center Panel
4 - Right, Back Panel
5 - Right Side Panel

STEP 1
Locate the panel clips from the parts bag; there will be two side clips and one center clip.

STEP 2
Remove the two screws located 2” right and left of the exhaust baffle.

STEP 3
Remove the glass panels from the packaging by carefully cutting between the glass and the cardboard. Look at each piece, one side will return a clearer reflection than the other side. Lay them out with the reflection side up.

STEP 4
Place the left piece with the angle on it on the left side of the back firebox wall. The straight edge is towards the corner and the long edge is on top. Figure 14A. Left Back Panel #2

STEP 5
Secure with one panel clip and the two screws you removed previously.

STEP 6
Repeat steps 4 & 5 with the right panel. Figure 14A, Right Back Panel #4

STEP 7
Place the center panel into the center of the firebox back wall. The short edge is up and the shape matches the two sides panels. Figure 14A. Center Panel #3

STEP 8
Secure the center panel with the angled center clip.

STEP 9
Slide the left and right side panels tight to the center panel. Make sure the bottoms are all the way back and don’t block the air slots.

STEP 10
Take the left side panel and slide it down between the firebox sidewall and the media tray. The panel will fall down behind the media tray and that holds in place. No clips needed. Figure 14A, Left Side Panel #1

STEP 11
Repeat step 10 with right side panel. Figure 14A, Right Side Panel #5

CAUTION: Make sure that the back left, center and right panels do not block any air slots.

CAUTION: GLOVES MUST BE WORN WHILE HANDLING GLASS! Any fingerprints left on the glass will burn into the glass permanently. We recommend cleaning the glass after the first couple of burns with Rutland “White Off” Glass Cleaner to help protect the glass and help make any future glass cleaning much easier.
NOTE: Remove the glass log panels from the packaging carefully by cutting between the glass and cardboard. Use the following dimensional graphics to help identify each log and lay them out together in the 6 sets (base and top log) prior to install. The firebox side, back and center panels have been left out of the log installation photographs to help cut down on the glare. In a typical installation, they were be installed prior to the installation of the log set.

Glass Log - Set 1

Step 1:
Set 1, Logs 1 & 2
The bottom of log 1 gets inserted into slot 1 as shown in Figure 14B.1. The slot in the bottom of log 2 and the slot in the top of log 1 slide together. Orientate the points of the logs as shown in the pictures. The point of log 2 rests in the small slot near the front of the media tray. Figure 14B.2
ATTENTION: You MUST wear gloves before handling the glass pieces.

Glass Log Set 2

Log 3 - Front Left, Base
Log 4 - Front Left, Top

Step 2:
Locate Set 2, Logs 3 & 4
The bottom on log 3 gets inserted into slot 2 shown in Figure 14B.1. The slot in the bottom of the log 4 and the slot in the top of log 3 slide together. Orient the points of the logs as shown in the picture above. The point of log 4 rests in the small slot in the back return bend of the media tray. Figure 14B.3

Glass Log Set 3

Log 5 - Back Middle, Base
Log 6 - Back Middle, Top

Step 3:
Locate Set 3, Logs 5 & 6
The bottom of log 5 gets inserts into slot 3 shown in Figure 14B.1. The slot in the bottom of log 6 and the slot in the top of Log 5 slide together. Orientate the points of the logs as shown in the pictures. The point of the log 6 rests in the small slot near the front of the media tray. Figure 14B.4.
ATTENTION: You MUST wear gloves before handling the glass pieces.

Glass Set 4

Log 7 - Front Middle, Base

Log 8 - Front Middle, Top

Step 4:
Locate Set 4, Logs 7 & 8
The bottom of log 7 gets inserted into slot 4 as shown in Figure 14B.1. The slot in the bottom of log 8 and the slot in log 7 slide together. Orientate the points of the logs as shown in the picture above. The point of log 8 rests in the small slot in the back return of the media tray. Figure 14B.5

