

## ProBuilder 24 CleanFace GSR2 Fireplace

Listed By



AS/NZS 5263.1.3  
GMK10026  
IAPMO-R&T OCEANA

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

- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**
- **DO NOT MODIFY THIS APPLIANCE.**
- 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 neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the fire department.
- Installation and service must be performed by a qualified installer, service agency, or the gas supplier.

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(s) of gas indicated on the rating plate. A conversion kit is supplied with the appliance.***

## **WARNING**



**HOT GLASS WILL  
CAUSE BURNS.**

**DO NOT TOUCH GLASS  
UNTIL COOLED.**

**NEVER ALLOW CHILDREN  
TO TOUCH GLASS.**

## Installation Manual

**Installer:** After installation give this manual to the homeowner and explain operation of this heater.

Dragon Wholesaling Pty. Ltd.  
Unit 4, 16 Lexington Drive  
Bella Vista NSW  
Australia 2153

## Overview

This manual details the installation requirements for the ProBuilder 24 CF fireplace. For operating and maintenance instructions, refer to the ProBuilder 24 CF Fireplace Owner's Manual.



Tested to the combustion performance and construction requirements of AS/NZS 5263.1.3 Gas Space Heating Appliances. This appliance must be installed in accordance with all local codes. This ProBuilder 24 CF appliance is equipped from the factory only for use with Natural Gas and is only for use with the type of gas indicated on the rating plate. For conversion to LP (Propane) use a certified kit supplied by the manufacturer. See owner's manual for information on making these changes.


This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home where not prohibited by local codes.

This vented gas fireplace heater is not for use with air filters. This appliance must be properly connected to a venting system in accordance with the manufacturer's installation instructions. Use only approved co-linear direct vent systems to vent this appliance to the exterior. See owner's manual for approved brands of venting.

**WARNING:** Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the owner's information manual provided with this appliance. For assistance or additional information consult a qualified installer, service agency or the gas supplier.

This appliance is a Vented Gas Fireplace Heater. Not for use with Solid Fuel.

Young children should be carefully supervised at all times when they are in the same room as the appliance.

| Minimum Clearances to Combustibles   |                               |                                    |   |                               |  |
|--|-------------------------------|------------------------------------|---|-------------------------------|--|
| Fireplace To Adjacent Wall   | 0 mm                          | Base Of Fireplace To Enclosure Top | 1347 mm   |                               |  |
| Wood Floor Beneath Fireplace   | 0 mm                          | Sides To Enclosure                 | 13 mm   |                               |  |
| Back To Enclosure  | 13 mm                         | Base Of Fireplace To A Mantel      | See Owner's Manual  |                               |  |
| FAN TYPE VENTED CIRCULATOR   |                               |                                    |   |                               |  |
| Blower Electrical Rating: 240V., 4.5 Amps, 50 Hz, 540 Watts  |                               |                                    |   |                               |  |
|  | L.P.                          | N.G.                               | L.P.  | N.G.                          |  |
| Input Rate on "HI" (MJ/h)  | 18.5                          | 19.89                              | Minimum Inlet Pressure (kPa)  | 2.75                          | 1.13   |
| Input Rate on "LO" (MJ/h)  | 9.9                           | 10.9                               | Maximum Inlet Pressure (kPa)  | 3.23                          | 1.74   |
| Orifice Size - (DMS)   | #56                           | #47                                | Manifold Pressure on "HI" (kPa)   | 2.65                          | 0.98   |
| This appliance is equipped for installation 0-610 m. For altitudes above 600m, the vent configuration, orifice, or combination of both may need to be changed. See owner's manual for information on making these changes. |                               |                                    |   |                               |  |
| MANUFACTURE DATE:  |                               |                                    | Manufactured by:  |                               |  |
| <input type="checkbox"/> 2020  | <input type="checkbox"/> Jan. | <input type="checkbox"/> Apr.      | <input type="checkbox"/> Jul.   | <input type="checkbox"/> Oct. | <br><b>TRAVIS INDUSTRIES</b><br><b>HOUSE OF FIRE</b><br>12521 Harbour Reach Dr.<br>Mukilteo, WA 98275 |
| <input type="checkbox"/> 2021  | <input type="checkbox"/> Feb. | <input type="checkbox"/> May       | <input type="checkbox"/> Aug.   | <input type="checkbox"/> Nov. |  |
| <input type="checkbox"/> 2022  | <input type="checkbox"/> Mar. | <input type="checkbox"/> Jun.      | <input type="checkbox"/> Sep.   | <input type="checkbox"/> Dec. |  |
|  |                               |                                    |   |                               |  |
|  |                               |                                    | Certificate Holder:   |                               |  |
|  |                               |                                    | Dragon Wholesaling Pty. Ltd.<br>Unit 4, 16 Lexington Drive<br>Bella Vista NSW 2153<br>Australia |                               |  |
| www.lopi.com.au  |                               |                                    |   |                               |  |

|   |           |
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## ***Safety Warnings***

- Failure to follow all of the requirements may result in property damage, bodily injury, or even death.

**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.**

**Children and adults should be alerted to the hazards of high surface temperature and should stay away to avoid burns or clothing ignition. Do not touch the hot surfaces of the heater. Educate all children of the danger of a high-temperature heater.**

**Due to the high temperature, the heater should be located out of traffic and away from furniture and draperies.**

- This unit must be installed by a qualified installer to prevent the possibility of an explosion.
- This appliance must be installed in accordance with all local codes if any; if not, in U.S.A. follow ANSI Z223.1 and NFPA 54(88), in Canada follow CSA B149.1.
- A manufactured home (USA only) or mobile home OEM installation must conform with the Manufactured Home Construction and Safety Standard, Title 24 CFR, Part 3280, or, when such a standard is not applicable, the Standard for Manufactured Home Installations, ANSI/NCSCS A225.1, or Standard for Gas Equipped Recreational Vehicles and Mobile Housing, CSA Z240.4. This appliance may be installed in Manufactured Housing only after the home is site located.
- All exhaust gases must be vented outside the structure of the living area. Combustion air is drawn from outside the living-area structure. The venting must not be connected to a chimney flue serving a separate solid-fuel burning appliance.
- Notify your insurance company before hooking up this fireplace.
- The instructions in this manual must be strictly adhered to. Do not use makeshift methods or compromise in the installation. Improper installation will void the warranty and safety listing.
- This heater is approved for use with natural gas (NG) or propane (LP). Burning the incorrect fuel will void the warranty and safety listing and may cause an extreme safety hazard. Direct questions about the type of fuel used to your dealer.
- Contact your local building officials to obtain a permit and information on any installation restrictions or inspection requirements in your area.
- If the flame becomes sooty, dark orange in color, or extremely tall, do not operate the heater. Call your dealer and arrange for proper servicing.
- It is imperative that control compartments, screens, or circulating air passageways of the heater be kept clean and free of obstructions. These areas provide the air necessary for safe operation.
- Do not operate the heater if it is not operating properly in any fashion or if you are uncertain. Call your dealer for a full explanation of your heater and what to expect.
- Do not store or use gasoline or other flammable liquids in the vicinity of this heater.
- Do not operate if any portion of the heater was submerged in water or if any corrosion occurs. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been underwater.



