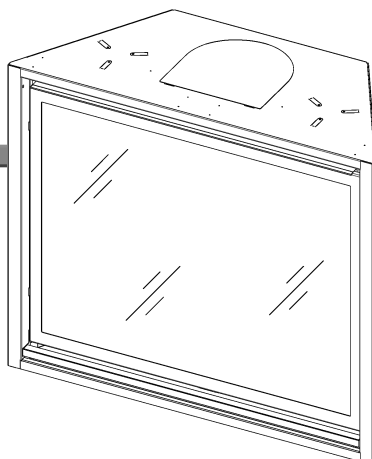


BAYPORT-41-L

INSTALLATION AND OPERATION MANUAL

MODEL #BAY-41-L

Report No. 216-F-41b-6.5




KOZY HEAT
FIREPLACES
HUSSONG MFG. CO., INC.

Tested &
Listed By  Portland
Oregon USA
OMNI-Test Laboratories, Inc.

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 gas supplier from a neighbors phone. Follow the gas supplier 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.

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 home (USA only) or mobile home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases, unless a certified kit is used.

English and French installation manuals available through your local dealer, or visit our website www.kozyheat.com



We recommend that our gas hearth products be installed and serviced by professionals who are certified in the U.S. by the National Fireplace Institute® (NFI) as NFI Gas Specialists.



WARNING



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

A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.

Read this manual before installing or operating this appliance.
Please retain this owner's manual for future reference.

CONGRATULATIONS!

We welcome you as a new owner of a Kozy Heat gas fireplace. Kozy Heat products are designed with superior components and materials; assembled by trained craftsmen who take pride in their work. The burner and valve assembly are 100% test-fired, and the complete fireplace is thoroughly inspected before packaging to ensure you receive a quality product. Our commitment to quality and customer satisfaction has remained the same for over 30 years. We offer a complete line of gas and wood fireplaces, unique cabinets and stylish accessories to complement any décor. Adding a fireplace is one of the best ways to increase the value of your home, and we are proud to offer a network of dealers throughout the country to help make your experience everything you imagine. We pride ourselves in being dedicated not only to functionality and reliability, but also customer safety. We offer our continual support and guidance to help you achieve the maximum benefit and enjoyment from your Kozy Heat gas fireplace.

Jim Hussong
President



Dudley Hussong
Board Chairman



Homeowner Reference Information

We recommend you record the following information:

Model Name: _____ Date purchased/installed: _____

Serial Number: _____ Location on fireplace: _____

Dealership purchased from: _____ Dealer Phone: _____

Notes: _____

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R.06

R.(# of revision) and a straight line indicates updated information.

1.0 INTRODUCTION

1.1 Appliance Certification

This appliance has been tested by OMNI-Test Laboratories located in Portland, Oregon and complies with:

ANSI Z21.88a-2012/CSA 2.33a-2012, "Vented Gas Fireplace Heaters"
CGA 2.17-M91 (R2009), "Gas-Fired Appliances for Use at High Altitudes"
CSA P.4.1-2009, "Testing Method for Measuring Annual Fireplace Efficiency"

This installation must conform with local codes, or in the absence of local codes, with the *National Fuel Gas Code, ANSI Z223.1/NFPA 54*, or the *Natural Gas and Propane Installation Code, CSA B149.1*.

1.2 Safety Information

- 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 placed on or near the appliance.
- Adequate accessibility clearances for servicing and proper operation must be maintained.
- This appliance must not share, or be connected, to a chimney flue serving any other appliance.
- Keep area around the appliance clear of combustible materials, gasoline, and other flammable vapor and liquids.
- The flow of combustion and ventilation air must not be obstructed.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- The glass front, or any part removed for servicing the appliance, must be replaced prior to operating the appliance. Work should be done by a qualified service technician.
- Clean glass only when cool and only with non-abrasive cleansers.
- **WARNING: DO NOT OPERATE APPLIANCE WITH THE GLASS/FRAME ASSEMBLY REMOVED, CRACKED, OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.**
- The glass assembly, Part #B41-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc. DO NOT SUBSTITUTE MATERIALS.
- Do not strike or slam glass assembly.
- A safety barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed.
- Any safety screen, guard, or barrier removed for servicing the appliance must be replaced prior to operating the appliance.
- If the safety barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.
- For use only with the following safety barriers: part numbers #B41-BSF, #B41-FRSF, #B41-FRSF-BS, #B41-PSF, #B41-RSF, #B41A-MSF, #B41R-CSF, or #B41R-MSF.
- Under no circumstances should any solid fuel (wood, coal, paper, 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.

1.3 Commonwealth of Massachusetts Requirements

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:

1.3.1 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.

1.3.2 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.

1.3.3 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 than one-half inch (1/2) in size, **"GAS VENT DIRECTLY BELOW. KEEP CLEAR OF ALL OBSTRUCTIONS"**.

1.3.4 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.

1.3.5 Exemptions

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

1.3.6 Manufacturer Requirements

Gas Equipment Venting System Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment provides a venting system design or venting system components with the equipment, the instructions provided by the manufacturer for installation of the equipment and the venting system shall include:

- Detailed instructions for the installation of the venting system design or the venting system components; and
- A complete parts list for the venting system design or venting system.

Gas Equipment Venting System Not Provided

When the manufacturer of Product Approved side wall horizontally vented gas equipment does not provide the parts for venting the flue gases, but identifies "special venting systems", the following requirements shall be satisfied by the manufacturer:

- The referenced "special venting systems" instructions shall be included with the appliance or equipment installation instructions and;
- The "special venting systems" shall be Product Approved by the Board, and the instructions for that system shall include a parts list and detailed installation instructions.

A copy of all installation instructions for all Product Approved side wall horizontally vented gas fueled equipment, all venting instructions, all parts lists for venting instructions, and/or all venting design instructions shall remain with the appliance or equipment at the completion of the installation.

1.4 Installation Overview

NOTE

The qualified installer should follow the procedure best suited for the installation.

1. Frame an opening for the fireplace, allowing for vent installation (top or rear) and type of installation (corner or flat wall application). Refer 3.0, Framing and Clearances, 8.0, Venting, and 4.0, Typical Installation Options.
2. If masonry (optional) is used, prepare foundation for the masonry load. A lintel is required to support the added weight above fireplace.
3. Attach stand-off brackets and nailing flanges to fireplace. Refer to 3.2, Stand-off Assembly and Installation, and 3.3, Nailing Flange Assembly and Installation.
4. Insert fireplace into framing.
5. Install hearth (if applicable). Refer to 3.5, Hearth Information.
6. Complete gas line installation. Refer to 6.0, Gas Line Connection.
7. Complete electrical hook-up. Install any standard or optional electrical components at this time. Refer to 7.0, Wiring Schematics, and 10.0, Fireplace Set Up.
8. Complete venting installation. Refer to 8.0, Venting.
9. Secure fireplace to flooring through holes 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 safety barrier. Refer to 5.0, Facing and Finishing.
11. Install optional refractory / enamel panels if desired.
12. Install logs. Refer to 10.2, # B41-500 Log Set Installation..
13. Install glass assembly. Refer to 10.1, Glass Frame Assembly.
14. Install safety barrier. Refer to 5.2, Safety Barriers.
15. Verify proper operation of fireplace and all components. Refer to 11.0, Control System, and 13.0, Finalizing the Installation.

2.0 SPECIFICATIONS

2.1 Components List

| PART NUMBER | DESCRIPTION |
|-------------|---------------------------|
| B41L-150 | Control Board Assembly |
| 700-203 | Manual Gas Shut-off Valve |
| B41L-135 | Burner Assembly |
| B41L-500 | Log Package |
| B41-057T | Glass Frame Assembly |
| IPI-028 | Fan Kit (2)-75 CFM |
| 700-408 | Remote Control |

2.2 BTU Specifications

| BAY-41-L | | | |
|-------------|----------------------------|----------------------------|--------------|
| Fuel | Minimum Input BTU/hr. (kW) | Maximum Input BTU/hr. (kW) | Orifice Size |
| Natural Gas | 15,000 BTU/hr (4.4 kW) | 27,000 BTU/hr (7.9 kW) | #42 |
| LP Gas | 13,500 BTU/hr (3.96 kW) | 27,000 BTU/hr (7.9 kW) | #53 |

2.3 High Altitude Installations

| ATTENTION |
|---|
| USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state the sea level rated input of Gas Designed Appliances installed at elevations above 2,000 ft. (610 m) is to be reduced 4% for each 1,000 ft. (305 m) above sea level. Refer also to National Fuel Gas Code, ANSI Z223.1 / NFPA 54, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines. |
| Canada: When the appliance is installed at elevations above 4,500 ft. (1,372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1,000 ft. (305 m). Refer also to CSA-B149.1 Natural Gas and Propane Installation Code, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines. |

2.4 Electrical Specifications

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

The IFC Control System Module requires 120V of electricity / batteries to operate. Using the battery back-up will operate the burner only. Optional fan and light components will not function on battery back-up power. Refer to 7.0, Wiring Schematics, on page 18 for a complete electrical diagram.

2.5 Gas Information

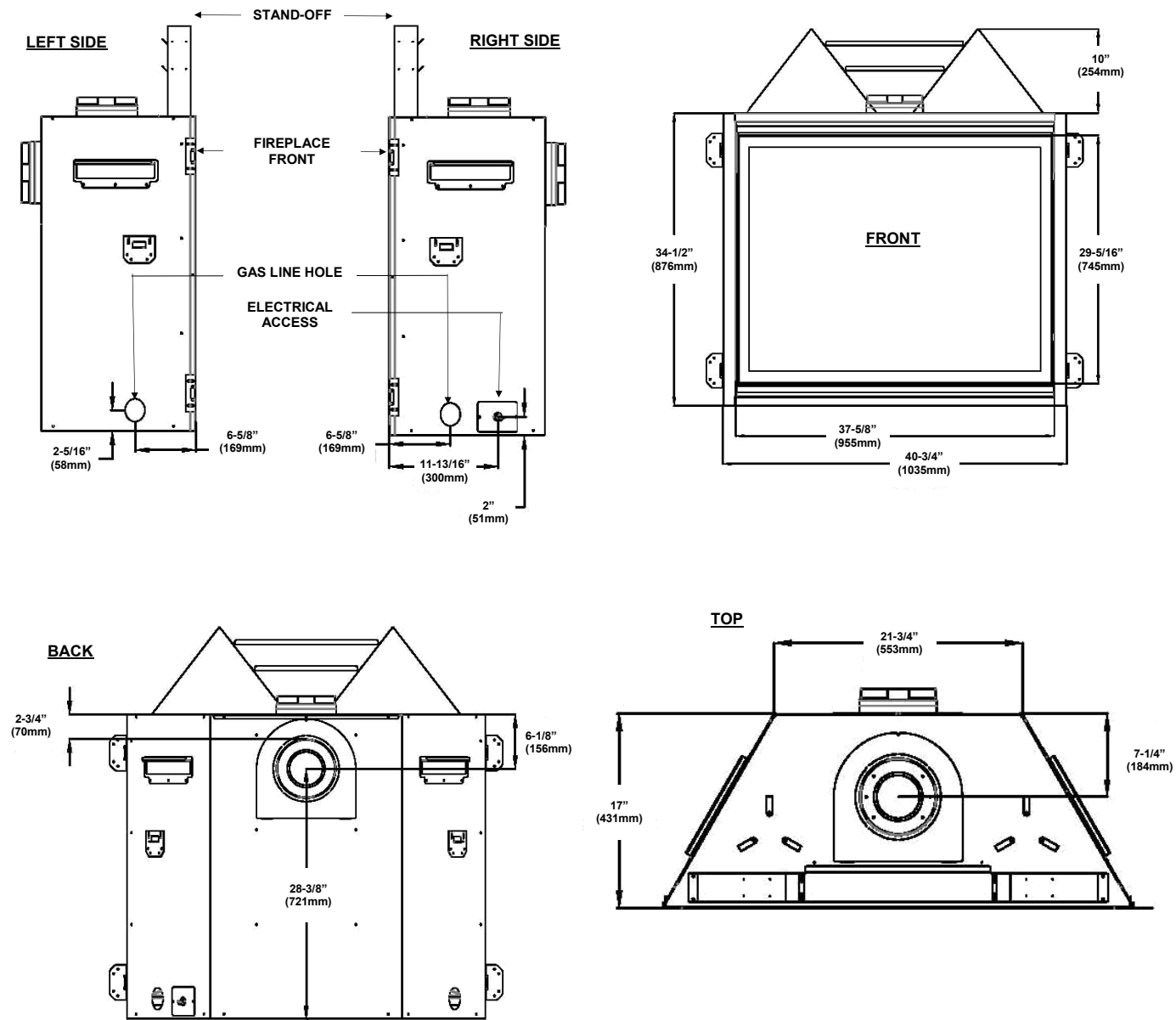
| BAY-41-L | | | | |
|-------------|--|----------------------------|--------------------------|-------------------------|
| Fuel | Minimum Inlet Gas Pressure | Maximum Inlet Gas Pressure | Manifold Pressure (High) | Manifold Pressure (Low) |
| Natural Gas | 5" WC (1.25 kPa) (7" WC [1.74 kPa] recommended) | 10.5" WC (2.62 kPa) | 3.8" WC (.95 kPa) | 1.1" WC (.27 kPa) |
| LP Gas | 12" WC (2.99 kPa) (recommended) | 13" WC (3.24 kPa) | 11" WC (2.74 kPa) | 2.9" WC (.72 kPa) |

2.6 Appliance Dimensions

| WARNING | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|
| All stand-off brackets must be attached to fireplace. Do not remove. Top stand-off brackets are not load bearing. | | | | | | | | | | | |
| All clearances must be maintained as outlined in this manual. Other clearances apply. | | | | | | | | | | | |

| Table 2.1 Physical Dimensions | | | | | | | | | | | |
|-------------------------------|--------|--------|------------|-------|---------------|----------------|------------------|---------------------------------|---------------------------|-------------------------|---------------------------|
| Description | Height | Width | Back Width | Depth | Opening Width | Opening Height | Stand-off Height | Unit Top to Center of Back Vent | Unit Top to Back Vent Top | Back to Top Vent Center | Floor to Rear Vent Center |
| Inches | 34-1/2 | 40-3/4 | 21-3/4 | 17 | 37-5/8 | 29-5/16 | 10 | 6-1/8 | 2-3/4 | 7-1/4 | 28-3/8 |
| Millimeters | 876 | 1035 | 553 | 431 | 955 | 745 | 254 | 156 | 70 | 184 | 721 |

Figure 2.1, Appliance Dimensions



3.0 FRAMING AND CLEARANCES

3.1 Appliance Location and Installation

Table 3.1, Minimum Placement Clearances

| | | |
|-------------------------------------|--------|--------|
| To flooring | 0 in. | 0 mm |
| Appliance top to ceiling | 31 in. | 787 mm |
| Appliance side to adjacent sidewall | 1 in. | 25 mm |
| Appliance front to combustibles | 36 in. | 914 mm |

- This fireplace must be installed on a level surface capable of supporting the fireplace and venting.
- Determine the exact position of your fireplace, including hearth height, width, and depth. If possible, place the fireplace in such a manner that the vent termination will be placed between two studs, thus eliminating the need for additional framing.
- This fireplace may be installed in a bedroom.
- Due to high temperatures, the appliance should be located out of traffic and away from furniture and draperies.
- Please be aware of the large amount of heat this fireplace will produce when determining a location.

WARNING

Install the fireplace on a hard metal or wood surface that extends the full width and depth of fireplace.

Above floor level installations: A solid, continuous platform must be constructed below the appliance.
MINIMUM PLATFORM SIZE: 40-3/4 in. (1035 mm) wide x 17 in. (431 mm) deep.

FIRE HAZARD

Do NOT install directly on carpeting, vinyl, or any combustible material other than wood.

3.2 Stand-off Assembly and Installation

WARNING

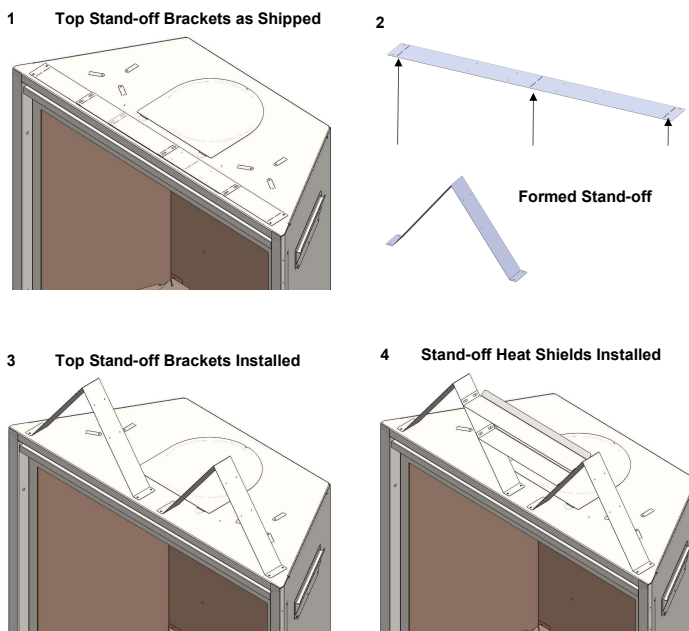
The top stand-offs provide the 10 in. (254 mm) minimum clearance to the header. Use only non-combustible material in this area for entire width of fireplace. Do not use wood, sheetrock, etc., in this zone.

Top stand-off brackets must be formed and attached prior to positioning fireplace into framed opening.

NOTE: Top stand-off brackets and stand-off heat shields are attached to fireplace top in a flat state for shipping. See Illustration 1 in Figure 3.1, Stand-Off Assembly and Installation.

1. Remove and save (4) screws securing top stand-off heat shield and stand-off brackets.
2. Form each top stand-off bracket by bending at perforations, as shown in Illustration 2.
3. Align the holes in the formed top stand-offs with the holes in the fireplace top. Secure with the (4) screws previously removed along with (4) screws located on top of the fireplace.
4. Form stand-off heat shields as shown in Illustration 4. The flange on the stand-off heat shields will face up and to the back of fireplace.
5. Align the holes in the formed stand-off heat shields with the holes in the top stand-off brackets. Secure with (8) screws provided in the fireplace components packet.

Figure 3.1, Stand-off Assembly and Installation



3.3 Nailing Flange Assembly and Installation

NOTE

Depending on facing material, tabs can be adjusted forward or backward up to 1/2 in. (13 mm).

CAUTION

Never permanently remove these assemblies from the fireplace—they must be secured regardless of finish material used.

1. Remove (4) nailing flanges from the right and left side of the fireplace. See Figure 3.2, Back View of Nailing Flanges.
 2. Align nailing flange with holes on outside corners of fireplace, with the stand-off flanges on the nailing flanges facing away from the fireplace See Figure 3.2.
 3. Secure the nailing flanges to the fireplace with screws (provided) through the slots in nailing flanges.
 4. Bend perforation on nailing flange until parallel with fireplace face. Do not bend toward fireplace face.
 5. Position framing stud against the small stand-off (located on backside of nailing flange). Secure with nails or screws. See Figure 3.3, Front View of Set Nailing Flange
- **When installed, the nailing flanges provide the minimum 1/4 in. (6 mm) clearance from the sides of the fireplace to framing. See Figure 3.4, Top View of nailing Flange Installed.**

Figure 3.2, Back View of Nailing Flanges

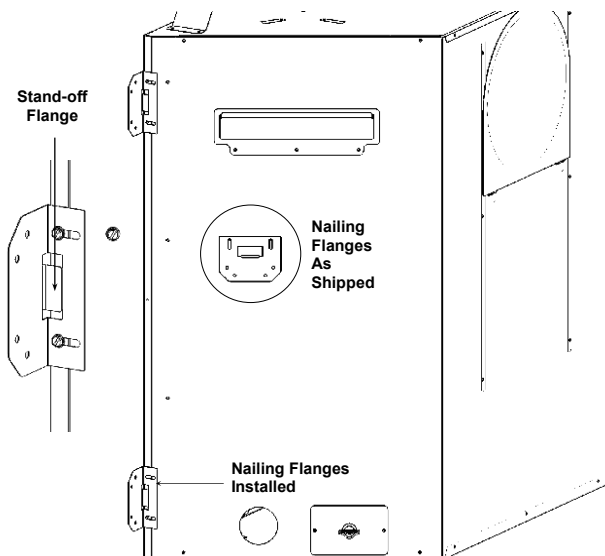


Figure 3.3, Front View of Set Nailing Flange

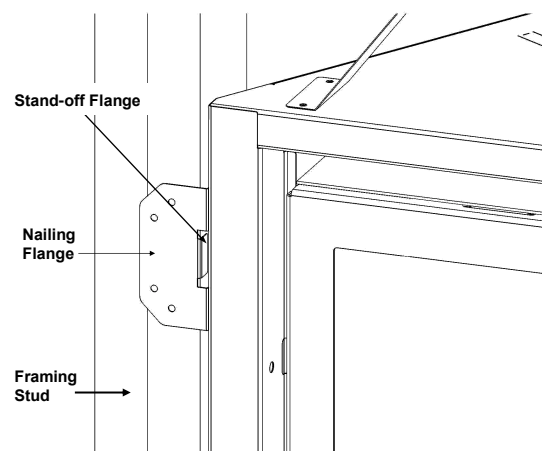
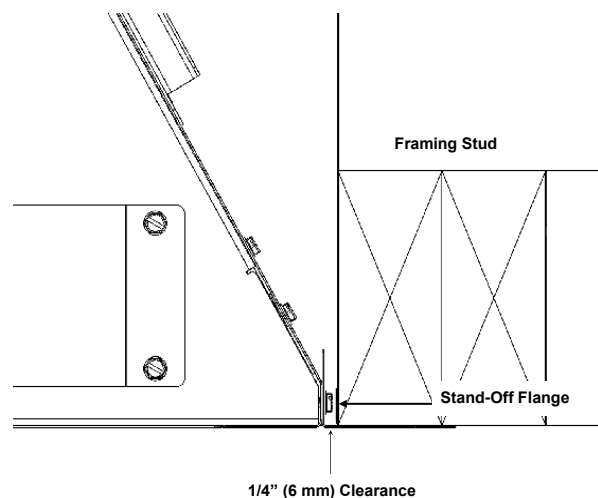


Figure 3.4, Top View of Nailing Flange Installed



3.4 Hearth Information

- 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 the hearth to desired size and height. If a hearth extension is desired, combustible material may be used.
- Consider the height of hearth finish material (stone, brick, etc.) when building a fireplace platform. The bottom of the fireplace must be level with finished hearth to allow for proper fitment of the safety barrier, except model #B41-BSF, a 1-1/4 in. (32 mm) clearance below the fireplace for proper fitment. Refer to Table 5.2 on page 14.