Glass Set 5

Log 9 - Back Right Middle, Base

Log 10 - Back Right Middle, Top

Step 5:
Locate Set 5, Logs 9 & 10
The bottom of log 9 gets inserted into Slot 5 as shown in Figure 14B.1. The slot in the bottom of log 10 and the slot in the top of Log 9 slide together. Orientate the points of the logs as shown in the picture above. The point of log 10 rests in the small slot near the front of the glass media tray. Figure 14B.6
Step 6: Locate Set 6, Logs 11 & 12
The bottom of log 11 gets inserted into Slot 6 as shown in Figure 14B.1. The slot in the bottom of log 12 and the slot in the top of log 11 slide together. Orientate the points of the logs as shown in the picture above. The point of the log 12 rests in the small slot near the front of the media tray. Figure 14B.7

Media Dam, Burning Embers & Glass Media

Step 7: Glass Media Dam
Locate Glass Strip #14, 2” x 43”
Carefully remove it from packaging. Install the glass strip into the firebox opening and bring it forward against the front firebox return bends. Lower the glass strip into the slot in the front of the media tray. This glass strip will keep the glass beads from falling out. Figure 14B.7

Step 8: Burning Embers, part # STL-REMB
Place dime-sized pieces of ember across the burner surface. A single layer is sufficient; do not over-apply. Figure 14B.8

Step 9: Glass Media
Carefully open the 10 lbs. bag of glass beads. Distribute the glass beads evenly across the media tray, taking care not to let the glass beads fall down by the burner or the pilot. If they do, make sure they don’t block the pilot. There are 1/2” walls around the burner, pilot, and back air slots to keep the beads out. Figure 14B.9
If the burner light bulb needs replacing:
1. Remove the decorative front of front access panel.
2. Remove the valve cover to access the area underneath the firebox.
3. Remove the wing nuts on each side of the light socket. Lower the socket straight down.
4. Wearing gloves, pull the light bulb out of the socket. Replace the light bulb with a new one of the exact type, making sure the white gasket is in place around the bulb.
5. Raise the socket and bulb straight up onto the bolts and tighten the wing nuts. DO NOT OVER-TIGHTEN.
6. Replace the valve cover, and the front. Turn the power back on.

Light bulbs specs if purchase at a hardware store:
- 120V, 35W
- Halogen, GY6.35
- Base, T3 Shape
- Low Voltage, Display Lamp

Stellar replacement parts numbers:
- Bulb #STL-676
- Red colored light filter #STL-678
A. VALVE WIRING SCHEMATIC
16 - VALVE & PILOT ASSEMBLY COMPONENTS

B. IPI PILOT ASSEMBLY

![Diagram of IPI Pilot Assembly](image)

Figure 16B

C. IPI GAS VALVE

![Diagram of IPI Gas Valve](image)

Figure 16C
17 - CONTROL MODULE COMPONENTS

A. MAIN CONTROL MODULE

- 120 VAC ADAPTER CONNECTION
- LEARN BUTTON
- WIRE HARNESS CONNECTION TO VALVE STEPPER MOTOR
- CONTINUOUS PILOT SWITCH
- REMOTE ON/OFF SWITCH
- PILOT SENSOR CONNECTION
- PILOT IGNITOR CONNECTION

B. EXTENSION MODULE, BATTERY BACK-UP & AC ADAPTOR

- 120 VAC ADAPTER
- BATTERY PACK
- FAN PLUG-IN RECEPTACLE
- WIRE HARNESS CONNECTION TO EXTENSION MODULE
- TO THE LIGHT (IF EQUIPPED)
A. REMOTE ICON IDENTIFICATION

Figure 18A

B. REMOTE CONTROL INFORMATION

ELECTRICAL WARNING AND INFORMATION:
Electrical wiring must be installed by a licensed electrician.
• Do NOT wire 110V to wall switch.
• Uninterrupted or continuous power is required at all times in IPI systems EXCEPT when using battery back-up.
• Incorrect wiring will override IPI safety lockout and may cause an explosion.
• Disconnect 110V before servicing

A double receptacle box cover and (3) wire nuts are supplied in fireplace components packet to be used when hardwiring to electrical box located under firebox on right side of fireplace.