## Safety Warnings (continued)

- Because this heater can be controlled by a thermostat there is a possibility of the heater turning on and igniting any items placed on or near the appliance.
- Light the heater using the built-in igniter. Do not use matches or any other external device to light your heater.
- Never remove, replace, modify, or substitute any part of the heater unless instructions are given in this manual. All other work must be done by a trained technician. Don't modify or replace orifices.
- The viewing glass should be opened only for conducting service (or lighting the pilot on millivolt units).
- Allow the heater to cool before carrying out any maintenance or cleaning.
- Operate the heater according to the instructions included in this manual.
- If the main burners do not start correctly turn the gas off and call your dealer for service.
- This unit is not for use with solid fuel.
- Do not place anything inside the firebox (except the optional artwork).
- **Warning:** Do not operate appliance with the glass front removed, cracked, or broken. Replacement of the glass should be done by a licensed or qualified service person.
- Do not throw this manual away. This manual has important operating and maintenance instructions that you will need at a later time. Always follow the instructions in this manual.
- Instruct everyone in the house how to shut gas off to the appliance and at the gas main shutoff valve. The gas main shutoff valve is usually next to the gas meter or propane tank and requires a wrench to shut off.
- A barrier designed to reduce the risk of burns from the hot viewing glass is provided with this appliance and shall be installed for the protection of children and other at-risk individuals.
- If the barrier becomes damaged, the barrier shall be replaced with the manufacturer's barrier for this appliance.
- Clothing or other flammable material should not be placed on or near the appliance.
- Any safety screen, guard, or barrier removed for servicing an appliance must be replaced prior to operating the appliance.
- Installation and repair should be done by a qualified service person. The appliance should be inspected before use and at least annually by a professional service person. More frequent cleaning might be required due to excessive lint from carpeting, bedding material, et cetera. It is imperative that control compartments, burners, and circulating air passageways of the appliance be kept clean.
- **Travis Industries, Inc. grants no warranty, implied or stated, for the installation or maintenance of your heater, and assumes no responsibility for any consequential damage(s).**

### **SAFETY WARNINGS:**

- **DO NOT PLACE ARTICLES ON OR AGAINST THIS APPLIANCE.**
- **DO NOT USE OR STORE FLAMMABLE MATERIALS NEAR THIS APPLIANCE.**
- **DO NOT SPRAY AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHILE IT IS IN OPERATION.**
- **DO NOT MODIFY THIS APPLIANCE.**
- **THIS INSTALLATION MUST CONFORM WITH THE FOLLOWING:**
  - Manufacturer's Installation instructions
  - Local Gas Fitting Regulations
  - Municipal Building Codes,
  - Refer to AS/NZS 5601.1 for Gas Installations.
  - S.A.A. Wiring Code
  - Local Electrical Regulations
  - Any other statutory regulations
- **NOT SUITABLE FOR MARINE USE.**
- **NOT INTENDED FOR FIREPLACE INSERT.**
- **APPLIANCES INCORPORATING A LIVE FUEL EFFECT AND DESIGNED TO OPERATE WITH LUMINOUS FLAMES, MAY EXHIBIT SLIGHT CARBON DEPOSITION.**

*Travis Gas Fireplaces, Stoves, and Inserts are protected by one or more of the following patents; U.S. 8,469,021, 7,066,170, 6,602,068, 6,443,726, 6,953,037; Canada 2755517 as well as other U.S. and Foreign Patents pending.*

### Installation Options

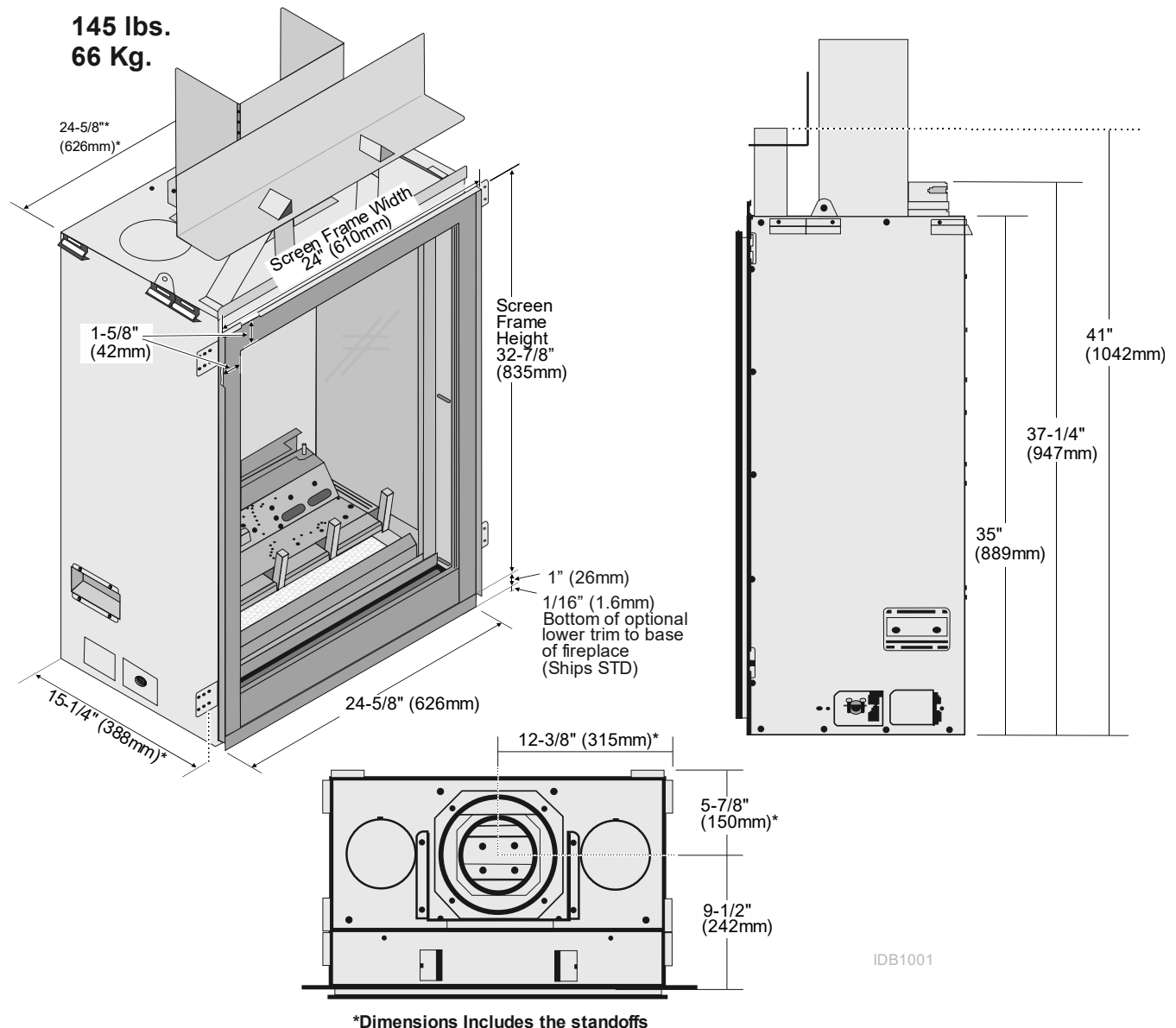
- Residential or Mobile Home
- Straight or Corner Placement
- Raised or Floor Placement
- Internal or External Chase
- Bedroom Approved

### Heating Specifications

|                     |  | Natural Gas | Propane  |
|---------------------|--|-------------|----------|
| ProBuilder<br>24 CF | Approximate Heating Capacity (in square meters)* | Up to 70    | Up to 70 |
|                     | Maximum Input Per Hour (MJ/H)                    | 19.89       | 18.5     |

\* Heating capacity will vary with floor plan, insulation, and outside temperature.

### Dimensions



### ***Packing List***

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- LP (Propane) Conversion Kit: Burner Orifice (#1.25mm), Pilot Orifice (0.14 LP), LP Regulator

- Thimble (2-Piece Assembly)



- Pipe Shield



- Header Shield



- Remote control

### ***Additional Items Required***

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- Gas Line Equipment (shutoff valve, pipe, etc.)
- Electrical Equipment (min. 14 gauge, grounded line)

### ***Recommended Installation Procedure***

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- Frame the opening for the fireplace. Make sure to allow for vent installation.
- Install the vent, gas line, and electrical hook-up.
- Install the drywall.
- Install the hearth (if applicable).
- Install the facing (if applicable).
- Install the mantel (if applicable).
- Finalize the installation (see page 39).

### ***Optional Equipment Installation***

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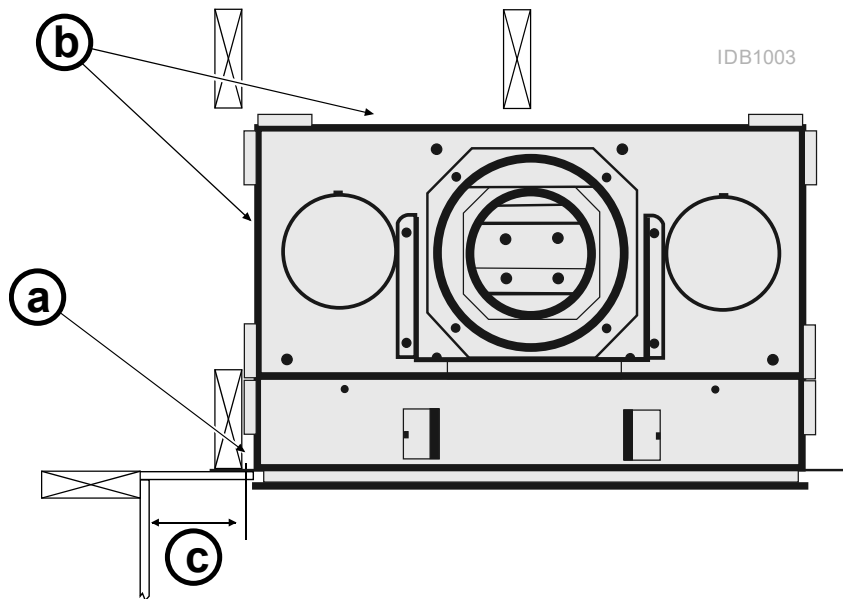
- Before placing fireplace, install optional Ember-Glo lights (leave ember glass out), blower, then remote.
- If using Propane, convert the appliance.
- Install fireplace.
- If using optional firebacks, install them.
- Install ember glass (if used).
- Install logs, ember chunks, and rockwool.