3.5 Fireplace Framing

Table 3.2, Appliance Clearances to Combustible Framing

| | | |
|-------------------------------------|---------|--------|
| Top of appliance to framing | 10 in. | 254 mm |
| From appliance back | 1/2 in. | 13 mm |
| From appliance corner | 1/4 in. | 6 mm |
| Appliance top to ceiling | 31 in. | 787 mm |
| Appliance side to adjacent sidewall | 1 in. | 25 mm |

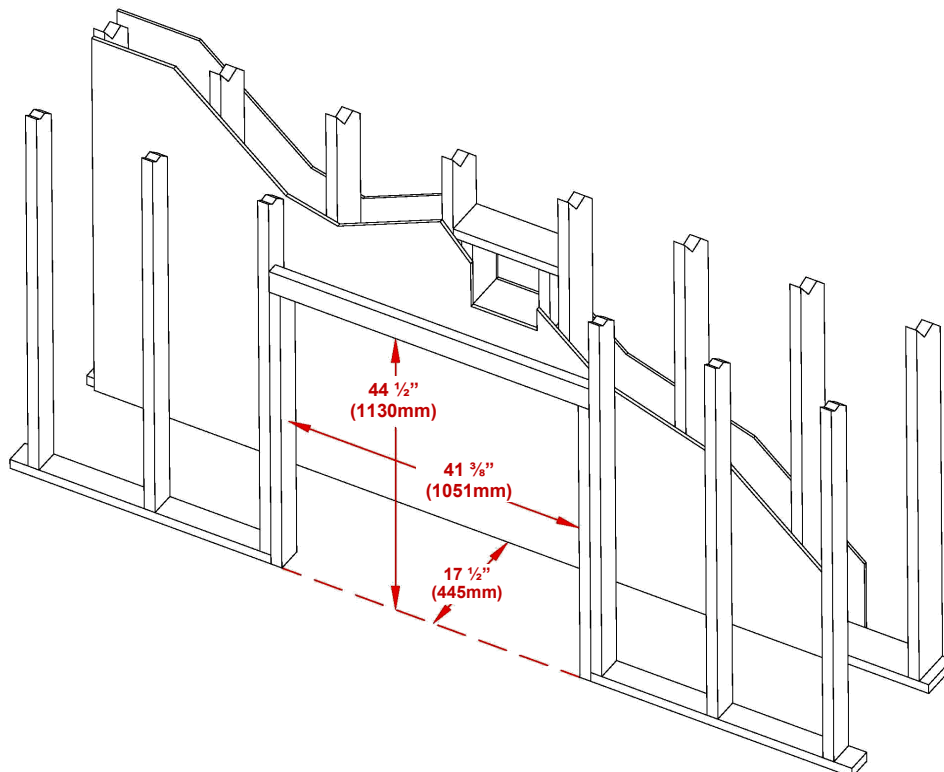
3.5.1 Wall Enclosure Rough Opening

- Framing dimensions should allow for wall covering thickness and fireplace facing materials.
- If using a hearth, adjust rough opening size as necessary to maintain clearance requirements.
- Do not obstruct the flow of ventilation air.
- **Horizontal Vent Termination Framing:** Refer to 3.6.2, Minimum Horizontal Vent Termination Framing Dimensions, on page 11.

Table 3.3, Minimum Finished Opening Dimensions

| | | |
|---|------------|---------|
| Opening Bottom to Header Height | 44-1/2 in. | 1130 mm |
| Width | 41-3/8 in. | 1051 mm |
| Depth | 17-1/2 in. | 445 mm |
| 1/2 in. (13 mm) clearance at the back and the sides of the fireplace, and 1/4 in. (6.4 mm) clearance from corners must be maintained. | | |

Figure 3.5, Finished Opening Dimensions



3.6 Vent Termination Framing

IMPORTANT

Vent cap location must be in compliance with the guidelines 8.9, Termination Vent Cap Location and Clearances, on page 28.

WARNING

DO NOT RECESS THE VENT CAP INTO WALL OR SIDING.

3.6.1 Vertical Vent Terminations

- Follow vent pipe manufacturer's installation instructions for vertical vent termination framing.
- A minimum of 1 in. (25 mm) clearance on all sides of the vertical vent pipe must be maintained.

3.6.2 Minimum Horizontal Vent Termination Framing Dimensions

IMPORTANT

Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel.

Follow vent pipe manufacturer's instructions for horizontal terminations.

Table 3.4, Horizontal Venting Clearances

| Vent System | Top | Bottom | Sides |
|-------------|-------------------|---------------|---------------|
| Rigid Pipe | 1-1/2 in. (38 mm) | 1 in. (25 mm) | 1 in. (25 mm) |
| Flex Pipe | 1 in. (25 mm) | 1 in. (25 mm) | 1 in. (25 mm) |

Natural Gas & LP Gas Horizontal Venting - Rear Vent Applications

| Vent Pipe Top (A) | | Framed Opening Top (B) | |
|-------------------|--------|------------------------|--------|
| 31-5/8 in. | 803 mm | 33-1/8 in. | 842 mm |

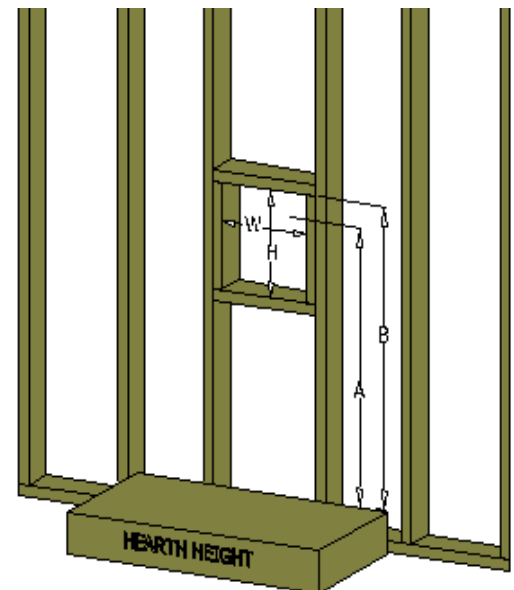
Natural Gas & LP Gas Horizontal Venting - Top Vent Applications

| Minimum Vertical Rise 9 in. (229 mm) | Vent Pipe Top (A) | | Framed Opening Top (B) | |
|---|-------------------|---------|------------------------|---------|
| Rigid Vent System | 52-1/2 in. | 1333 mm | 54 in. | 1372 mm |
| Flex Vent System | 52-1/2 in. | 1333 mm | 53-1/2 in. | 1359 mm |

Natural Gas & LP Gas Horizontal Venting - Top Vent Applications

| Minimum Vertical Rise 15 in. (381 mm) | Vent Pipe Top (A) | | Framed Opening Top (B) | |
|--|-------------------|---------|------------------------|---------|
| Rigid Vent System | 57 in. | 1448 mm | 58-1/2 in. | 1486 mm |
| Flex Vent System | 57 in. | 1448 mm | 58 in. | 1473 mm |

Figure 3.6, Horizontal Vent Termination Framing Guide



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.

4.0

TYPICAL INSTALLATION OPTIONS

IMPORTANT

1/2 in. (13 mm) wall materials included in dimensions where applicable. Modify minimum opening if necessary to accommodate finish material thickness.

Figure 4.1, Corner

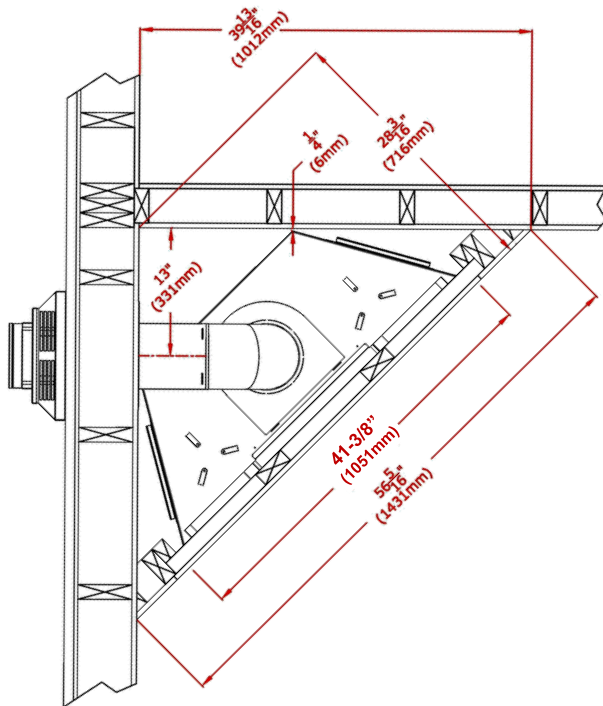


Figure 4.2, Top Vent Vertical

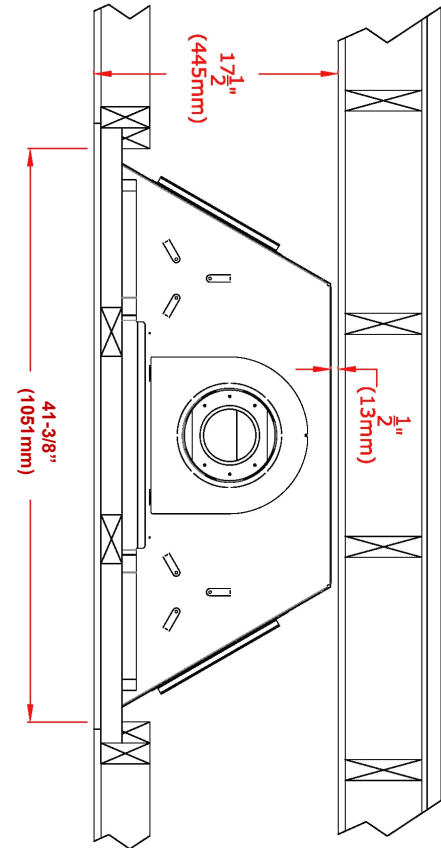


Figure 4.3, Top Vent Horizontal

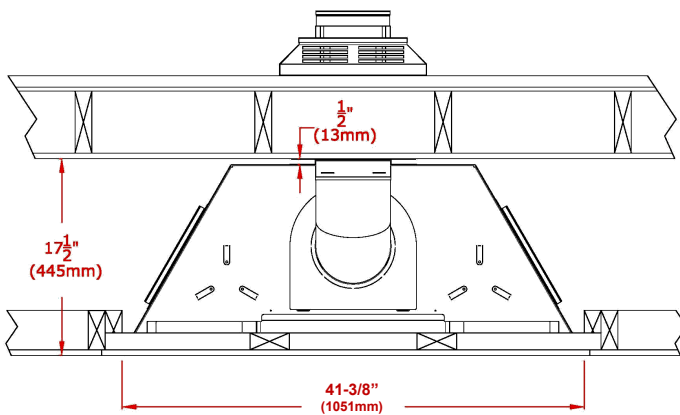
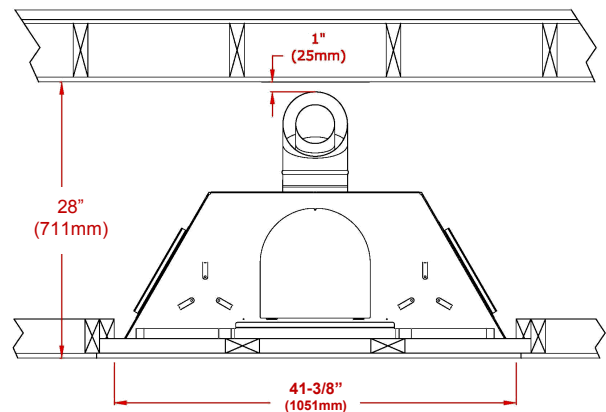


Figure 4.4, Rear Vent Vertical



5.0 FACING AND FINISHING

- Provide adequate clearance in front of the fireplace to remove safety barrier, to operate lower grill, to access components, to install gas line, and other components.
- Non-combustible material may be applied over, but not attached, to the fireplace face. This will prevent non-combustible material from falling off the fireplace face due to heat expansion.
- Do not obstruct the flow of ventilation air.
- Refer to Table 5.2, Safety Barrier Fit and Mounting Clearances, on page 14 for accessibility clearances. Refer to Figures 5.2 - 5.5 on pages 14 through 16 for safety barrier models and dimensions.

WARNING

Provide adequate clearances around air openings into the combustion chamber.

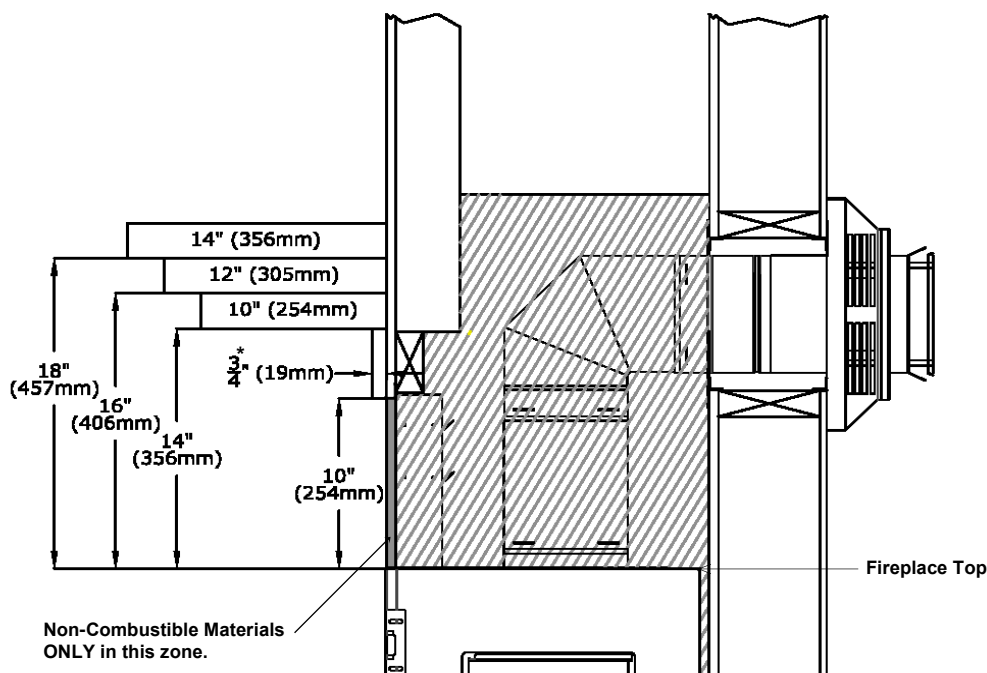
Do not obstruct upper and lower grill openings. Room air enters through the lower passage, is then heated, and exists through upper passage. Blocking these passages may result in overheating, creating a potentially hazardous situation.

5.1 Mantel Requirements

Table 5.1, Non-Combustible Zone

| | |
|--|---|
| Rigid Pipe: | 1-1/2 in. (38mm) above the elbow for the entire width and depth (behind header) of the fireplace. |
| #700-1 Series Flexible Venting: | 1 in. (25mm) above the elbow for the entire width and depth (behind header) of the fireplace. |

Figure 5.1, Mantel Projections, Trim Requirements, and Non-Combustible Zone



NON-COMBUSTIBLE ZONE: No materials are allowed above the fireplace within the shaded area for the entire width and depth of the fireplace. This air space must remain open.

* This 3/4 in. (19 mm) deep fireplace facing top trim (top facing) requires a 10 in. (254 mm) clearance from the fireplace top.

5.2 Safety Barriers

Table 5.2, Safety Barrier Fit and Mounting Clearances

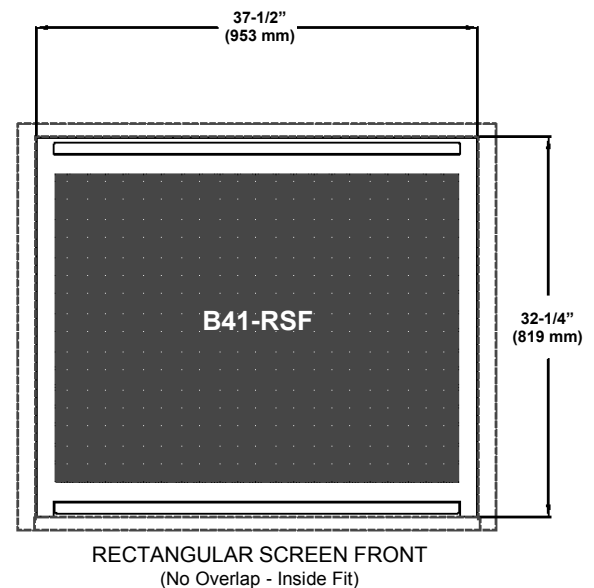
| Models | Above the fireplace | Below the Fireplace | Depth from Fireplace |
|---|---|---|--|
| #B41-RSF, #B41-FRSF-BS, #B41R-MSF, #B41R-CSF, #B41-FRSF, #B41A-MSF*, #B41-PSF* | 1/4" (6 mm) | Bottom of safety barrier must be level with finished hearth | Notched tabs allow to set screen in position to accommodate facing material; except model #B41-RSF (inside fit). |
| #B41-BSF | 1/4" (6 mm) | 1-1/4" (32 mm) | |
| #B41A-MSF*, #B41-PSF* | Depending on installation, models have option for direct mount. Refer to section 5.2.3. | Bottom of safety barrier must be level with finished hearth | |
| * Models #B41A-MSF and #B41-PSF have two installation options: (5.2.2) Hanging Installation or (5.2.3) Direct Mount Installation Option. Follow installation instructions necessary for your type of application. | | | |

5.2.1 Inside Fit - Recessed Installation

Model #B41-RSF

1. Locate the slots on the back side of the screen front.
2. Partially thread (4) truss head screws, included with this assembly, into each mounting hole on the fireplace (2 each side).
3. Align the slots on the screen front with the truss head screws on the fireplace, then slide the screen front unto fireplace.
4. Tighten all screws.
5. Fireplace accessibility: loosen, but do not remove, the (4) truss head screws located on the sides of the fireplace. Raise the screen up slightly and out.

Figure 5.2, Model #B41-RSF Dimensions



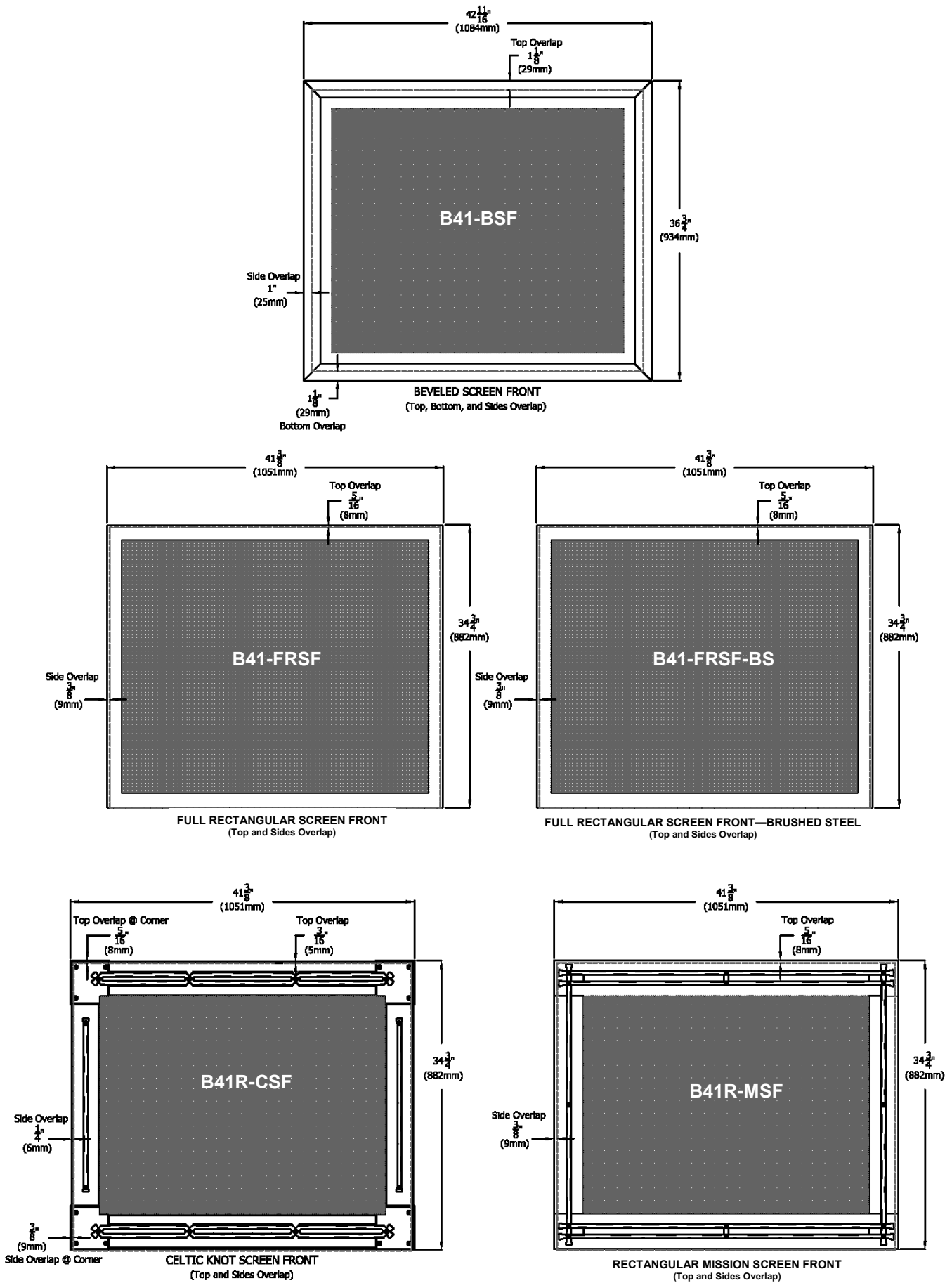
5.2.2 Overlap Fit - Hanging Installation

Models #B41-BSF, #B41-FRSF-BS, #B41R-MSF, #B41R-CSF, #B41-FRSF, #B41A-MSF, #B41-PSF

1. Center the screen front over the glass frame assembly, allowing the screen front's mounting brackets to fit inside the air openings.
2. Align the notched tabs (located on the back) with the slots in the fireplace. Raise slightly and push back to desired position.
3. Lower the screen front until the notched tabs are firmly in position, verifying the depth accommodates finish material.
4. To remove safety screen: lift the screen up and out of slots.

Refer to Figure 5.3, Models #B41-BSF, #B41-FRSF, #B41-FRSF-BS, #B41R-CSF, and #B41R-MSF Dimensions, on page 15. Models #B41A-MSF and #B41-PSF not shown in Figure 5.3 (Refer to Figure 5.5, Models #B41A-MSF and #B41-PSF Dimensions, on page 16).