ATTENTION: THIS SYSTEM GOES THROUGH A CALIBRATION MODE WHEN SWITCHING FROM ‘ON’ TO ‘THERMO’ TO ‘OFF’ MODES, CREATING A HUMMING SOUND WHICH IS A NORMAL PART OF OPERATION.
C. CONTINUOUS PILOT - FOR VERY COLD CONDITIONS

The IPI gas control system has the option of a continuous (standing) pilot feature. This allows you to change from a spark-to-pilot system to a standing pilot system during cold weather conditions. By having the pilot on continuously, the firebox will remain warm and a draft is established in the vent, allowing the main burner to turn on with less air-flow disruption.

When continuous pilot mode is activated, the pilot will spark and light. When fireplace is turned OFF, the pilot will remain lit when main burner has been turned OFF.

This pilot feature can be activated or de-activated by the hand held remote control transmitter or the switch on the module. Instructions on following page.

D. OPERATION USING BATTERY POWER

This fireplace has an optional battery operation if electrical power is lost. Position battery pack with four “AA” size batteries installed between valve and front of fireplace. This is the coolest location under firebox, ensuring longer battery life.

NOTE: When operating fireplace in this capacity, the only function available is flame modulation.

E. MATCHING SECURITY CODES

Before matching security codes make sure 120V AC is connected and powered to fireplace, and hand held remote control is installed with (2) batteries.

It may be necessary to program main control module to LEARN the security code of the hand held remote control upon initial use, if batteries are replaced, or if a replacement remote control is purchased from your dealer.

1. When matching security codes, be sure slide button on main control module is in REMOTE; the code will not “LEARN” if slide is in OFF.

2. Program main control module to LEARN a new security code by pushing in LEARN button on main control module using a pencil point for 2 seconds and let go (you should hear a series of ‘beeps’ letting you know module is ready to learn a new code).

3. Immediately press MODE button on hand held remote control (you should hear four ‘beeps’ in rapid succession in main control module, indicating remote control’s code has been programmed into the main control module). When an existing main control module is introduced to a new hand held remote control, the new security code will overwrite the old one. If it ever becomes necessary to clear the memory from the hand held remote control, simply push and hold the LEARN button for 10 seconds (you should hear three long beeps in succession). You may now follow steps outlined above to ‘RE-LEARN’ security codes.
18 - REMOTE CONTROL OPERATION

F. INITIAL SET-UP

Plug Extension Module and AC Adaptor into receptacles.

Install (4) AA batteries into battery compartment of Backup Battery Pack, making sure batteries are installed in proper direction. Position between valve and front of stove. A Velcro strip has been attached to help secure in place.

The Hand Held Remote operates on (2) AAA batteries. We recommend always using ALKALINE batteries to extend battery life and improve operational performance.

NOTE: This system is sent to you set up for Natural Gas and temperature units readable in Fahrenheit.

This system allows for gas type conversion and temperature unit conversion by following the setup procedure outlined below.

G. GAS TYPE CONVERSION

Press and hold Learn Button on Main Control Module for 20 seconds. A beep will be heard letting you know the procedure has been completed.

- If converting from NAT to LP gas: (1) one second long beep
- If converting from LP to Nat gas: (3) three second long beep

Continue with gas type conversion by following instructions included with gas conversion kit.

H. CELSIUS/FAHRENHEIT CONVERSION

Press UP and DOWN keys simultaneously to choose Celsius or Fahrenheit.

I. IMPORTANT SAFETY FEATURE

This system has a maximum room temperature limit of 95° F (35° C) in both manual and thermostat modes. When room temperature is at or above this point the system will shut down and the hand held remote control will read OFF. If you turn the system ON when room temperature is still at or above this temperature, the system will again shutdown after 2 minutes when room temperature is recalculated.

J. CONTINUOUS PILOT FEATURE

Activation of this optional feature is accomplished by pressing the PILOT button once. The continuous pilot icon will appear on the LCD screen. Pressing PILOT button again will de-activate this feature.

This feature can also be activated via CONTINUOUS PILOT switch on Main Control Module.

K. CHILDPROOF FEATURE

Activation of this optional feature is accomplished by pushing SET & UP buttons simultaneously for 5 seconds. The childproof icon will appear on the screen. When a transmitter button is pressed the icon will flash on screen, but no signal will be transmitted. Pressing and holding these same two buttons again for more than 5 seconds will de-activate this function.