**Fireplace Placement Requirements**

- Fireplace must be installed on a level surface capable of supporting the fireplace and vent.
- Fireplace must be placed directly on wood or non-combustible surface (not on linoleum or carpet).
- Fireplace should be located out of traffic and away from furniture and avoid burns.
- Fireplace must be placed so the gaps below and above the glass frame do not become blocked.
- Fireplace may be placed in a bedroom. Please be aware of the large amount of heat this appliance produces when determining a location.

**Clearances**

- (a) Clearance to Side of Fireplace 1/2" (13mm). Do not place insulation in this space.  
NOTE: Drywall (or other combustible) may contact the first 1/2" (13mm) of the sides of the fireplace.
- (b) Clearance to Back of Fireplace 1/2" (13mm). Do not place insulation in this space.
- (c) When installed, walls in front of the fireplace must be a minimum 0" (0mm) to the side of the fireplace standoffs.

**Raised Fireplaces**

- The fireplace (and hearth, if desired) may be placed on a platform designed to support the fireplace and vent.
- The base of the fireplace must be a minimum of 60" (1524mm) below the room ceiling.



The top of the control door (firebox opening) is approximately 4-1/4" (108mm) above the base of the fireplace. For a typical raised fireplace of 36" (915mm), place the fireplace on a platform 31-3/4" (806mm) tall.

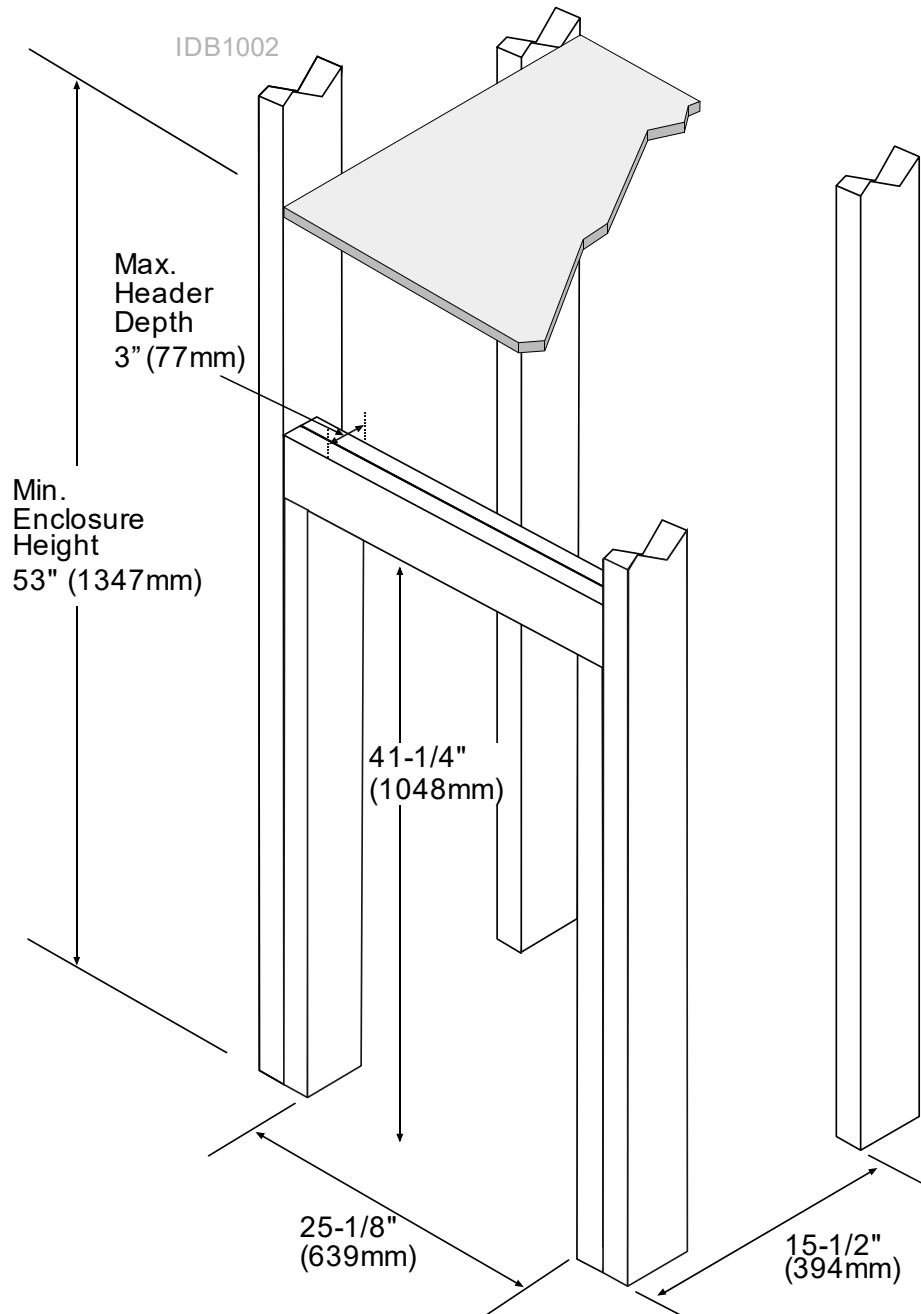
## Minimum Framing Dimensions

### Min. Framing - Without CoolSmart TV kit



### WARNING

When using a CoolSmart TV kit, see section: **“CoolSmart TV - Framing the Chase”** on page 62.



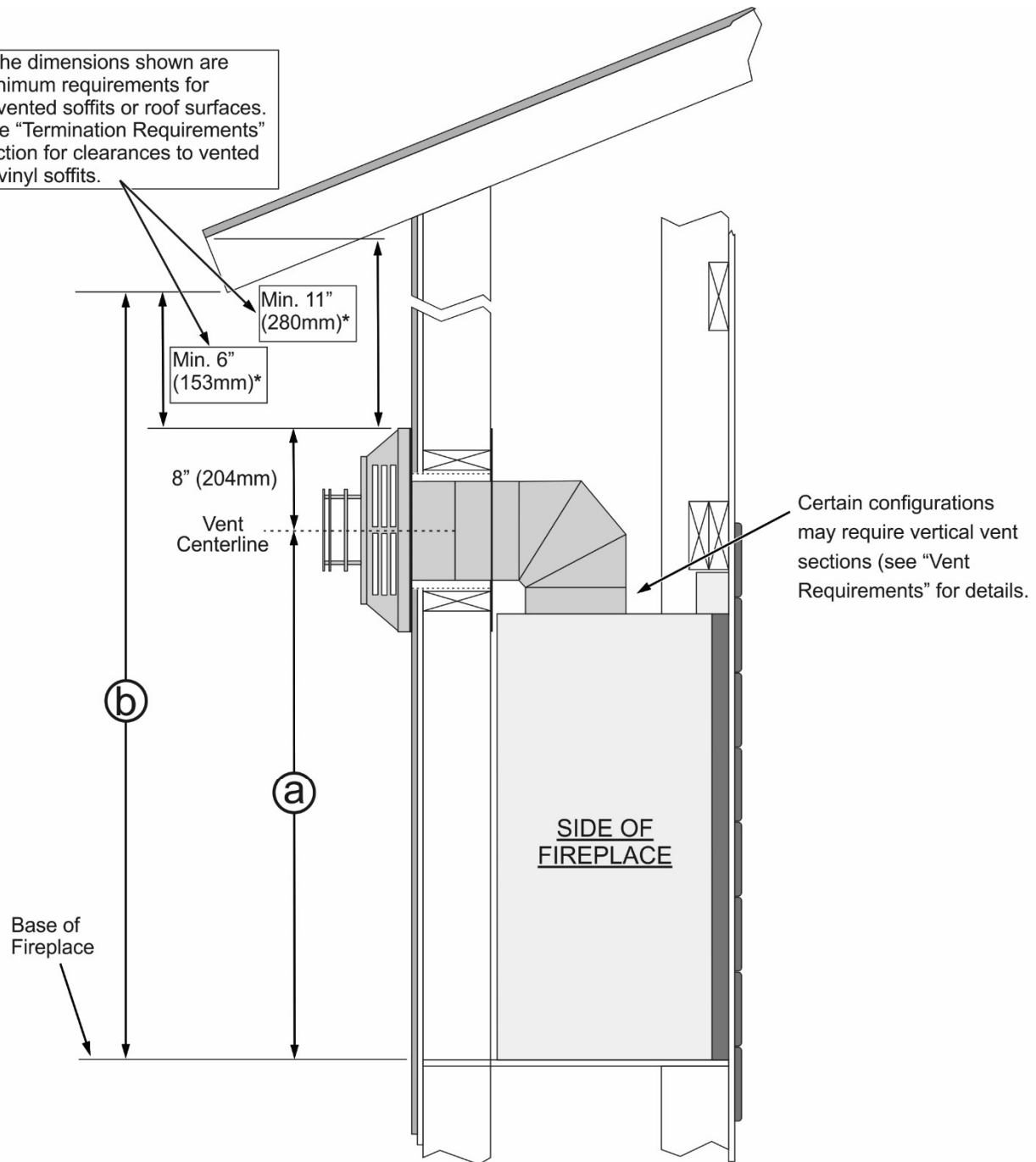
The fireplace enclosure must be a minimum 53" (1347mm) tall. Do not build into the fireplace enclosure.