Figure 5.3, Models #B41-BSF, #B41-FRSF, #B41-FRSF-BS, #B41R-CSF, and #B41R-MSF Dimensions



5.2.3 Overlap Fit - Direct Mount Installation Option

Direct Mount Installation Option for Models #B41A-MSF and #B41-PSF (recommended for low clearance applications)

1. Locate the (4) acorn nuts on the left and right side of the screen front face (2 each side).
#B41-PSF: Refer to Figure 5.4.
#B41A-MSF: The (4) acorn nuts are located at the outer corners, closest to the edge.
2. Remove and save the (4) nuts securing the (2) mounting brackets to the screen front.
3. Position mounting brackets to fit inside the air openings on the sides of the fireplace, and align the (2) notched tabs on the back of each bracket with the slots in the fireplace.
4. Set the mounting brackets into desired position, verifying the depth accommodates finish material.
5. Secure mounting brackets with (4) truss head screws (included) into each mounting hole on fireplace (2 each side).
6. Slide the screen front over the (4) mounting studs and secure with the (4) side acorn nuts previously removed.
- Fireplace accessibility: remove the (4) acorn nuts on the left and right side of the screen front face (2 each side), then remove screen front assembly from studs on the mounting bracket.

Figure 5.4, #B41-PSF Direct Mount Installation

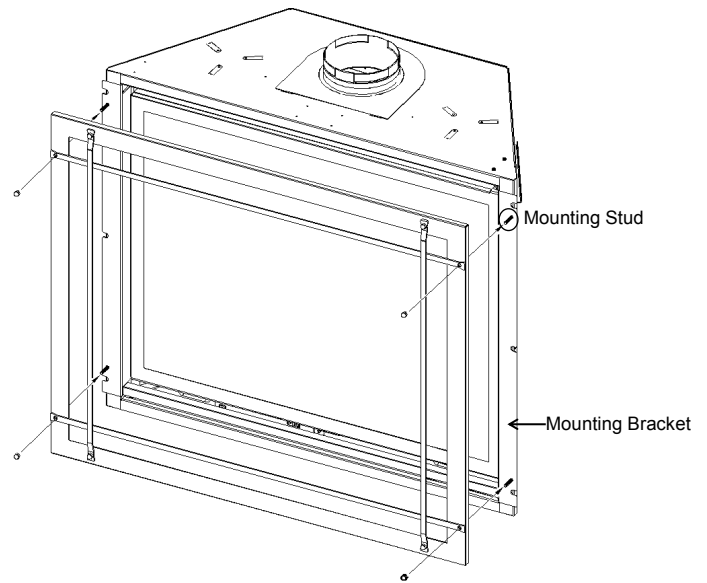
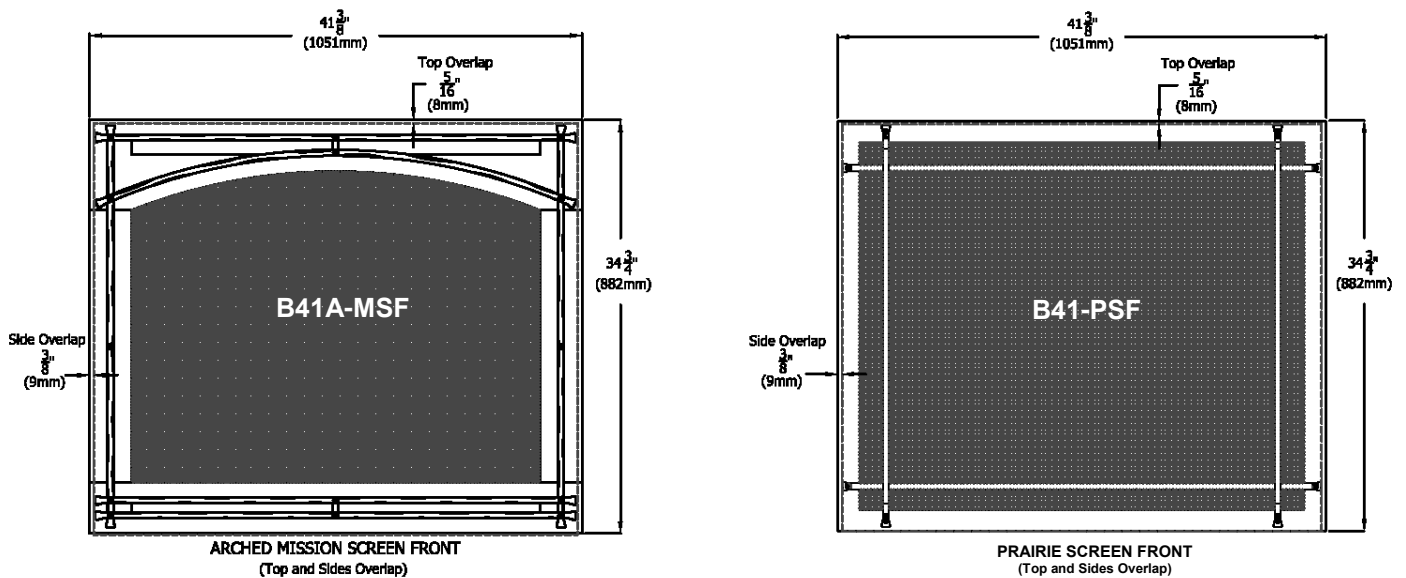


Figure 5.5, Models #B41A-MSF and #B41-PSF Dimensions



6.0 GAS LINE CONNECTION

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 Z223.1.

Commonwealth of Massachusetts: Installation must be done by a licensed plumber or gas fitter.

NOTE

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

This fireplace is equipped with a 3/8" (10 mm) x 18" (457 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.

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 (3.5 kPa).

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 1/2 psi (3.5 kPa).

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

6.1 Gas Conversion

This fireplace is manufactured for use with Natural Gas. Follow the instructions included with the conversion kit if converting to LP gas. (Sold separately)

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.

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.

Table 6.1, Inlet Gas Pressures

| Fuel | Minimum Inlet Gas Pressure | Maximum Inlet Gas Pressure |
|-------------|--|----------------------------|
| Natural Gas | 5" WC (1.25 kPa) (7" WC [1.74 kPa] recommended) | 10.5" WC (2.62 kPa) |
| LP Gas | 12" WC (2.99 kPa) (recommended) | 13" WC (3.24 kPa) |

6.2 High Altitude Installations

ATTENTION

In the USA: The appliance may be installed at higher altitudes. Please refer to your American Gas Association guidelines which state: the sea level rated input of Gas Designed Appliances installed at elevations above 2,000 ft. (610 m) is to be reduced 4% for each 1,000 ft. (305 m) above sea level. Refer also to National Fuel Gas Code, ANSI Z223.1 / NFPA 54, local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

In Canada: When the appliance is installed at elevations above 4,500 ft. (1,372 m), the certified high altitude rating shall be reduced at the rate of 4% for each additional 1,000 ft. (305 m). Refer also to CSA-B149.1 Natural Gas and Propane Installation Code, Local authorities, or codes which have jurisdiction in your area regarding the de-rate guidelines.

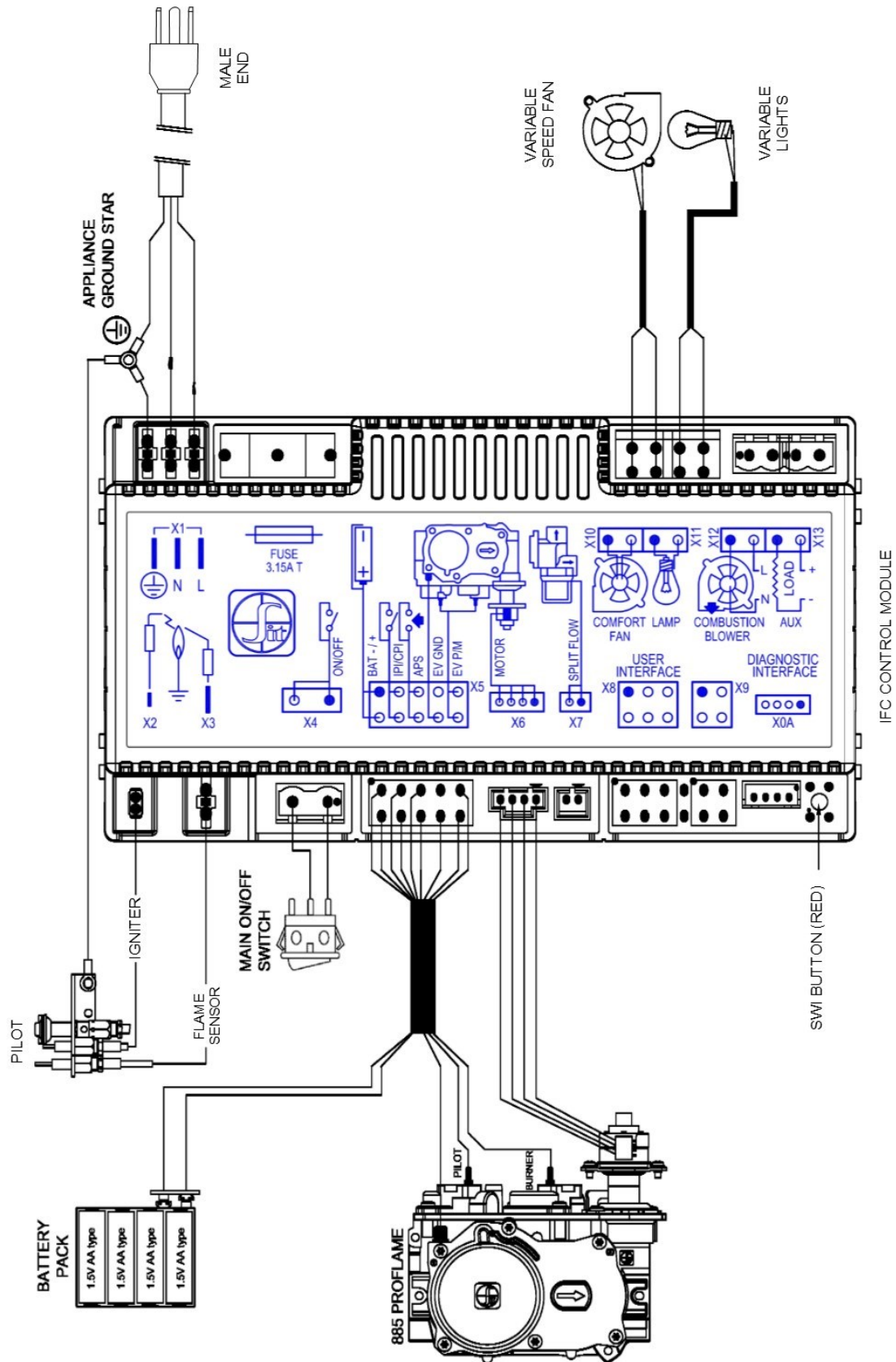
7.0

WIRING SCHEMATICS

IMPORTANT

This system requires 120V of electricity / batteries to operate.

Figure 7.1, IFC Control Module Wiring



8.0

VENTING

R.06

8.1 Rear Vent Conversion Instructions

IMPORTANT

This appliance has outlets for both top and rear venting. The unused vent exit must have the appropriate cover plates in place and the cover plate must be removed according to instructions from the exit to be used.

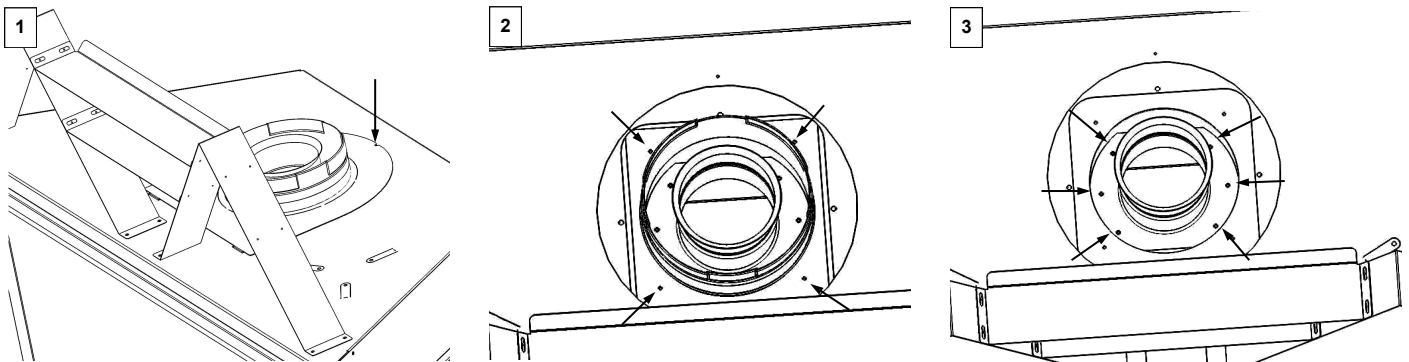
NOTE

All components removed from the fireplace top vent will be re-installed for the back vent.

8.1.1 Remove Top Vent Collars

1. Remove the attachment screw securing the cover. See Illustration 1 in Figure 8.1, Top Vent Collar Removal.
2. Remove (4) screws securing the 6-5/8 in. (168 mm) combustion air intake collar. See Illustration 2.
3. Remove (6) screws securing the 4 in. (101 mm) exhaust collar. See Illustration 3.

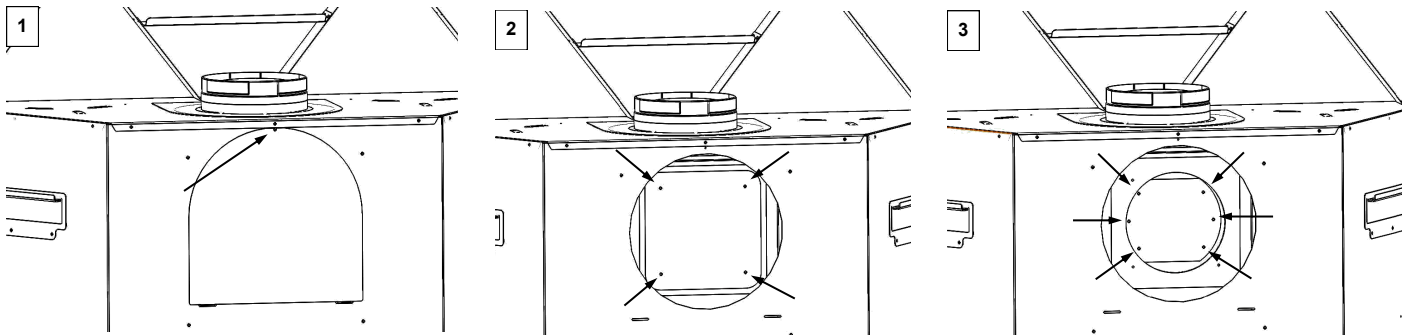
Figure 8.1, Top Vent Collar Removal



8.1.2 Remove Back Vent Combustion Air Intake and Exhaust Collars

1. Remove the attachment screw securing the back cover plate. See Illustration 1 in Figure 8.2.
2. Remove (4) screws securing the combustion air intake cover plate. See Illustration 2.
3. Remove (6) screws securing the exhaust cover plate. See Illustration 3.

Figure 8.2 Rear Vent Combustion Air Intake & Exhaust Collars Removal

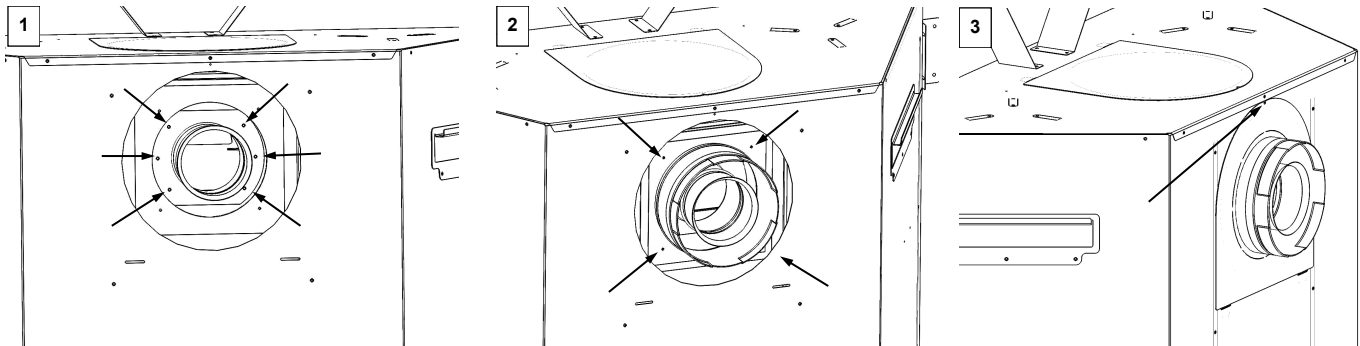


8.1.3 Install Exhaust and Combustion Air Intake Collars to the Fireplace Rear

1. Install the 4 in. (101 mm) exhaust collar to the fireplace rear. Verify the gasket is in place underneath, and secure with (6) screws previously removed.
2. Install the 6-5/8 in. (168 mm) combustion air intake collar to fireplace rear. Verify gasket is in place, and secure with (4) screws previously removed.
3. Insert the tabs on rear cover plate into the slots at the back of the fireplace. Secure with (1) screw previously removed.

NOTE: When installing Kozy Heat # 923-F flex pipe adapter, you will need to cut out inner circle from cover plate.

Figure 8.3, Exhaust & Combustion Air Intake Collar Installation



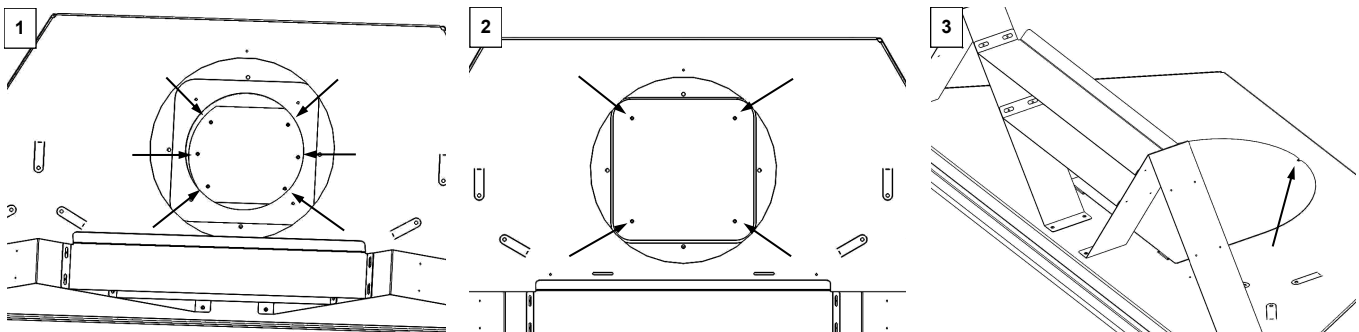
8.1.4 Install Cover Plates to the Fireplace Top

WARNING

The cover plates must be installed on the top of the fireplace. Do not proceed with the fireplace installation until this procedure is completed. Follow the instructions outlined below

1. Install the exhaust cover plate to the fireplace top. Verify gasket is in place, and secure with (6) screws previously removed.
2. Install combustion air intake cover plate to fireplace top. Verify gasket is in place, and secure with (4) screws previously removed.
3. Insert tabs on the outer cover plate into the slots in fireplace top. Secure with (1) previously removed screw.

Figure 8.4, Cover Plate Installation



IMPORTANT

Consult the local and national installation codes to assure adequate combustion and ventilation air is available. Flame height and appearance will vary depending upon venting configuration and the type of fuel used.

Venting requirements apply to both natural gas and LP gas.

8.2 Approved Vent Systems

- Refer to the vent manufacturer's installation manual for complete installation instructions. Installation must conform with venting requirements and restrictions as outlined in this manual.
- Provide a means for visually checking the vent connection to the appliance after the fireplace is installed.

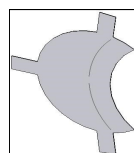
Table 8.1, Approved Vent systems

| Venting Manufacturers | Approved Vent System Products | Horizontal Termination | Vertical Termination |
|-------------------------|--|------------------------|----------------------|
| American Metal Products | 4" x 6-5/8" Direct Vent Chimney System, Model Ameri-Vent | X | X |
| BDM | 4" x 6-5/8" Direct Vent Chimney System | X | X |
| ICC | EXCELDirect 4" x 6-5/8" Direct Vent Chimney System | X | X |
| Kozy Heat | #700 Series Flexible Vent System; Kozy Heat #923-F adaptor required | X | |
| Metal Fab | 4" x 6-5/8" Direct Vent Chimney System EXCEPT for 4DH7 cap | X | X |
| RLH Industries | 4" x 6-5/8" Direct Vent Chimney System, Vent Cap HS-DV4658 (Terracota) | | X |
| Security | 4" x 6-5/8" Direct Vent Chimney System | X | X |
| Selkirk | 4" x 6-5/8" Direct Vent Chimney System, Model Direct Temp | X | X |
| Simpson Dura-Vent | DV-GS 4" x 6-5/8" Direct Vent System EXCEPT for 46DVASNK14 | X | X |

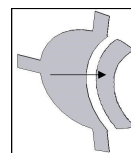
8.3 Restrictor Assembly and Installation

- Each installation is unique and affected by various factors including venting configuration, altitude and climate. Therefore, after fireplace installation is complete, a restrictor (included with fireplace components packet) may be required or may need to be removed or modified.
- Please refer to Figure 8.5 for installation instructions if installing the restrictor in conjunction with venting. A restrictor may be used to achieve desired flame appearance on any venting configuration with 6 feet (1.83 m) of vertical pipe or more.
- 13.3, Restrictors, on page 47, outlines restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

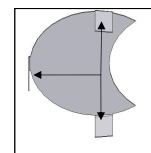
Figure 8.5, Restrictor Assembly and Installation Instructions



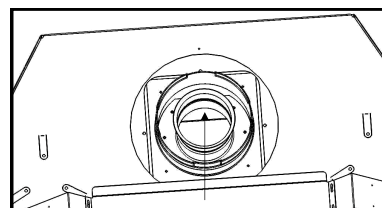
Large Restrictor



Remove tab(s) to create small restrictor



Bend tabs to approx. 80 degree angles to create tension to hold itself in place when installed.



Slide restrictor into exhaust pipe on top of fireplace with tabs pointing towards you prior to attaching venting.

8.4 Venting for Horizontal Terminations

IMPORTANT

Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel.

A wall thimble pass-through must be used on all horizontal vent runs that pass through interior or exterior walls. Follow vent system manufacturer's instructions.