This feature controls only manual functions of the hand held remote, automatic functions (thermostat mode) will not be affected.
18 - REMOTE RECEIVER INFORMATION

L. MANUAL MODE

This remote can be manually or thermostatically operated.

Press MODE button for manual ON. The flame icon will appear on the LCD screen. Press MODE button again to put the control into THERMO mode. Pressing MODE again will turn fireplace OFF.

**NOTE:** The MODE button operates in a series that will cycle from ON to THERMO to OFF.

![Figure 18L](image)

M. FAN MODE

This remote will operate the fan, allowing for (6) different speed levels. When the FAN button is pressed, FAN level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired fan speed level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

**NOTE:** Delayed ON/OFF - The fan will not turn on until fireplace has been burning for 5 minutes and will not turn off for 12 minutes after fireplace has been turned off.

**EXCEPTION:** If fireplace is turned back on during 12 minute off-delay time frame, the fan will remain on. This applies to MANUAL and THERMO modes.

![Figure 18M](image)

N. LIGHTING MODE

This remote will operate the lights, allowing for (6) different light levels. When LIGHT button is pressed, LIGHT level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired light level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

**NOTE:** Fireplace does not have to be burning to operate the lights.

![Figure 18N](image)
O. FLAME MODE

This remote will operate the flame, allowing for (6) different flame height levels. When MAIN FLAME button is pressed, FLAME level setting will flash on the LCD screen. Press UP or DOWN buttons to select desired flame level. If no adjustment is made within 7 seconds, the control will exit function setting mode and LCD display will return to normal view.

NOTE: The fireplace will initially light at the highest level. After 5 seconds the flame will adjust to last chosen level before fireplace was turned OFF.

This applies to MANUAL and THERMO modes.

P. THERMO (THERMOSTATE) MODE

This remote feature allows you to thermostatically control the fireplace when hand held remote is set to THERMO mode.

Set Temperature Range: 45˚F (7˚C) to 90˚F (32˚C).

Set remote to THERMO mode by pressing MODE button. The smaller SET window of numbers appears on the LCD screen. The first SET number will read 45˚F. Press UP button to desired set room temperature. Within 5 seconds fireplace will operate to that Set Temperature. The FLAME, ON and THERMO icons will appear on the LCD screen. By pressing UP or DOWN buttons a new set temperature may be attained.

SET Temperature will only appear when THERMOSTAT MODE is activated, but is implemented in all MODES with the exception of MANUAL MODE.

NOTE: The flame height can adjust up to (6) different height levels according to amount of heat required. This range however is dictated by the Flame Level setting (see previous page). When desired temperature is met, the fireplace will shut off until more heat is required.

To exit THERMO mode press the MODE button. This also shuts fireplace OFF.

IMPORTANT: When in THERMO mode the fireplace will not turn on until room temperature falls below SET TEMPERATURE.

Q. SYSTEM OPERATION WITHOUT HANDHELD REMOTE

This system is designed to operate with the hand held remote or a thermostat, but in the unlikely event that it is required to be operated without the hand held remote or a thermostat, follow this simple procedure.

Slide REMOTE /OFF switch on main control module to OFF. The fireplace can now be lit and shut off by use of the ON/OFF rocker switch located next to the module.

NOTE: When operating fireplace in this capacity, the only function available is burner operation on HI.
19 - 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 RESULT, CAUSING PROPERTY DAMAGE, PERSONAL INJURY OR LOSS OF LIFE.

WARNING: 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.

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.

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 LONGEVITY OF THE FIREPLACE.
A. LIGHTING

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

ATTENTION: 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 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.

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

NOTE: 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.
**NOTE:** When operating fireplace in this capacity, the only function available is burner operation on HI.

**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.

**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).

### 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.

**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

![Diagram of Pressure Screw Location](image)
21 - ERROR CODES

A. IGNITION SAFETY: Protection for Ignition System

Error Code: One beep every one second.
Description of Fault: Warns users if pilot is not successfully ignited in 60 seconds.
How to Clear: Press MODE button to OFF then to ON to re-attempt ignition.
What to Check:
• Ensure gas supply is turned on.
• Ensure black cap leads marked “PILOT” from module are plugged into “PILOT” connection on valve body.
• Verify lead from igniter on pilot assembly is connected to “I” terminal on main control module. (Clicking sound will also be heard).
• Verify lead from flame sensor on pilot assembly is connected to “S” terminal on main control module. (Pilot will light but main burner will not. Pilot will extinguish after 60 seconds and error code will alarm).
• Verify black ground lead is connected to tab extending from valve bracket.