### Min Framing – With CoolSmart TV Kit

When using a CoolSmart TV kit, see section: **“CoolSmart TV - Framing the Chase”** on page 62 of this manual or the installation instructions included with the kit for minimum framing dimensions.

**Minimum Vent “Bump Out” application**

\* The dimensions shown are minimum requirements for unvented soffits or roof surfaces. See “Termination Requirements” section for clearances to vented or vinyl soffits.

**PB24 CF****LP & NG Installations**

90° (Min. Rise)

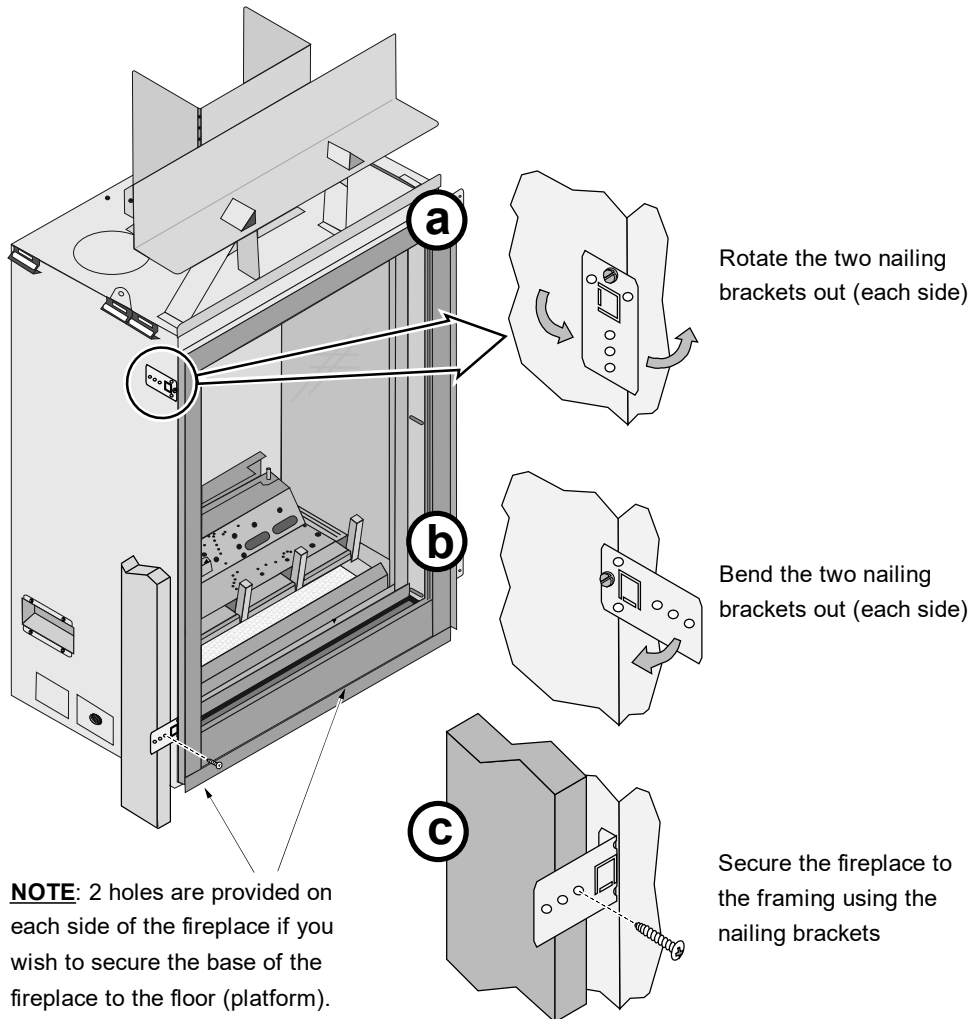
|            |                      |                          |
|------------|----------------------|--------------------------|
| <b>(a)</b> | Vent Centerline      | Approx. 43-3/8" (1102mm) |
| <b>(b)</b> | FP Base to Roof Eave | Approx. 57-3/8" (1458mm) |

## Nailing Brackets

The fireplace has nailing brackets on both sides. Secure the fireplace to the framing with the nailing brackets.

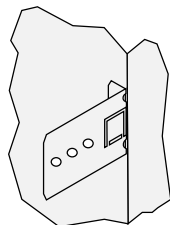
**NOTE:** Make sure the fireplace is square and plumb when placed in the framing. Measured corner-to-corner the fireplace should be square. Use shims to ensure the fireplace is square.

**NOTE:** The nailing brackets have two positions: standard and extended. See the section "Facing Requirements" for details on which position is best for your installation.



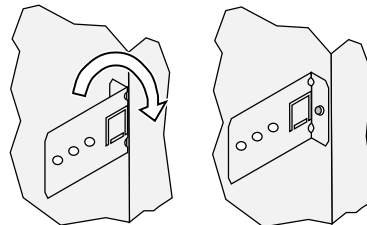
### Standard Position

(nailing brackets as shown below)



### Extended Position

(rotate nailing brackets as shown below)