8.4.1 Horizontal Vent Section Clearances

Table 8.2, All Approved Vent Systems, Clearances to Combustible Material

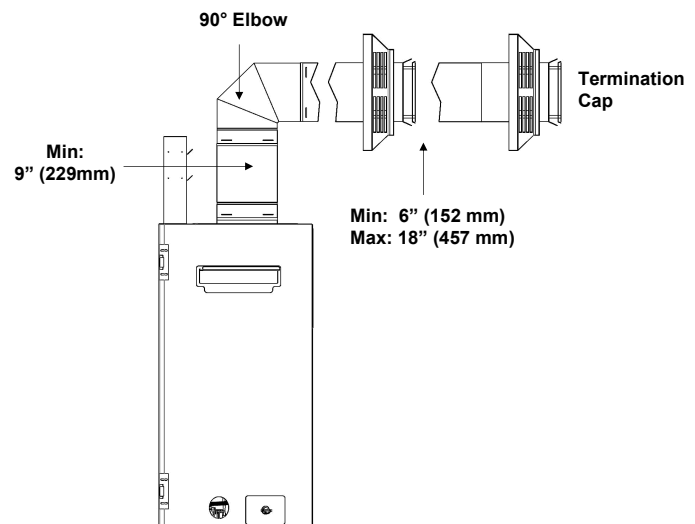
| Vent Pipe Surface Clearances | Top | Bottom | Sides |
|------------------------------|-------------------|---------------|---------------|
| Rigid Pipe | 1-1/2 in. (38 mm) | 1 in. (25 mm) | 1 in. (25 mm) |
| Flex Pipe | 1 in. (25 mm) | 1 in. (25 mm) | 1 in. (25 mm) |

8.4.2 Top Vent Horizontal Venting Configurations

BAY-41-L (NG / LPG)

| Minimum Vertical Rise | Minimum Horizontal Run | Maximum Horizontal Run |
|-----------------------|------------------------|------------------------|
| 9 in. 229 mm | 6 in. 152 mm | 18 in. 457 mm |

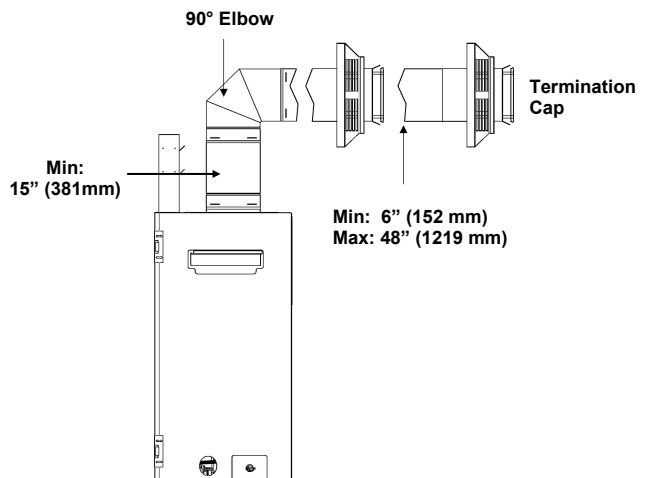
Figure 8.6 Natural Gas & LP Gas Min/Max Horizontal Venting



BAY-41-L (NG / LPG)

| Minimum Vertical Rise | Minimum Horizontal Run | Maximum Horizontal Run |
|-----------------------|------------------------|------------------------|
| 15 in. 381 mm | 6 in. 152 mm | 48 in. 1219 mm |

Figure 8.7, Natural Gas & LP Gas Min/Max Horizontal Venting



IMPORTANT

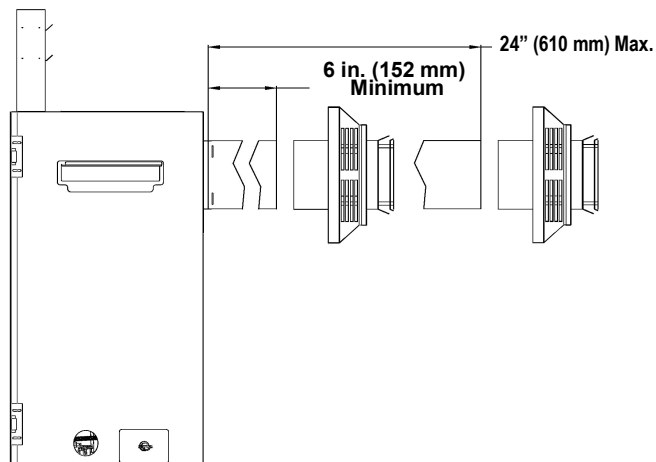
Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel.

8.4.3 Rear Vent Horizontal Venting Configurations

Figure 8.8, Natural Gas and LP Gas Rear Vent Horizontal Venting

| Rear Vent BAY-41-L (NG ONLY) | | |
|------------------------------|------------------------|--------|
| Horizontal Venting | Maximum Horizontal Run | |
| 45° elbow | 18 in. | 457 mm |

| Rear Vent BAY-41-L (NG / LPG) | | | |
|-------------------------------|--------|------------------------|--------|
| Minimum Horizontal Run | | Maximum Horizontal Run | |
| 6 in. | 152 mm | 24 in. | 610 mm |

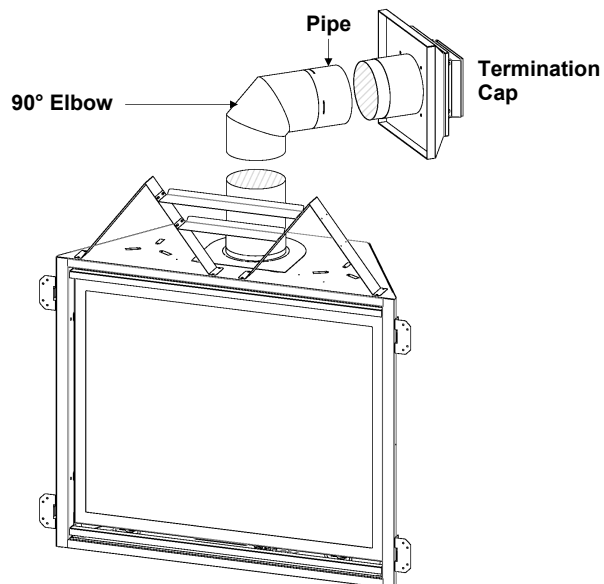


8.4.4 Corner Installations

- Venting configurations below are for corner installations intending to terminate horizontally.
- Vent Opening Dimensions: Refer to vent pipe manufacturer's instructions.

| Top Vent BAY-41-L (NG / LPG) | | | | |
|------------------------------|--------|------------------------|------------------------|---------|
| Minimum Vertical Rise | | Minimum Horizontal Run | Maximum Horizontal Run | |
| 9 in. | 229 mm | 90° elbow | 18 in. | 457 mm |
| 15 in. | 381 mm | 90° elbow | 48 in. | 1219 mm |

Figure 8.9, Typical Corner Installation



8.5 Venting for Vertical Terminations

8.5.1 Vertical Vent Section Clearances

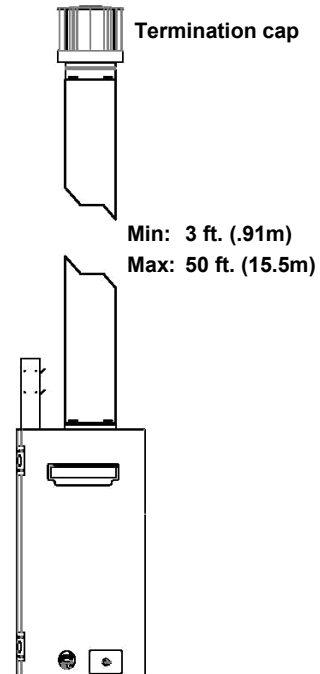
Table 8.3, All Approved Venting Systems, Clearances to Combustible Material

| Vent Pipe Surface Clearances | All Sides |
|------------------------------|---------------|
| | 1 in. (25 mm) |

8.5.2 Top Vent Vertical Venting Configurations

| BAY-41-L (NG / LPG) | | | |
|-------------------------|-------|-------------------------|--------|
| Minimum Vertical Length | | Maximum Vertical Length | |
| 3 ft. | .91 m | 50 ft. | 15.5 m |

Figure 8.10, Top Vent Vertical Venting

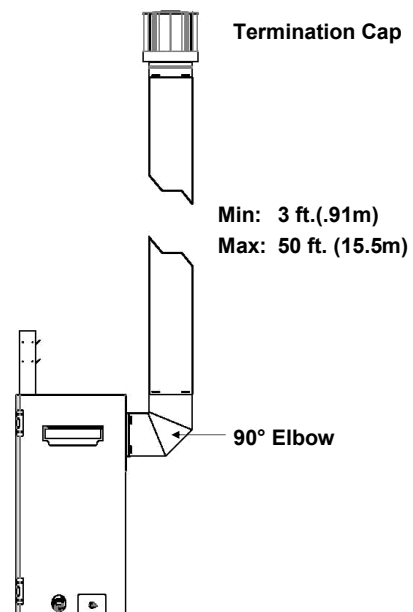


8.5.3 Rear Vent Vertical Venting Configurations

NOTE: A 90° elbow off the rear of the appliance is required to vertically position the vent system.

| BAY-41-L (NG / LPG) | | | |
|-------------------------|-------|-------------------------|--------|
| Minimum Vertical Length | | Maximum Vertical Length | |
| 3 ft. | .91 m | 50 ft. | 15.5 m |

Figure 8.11, Rear Vent Vertical Venting



8.6 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.
- (2) 45° degree elbows may be used in place of (1) 90° elbow.
- Maximum number of elbows for ALL vent configurations: 4.**

8.7 Horizontal and Vertical Combination Venting

IMPORTANT

A wall thimble pass-through must be used on all horizontal vent runs that pass through interior or exterior walls. Follow vent system manufacturer's instructions.

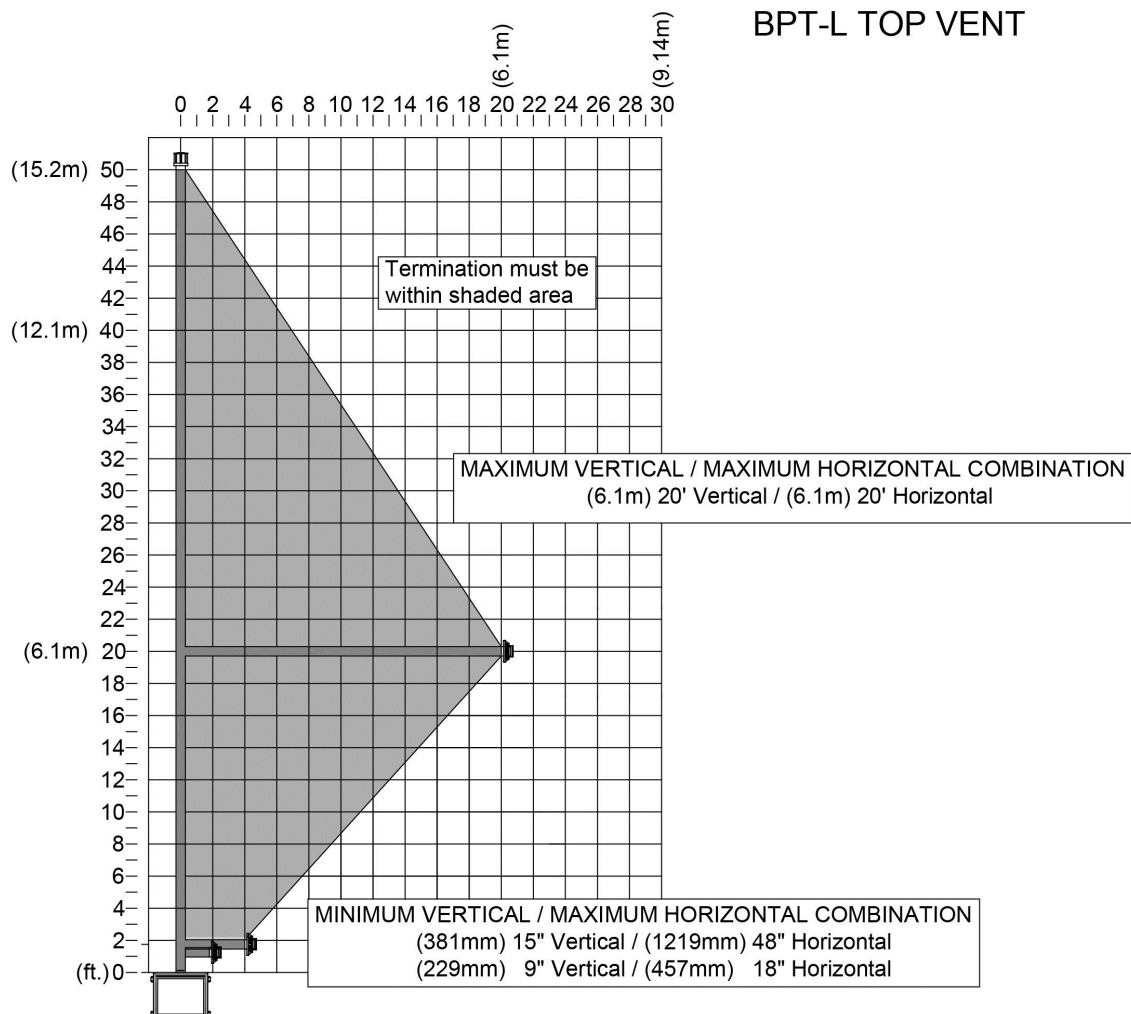
Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel.

8.7.1 Top Vent Combination Venting

BAY-41-L (NG / LPG)

| Maximum Horizontal Length | | Maximum Vertical Length | | Total Horizontal and Vertical Length | |
|---------------------------|-------|-------------------------|-------|--------------------------------------|--------|
| 20 ft. | 6.1 m | 20 ft. | 6.1 m | 40 ft. | 12.2 m |

Figure 8.12, BAY-41-L (NG / LPG) Top Vent Combination Venting

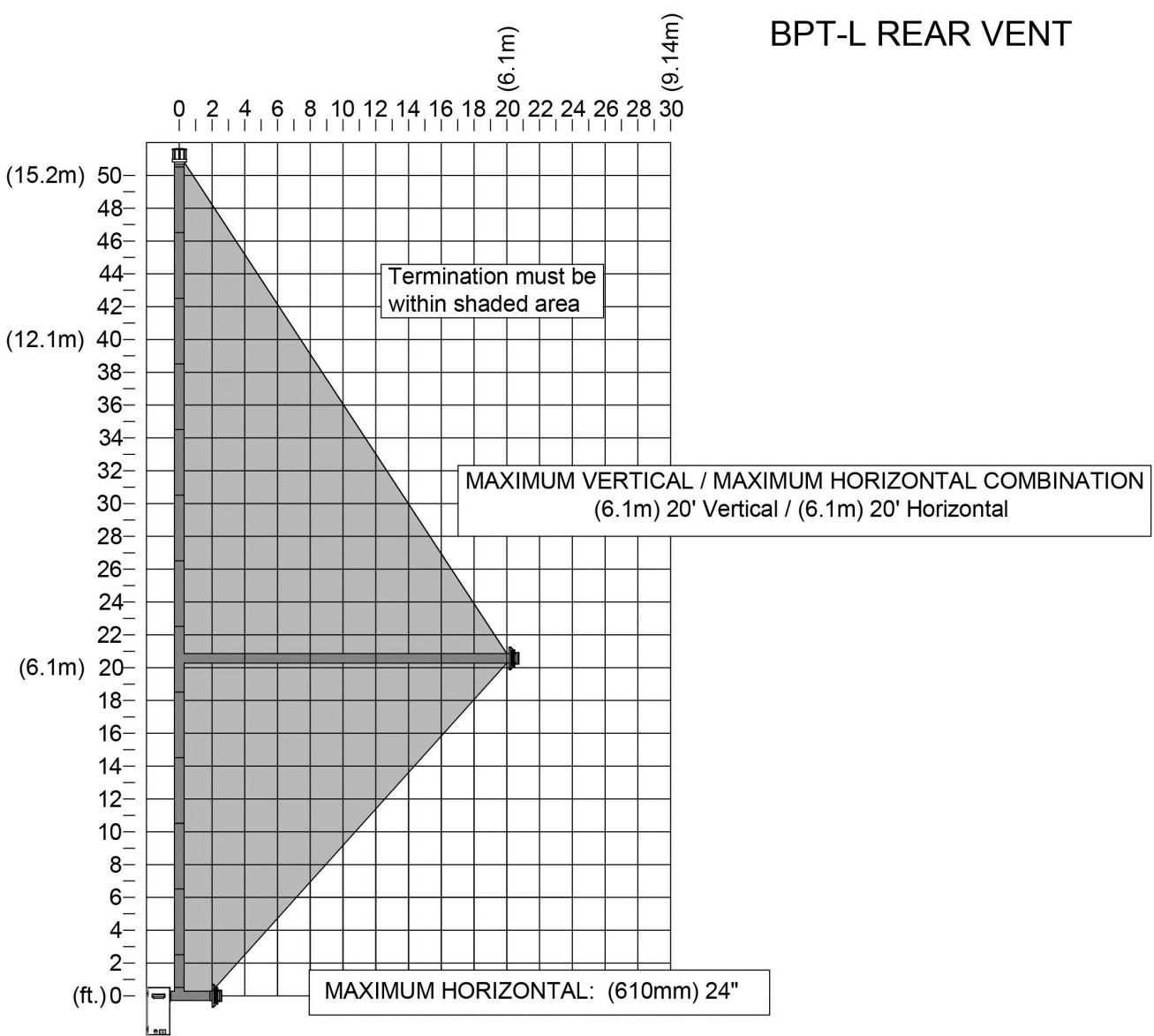


8.7.2 **Rear Vent Combination Venting**

| IMPORTANT | | | | | |
|--|--|--|--|--|--|
| A wall thimble pass-through must be used on all horizontal vent runs that pass through interior or exterior walls. Follow vent system manufacturer's instructions. | | | | | |
| Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel. | | | | | |

| BAY-41-L (NG / LPG) | | | | | |
|---------------------------|-------|-------------------------|-------|--------------------------------------|--------|
| Maximum Horizontal Length | | Maximum Vertical Length | | Total Horizontal and Vertical Length | |
| 20 ft. | 6.1 m | 20 ft. | 6.1 m | 40 ft. | 12.2 m |

Figure 8.13, BAY-41-L NG / LPG Rear Vent Combination Venting



8.8 #700-1 Series Direct Vent Termination Kit(s)

IMPORTANT

The flex pipe is permanently attached to the exterior plate. DO NOT ATTACH either #745-1 or #718-1 termination kit to fireplace (or extension kit) until it has passed through the wall. Install termination plates to the outside wall exterior.

Horizontal Top Vent Terminations using Kozy Heat #700-1 series Flexible Vent System must install #923-F Kozy Heat Flex Vent System Adaptor.

- If terminating against vinyl siding, a vinyl siding protector must be used (included with the #718-1 and #745-1 direct vent kits). Follow instructions included. (Not shown in Figure 8.14).
- Each #746-1 extension kit contains enough 4" & 7" flexible aluminum pipe to extend chimney an additional 6 ft. (1.83 m).
- 8.3, Restrictor Assembly and Installation, on page 21 has information on restrictor installation in conjunction with venting installation. 13.3, Restrictors, on page 47, has information on restrictor recommendations depending on burner flame appearance and instructions on installation after venting is completed.

8.8.1 Assembly and Installation

1. With spacer legs toward the wall, slide the interior firestop (H) over 7" pipe and attach to interior wall (over wall materials).

NOTE: Attachment brackets are included with termination kit. These optional brackets should be screwed or nailed (not provided) onto the top and bottom (9-1/2 in. [241 mm] height x 9-1/2 in. [241 mm] width) opening on exterior of house. The termination plates then fit between these brackets. Using screws provided, secure brackets to termination box (A). Attach vinyl siding protector (G).

2. Apply a liberal bead of exterior sealant around the outer edge of termination box (A), placing assembly through opening in exterior wall. Place screws through four holes (B), securing it in place.

3. Form the 4" & 7" flexible aluminum pipes on termination kit (#745-1 or #718-1), and if applicable, on each extension kit, as shown in Figure 8.14. Then, gently pull 4" & 7" pipes down to the top of the fireplace, or if applicable, the extension kit.

IMPORTANT: DO NOT stretch extension kit beyond 6 ft. (1.83 m); DO NOT stretch beyond what is required. It is very difficult to recompress flex pipes once stretched.

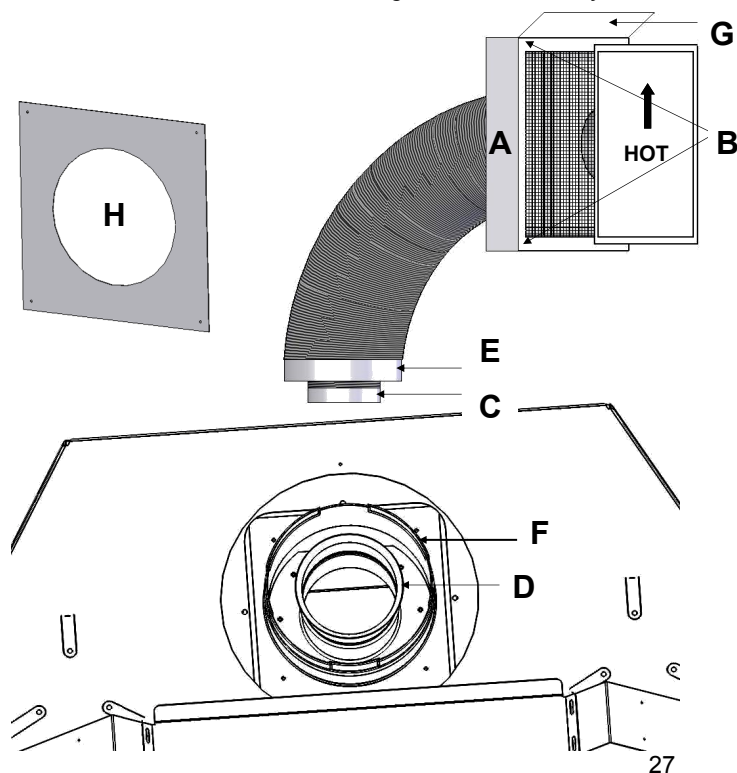
4. Place a bead of sealant outside 4" flex pipe collar (C) (end with EXTERNAL LIP) and sliding it into 4" pipe on extension kit or top of fireplace (D). Secure with 3 evenly spaced screws.
5. Place a bead of sealant inside 7" flex pipe collar (E) (end with the INTERNAL lip), sliding it over 7" pipe on top of fireplace (F). Secure with 3 evenly spaced screws.
6. If additional extension kits are required, repeat Steps 4 and 5, placing 4" & 7" pipes onto previous extension kit.