B. SENSOR SAFETY: Protection for Flame Sensor

Error Code: Four beeps every one second.
Description of Fault: Warns users pilot flame sensor detects a pilot flame already present when ignition sequence is initiated. This fault will also occur if pilot flame sensor on main control module is shorted to ground.
How to Clear: Press MODE button to OFF then to ON to re-attempt ignition.
What to Check:
• Check if pilot flame is actually present when valve is turned OFF (if yes, replace valve).
• Replace pilot assembly.
• Replace module.
• Verify black ground lead is connected to tab extending from valve bracket.

C. THERMAL SAFETY: Overheat Protection

Error Code: Four beeps every two seconds.
Description of Fault: Warns users that module’s internal temperatures have exceeded 170˚ F (77˚C).
How to Clear: Module’s internal temperatures must cool to below 160˚F (71˚C) and then press ON button.
What to Check:
• Are modules located in an unapproved location. Move to cooler location.

D. COMMUNICATION SAFETY: Protection for Ignition System

Error Code: One beep every four seconds.
Description of Fault: Warns users the hand held remote and main control module are not communicating properly. This safety feature is active in both manual and thermo modes. The remote control sends a communication safety signal every 15 minutes. If the main control module does not receive this signal, it begins a 2-hour countdown. If no communication safety signal is received at the end of this countdown, the system will enter communication safety shutdown which turns system OFF and emits the error code.
What to Check:
• Verify batteries in hand held remote control are new.
• Ensure remote control is located within 20 ft. (6 m) of main control module.
• Ensure remote control is not placed directly on top of or inside a metal enclosure as this can interfere with transmission.
22 - 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>BURNER</th>
<th>NATURAL GAS</th>
<th>LP GAS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1/4&quot; (6.5mm) OPEN</td>
<td>3/8&quot; (9.5 mm) 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>

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

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.

D. TO ADJUST BURNER VENTURI:

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

1. Loosen the shutter wing nut (located under the firebox).
2. Sliding the shutter right opens the venturi. Sliding the shutter left closes the venturi.
3. Re-tighten the shutter nut.
4. Light fireplace and wait 15 minutes before determining if any further adjustments are needed.

Figure 22A

Air shutter wing nut located under the firebox.
22 - FINALIZING THE INSTALLATION

E. RESTRICTOR USAGE

- Turn fireplace on and allow to burn for 15 minutes.
- If flames indicate there is excessive draft (flickering, short flames), a restrictor may be necessary.
- If flames indicate insufficient draft (lifting or ghosting flames), a previously installed restrictor may need to be modified or removed.

**WARNING:** TO AVOID PROPERTY DAMAGE OR PERSONAL INJURY, ALLOW FIREPLACE AMPLE TIME TO COOL BEFORE MAKING ANY ADJUSTMENTS AND / OR INSTALLATIONS.

F. RESTRICTOR TROUBLESHOOTING

<table>
<thead>
<tr>
<th>FLAME APPEARANCE</th>
<th>DRAFT PROBLEMS</th>
<th>RESTRICTOR SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short, flickering</td>
<td>Excessive draft - not enough restriction</td>
<td>ADD restrictor</td>
</tr>
<tr>
<td>Lifting or ghosting*</td>
<td>Insufficient draft - too much restriction</td>
<td>REMOVE restrictor</td>
</tr>
</tbody>
</table>

* Improper venting installation may cause flames to lift or "ghost" - a dangerous situation. Inspect flames after installation to ensure proper performance. If determined that venting is correct, and the restrictor has been removed, yet flames are still lifting or ghosting, shut off gas supply to fireplace and call a qualified service technician.