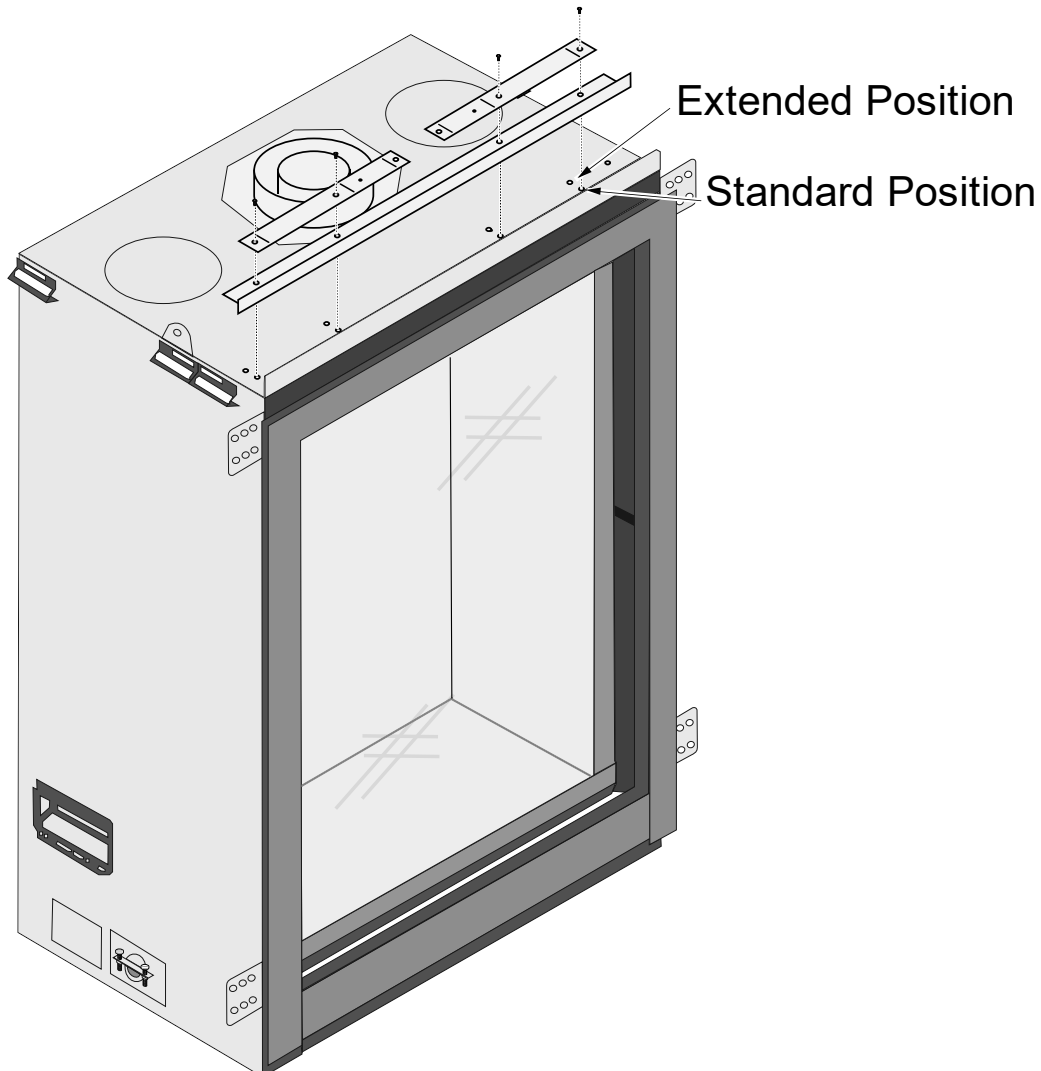
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**Standard vs. Extended Position**

There are two positions that the standoff/heat shield assembly can be installed. The standoffs are shipped in the standard (forward) position.

- If the unit is installed in the standard position no modification is needed.
- If the unit is being installed in the extended position, the standoff/heat shield assembly must be repositioned back 1/2" (13mm) (see illustration below).

NOTE: see pages 10 & 34 for additional details about standard vs. extended installations.





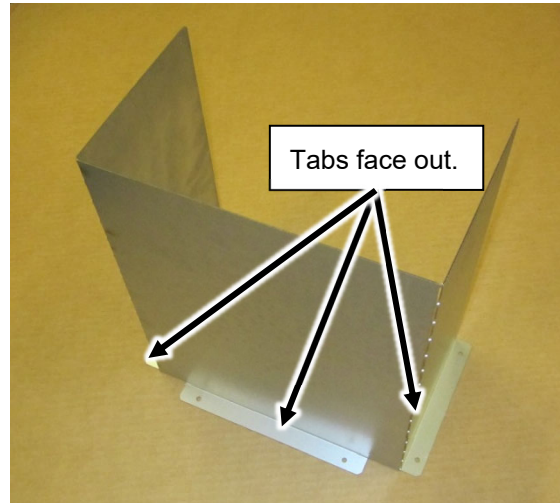
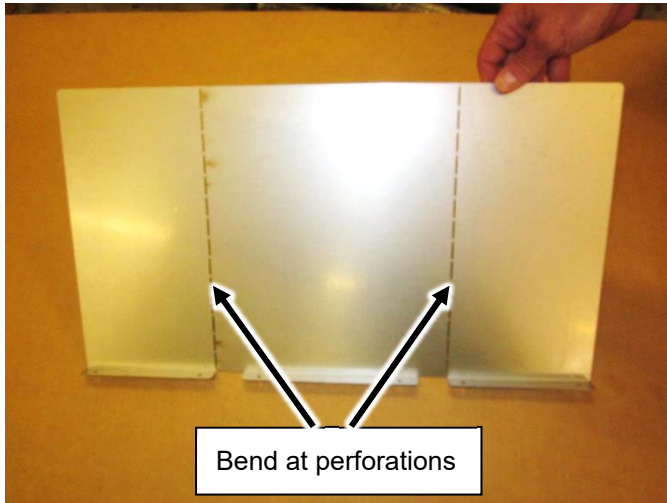
## Header and Pipe Shield Installation

**The header and pipe shield must be installed as shown below.**

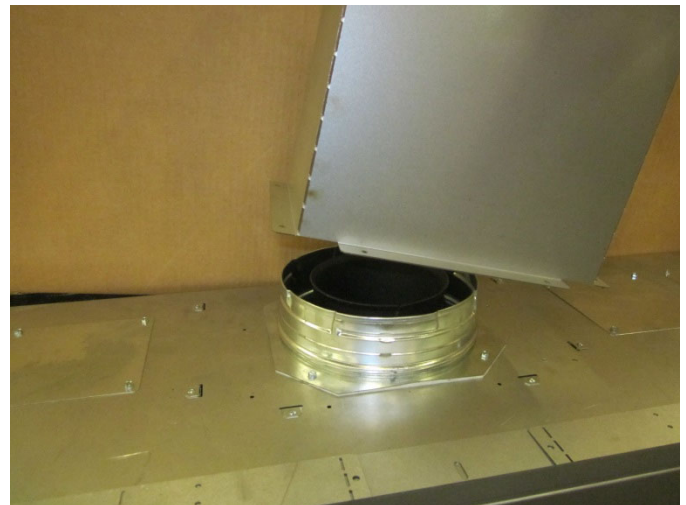
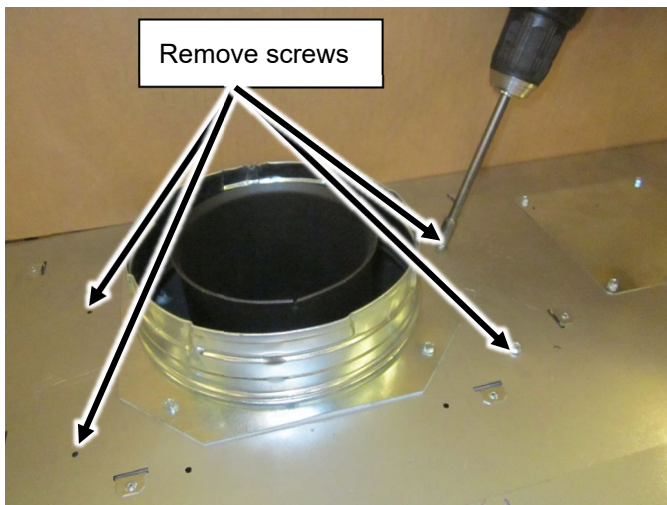
**NOTE:** The header and pipe shields may be installed after the fireplace is in place and vent attached (this allows for the fireplace to fit into the framing underneath the header and for the vent to be installed more easily).

- 1 At each of the perforations, bend the sides of the pipe shield backward 90° as shown below.