IMPORTANT

Refer to 8.1, Rear Vent Conversion Instructions, on page 19 to convert the fireplace from top vent ready to rear vent ready.

Horizontal vent sections require 1/4 in. (6 mm) rise for every 12 in. (305 mm) of travel.

Figure 8.14 Assembly and Installation of #700-1 Series

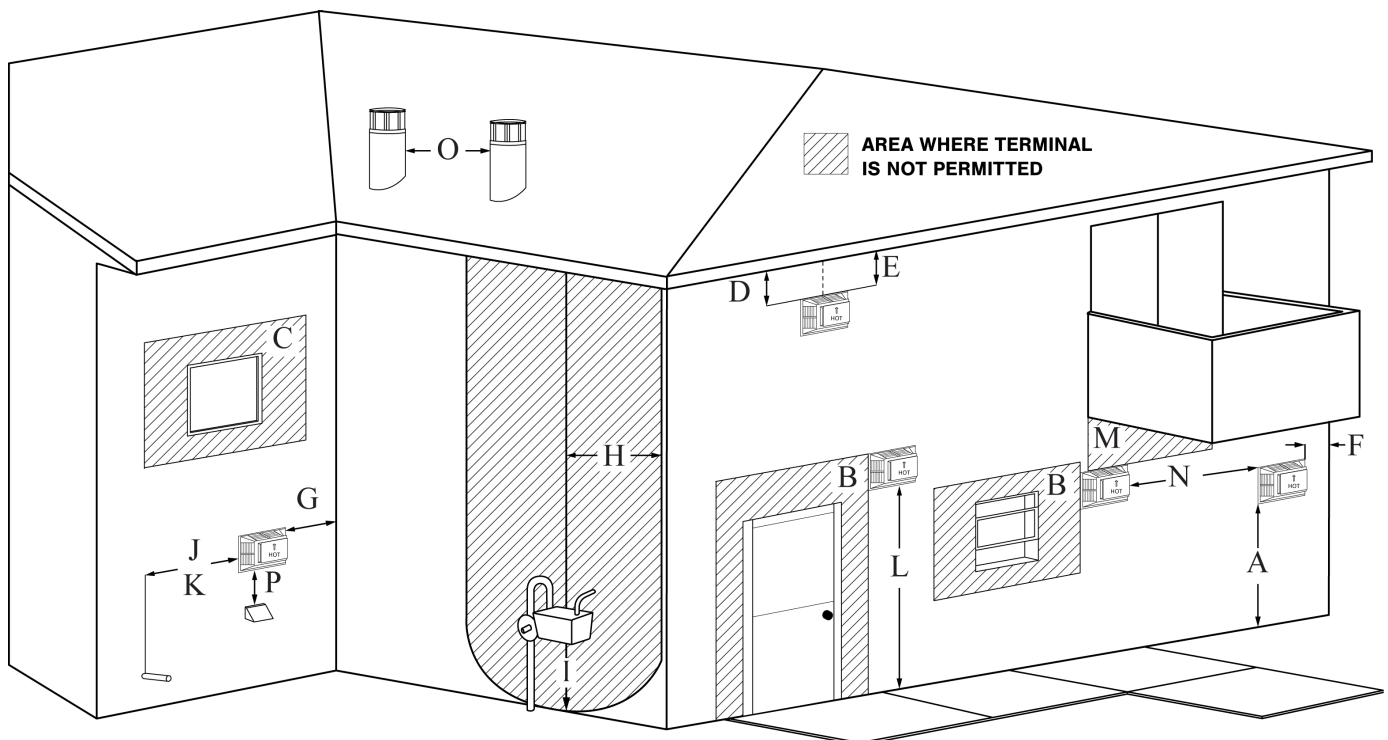


| LEGEND | |
|--------|---|
| A | Termination Box |
| B | Holes in Exterior Wall Plate (only 2 shown) |
| C | 4" Flex Pipe Collar |
| D | 4" Pipe on Fireplace or Extension Kit |
| E | 7" Flex Pipe Collar |
| F | 7" Pipe on Fireplace or Extension Kit (not shown) |
| G | Vinyl Firestop |
| H | Interior Firestop |

8.9 Termination Vent Cap Clearances

| This gas appliance must not be connected to a chimney serving any other appliance. | | |
|---|-------------------|-------------------|
| Location | Clearances | |
| | U.S. | Canada |
| A Above grade, veranda, porch, deck, balcony | 12 in. (305 mm) | 12 in. (305 mm) |
| B Operable window or door | 9 in. (229 mm) | 12 in. (305 mm) |
| C Permanently closed window* | 12 in. (305 mm)** | 12 in. (305 mm)** |
| D Ventilated soffit* ††** | 24 in. (610 mm) | 24 in. (610 mm) |
| E Unventilated soffit* ††** | 12 in. (305 mm) | 12 in. (305 mm) |
| F Outside corner* | 0 in. (0 mm) | 0 in. (0 mm) |
| G Inside corner* | 12 in. (305 mm) | 12 in. (305 mm) |
| H Meter/ 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 | 9 in. (229mm) | 12 in (305 mm) |
| K Mechanical air supply inlet | (††)(†) | 6 ft. (1.83 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 two sides | 12 in. (305 mm) | 12 in. (305 mm) |
| N Between two horizontal terminations | 12 in. (305 mm) | 12 in. (305 mm) |
| O Between two vertical terminations (terminations may be the same height) | 12 in. (305 mm) | 12 in. (305 mm) |
| P Above furnace exhaust or inlet | 12 in. (305 mm) | 12 in. (305 mm) |
| * Clearance must be in accordance with local installation codes and the requirements of the gas supplier. | | |
| ** Recommended to prevent condensation on window | | |
| *** Not to be installed above a gas meter/regulator assembly within 3 ft. (914 mm) horizontally from the centerline of the regulator within a height of 15 ft. (4.57 m) | | |
| †† 3 ft. (914 mm) above if within 10 ft. (3.05 m) horizontally. | | |
| † Massachusetts: 10 ft. (3.05 m) | | |
| ††* NOTICE: 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. | | |
| ††** VINYL SOFFIT / VINYL CEILING / VINYL OVERHANG DISCLAIMER: Clearances to heat resistant material (i.e. wood, metal). This does not include vinyl. Husson Manufacturing Co., Inc. will not be held responsible for heat damage caused from terminating under vinyl overhangs, vinyl ceilings, or vinyl ventilated/unventilated soffits. | | |

Figure 8.15, Vent Cap Locations



8.10 Vertical Vent Termination Clearances

| Roof Pitch | Minimum Height (H) | |
|---------------------|--------------------|--------|
| | Feet | Meters |
| Flat to 6/12 | 1.0 | 0.30 |
| Over 6/12 to 7/12 | 1.25 | 0.38 |
| Over 7/12 to 8/12 | 1.5 | 0.46 |
| Over 8/12 to 9/12 | 2.0 | 0.61 |
| Over 9/12 to 10/12 | 2.5 | 0.76 |
| Over 10/12 to 11/12 | 3.25 | 0.99 |
| Over 11/12 to 12/12 | 4.0 | 1.22 |
| Over 12/12 to 14/12 | 5.0 | 1.52 |
| Over 14/12 to 16/12 | 6.0 | 1.83 |
| Over 16/12 to 18/12 | 7.0 | 2.13 |
| Over 18/12 to 20/12 | 7.5 | 2.27 |
| Over 20/12 to 21/12 | 8.0 | 2.44 |

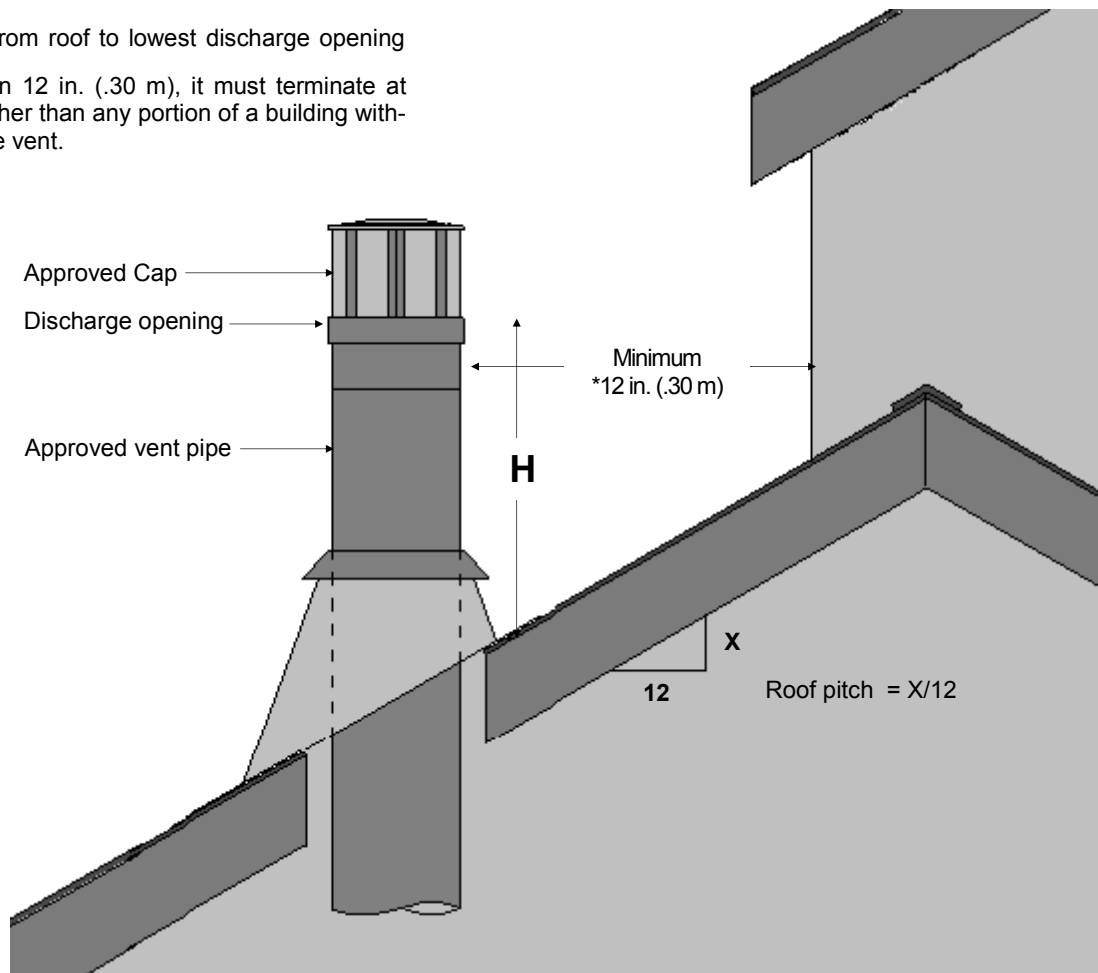
CAUTION

This appliance must not be connected to or joined with any chimney flue serving any other appliance.

Figure 8.16, Vertical Vent Termination Clearances

H - Minimum height from roof to lowest discharge opening

* If vent is closer than 12 in. (.30 m), it must terminate at least 2 ft. (0.61 m) higher than any portion of a building within 10 ft. (3.05 m) of the vent.



9.0

#970 HEAT DUCT KIT

CAUTION

Read and follow instructions carefully prior to and during installation of this optional heat duct kit.

WARNING

INSTALLATION OF THIS DUCT KIT & ELECTRICAL WIRING MUST BE PERFORMED BY A QUALIFIED SERVICE PERSON. INSTALLATION MUST BE IN ACCORDANCE WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL ELECTRICAL CODE, ANSI/NFPA 70, OR THE CANADIAN ELECTRICAL CODE, CSA C22.1.

DO NOT SUBSTITUTE THE FLEXIBLE HEAT DUCT PIPE WITH PLASTIC VENT PIPE.

This kit includes:

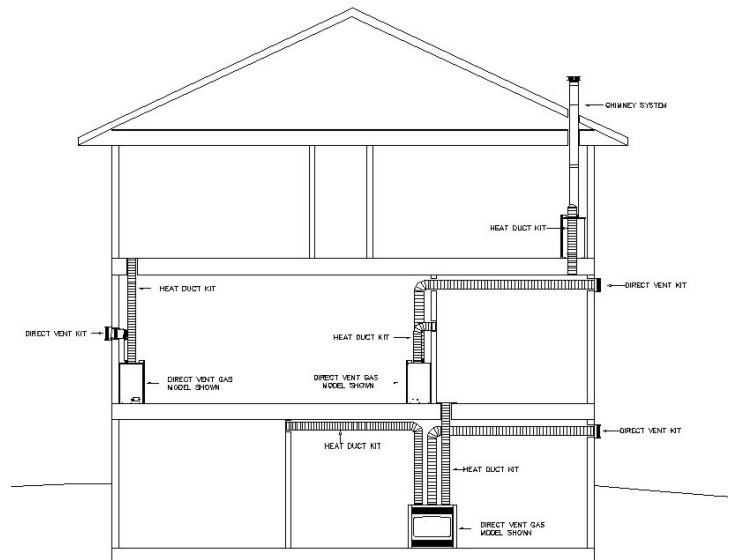
- | | |
|--|-----------------------------|
| (1) 6 in. (152 mm) diameter flexible heat duct pipe, expandable to 20 ft. (6.10 m) | (2) Mounting bracket screws |
| (1) Register mounting frame with collar | (11) Sheet metal screws |
| (1) Register cover with screws | (4) Sheet rock screws |
| (1) Duct collar | (3) Flange nuts |
| (1) Fan assembly | (1) Strapping cord |
| (1) Fan housing cover plate | (3) Wire nuts |
| (1) Speed control mounting bracket | (2) Fan wire connectors |
| (1) Speed Control | |

NOTE: A junction box, cover, and hardware must be purchased to mount the speed control.

9.1 Specifications

- Clearance to combustibles: 0 in. (0 mm)
- Clearance from air duct to ceiling: 2 in. (51 mm)
- Minimum vent run: 2 ft. (609 mm)
- Maximum vent run: 20 ft. (6.10 m) in any direction, including downward.
- The fireplace is manufactured with (2) heat duct knock-outs. One, or both, may be utilized.
- The register mounting frame is designed to fit between 2" x 4" stud walls, 16 in. (406mm) on center.
- An oval duct pipe (equivalent to 6 in. [152 mm] round) can be used in conjunction with the included 6 in. (152 mm) diameter flexible heat duct pipe, included with this kit. It must be purchased from a HVAC supplier.
- Carefully plan location of duct pipe runs and register in relation to fireplace.

Figure 9.1, Possible Heat Duct Locations



9.2 Attach Heat Duct to Fireplace

1. Bend the tabs on fireplace top up. With circulation holes facing downward, use (3) screws to fasten the tabs to the duct collar.
2. Secure duct pipe to collar. Confirm that the screws penetrate both the duct pipe and the collar. Do not cover circulation holes on the duct collar.
3. Position the fireplace in the desired location.

Figure 9.2, Attached Heat Duct



9.3 Install Register Mounting Frame and Junction Box

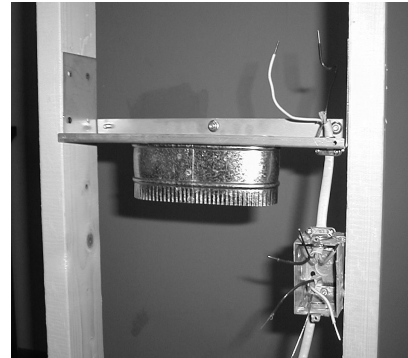
The register mounting frame and the fan housing are designed to fit between 2" x 4" stud walls, 16 in. (406mm) on center. Additional framing is required if larger opening exists.

NOTE

The fan motor on the heat duct kit may be on opposite side of fan shown in photos. The romex connector and grounding screw are located on the motor side of the bracket.

1. Locate and mark the position of the register.
2. Insert the register mounting bracket into the 16 in. (406 mm) opening.
 - A. Level and adjust the mounting bracket. The sides of the mounting bracket shall be flush with front of studs; the front of mounting bracket shall protrude 1/2 in. (13 mm) in front of the studs. This allows enough room for 1/2 in. sheetrock installation.
 - B. Secure the mounting bracket to framing with the provided (4) sheetrock screws.
3. Install the junction box on the wall at desired location. The junction box is used to house the speed control assembly, which controls fan speed and operation.

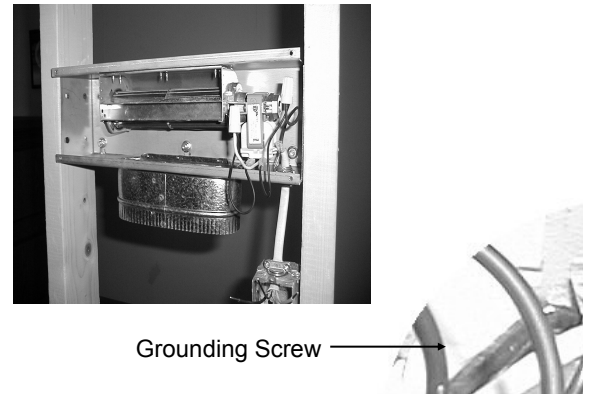
Figure 9.3, Register Mounting Frame



9.4 Install and Wire Fan Assembly

1. Attach, but do not tighten, flange nuts to the mounting studs on the back of the register mounting bracket.
2. Align (3) slots on the fan assembly to studs, then slide the fan into position. Tighten the flange nuts to secure.
3. Slide the included fan wire connectors into the fan terminals.
4. Properly wire the 110 VAC wire to the hot and neutral fan wires, and the speed control wires, with provided wire nuts. Run 110 VAC to fan speed control, then from the fan speed control through the romex connector (on the register bracket). Secure grounding wire to the grounding screw installed in register mounting bracket.

Figure 9.4, Installed Fan Assembly

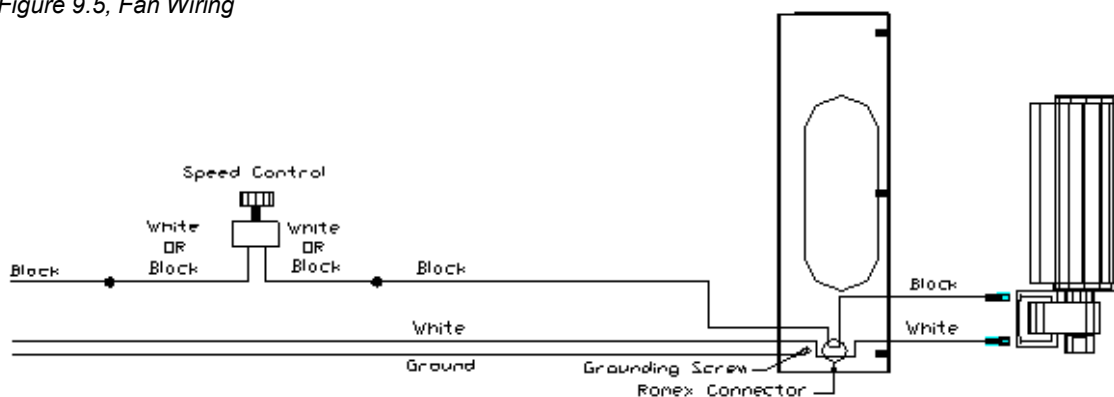


Grounding Screw

IMPORTANT

Fan must be properly grounded. Use provided grounding screw to secure grounding wire to the register mounting bracket.

Figure 9.5, Fan Wiring



9.5 Run and Secure Duct Pipe

1. Run the duct pipe to the register location.
2. If an oval pipe is to be used in conjunction with the 6 in. (152 mm) round duct pipe,
 - A. Shape the 6 in. (152 mm) round duct pipe to fit **outside** the oval duct pipe. Secure with the screws provided.
 - B. Slide the oval duct pipe over the oval collar on the register mounting bracket. Secure with the sheet metal screws provided.OPTIONAL: Secure duct pipe with any additional screws provided.
3. If an oval duct pipe is not used,
 - A. Shape the 6 in. (152 mm) round duct pipe so it will fit **outside** the oval collar on the register mounting bracket.
 - B. Slide the round duct pipe until it touches the register mounting bracket.
 - C. Position the locking strap around the 6 in. (152 mm) duct pipe, above the crimped metal.
 - D. Pull the locking strap tight enough to firmly secure the duct pipe.

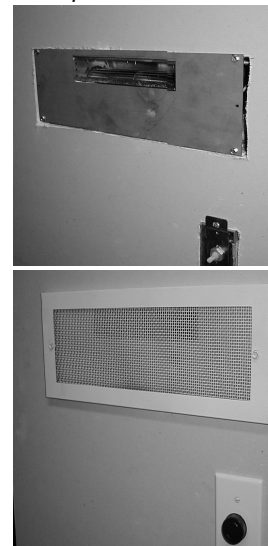
Figure 9.6, Secured Duct Pipe



9.6 Complete the Installation

1. Install sheetrock or wall finish material as desired before attaching the register cover and fan housing cover plate.
2. Position the cut-out portion of the fan housing cover plate over the fan chute to allow air flow. Align the holes in the fan housing cover plate to the corresponding holes in the register mounting plate and fan assembly. Secure with (4) screws provided.
3. Slide the speed control through the mounting bracket. Secure with the mounting nut.
4. Secure mounting bracket to the junction box with the (2) screws provided.
5. Center the register cover over the fan housing cover plate to install. Secure register cover to stud wall with the provided mounting screws.
6. Attach a cover plate (not provided), then install the control knob for the speed control.
7. Complete the fireplace installation by following the instructions included with the fireplace.

Figure 9.7, Completed Installation



9.7 Operating Instructions

1. After complete fireplace installation and subsequent initial burn period, turn the fireplace burner ON by following the lighting instructions included with the fireplace.
2. Allow the fireplace to produce heat for approximately 15 minutes.
3. To operate the heat duct fan, turn the wall-mounted speed control *clockwise* until it stops. The fan should turn on and be operating at its highest speed. Adjust the speed to desired air flow level by turning the speed control knob *counter-clockwise* until it 'clicks' off.

9.8 Maintenance

- The duct register must be kept clear and unobstructed. Clean and vacuum as necessary to remove dust, lint, etc. from fan which will inhibit air flow.
- Detach the register cover and the fan housing cover plate at least once a year to remove dust, lint, etc. from the fan. More frequent cleaning may be necessary.
- The fireplace must be maintained and serviced as outlined in the unit installation and operating instructions.