G. RESTRICTOR INSTALLATION/MODIFICATION (AFTER TERMINATION COMPLETED)

**NOTE:** Do not installation the restrictor if vertical vent run is under 10'.

If it is determined that a restrictor is needed after termination is installed, access can be reached through the fireplace front.
1. Remove the front (or mesh) and glass.
2. Depending on your specific needs, determined by the chart above along with other factors, make necessary modifications.
3. If installation of a restrictor (included in fireplace components packet) is necessary, attach the round metal piece to the firebox top, over the flue. Line the 8 notches up with the 8 screw tips and line the 2 holes in the restrictor up with the holes in the firebox top. Attach with 2 screws. Attach glass frame assembly and light fireplace.
4. Wait 15 minutes before determining if any further modifications are necessary.

**NOTE:** If mounting holes do not line up, flip restrictor over.

---

Figure 22G
23 - 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.

NOTE: INSTALLATION AND REPAIR SHOULD BE DONE ONLY BY QUALIFIED SERVICE PERSON. THE APPLIANCE SHOULD BE INSPECTED BEFORE USE AND ANNUALLY BY A QUALIFIED SERVICE PERSON. 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.

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: 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. MAIN CONTROL MODULE WILL NOT LEARN TRANSMITTER

- Ensure REMOTE/OFF switch on side of main control module is set to REMOTE.
- Make sure batteries in both the hand held remote and backup battery pack are installed in the proper direction and are not drained.
- Verify hand held remote indicates a signal is being sent. The LCD display should indicate ON or OFF depending on which button is being pressed. The LED indicator should illuminate on wall transmitters and on/off transmitters. Buttons should be pressed and held for 1 to 2 seconds to ensure a complete signal is sent.
- Ensure 4-pin lead-set is securely connected from battery pack to main control module’s AUX connection. If the A/C adapter is used, check that leads from adapter are securely connected to POWER terminals on main control module.
- Press and hold LEARN button on main control module for approximately 10 seconds to clear memory (you should hear a series of beeps from the receiver), immediately press either the ON or OFF button on hand held remote (you should hear a series of beeps indicating the transmitter code has been learned).

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 above).
- Ensure black lead from pilot assembly igniter is securely connected to terminal labeled “I” and red lead from flame rectification sensor is securely connected terminal labeled “S” on main control module.
- Ensure black cap leads marked “PILOT” from main control module are securely connected to terminals labeled “PILOT” on valve body.
- Ensure black GROUND wire is securely connected to tab located next to the valve. A proper ground is essential to spark igniter operation.
- Make sure pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
- Holding the remote control transmitter, press and hold simultaneously the “Main Flame” and “Up” buttons on the transmitter to temporarily light the pilot flame. Keep holding these buttons for up to 30 seconds to dry off the pilot sensor (extreme humidity situation). When the buttons are released, the system will return to the “Off” setting. Start-up replace as usual.
- Check continuity of pilot on valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

C. PILOT FLAME ALWAYS ON /WILL NOT EXTINGUISH

- Ensure continuous pilot icon is not present in LCD screen. If icon is present, press PILOT button. This will de-activate the continuous pilot feature and the icon will disappear from LCD screen.

D. PILOT BURNING BUT IGNITOR CONTINUES TO SPARK

- Check that flame sensor is fully impinged by pilot flame. If needed, adjust pilot.
- Check end-to-end continuity of sensor. If sensor has continuity, replace module.
- Clean flame sensor with a piece of emery cloth.
24 - TROUBLESHOOTING

E. MAIN FLAME WILL NOT LIGHT

• Verify gas supply is turned on.
• Ensure pilot flame will ignite. If not, see pilot flame troubleshooting on previous page.
• Make sure white cap leads marked “MAIN” from module are securely connected to terminals marked “MAIN” on valve body.
• Make certain pilot flame is in contact with flame rectification sensor on pilot assembly. This valve is equipped with a pilot flame adjustment screw. If pilot flame is too small it will not contact flame rectification sensor and will not complete the safety circuit.
• Ensure pilot flame is properly located to ignite main flame.
• Does hand held remote show CP in the display? If yes, childproof is on. De-activate by pushing SET UP keys at same time for more than 5 seconds.
• Check continuity of main burner coil on gas valve. Remove wire connector. If there is no continuity on pin terminals, replace valve.

F. FLAME HEIGHT ADJUSTMENTS NOT WORKING/WORKS BACKWARDS

• Check functionality with all transmitters to determine if there is an issue with the main control system or an individual transmitter.
  If the issue is with an individual transmitter, make sure batteries in hand held remote and backup battery pack are installed properly and are not drained.