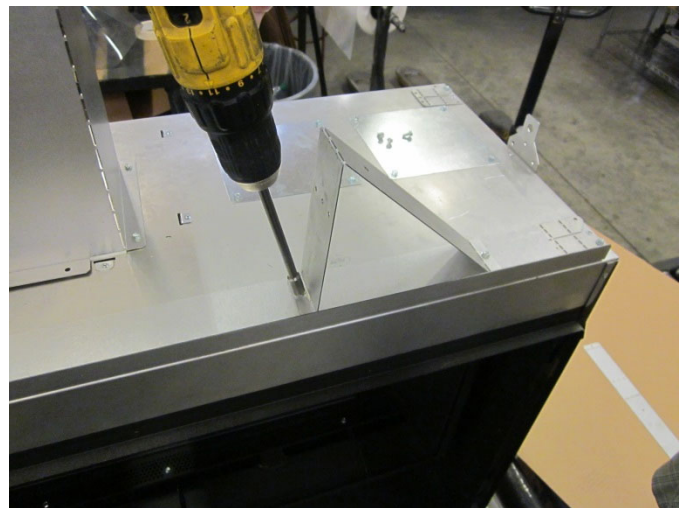
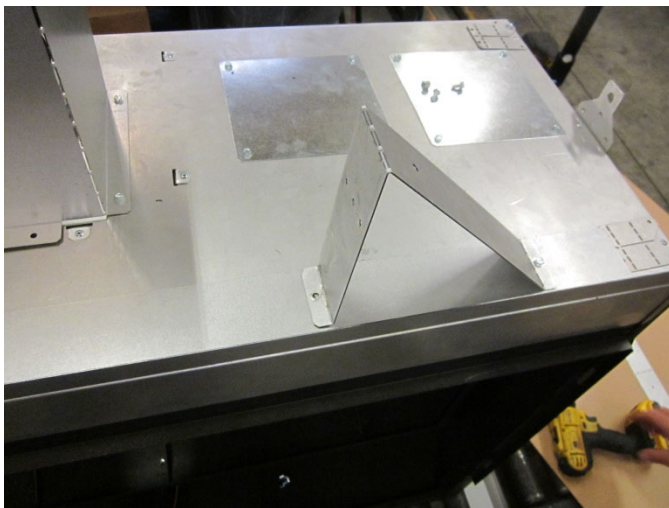
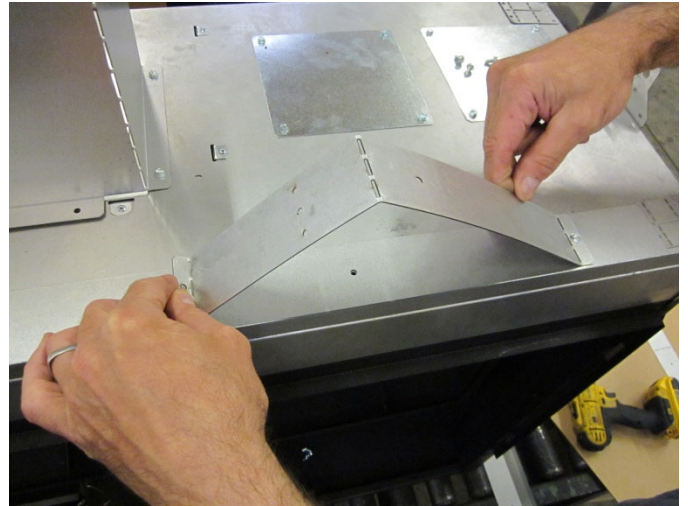
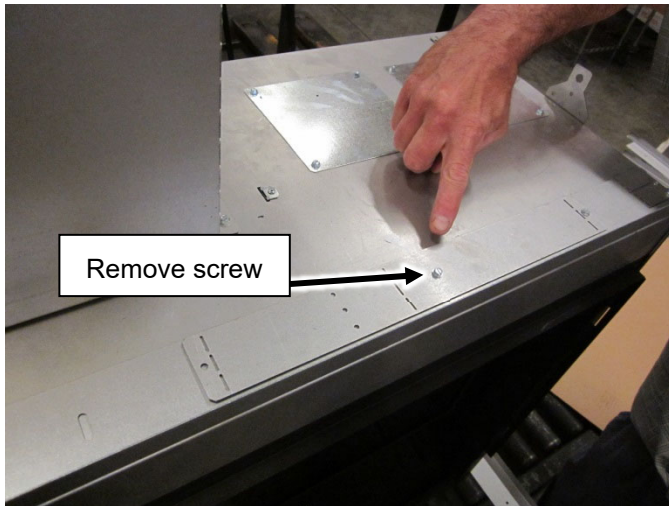
**NOTE:** The bottom flanges should be facing outward



- 2 Remove the (4) screws, (2) from each side of the starter collar. Line up the holes on the pipe shield tabs with the holes from the screws you just removed. Use the screws to attach the pipe shield to the top of the fireplace.

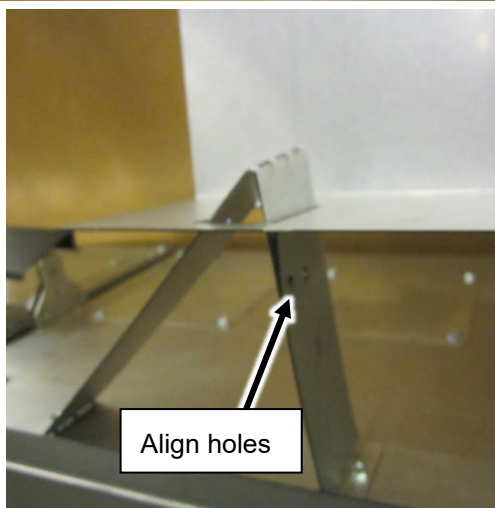
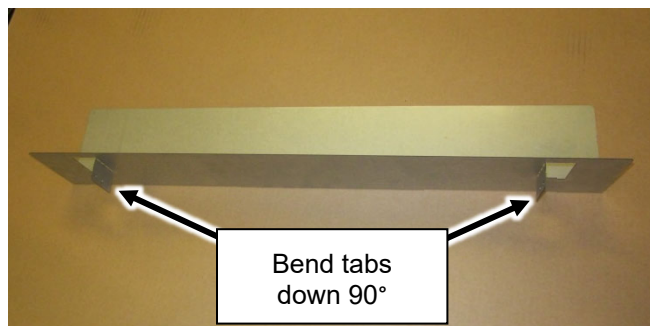


- 3 The (2) header standoffs are screwed down flat to the front edge of the top of the fireplace. On each standoff, remove the screw that is closest to the center of the fireplace (keep screw for reinstallation). Bend the legs at the perforations as shown below and attach the foot of the standoff to the top of the fireplace using the screw removed earlier in this step.

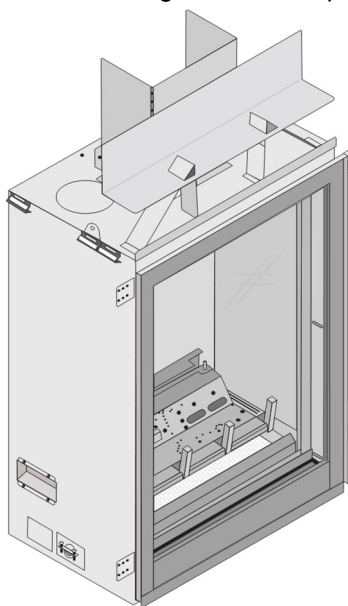




- 4 On the header shield, bend the two tabs downward approximately 90 degrees. Set the header shield onto the standoffs with the 90° bend facing the pipe shield. The tips of the standoffs will protrude through the heat shield. Attach the heat shield to the standoffs by aligning the holes on the heat shield tabs with the holes in the header standoffs and secure using the included screws