10.0 FIREPLACE SET UP

10.1 Glass Frame Assembly

WARNING

DO NOT OPERATE THIS FIREPLACE WITH THE GLASS FRONT REMOVED, CRACKED OR BROKEN. REPLACEMENT OF THE GLASS SHALL BE DONE BY A LICENSED OR QUALIFIED SERVICE PERSON.

CAUTION

To prevent the glass frame assembly from falling from the fireplace and becoming damaged, follow these instructions exactly when removing and installing the glass frame assembly.

10.1.1 Remove Glass Frame Assembly

1. Locate the spring-loaded handles securing the glass frame assembly at the bottom of firebox.
2. Pull bottom handles out and down to release glass frame assembly.
3. Lift glass frame assembly up and off (2) tabs at top of firebox.

10.1.2 Install Glass Frame Assembly

1. Place glass frame assembly top over tabs at top of firebox.
2. Pull bottom handles out and up to secure glass frame assembly bottom.

Figure 10.1a, Remove Glass Frame Assembly

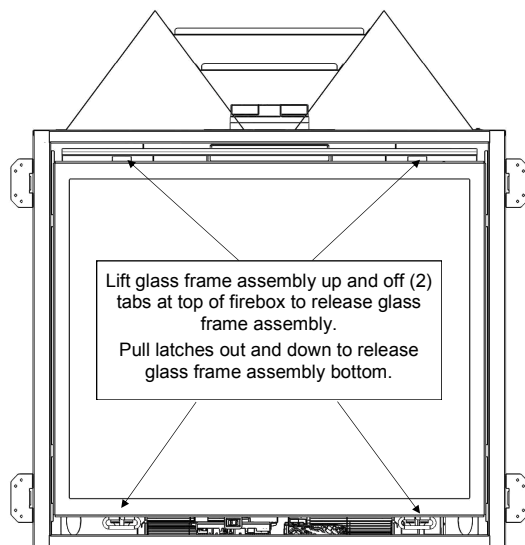
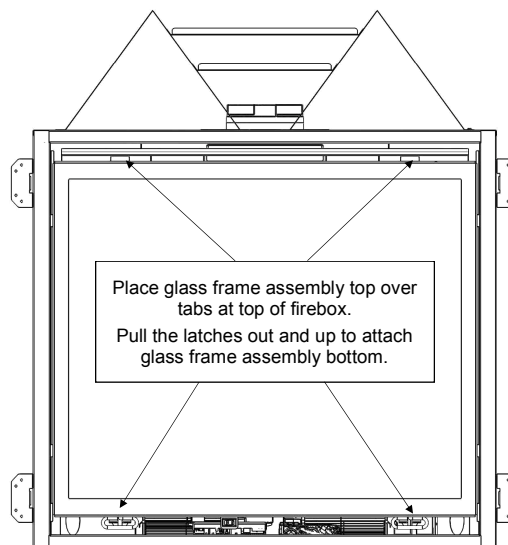


Figure 10.1b, Install Glass Frame Assembly



R.05

10.2 #B41-LKT Optional Light Kit

ATTENTION

If converting to LP (propane) gas, do so now before installing any media kit. Follow instructions included with the conversion kit (sold separately).

CAUTION

Disconnect all electric power from fireplace before performing any of these tasks.

This kit includes: (4) 20 Watt 120V Halogen Bulbs (1) Light Kit (2 lb.) Glass Media
(1) Bag of Klinkers (1) Rubber Grommet (2) Sheet Metal

NOTE

To avoid damage and prolong the life of halogen bulbs, never touch with bare hands. Always use a soft cloth when handling.

Remove the following items from the firebox:

- Safety Barrier
- Glass Valance
- Log Set
- Refractory Panels (if installed)
- Air Deflector and Burner Assembly
- (2) Ember Panels
- Burner Heat Shield
- Secondary Heat Shield

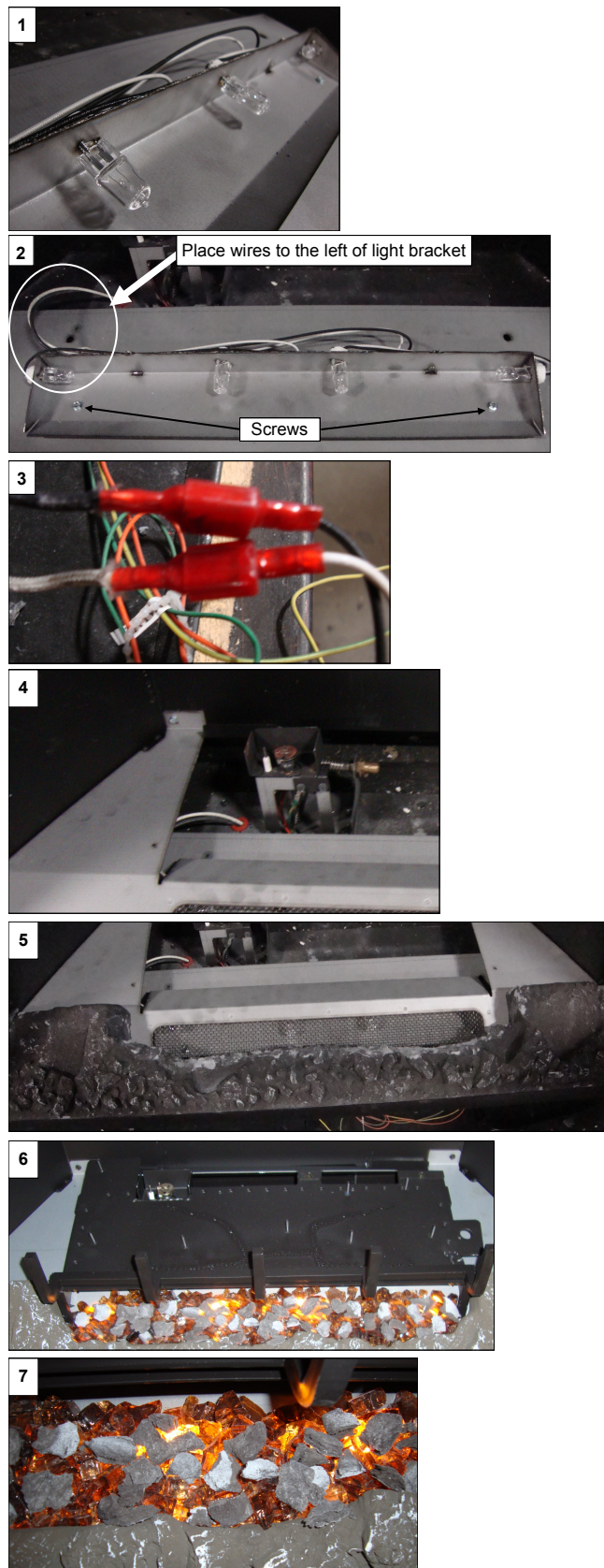
10.2.1 #B41-LKT Installation Instructions

1. Install the halogen light bulbs into the (4) receptacles located on the light kit assembly. See Illustration 1.
2. Secure light kit to the secondary heat shield with (2) screws.
3. Place light kit assembly in front of the pilot assembly with light bulbs facing to the front of the fireplace. Make sure light lead wires are pulled to the left of fireplace as shown in Illustration 2.
4. Remove triangular shaped plate from back left side of control board assembly and install rubber grommet.
5. Thread lead wires on the light bar through the rubber grommet.
6. Connect light wires to the light lead wires on the IFC module. Apply high temp sealant around the grommet and wires to create an air-tight seal. See Illustration 3.
7. Check that all bulbs are working by turning the lights on by remote. Unplug IFC module before continuing.
8. Install heat shield and secure with (2) screws previously removed, make sure light lead wires are pulled to the left of fireplace to prevent the wires being pinched by the heat shield. See Illustration 4.
9. Install the large ember refractory (previously removed). See Illustration 5.
10. Re-install refractory panels (if previously removed).
11. Re-install burner assembly and air deflector.
12. Place glass media into cavity in front of the burner assembly. See Illustration 6.
13. Follow by randomly placing klinkers on top of glass media. See Illustration 7.
14. Re-install log set. See Figure 10.4.
15. Use a steel bristle or stiff bristle brush to distribute Rock Wool Embers onto logs and burner.
16. Re-install glass valance, and safety barrier.

Figure 10.3, Installed Light Kit



Figure 10.2, #B41-LKT Light Kit Installation



10.3 #B41-500 Log Set Installation

ATTENTION

If converting to LP (propane) gas, do so now before installing any media kit. Follow instructions included with the conversion kit (sold separately).

NOTE

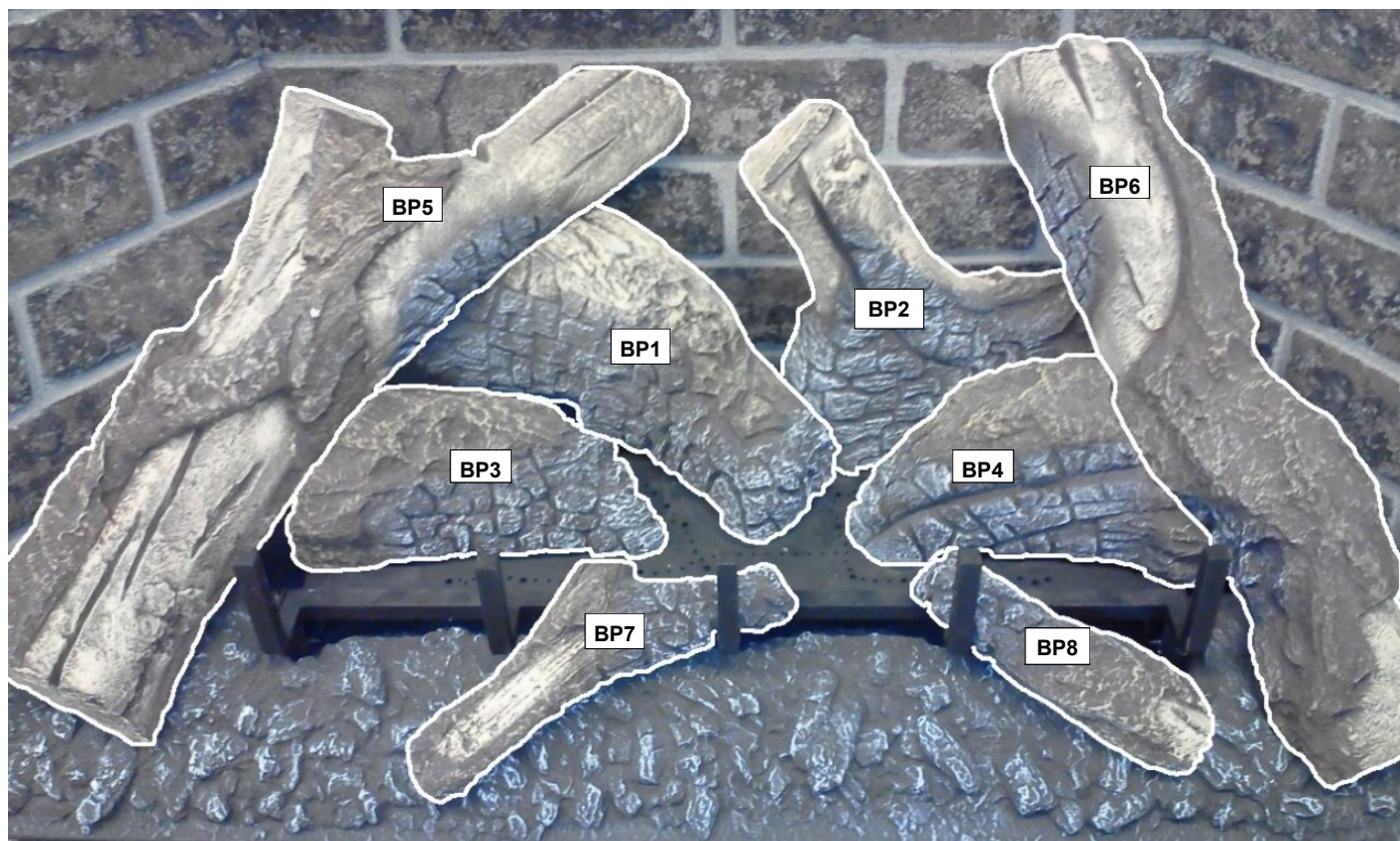
Log numbers are located on the bottom of each log. Refer to the instructions and Figure 10.4, Installed Log Set, for proper placement.

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.

1. Align mounting holes on bottoms of logs #BP1-#BP4 with mounting pins on burner. Set down into position.
2. Position #BP5 - #BP8 logs as shown in photo below.
3. Use a steel or stiff bristle brush to distribute Rock Wool Embers onto logs and burner.

Figure 10.4, Installed Log Set



10.4 Control Board Removal and Installation

CAUTION

If burner and/or pilot have been burning, use appropriate protection to avoid burns or damage to personal property before removing any components.

WARNING

DO NOT OPERATE THIS FIREPLACE WITHOUT SEALING GASKET (LOCATED UNDER THE CONTROL BOARD) IN PLACE. IF GASKETING IS DAMAGED, IT MUST BE REPLACED.

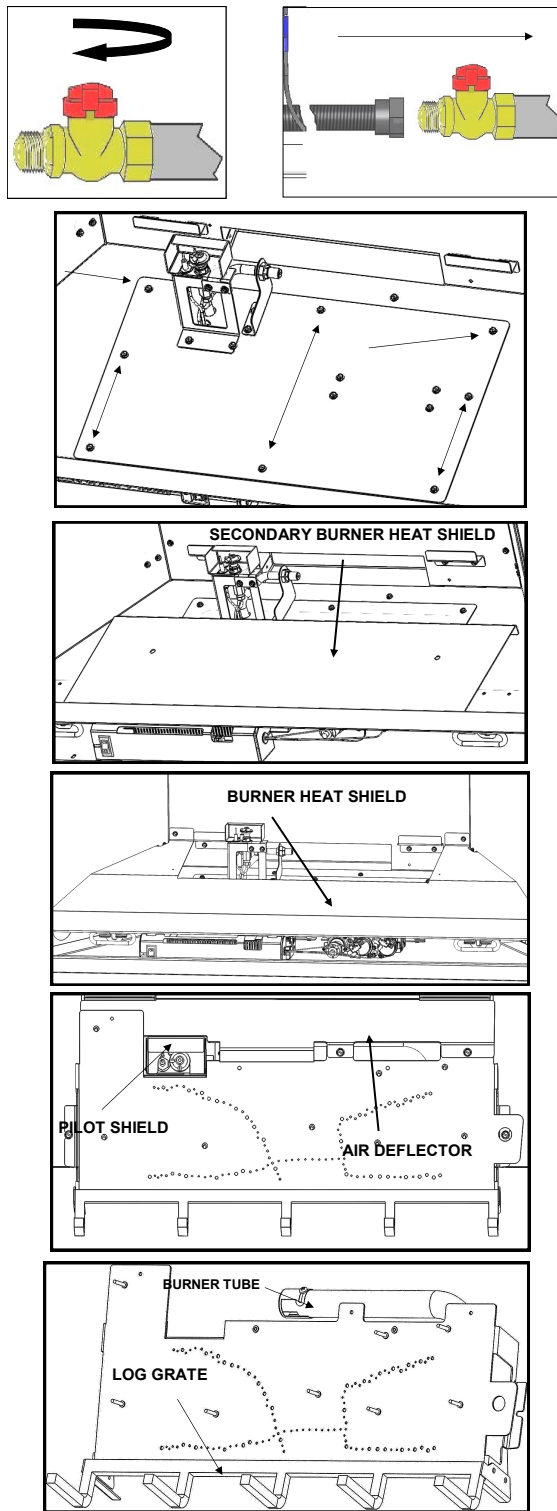
10.4.1 Control Board Removal

1. Turn fireplace off.
2. Remove safety barrier and glass frame assembly.
3. Shut off gas supply at manual shut-off valve.
4. Disconnect gas line flex tube from manual shut-off valve.
5. Disconnect all wiring harnesses attached to gas valve.
6. Remove logs.
7. Remove air deflector (2) screws. Lift up on air deflector and slide to the right to release.
8. Remove burner from firebox (2) screws.
9. Remove refractory / enamel panel set (if installed) and bottom refractory panel.
10. Remove burner heat shield (2) screws and secondary heat shield.
11. Remove and save (8) screws securing control board, lift board out of firebox being careful not to damage sealing gasket lying underneath.

10.4.2 Control Board Installation

1. Place control board in firebox, aligning holes in control board with holes in firebox bottom. MAKE SURE SEALING GASKET IS IN PLACE ON FIREBOX BOTTOM! Secure to firebox bottom with (8) screws previously removed.
2. Install secondary heat shield and burner heat shield into fireplace, ensure entire assembly (front flange) is inside firebox when completed.
3. Reinstall bottom refractory panel.
4. Reinstall refractory / enamel panel set, if previously removed.
5. Reinstall burner assembly, positioning burner venturi over burner orifice. Secure burner to heat shield with (2) screws previously removed.
6. Reinstall air deflector with (2) screws previously removed.
7. Reinstall log set.
8. Reconnect gas line to manual shut-off valve.
9. Reconnect all wiring harnesses to gas valve. Plug all components into electrical outlet.
10. Reinstall glass frame assembly and safety barrier.
11. Turn gas on.
12. Verify proper log placement, operation of fireplace, and any electrical components.

Figure 10.5, Control Board Removal & Installation



CAUTION

Check all connections for leaks with soapy water, whether field or factory made.

11.0 CONTROL SYSTEM

11.1 Control System Components

Figure 11.1, Gas Valve

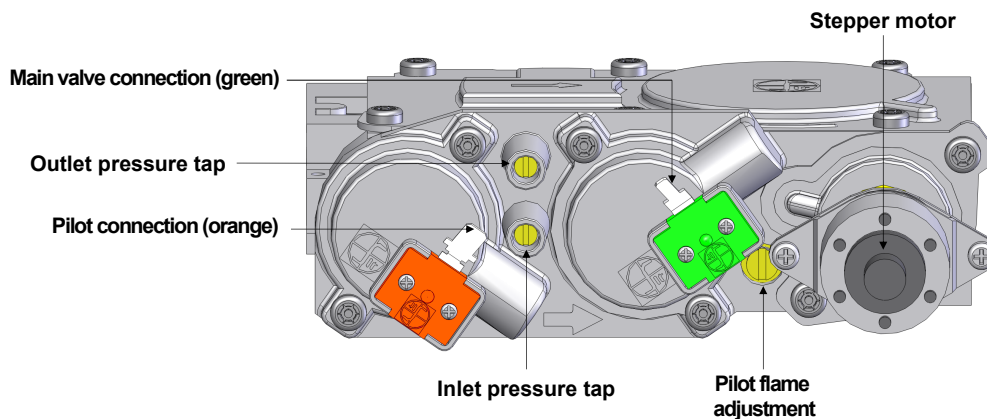


Figure 11.2, Pilot Assembly Components

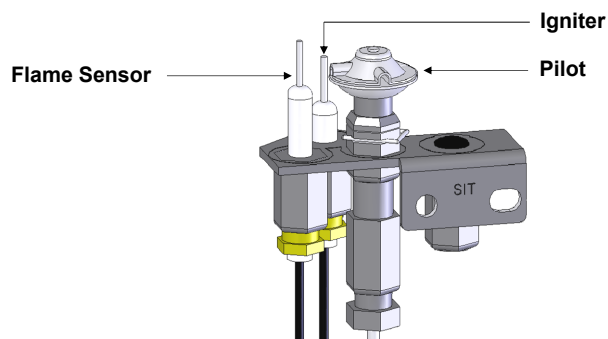
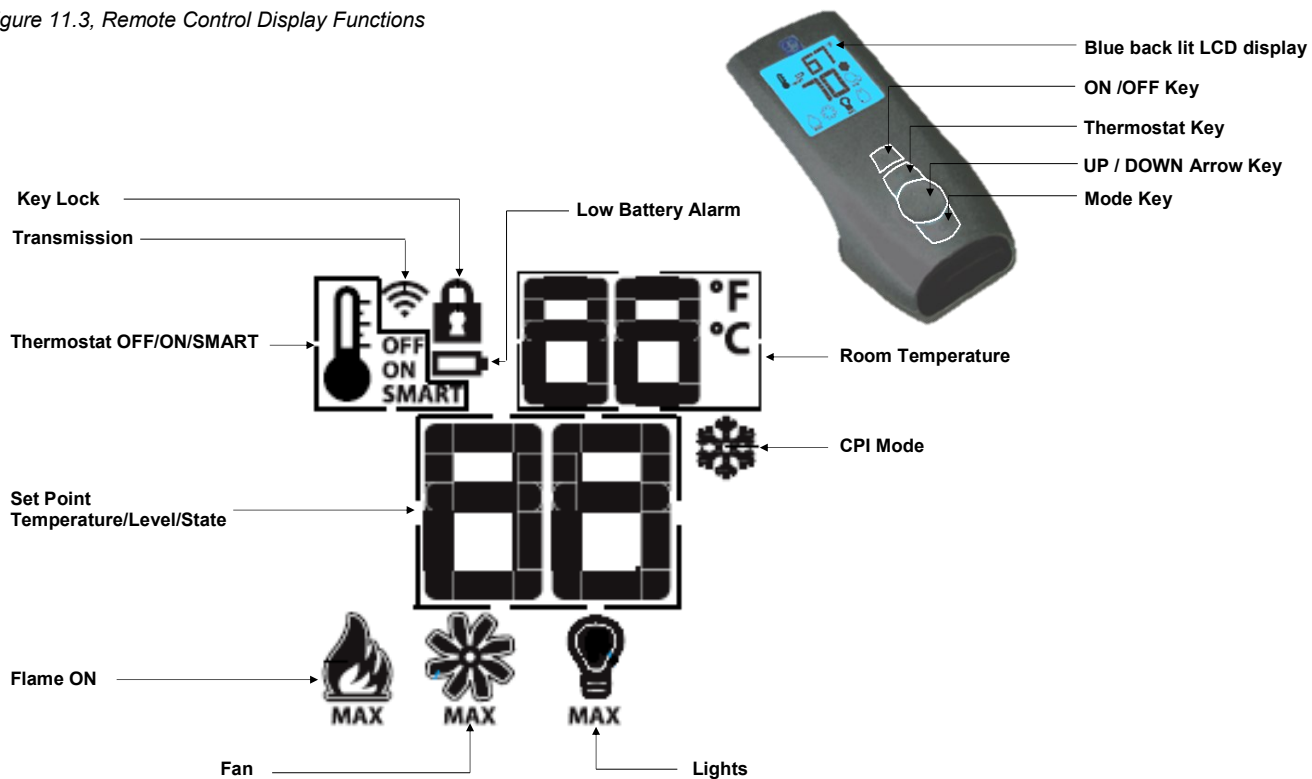


Figure 11.3, Remote Control Display Functions



11.2 Control System Operation

11.2.1 Prepare Components

1. Set ON/OFF rocker switch to OFF position on the IFC Control Module.
2. Install 4 AA batteries (included in components packet) into battery backup holder on the control module.
3. Connect the IFC Control Module to an AC power supply.
4. Install 3 AAA batteries (included in components packet) into the remote control battery bay, located at the base of remote control.