G. ROOM TEMP. DISPLAYED ON HANDHELD REMOTE NOT CORRECT

• Ensure transmitter was not recently stored in a different location (air-conditioned, heated) from that in which the hand held remote was tested. It may take up to 3 hours for the temperature inside a packaged transmitter, and several minutes for an unpackaged transmitter, to equalize with room temperature.

H. FIREPLACE WILL NOT RESPOND IN "THERMO" MODE

• Ensure hand held remote is within 20 ft. (6.096 m) operational range.
• Make sure an ON or OFF command was not last sent from another transmitter. These commands will override thermal commands from the handheld remote control. To return system to THERMO mode, press either ON or OFF on hand held remote, then press MODE button to put system in THERMO mode. Press and hold SET button to change set temperature.
• Verify set temperature on hand held remote is at least 2˚F (1˚C) above or below room temperature. The system will not react to temperatures within 2˚F (1˚C) of set temperature.
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.

WARNING: SHUT OFF GAS SUPPLY AND ELECTRICAL POWER TO FIREPLACE. SHUT OFF GAS SUPPLY BEFORE DISCONNECTING ELECTRICAL POWER.

Kit Includes:
(1) Gas Conversion Label  (1) Pilot Orifice LP  (1) Gas Label  (1) Burner Orifice LP #45  (1) Low Limit Screw #48

A. PREPARE THE FIREPLACE:
1. Remove the front and glass assembly*.
2. Remove logs (CTL-58) or glass panels (CML-58) from fireplace*. Remove the glass bead media.
3. Remove the log tray (CTL-58) or glass media tray (CML-58)
4. Remove the left burner leg and remove the burner.

B. CONVERT PILOT ASSEMBLY
1. Locate the pilot nut (under the fireplace floor) and loosen the nut. (Figure 3)
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 in the kit.
4. Tighten the nut snugly — DO NOT OVERTIGHTEN

C. REPLACE BURNER ORIFICE
Remove existing orifice and replace with orifice included with kit. Tighten securely.

Figure 25A
D. GAS TYPE CONVERSION

Press and hold the LEARN BUTTON on Main Control Module for 20 seconds. A beep will be heard letting you know the procedure has been completed.

If converting from NAT to LP gas: one (1) second long beep.

If converting from LP to NAT gas: three (3) seconds long beep.

E. CONVERT GAS CONTROL VALVE:

1. Remove black cap covering the pressure regulator, or unscrew the aluminum cap.
2. Press down on pressure regulator tube and rotate 90°. The shaft will pop out and point to chosen gas type. Re-attach black cap. (Figure 24E.1)
3. Remove existing low limit screw (located above valve motor (Figure 24F). Replace with one included in kit.

F. COMPLETE THE CONVERSION

1. Adjust burner venturi setting by loosening nut, sliding shutter and retightening nut.
   CORRECT SETTINGS: NAT. : 1/4" (6 mm) open    L.P. : 3/8" (10 mm) open
   Note: Venturi may need further adjustment, depending on your venting configuration.
   See page 48 for “Adjusting Burner Venturi”.
2. Re-install burner assembly into fireplace, checking to ensure burner end is properly seated on burner orifices. Install the left burner leg.
3. Extinguish the fireplace.
4. Re-install the log tray (CTL-58) or glass media tray (CML-58).
5. Re-install logs (CTL-58) or glass panels and glass bead media (CML-58). Pages 30-34.
6. Turn on gas and electrical supplies.
7. Light fireplace*. Check for leaks at all connections with a soapy leak-check solution, whether field or factory made.
8. Test inlet pressure*. Page 46.
9. Visually check pilot flame. Flame should envelope top of flame sensor and extend onto burner far enough for proper ignition.
   To Adjust Pilot: Turn pilot adjustment screw clockwise to decrease or counter-clockwise to increase pilot flame.
10. Turn fireplace off.
11. Affix gas type sticker to existing label.
12. Reinstall glass frame assembly and front. Page 16
G TESTING FOR LEAKS

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 19J). 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.

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

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

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 NOTICE: 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.

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.