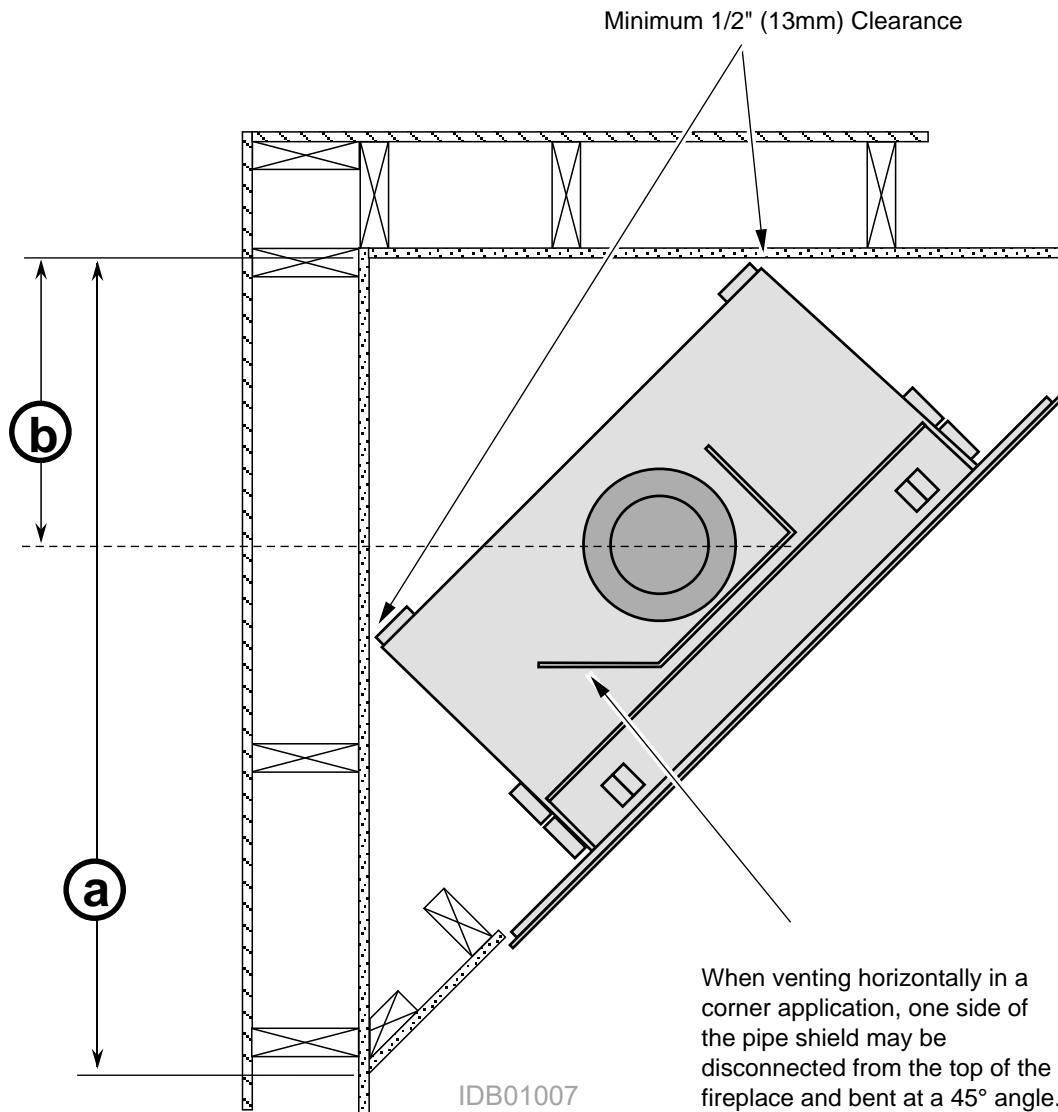
- 5 When finished the fireplace should be configured like the picture below.



**Corner Installations**

A typical 45° installation uses the framing dimensions shown in the illustration below (NOTE: all clearances still apply).

|  | 24 CF PB         |
|--|------------------|
| (a) Corner to Wall (minimum)           | 38-1/4" (972mm)  |
| (b) Corner to Center of Flue (typical) | 12-7/16" (316mm) |

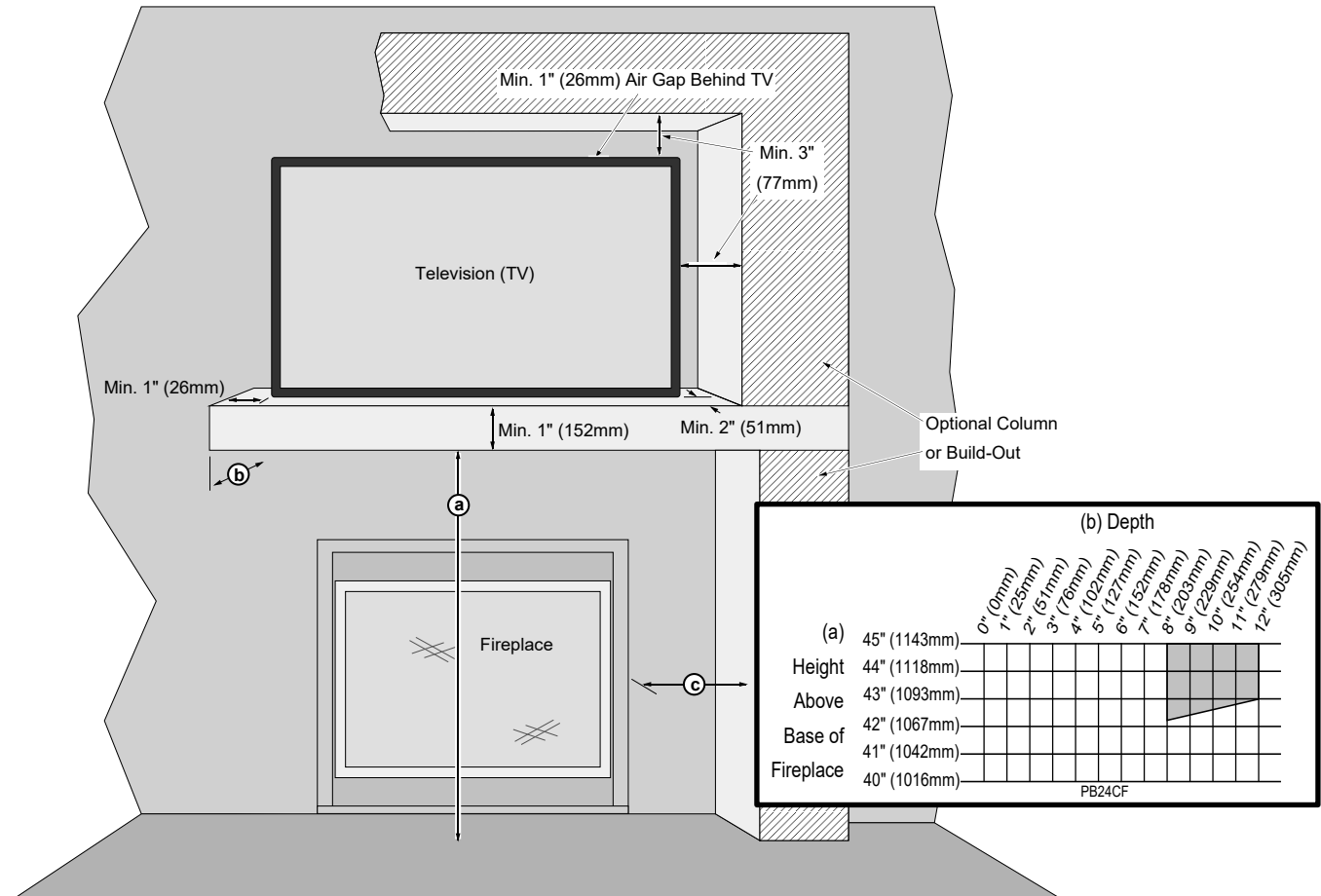


## Televisions Placed Above the Fireplace

The following section gives guidelines to place a television above the fireplace.

### IMPORTANT NOTE REGARDING TELEVISIONS AND THIS FIREPLACE

Most television manufacturers instruct the homeowner not to place the television above a heat source like this fireplace. Doing so may decrease the longevity of the television and negate the warranty. If you do place a television above the fireplace, you should place a mantel (or build-out) between the fireplace and television (or **use a CoolSmart TV Wall™ kit**). Follow the guidelines below to reduce the amount of heat reaching the television. Travis Industries does not take responsibility for any negative impact on televisions placed near this fireplace.



### Minimum Dimensions:

|  |  |
|--|--|
| (a) Minimum Mantel Height above Base of Fireplace* | 42-1/4" (1074mm) with 8" (203mm) mantel depth*                               |
| (b) Mantel Depth*                                  | Minimum 8" (203mm)*  |
| (c) Optional Columns (or Build-Out)                | Must Meet Side Wall Clearances<br>(Measured to the side of fireplace ZC-can) |

**\* Minimum mantel depth must be 8" (203mm) to allow heat to dissipate. If using a mantel larger than 8" (203mm), make sure to adjust the mantel height (a) to meet the mantel clearance (see mantel requirements and/or chart above).**

- The mantel must extend 2" (51mm) in front of the television and 1" (26mm) to both sides.
- If you have a television that is greater than 6" (153mm) deep (including the 1" (26mm) gap behind), you will need to alter the mantel depth and height (see the example below).
- The television must have a 1" (26mm) gap to the wall to allow for proper cooling. Any build-out near the television must maintain a 3" (77mm) gap to the top and sides to prevent heat from being trapped near the television.