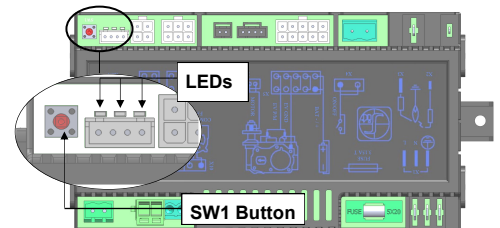
Remove all packaging / combustible material from fireplace before initializing the control system.

11.2.2 Initialize the Control System for the First Time

NOTE: Performing the next step will initiate pilot start-up in manual mode, where the pilot igniter will spark repeatedly. The pilot will ignite if gas is supplied to the fireplace.

1. Press the red SW1 button on IFC control module until the module beeps three (3) times, and/or an amber LED is illuminated, indicating the IFC control module is ready to synchronize with the remote control. See Figure 11.4.
2. Within five (5) seconds, push the remote control **ON/OFF** button. The IFC control module will beep four (4) times to indicate the remote control's command is accepted, and is set to the particular code of that remote control.
3. Press the remote control **ON/OFF** button again. The pilot will shut down indicating the remote has taken over. The system is now initialized.
4. Set the ON/OFF rocker switch to ON position to operate fireplace with the remote control.

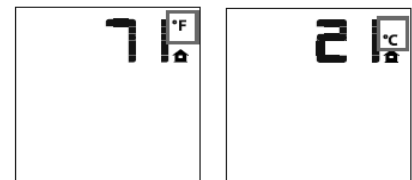
Figure 11.4, IFC Control Module



11.2.3 Adjust Temperature Display

1. With the system in **OFF** position, press **thermostat key** and **mode key** at the same time to change from degrees °F to degrees °C.
2. Look at the remote control LCD screen to verify that °C or °F is visible on right side of Room Temperature display.

Figure 11.5, Temperature Locations



11.2.4 Turn ON the Appliance

1. Starting from OFF, press the remote control **ON/OFF** key to turn ON the appliance.
2. The remote control will show all active icons on the LCD screen display, and the IFC control module will be commanded to start the ignition sequence. Refer to 15.15, Control Module Ignition Sequence, on page 37.

A single 'beep' from the IFC control module will confirm reception of the command.

11.2.5 Turn OFF the Appliance

1. With the system ON, press the remote control **ON/OFF** key to turn OFF the appliance.
2. The remote control will only show room temperature and its icon on the LCD screen display, and the IFC control module will be commanded to turn off the burner.

A single 'beep' from the IFC control module will confirm reception of the command.

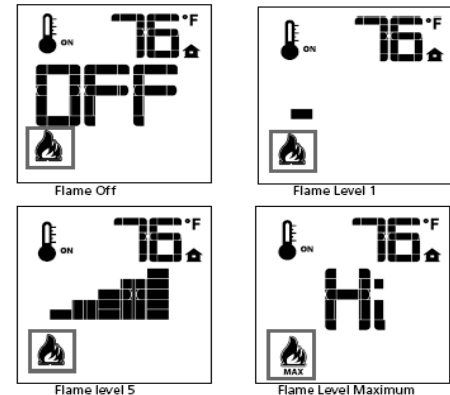
11.2.6 Control Flame Manually with Remote Control

The remote control has six (6) flame levels, displayed by steps as shown in Figure 11.6. Each press of the UP / DOWN Arrow Key will increase or decrease the flame level by one step. A single 'beep' will confirm reception of the command.

1. With system **ON** and the flame level at maximum, press the **down arrow key** once to reduce flame height by one step until flame is turned off.
2. Press the **up arrow key** once to increase flame height by one step. If the up arrow key is pressed while the control system is on but the flame is off, the flame will come on in 'Hi' position.

When SMART Thermostat is activated, manual flame height adjustment is disabled.

Figure 11.6, Flame Levels



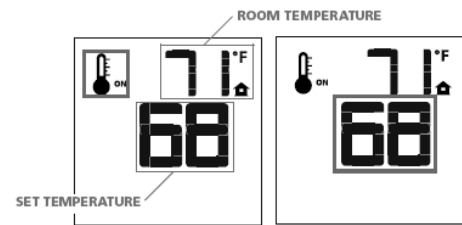
11.2.7 Remote Control Thermostat Operation

Room Thermostat

The remote control can operate as a room thermostat. The thermostat can be set to a desired temperature to control a room's comfort level. To activate this function,

1. Press the **thermostat key**. The LCD display will change to show the room thermostat is **ON**, and will display the set temperature.
2. To adjust the set temperature, press the **up** or **down arrow keys** until the desired set temperature is displayed on the LCD screen.

Figure 11.7a Room Thermostat Operation

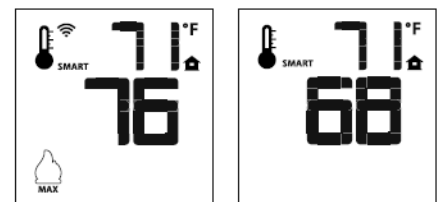


Smart Thermostat

The SMART Thermostat function adjusts the flame height based on the set temperature and the actual room temperature. As the room temperature gets closer to the set point, the smart function will automatically adjust the flame down. To activate this function,

1. Press the **thermostat key** until the word 'SMART' appears on the right side of the temperature bulb graphic.
2. To adjust set temperature, press the **up** or **down arrow keys** until THE desired set temperature is displayed on the LCD screen.

Figure 11.7b, Smart Thermostat Operation



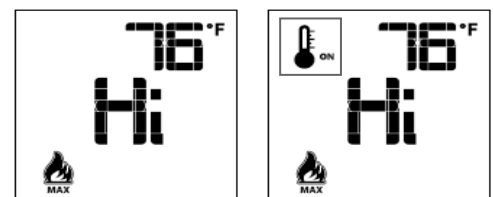
Deactivate Thermostat Operation

The remote control thermostat options (room and smart functions) can be disabled by deactivating thermostat operation. When the thermostat operation is deactivated, the remote control will still be able to operate the burner ON/OFF, and be able to function flame, fan, and light modulation. To deactivate this function,

1. Verify all (3) AAA type batteries are installed in the remote control.
2. Remove one AAA battery.
3. While re-inserting the AAA battery, push and hold down the **thermostat key**. The thermostat icon will not appear on the remote control LCD screen.

To re-activate thermostat operation, follow the same button sequence procedure described above. The thermostat icon will reappear on the remote control LCD screen.

Figure 11.7c, Deactivated / Activated Thermostat



11.2.8 Fan Speed Control

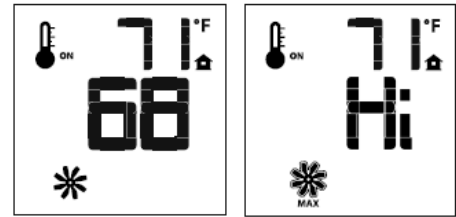
Fan speed can be adjusted through six (6) speeds. A single 'beep' will confirm reception of the command. To activate this function,

1. Press the **mode key** to index to the fan control icon.
2. Press the **up or down arrow keys** to turn on, off, or to adjust fan speed.

Thermostat Mode: Fan(s) have a five (5) minute delay time when fireplace is lit, allowing time for heat to build in fireplace before operating. The fan will continue to operate for approximately twelve (12) minutes after fireplace has been turned off.

Manual Mode: Fan(s) will operate at previous setting. There is no delay in start up or stop time.

Figure 11.8, Fan Remote Operation

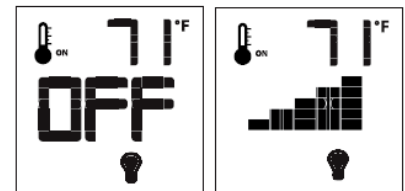


11.2.9 Accent Light Kit

The light intensity can be adjusted through six (6) levels. A single beep will confirm reception of the command.

1. Press the **mode key** to index to **light** icon.
2. Press the **up or down arrow keys** to adjust the intensity level.

Figure 11.9, Accent Light Remote Operation



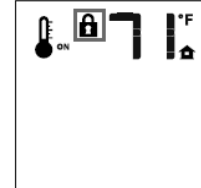
11.2.10 Key Lock

This function locks the keys to avoid unsupervised operation. A lock icon will appear on the LCD display screen once activated.

To Activate: Press the **mode key** and **up key** at same time.

To De-activate: Press the **mode key** and **up key** at same time.

Figure 11.10, Key Lock Indicator



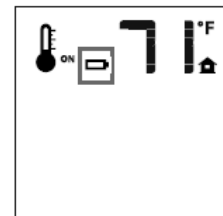
11.2.11 Low Battery Detection

Remote Control

Remote control battery lifespan depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etc.

- When the remote control batteries are low, a battery icon will appear on the LCD display before all battery power is lost.
- When batteries are replaced, this icon will disappear.

Figure 11.11, Low Battery Indicator



Backup Battery Pack

The backup battery pack is used when the electrical power to the appliance is interrupted. The lifespan of backup batteries depends on various factors including battery quality, number of ignitions, changes to room thermostat set point, etc.

- When backup batteries are low, a double-beep will be emitted from the IFC control module when it receives an ON/OFF command from the remote control. This is an alert for a low battery condition of the backup batteries and after this double-beep warning, no commands will be accepted until batteries are replaced.
- When batteries are replaced, a beep will be emitted from IFC control module as soon as powered.

11.2.12 Continuous Pilot / Intermittent Pilot (CPI / IPI)

This 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.

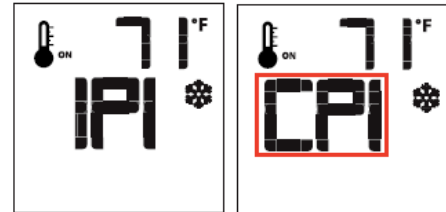
To activate Continuous Pilot Ignition mode,

1. With system in **OFF** position, press the **mode key** to index to CPI mode icon.
2. Press the **up arrow key** to activate CPI.
3. Press the **down arrow key** to return to IPI. A single beep will confirm the reception of the command.

A snowflake icon will be visible during setup of either IPI or CPI modes.

- In IPI mode, the snowflake is not visible on LCD screen.
- In CPI mode, the snowflake is visible on LCD screen.

Figure 11.12, Pilot Mode Indicator

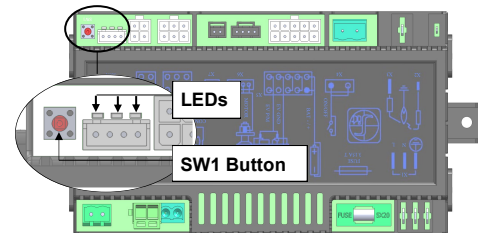


11.2.13 Reset the System for Manual Operation

Manual operation of the control system will only operate the burner on 'HI.'

1. Put the **ON/OFF switch** in OFF position.
2. Press the **red SW1 button** on IFC control module until the module emits three (3) beeps and an amber LED is illuminated. This indicates the IFC control module is ready to synchronize with the remote control.
3. Within five (5) seconds, press the **red SW1 button** on IFC control module again. The pilot will automatically light.
4. Turn main burner on by pressing **ON/OFF switch** to ON position, turn off by pressing ON/OFF switch to OFF position. Pilot will remain lit even if burner is turned off.

Figure 11.13, IFC Control Module



11.2.14 Automatic Safety Restart

This system will execute an automatic turn OFF command within (24) hours of a continued pilot flame ignition. This allows the system to verify correct safety functions. After turn OFF sequence is completed, the IFC control module will re-execute the latest command.

11.2.15 Control Module Ignition Sequence Information

IFC Control Module Ignition Sequence

First Attempt

- Starting from OFF, press remote control **ON button**.
- Approximately (4) seconds after ON/OFF button is pushed, the IFC control module will start the spark.
- First ignition try will last approximately (60) seconds.

Second Attempt

- If there is no flame ignition (rectification) during the first try for ignition, the IFC control module will stop sparking for approximately (35) seconds.
- After this wait time, the IFC control module will start the second try for ignition by sparking for approximately (60) seconds.
- If ignition is successful on third ignition attempt, there will be a (60) second delay before the main burner lights.

Third Attempt

- If after this third attempt there is still no positive ignition, the IFC control module will go into **LOCK OUT** and the red LED will blink (3) times in intervals until the system is reset.

IFC Control Module Lock Out

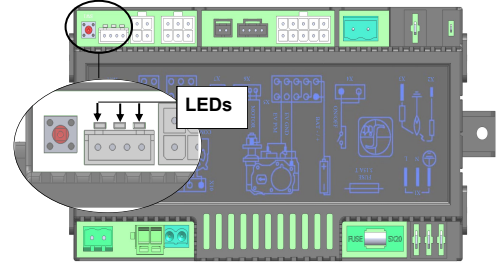
After the IFC control module attempts positive ignition for the third time, the control system will go into **LOCK OUT**. The red LED will blink (3) times until the system is reset.

The location of the LED indicator on the IFC control module is determined by fireplace model and design. The red LED indicator also may be located in the component housing behind the lower grill, or behind the access panel on the left side.

In Summary:

1. The IFC control module will try (2) times for ignition.
2. Each try for ignition will last approximately (60) seconds.
3. The wait time between the two tries is approximately (35) seconds.

Figure 11.14, IFC Control Module LED Lights Location



Reset IFC Control Module—Lock Out

Reset Using ON/OFF Switch on Control Module:

- Set ON/OFF switch to OFF position.
- Wait approximately (2) seconds and move switch to the ON position. The ignition sequence will start again.

Reset Using Remote Control ON/OFF Button:

- Turn the system off by pressing the remote control ON/OFF button.
- After approximately (2) seconds press the remote control ON/OFF button again. The IFC control module will reset and the ignition sequence will start again.

Reset By Cycling Flame:

- In the Manual Flame Control Mode, use the Down Arrow Button to reduce flame to off (indicated by OFF displayed on Remote Control Display Screen).
- Wait approximately (2) seconds and press the Up Arrow Button. The ignition sequence will start.

Figure 11.15, Remote Control Functions for System Lockout



11.2.16 Additional Diagnostic Indications Information

Low Battery Condition (<4V) Remote Control:

- Battery Icon will appear on LCD remote control display.
- Replace batteries.

Low Battery Condition (<4V) Battery Backup:

- The red LED Indicator will blink (1) time in intervals.
- A low double-beep emits from the IFC control module when it receives an ON/OFF command from the remote control..
- Replace Batteries.

Pilot Flame Error Condition:

- Red LED Indicator will blink (2) times in intervals.
- Contact your dealer if this occurs.

System Lock Out Condition:

- Red LED Indicator will blink (3) times in intervals.
- Verify gas is turned on.
- Verify flame sensor is not shorted.
- Follow **Reset IFC Control Module—Lock Out** instructions above.

12.0 LIGHTING AND SHUTDOWN

FOR YOUR SAFETY—READ BEFORE OPERATING

WARNING

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

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

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

WHAT TO DO IF YOU SMELL GAS:

- * Do not try to light any appliance.
- * Do not touch any 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.

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 / any gas control which has been under water.

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.

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

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.

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.

STOP!

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

12.1 Operating Instructions

ATTENTION

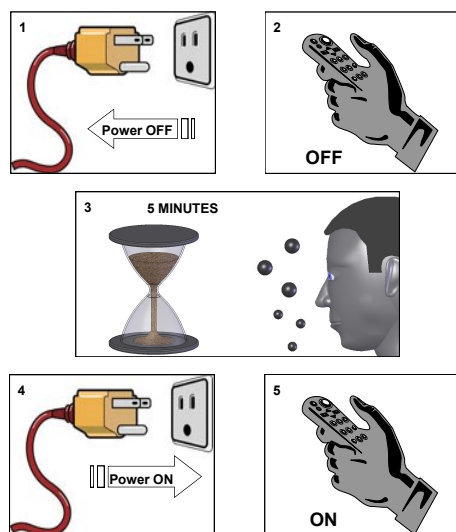
This appliance is equipped with an ignition device which automatically lights the pilot. **DO NOT** try to light the pilot by hand.

1. Turn off all electric power to the appliance.
2. Press hand held remote **OFF** button.
3. Wait five (5) minutes to clear out any gas. After 5 minutes, smell for gas, including near the floor.

If you smell gas, **STOP!** Follow 'WHAT TO DO IF YOU SMELL GAS' on the previous page. If you do not smell gas, proceed to next step.

4. Turn ON all electric power to the appliance.
5. Press hand held remote **ON** button.

Figure 12.1, Steps for Operating Appliance



CAUTION

If the fireplace will not operate, follow instructions 12.2, To Turn Gas Off to Appliance, and call your service technician or the gas supplier.

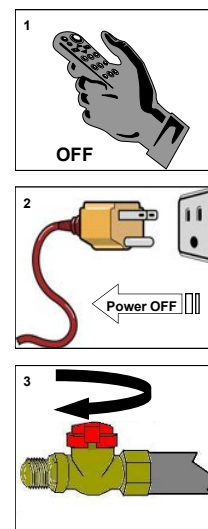
NOTE

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

12.2 To Turn Gas Off to Appliance

1. Press the hand held remote **OFF** button.
2. Turn OFF all electric power to appliance if service is to be performed.
3. Turn manual shut-off valve to **OFF**. The manual shut-off valve is located underneath the lower louver, on the left side of the gas valve.

Figure 12.2, Steps for Manual Gas Valve Shut-Off



13.0 FINALIZING THE INSTALLATION

13.1 Pressure Testing

NOTE

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

IMPORTANT

Pressure check taps for 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 13.1.1 and 13.1.2 for proper testing procedures. For manifold pressures, refer to Table 13.1, Gas Pressure Information.

13.1.1 Inlet Pressure Test

NOTE: Make sure to apply the incoming pressure test with all other gas appliances on, or at full capacity in the house for proper pressure reading.

1. Loosen inlet (IN) pressure tap screw (counter-clockwise).
2. Attach manometer using a 1/4 in. (6 mm) I.D. hose.
3. Light pilot and burner. Check pressure to ensure it is between the minimum and maximum recommended pressure settings.
4. Turn off burner and pilot.
5. Disconnect hose and tighten inlet (IN) pressure tap screw (clockwise). Screw should be snug. Do not over tighten.
6. Relight pilot and burner. Then reattach manometer to the inlet pressure tap to verify the tap is completely sealed. Manometer should read no pressure.

NOTE

If the 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.

13.1.2 Manifold Pressure Test

1. Light pilot.
2. Loosen manifold (OUT) pressure tap screw (counter-clockwise).
3. Attach manometer to pressure tap using a 1/4-in I.D. hose.
4. Light burner. Check manometer reading.
5. Turn burner and pilot off.
6. Disconnect manometer hose and tighten manifold (OUT) pressure tap screw (clockwise). Screw should be snug. Do not over tighten.
7. Attach the manometer to the manifold pressure tap to verify it is completely sealed. The manometer should read no pressure when pilot and burner are on.

Figure 13.1, Pressure Test Locations

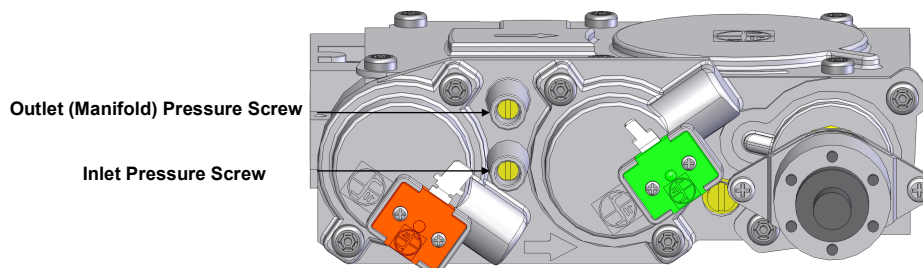


Table 13.1, Gas Pressure Information

| Fuel | Minimum Inlet Gas Pressure | Maximum Inlet Gas Pressure | Manifold Pressure (High) | Manifold Pressure (Low) |
|-------------|--|----------------------------|--------------------------|-------------------------|
| Natural Gas | 5" WC (1.25 kPa) (7" WC [1.74 kPa] recommended) | 10.5" WC (2.62 kPa) | 3.8" WC (.95 kPa) | 1.1" WC (.27 kPa) |
| LP Gas | 12" WC (2.99 kPa) (recommended) | 13" WC (3.24 kPa) | 11" WC (2.74 kPa) | 2.9" WC (.72 kPa) |

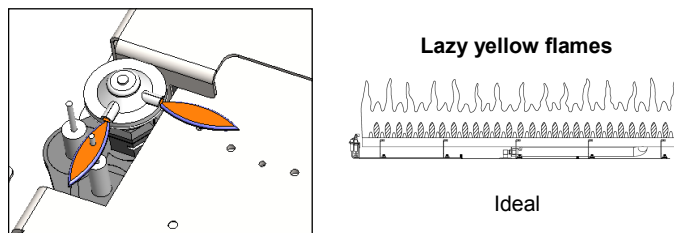
13.2 Burner Tube Venturi Adjustment

13.2.1 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 the fireplace is first lit, the flames will be blue. Flames will gradually turn yellowish-orange during the 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.

Figure 13.2, Correct Pilot Flame and Flame Appearance



NOTE

If soot is present, check log positioning before adjusting burner venturi. Logs must not block burner ports. Refer to 10.3, #B41-500 Log Set Installation, on page 35.

IMPORTANT

Slight adjustments to venturi opening will create dramatic results. Adjust at slight increments until desired look is achieved. Always burn the fireplace for at least 15 minutes, and allow the appliance time to cool before making any further adjustments.

13.2.2 Venturi Adjustment

WARNING

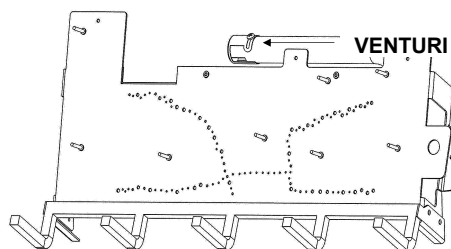
Burner tube adjustable venturi positioning should only be performed by a qualified personal service technician.