H. INLET PRESSURE TEST

WARNING: A LOW PRESSURE READING CAN CAUSE DELAYED IGNITION.

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.
7. Re-attach manometer to inlet pressure tap to verify that it is completely sealed.
8. Manometer should read no pressure.

Figure 25H
## 26 - REPLACEMENT PARTS

### CONTROL BOARD SYSTEM AND COMPONENT PARTS

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CML-600-IPI</td>
<td>CML-58 IPI BOARD</td>
</tr>
<tr>
<td>CTL-600-IPI</td>
<td>CTL-58 IPI BOARD</td>
</tr>
<tr>
<td>STL-400-CSL</td>
<td>MAIN CONTROL MODULE</td>
</tr>
<tr>
<td>STL-199</td>
<td>PILOT ASSEMBLY - NG</td>
</tr>
<tr>
<td>STL-199-1</td>
<td>PILOT ASSEMBLY - LP</td>
</tr>
<tr>
<td>STL-800</td>
<td>8-PIN WIRE HARNESS: PRIMARY</td>
</tr>
<tr>
<td>STL-500</td>
<td>5-PIN WIRE HARNESS: MAIN MODULE TO VALVE STEP MOTOR</td>
</tr>
<tr>
<td>STL-120</td>
<td>EXTENSION MODULE</td>
</tr>
<tr>
<td>STL-401</td>
<td>4-PIN WIRE HARNESS: CONTROL MODULE TO EXTENSION MODULE</td>
</tr>
<tr>
<td>STL-750</td>
<td>7.5 VOLT ADAPTOR</td>
</tr>
<tr>
<td>STL-208</td>
<td>IPI REMOTE CONTROL</td>
</tr>
<tr>
<td>STL-751</td>
<td>BATTERY BACK-UP WITH (4) AA BATTERIES</td>
</tr>
<tr>
<td>STL-203</td>
<td>MANUAL SHUT-OFF VALVE</td>
</tr>
<tr>
<td>STL-213</td>
<td>18” FLEXIBLE GAS LINE - BLACK</td>
</tr>
<tr>
<td>STL-226</td>
<td>FLEXIBLE GAS LINE - VALVE TO BURNER CONNECTION</td>
</tr>
<tr>
<td>STL-?</td>
<td>BURNER ORIFICE - #32 - NG</td>
</tr>
<tr>
<td>STL-268</td>
<td>BURNER ORIFICE - #51 - LP</td>
</tr>
<tr>
<td>LPC-CXL</td>
<td>NG TO LP CONVERSION KIT</td>
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<tr>
<td>STL-CTL58-BNR</td>
<td>CTL BURNER ASSEMBLY</td>
</tr>
<tr>
<td>STL-CML58-BNR</td>
<td>CML BURNER ASSEMBLY</td>
</tr>
<tr>
<td>STL-160</td>
<td>FAN KIT ASSEMBLY</td>
</tr>
</tbody>
</table>

### GLASS PANEL ASSEMBLY & GASKET

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>SLT-900-006</td>
<td>1-1/8&quot; GLASS GASKET W/ ADHESIVE</td>
</tr>
<tr>
<td>STL-1641</td>
<td>16-1/2&quot; X 41&quot; GLASS PANEL ASSEMBLY</td>
</tr>
</tbody>
</table>

### GLASS MEDIA - 12 LBS BAG

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>DESCRIPTIONS</th>
<th>CML-58 GLASS FIREBOX LINER PANELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG-H2</td>
<td>H2O CLEAR</td>
<td>STL-CML-PNL COMPLETE FIREBOX LINER PANEL SET</td>
</tr>
<tr>
<td>LG-MR</td>
<td>LIQUID MERCURY</td>
<td>STL-CML-PNLL LEFT SIDE</td>
</tr>
<tr>
<td>LG-TQ</td>
<td>TEQUILA</td>
<td>STL-CML-PNLLB LEFT SIDE, BACK</td>
</tr>
</tbody>
</table>

* Consult your dealer information on optional accessories available for this fireplace.

This appliance tested & certified by:
Underwriters Laboratories, Northbrook, IL

Stellar Hearth Products
14351 Ewing Avenue S
Burnsville, MN 55306
(P) 952.224.4072

www.stellarhearth.com
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.