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

Table 13.2, Factory Set Burner Tube Venturi Settings (adjust as necessary for your installation)

| Type of Fuel | Measurement of Venturi Opening |
|------------------|--------------------------------|
| Natural Gas | 1/8 in. (3 mm) |
| LP (Propane) Gas | 5/8 in. (16 mm) |

Figure 13.3, Burner Venturi Location



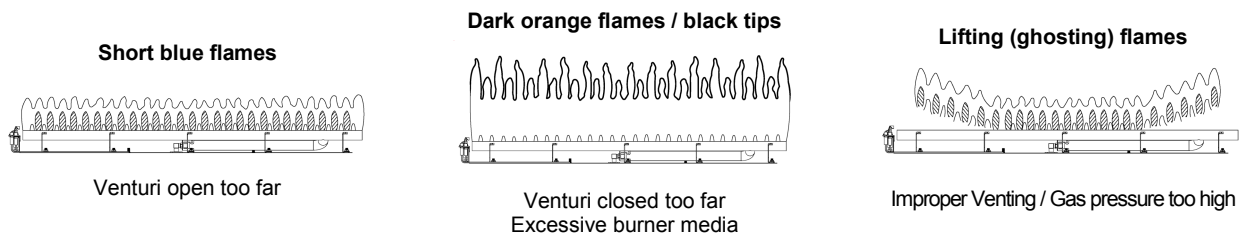
TO ADJUST:

1. Remove safety barrier and glass frame assembly.
2. Remove log set.
3. Remove burner assembly.
4. Loosen screw on burner venturi and adjust as necessary.
5. Re-tighten screw.
6. Reinstall all components previously removed.
7. Light fireplace. Wait at least 15 minutes before determining if any further adjustments are necessary.

Table 13.3, Burner Tube Venturi Adjustment and Flame Appearance

| Venturi Position | Flame Color | Venturi Adjustment |
|------------------|-----------------------------------|--------------------------------|
| Closed too far | Dark orange flame with black tips | Open venturi setting slightly |
| Open too far | Blue flames | Close venturi setting slightly |

Figure 13.4, Adjustment and Flame Appearance



13.3 Restrictors

WARNING

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

13.3.1 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.

Table 13.4, Restrictor Troubleshooting

| Flame Appearance | Draft Problem | Restrictor Solution |
|----------------------|---|---|
| Short, flickering | Excessive draft - not enough restriction | Add restrictor |
| Lifting or ghosting* | Insufficient draft - too much restriction | Remove inner ring(s) on restrictor or remove restrictor |

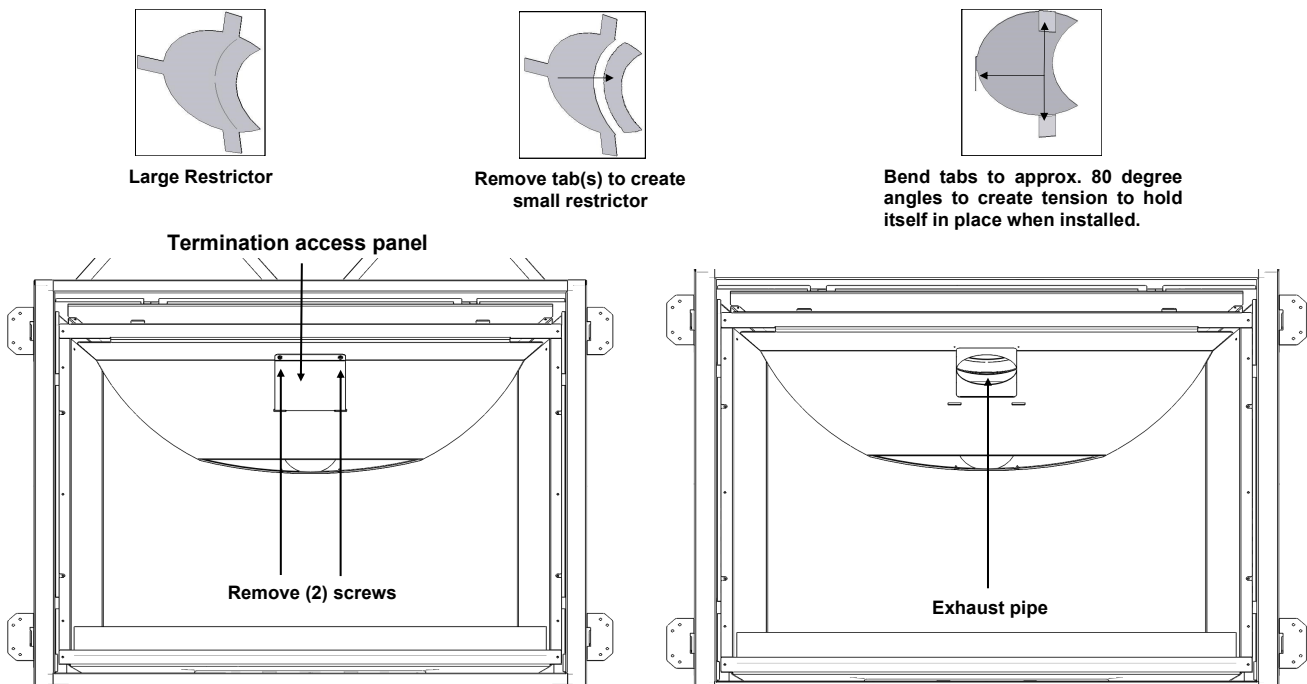
*Improper venting installation may cause flames to lift or "ghost" - a dangerous situation. Inspect flames after installation to ensure proper performance. If determined that venting is correct, and the restrictor has been removed, yet flames are still lifting or ghosting, shut off gas supply to fireplace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

13.3.2 Restrictor Installation and Modification

If it is determined that a restrictor is needed or restrictor modification is required after termination is installed, access can be reached through the fireplace baffle.

1. Remove safety barrier and glass frame assembly (from fireplace).
2. Remove optional refractory kit (if installed) and log set.
3. Remove (2) screws securing termination access panel. Release panel tabs from slots in baffle.
4. Depending on your specific needs, determined by chart above along with other factors, make necessary modifications.
5. If installation of a restrictor (included in fireplace components packet) is necessary, bend tabs on restrictor to approx. 80 degree angles to create tension when inserted into exhaust pipe on fireplace. Insert restrictor into 4" exhaust pipe with tabs pointing towards you.
6. If modification is necessary, remove restrictor by pulling it down and out of 4" exhaust pipe.
7. Reinstall termination access panel, inserting tabs in panel into slots in baffle. Secure with (2) screws previously removed.
8. Reinstall log set and optional refractory kit (if installed).
9. Attach glass frame assembly and safety barrier. Light fireplace. Wait 15 minutes before determining if any further modifications are necessary.

Figure 13.5, Restrictor Installation and Modification



14.0 TROUBLESHOOTING

ATTENTION

TROUBLESHOOTING MUST BE PERFORMED BY A QUALIFIED TECHNICIAN.

- Before proceeding with the steps in the following troubleshooting guide, verify the power supply is present, and the battery pack and remote control batteries are fresh and installed with correct polarity.
- Make sure all connections between the wire harnesses and the system components are proper and positive.
- Make sure the communication link between the remote control and the IFC control module is established.
- Verify inlet pressure meets the recommended inlet pressure. If necessary, adjust line pressure regulator.

14.1 Pilot Will Not Light / Stay Lit

- Electrical power interrupted or disconnected. Restore electrical power to fireplace or use battery back-up. Ensure batteries are fully charged if using battery back-up as power source.
- Verify gas supply is turned on. Check the remote shut-off valves from fireplace. Usually there is a valve near the main gas line. There may be more than (1) valve between the fireplace and the main gas line.
- Low gas pressure. Low gas pressure can be caused by several situations such as a bent line, a too narrow diameter pipe, or a low line pressure. Consult a plumber or a gas supplier.
- No LP in tank. Check LP (propane) tank. Refill if necessary.
- Wiring disconnection. Use wiring schematic in this manual to determine that all wiring connections are secure and correct.
- Pilot flame not making contact with the flame rectification sensor on the pilot assembly. This valve is equipped with a pilot flame adjustment screw. Adjust as necessary.
- Pilot adjustment screw not sealed. Seal pilot adjustment screw. Do not over tighten.

14.2 Pilot Flame Always On / Will Not Extinguish

- System set to CPI mode. Set system to IPI mode.

14.3 Main Flame Will Not Light

- ON/OFF rocker switch in OFF position. Switch to ON position.
- Remote not working properly. Replace batteries.
- Remote set to thermostat mode and there is no call for heat. Adjust heat setting.
- Thermostat disconnected or set too high. Set thermostat to lower temperature setting.
- Ensure pilot flame will ignite. If not, see pilot flame troubleshooting above.
- Ensure pilot flame is properly located to ignite main flame.
- Plugged main burner orifice.
- Wiring disconnection / improper wiring. Check for faulty or incorrect wiring.
- Verify gas supply is turned on.
- Low gas pressure. Low gas pressure can be caused by several situations such as a bent line, too narrow diameter pipe, or low line pressure. Consult with plumber or gas supplier.

14.4 Pilot and Burner Extinguish While in Operation

- No LP in tank. Check and refill if necessary.
- Glass frame assembly not installed correctly. Refer to 10.1, Glass Frame Assembly, on page 33.
- Improper vent cap installation. Adjust if necessary.
- Vent cap blockage. Remove debris if necessary.
- Improper pitch on horizontal venting. 1/4 in. (6 mm) rise per foot is required on horizontal venting.
- Inner vent pipe leaking exhaust gases back into the firebox. Check for leaks, and repair if necessary.
- Excessive draft.

14.5 Glass Sooting

- Improper log placement. Refer to 10.3 #B41-500 Log Set Installation, on page 35.
- Improper venturi setting. Venturi may need to be opened slightly to allow more air into the gas mix. Refer to 13.2.2, Venturi Adjustment, on page 46.
- Improper pitch on horizontal venting. 1/4 in. (6 mm) rise per foot required on horizontal venting.

14.6 Flame Burns Blue and Lifts Off Burner

- Improper venturi setting. Venturi may need to be closed slightly. Refer to Refer to 13.2.2, Venturi Adjustment, on page 46.
- Improper vent cap installation. Check for proper vent cap installation.
- Blockage or leakage of the vent system.

14.7 No Reaction to Command

- Backup battery pack batteries or remote control batteries low. Replace batteries.
- No communication between remote control and IFC control module. Reprogram remote control to IFC control module. Refer to 11.2, Control System Operation, on page 38.
- A maximum number of failed ignitions or flame restorations has been reached. Reset IFC control module.

14.7.1 Reset IFC Control Module—Lock Out

Reset Using ON/OFF Switch:

- Set ON/OFF switch to OFF position.
- Wait approximately (2) seconds and move switch to the ON position. The ignition sequence will start again.

Reset Using Remote Control ON/OFF Button:

- Turn the system off by pressing the remote control ON/OFF button.
- After approximately (2) seconds press the remote control ON/OFF button again. The IFC control module will reset and the ignition sequence will start again.

Reset By Cycling Flame:

- In the Manual Flame Control Mode, use the Down Arrow Button to reduce flame to off (indicated by OFF displayed on Remote Control Display Screen).
- Wait approximately (2) seconds and press the Up Arrow Button, the ignition sequence will start.

15.0 MAINTENANCE

NOTE

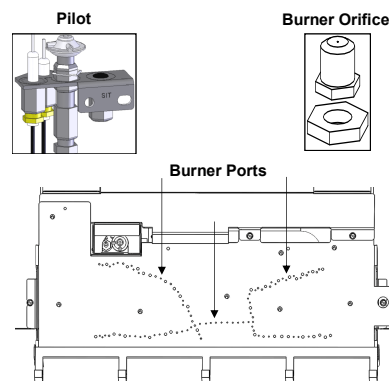
Installation and repair shall only be done by a qualified service person. The appliance should be inspected before use by a qualified service person. This appliance is required to be inspected at least once a year by a professional service person.

The compartment below the firebox must be cleaned at least once a year. More frequent cleaning may be required due to excessive lint from carpeting, bedding materials, etc. It is imperative that the control compartments, burners, and circulation air passageways of the appliance be kept clean. Use a vacuum to clean all components.

15.1 Control Board System

- Annual cleaning of the burner system is required. Vacuum all components thoroughly.
- The burner assembly may be removed for easier access. Refer to 10.4.1, Control Board Removal on page 36.
- Visually check for blocked port holes, especially near the pilot. Blocked port holes may cause delayed ignition.
- Reinstall burner assembly. Refer to 10.4.2, Control Board Installation on page 36.
- Visually check pilot light and burner when in operation. The flames should be steady—not lifting or floating.

Figure 15.1, Control Board System Components



15.2 Fans

CAUTION

LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS. WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION. VERIFY PROPER OPERATION AFTER SERVICING.

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

15.3 Vent System

- Annual examination of venting system by a qualified agency is required.
- The flow of combustion and ventilation air must not be obstructed.
- IF VENT-AIR INTAKE SYSTEM IS DISASSEMBLED FOR ANY REASON, RE-INSTALL PER INSTRUCTIONS PROVIDED WITH INITIAL INSTALLATION. Refer to 8.0 Venting, on page 19.

15.4 Glass Frame Assembly

WARNING

DO NOT OPERATE APPLIANCE WITH THE GLASS FRAME ASSEMBLY REMOVED, CRACKED, OR BROKEN. REPLACEMENT OF THE GLASS SHOULD ONLY BE PERFORMED BY A LICENSED OR QUALIFIED SERVICE PERSON.

IMPORTANT

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

- Clean glass only when cool and only with non-abrasive cleansers.
- Use protective gloves to handle any broken or damaged glass assembly components.
- The glass assembly, part #B41-057T, shall only be replaced as a complete unit, as supplied by Hussong Mfg. Co., Inc.
- Replacement of the glass and frame assembly, part #B41-057T, must only be performed by a licensed or qualified service person. **DO NOT SUBSTITUTE MATERIALS.**
- Do not strike or slam glass frame assembly.

CAUTION

KEEP APPLIANCE AREA CLEAR OF COMBUSTIBLE MATERIALS, SUCH AS GASOLINE, AND OTHER FLAMMABLE VAPORS / LIQUIDS.

16.0 REPLACEMENT PARTS LIST

Replacement parts are available through your local dealer. Contact your dealer for availability and pricing.

CONTROL BOARD AND PARTS

| | | | |
|-----------|-------------------------------|------------|--|
| B41L-150 | Control Board - Nat Gas | 700-504 | Valve Step Motor - Natural Gas |
| B41L-151 | Control Board - LP Gas | 700-504-1 | Valve Step Motor - LP Gas |
| 700-567 | SIT IPI Valve - Natural | 700-203 | Manual Shut-off Valve |
| 700-567-1 | SIT IPI Valve - LP | 700-213B | 18" Flexible Gas Line-Black |
| 700-652 | Proflame 2 IFC Board | 700-226 | Flexible Gas Line-Valve to Burner Connection |
| 700-653 | IFC Wire Harness Assembly | 700-242 | Natural Gas Orifice #42 |
| 700-551 | Pilot Assembly - Natural Gas | 700-253 | LP Gas Orifice #53 |
| 700-551-1 | Pilot Assembly - LP Gas | NCK-B41L-S | Natural Gas Conversion Kit |
| 700-408 | Transmitter | LCK-B41L-S | LP Gas Conversion Kit |
| 700-296 | #51 Natural Gas Pilot Orifice | B41L-135 | Burner Assembly |
| 700-168 | #35 LP Gas Pilot Orifice | | |

GLASS AND GLASS GASKET

| | |
|----------|----------------------------------|
| B41-005 | Replacement Valance |
| 900-006 | 1-1/8" Glass Gasket w/ Adhesive |
| 700-179T | 36-1/2 x 28-7/8" Glass w/ Gasket |

#B41L-500 LOG SET

| | |
|----------|------------------|
| B41L-500 | 8 pc. Log Set |
| B41L-1 | #BP1 Log |
| B41L-2 | #BP2 Log |
| B41L-3 | #BP3-Log |
| B41L-4 | #BP4-Log |
| B41L-5 | #BP5-Log |
| B41L-6 | #BP6-Log |
| B41L-7 | #BP7-Log |
| B41L-8 | #BP8-Log |
| 900-REMB | Rock Wool Embers |

SAFETY BARRIERS

| | |
|-------------|---|
| B41-BSF | Beveled Screen Front |
| B41-FRSF | Full Rectangular Screen Front |
| B41-FRSF-BS | Full Rectangular Screen Front - Brushed Steel |
| B41-PSF | Prairie Screen Front |
| B41-RSF | Rectangular Screen Front |
| B41A-MSF | Arched Mission Screen Front |
| B41R-CSF | Rectangular Celtic Knot Screen Front |
| B41R-MSF | Rectangular Mission Screen Front |

R.05

Hussong Manufacturing Co., Inc.
P.O. Box 577
204 Industrial Park Drive
Lakefield, MN 56150-0577
USA

BAY-41-L

LIMITED WARRANTY

Kozy Heat Limited 10 Year Warranty

This limited 10 Year Warranty will not become effective until the Warranty Registration Form has been completed and mailed to Hussong Manufacturing Co., Inc., P.O. Box 577, Lakefield, MN 56150. This registration form must be received within 30 days of installation. Failure to do so may result in delayed warranty coverage and submission of proof of purchase will be required.

Hussong Manufacturing Co., Inc. warrants to the original purchaser of this Kozy Heat Fireplace, that it is free of defects in materials and workmanship at the time of manufacture.

Subject to the following conditions & requirements, Hussong Manufacturing Co., Inc. extends the following limited warranty under normal use and service, with respect to the Kozy Heat line of gas burning fireplaces.

Year 1

Subject to the conditions & requirements listed below, within the first year from date of purchase, Hussong Manufacturing Co., Inc. shall, at its discretion, replace or repair any such defect in material or workmanship, at Hussong Manufacturing Co., Inc.'s expense, including reasonable labor costs to repair or replace the defective component, if a factory pre-authorization is given for the repair.

Years 2 through 10

Subject to the conditions & requirements listed below, beginning with the first day of the second year and continuing through the tenth year, Hussong Manufacturing Co., Inc., will at its discretion, provide repair or replacement parts at current list prices for any defect in material or workmanship of components, including optional components and accessories (if available). Hussong Manufacturing Co., Inc. shall not be responsible for any installation, labor, transportation of other indirect costs.

Limitation of Liability

To make a claim under this warranty, the purchaser must first contact the dealer/installer from whom the fireplace was purchased.

This limited warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void.

This limited warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished.

This warranty is limited to defects in material and workmanship. It does not apply to any product that has been subject to negligence, misapplication, improper installation.

No person is authorized to extend the time of this warranty or to accept on Hussong Manufacturing Co., Inc.'s behalf any additional obligation of liability connected with the unit.

It is expressly agreed and understood that this warranty is Hussong Manufacturing Co., Inc.'s sole obligation and purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties or merchantability and fitness for a particular purpose. This warranty replaces all previous warranty policies.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

Warranty Conditions and Requirements

1. You are the original purchaser. This warranty is not transferable.
2. Installation of the fireplace is performed by a qualified installer.
3. Installation and operation must comply with installation and operation instructions.
4. Paint and glass gaskets are covered for 30 days from date of purchase.
5. Remote controls and all optional accessories are covered for 1 year from date of purchase.
6. This warranty does not offer coverage for Light Bulbs or Batteries (whether factory, dealer or installer supplied). This includes any damage stemming from either component's nonuse.
7. Components broken, (including glass panels), during shipping, careless handling of components, or defects resulting from improper installation, misuse of the fireplace and components are not covered under this warranty.
8. This warranty does not cover any part of the fireplace or any components which have been exposed to or submerged underwater.
9. Hussong Manufacturing Co., Inc. must be notified by the dealer the fireplace was purchased from or a qualified installer/service technician of the defect.
10. Annual service of the fireplace as required in the installation manual, is performed by a qualified installer/service technician. (Copies of such service records may be required to claim a warranty).
11. All previous warranty/service has been performed by a qualified installer or service technician. (Copies of such service records may be required to claim a warranty).

LIFETIME WARRANTY

THIS LIFETIME WARRANTY COVERAGE WILL BE EXTENDED AS DESCRIBED BELOW PROVIDED ALL WARRANTY CONDITIONS AND REQUIREMENTS ARE MET AS OUTLINED IN THE 10 YEAR LIMITED WARRANTY POLICY.

Lifetime Warranty Coverage

LIFETIME WARRANTY IS EXTENDED AS FOLLOWS: Hussong Manufacturing Co., Inc. warrants to the original purchaser that the firebox, heat exchanger, fiber logs, burner tube and glass panel of this Kozy Heat Fireplace will not be defective in material or workmanship under normal use and service for as long as you own this product. If any of these components fail due to defects in material and workmanship under normal use and service, Hussong Manufacturing, Co., Inc. will, at its sole discretion, repair or replace the defective component. This LIFETIME WARRANTY does not cover any installation, labor, transportation or other indirect cost arising from defective components.

Limitation of Liability

This Lifetime Warranty will be void if the fireplace is not installed by a qualified installer and according to the installation instructions. Use of unauthorized components will make this warranty null and void. This Lifetime Warranty also is void if the fireplace is not operated, at all times, according to the operating instructions furnished. This warranty is limited to defects in material and workmanship of components specified. It does not apply to any product that has been subject to negligence, misapplication, improper installation.

No person is authorized to extend the time of this Lifetime Warranty or to accept on Hussong Manufacturing Co., Inc.'s behalf any additional obligation of liability connected with the unit.

Hussong Manufacturing Co., Inc. may fully discharge all obligations with respect to this Lifetime Warranty by refunding the wholesale price of the defective component(s).

It is expressly agreed and understood that this Lifetime Warranty is Hussong Manufacturing Co., Inc.'s sole obligation and original purchaser's exclusive remedy for defective fireplace equipment. Hussong Manufacturing Co., Inc. shall not be liable for any consequential, incidental or contingent damages whatsoever other than those incurred by Hussong Manufacturing Co., Inc. to repair or replace the defective component. The foregoing warranty is exclusive and in lieu of all other expressed warranties. Hussong Manufacturing Co., Inc. shall not be held to implied warranties, including but not limited to the implied warranties or merchantability and fitness for a particular purpose. This lifetime warranty replace all previous lifetime warranty policies.

Hussong Manufacturing Co., Inc. reserves the right to make changes at any time, without notice, in design, material, specifications and prices. Hussong Manufacturing Co., Inc. reserves the right to discontinue models and products.

To activate this Lifetime Warranty coverage, this registration card must be completed and mailed with your completed 10 Year Limited Warranty form within 30 days of installation to the following address:

Hussong Manufacturing Co., Inc.
P.O. Box 577
204 Industrial Park Drive
Lakefield, MN 56150-0577

September 2011

CUT ALONG DOTTED LINE

PURCHASER NAME: _____
ADDRESS: _____

TELEPHONE: _____

INSTALLATION DATE: _____
MODEL #: _____
SERIAL #: _____

INSTALLER NAME: _____
ADDRESS: _____

TELEPHONE: _____