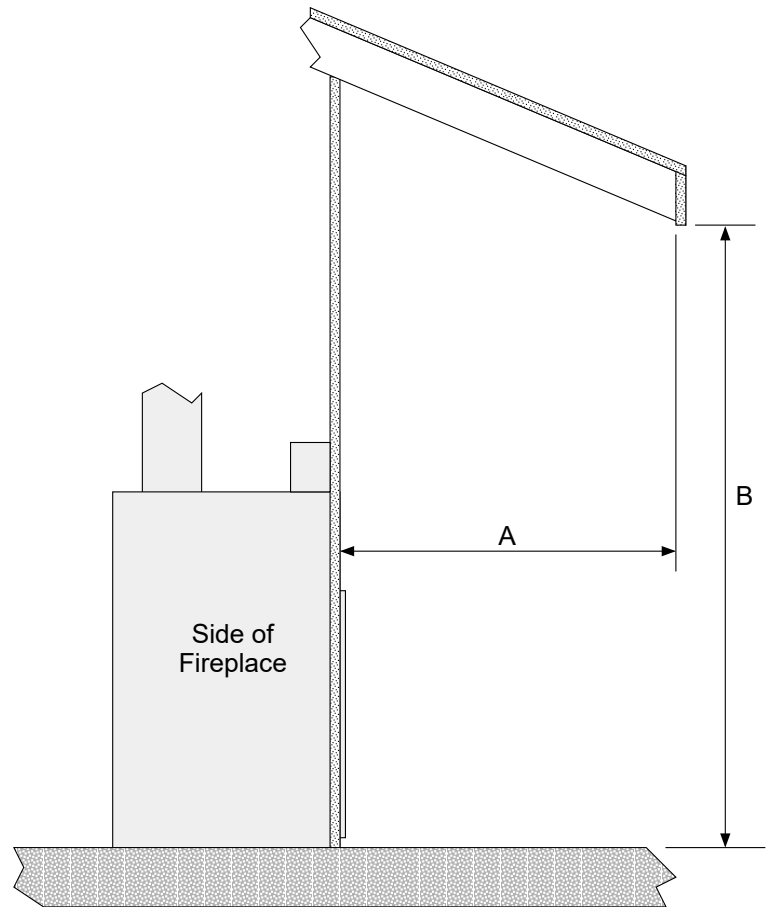
**WIRING NOTE:** If running wiring into the enclosure, you may wish to use thermal insulating wrap around the wiring. Secure the wiring to protect from contact with hot surfaces.

**Outdoor fireplace installations**

Travis Industries Inc. gas-fired fireplaces are suitable for installation into outdoor areas protected from direct water impingement. In addition to maintaining listed mantel and combustibles clearances, a rain protection overhang factor of 1/2 shall be constructed to the front and to each side of installed appliances (see the illustration to the right). All wiring connections to line power shall be in accordance with outdoor requirements of NECA NFPA 70.

**Warnings Regarding Tempered Glass**

This fireplace uses tempered glass which is susceptible to thermal shock. Take care to prevent water from contacting the fireplace, especially if it is hot.



The overhang (A) must extend at least 1/2 the roofline height (B). Height is measured from the base of the fireplace.

For example: if the roofline (B) is 8' above the base of the fireplace, the overhang (A) must be at least 4'.

## Gas Line Requirements

- The gas line must be installed in accordance with all local codes and the requirements listed below. In the absence of local codes, follow ANSI 223.1 in US/Canada or AS/NZS 5601.1 in Australia.
- The fireplace and gas control valve must be disconnected from the gas supply piping during any pressure testing of that system at test pressures in excess of 1/2 psig (3.5 kPa). For pressures under 1/2 psig (3.5 kPa), isolate the gas supply piping by closing the manual shutoff valve.
- Leak test all gas line joints and the gas control valve prior to and after starting the fireplace.
- This unit has been listed using the included internal gas shutoff valve.

## Fuel

- This fireplace is designed either for natural gas or propane (but not for both).

## Gas Line Connection

- Installation must be performed by a qualified installer, service agency, or the gas supplier (In Massachusetts a licensed plumber/gasfitter).
- The gas inlet accepts 1/2" MPT.

## Gas Inlet Pressure

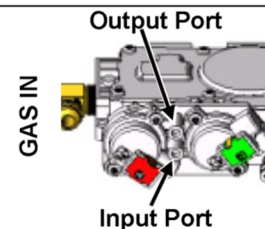
| Gas Pressure       | Max. Input Pressure | Min. Input Pressure    | Max. Manifold Pressure | Min. Manifold Pressure |
|--------------------|---------------------|------------------------|------------------------|------------------------|
| <b>Natural Gas</b> | 7" W.C. (1.74 kPa)  | 4.54 " W.C. (1.13 kPa) | 3.94" W.C. (0.98 kPa)  | 1.2" W.C. (0.30 kPa)   |
| <b>Propane</b>     | 13" W.C. (3.23 kPa) | 11" W.C. (2.75 kPa)    | 10.65" W.C. (2.65 kPa) | 2.9" W.C. (0.72 kPa)   |

- If the pressure is not sufficient, make sure the piping used is large enough, the supply regulator is adequately adjusted, and the total gas load for the residence does not exceed the amount supplied.
- The supply regulator (the regulator that attaches directly to the residence inlet or the propane tank) should supply gas at the suggested input pressure listed above. Contact the local gas supplier if the regulator is at an improper pressure.

### Directions for Connecting a Gas Pressure Test Gauge

The gas control valve (shown to the right) has two test ports for testing input (line pressure) and output (manifold) pressure. Loosen the brass screw on either test port and place a 5/16" i.d. rubber or plastic tube over the tapered test port. Connect the tube to the test gauge.

**WARNING:** The brass screw must be tightened after testing to prevent gas leakage.

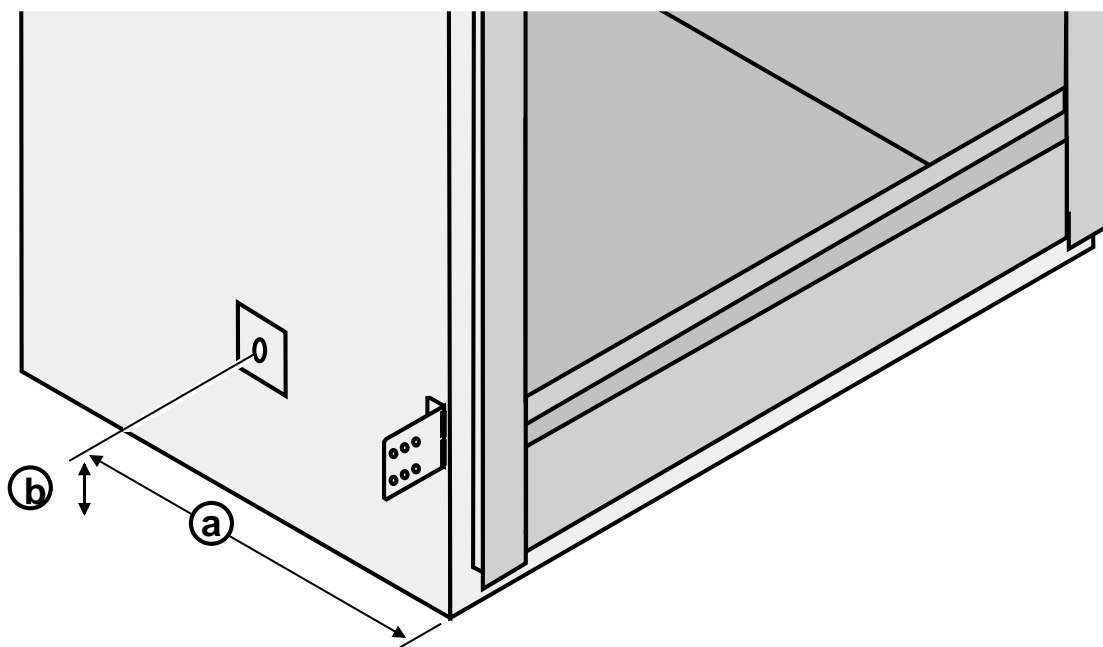


## Gas Line Location

**NOTE FOR RIGID PIPE:** When using rigid pipe, you may wish to disconnect the shutoff valve from the fireplace and route the pipe through the fireplace wall. First, disconnect the gas line from the shutoff valve. Disconnect the shutoff valve from the cover plate (4 screws outside fireplace). The pipe may be routed through the cover plate and the shutoff valve and gas line may be re-attached inside the fireplace.

- Gas line must be plumbed to the left side. See illustration and table below to determine gas line location.
- Fireplace accepts 1/2" MPT fitting.

|                                     | a          | b             |
|-------------------------------------|------------|---------------|
| Left Side Gas Pass-Through Location | 5" (127mm) | 1-3/4" (45mm) |





## Electrical Connection

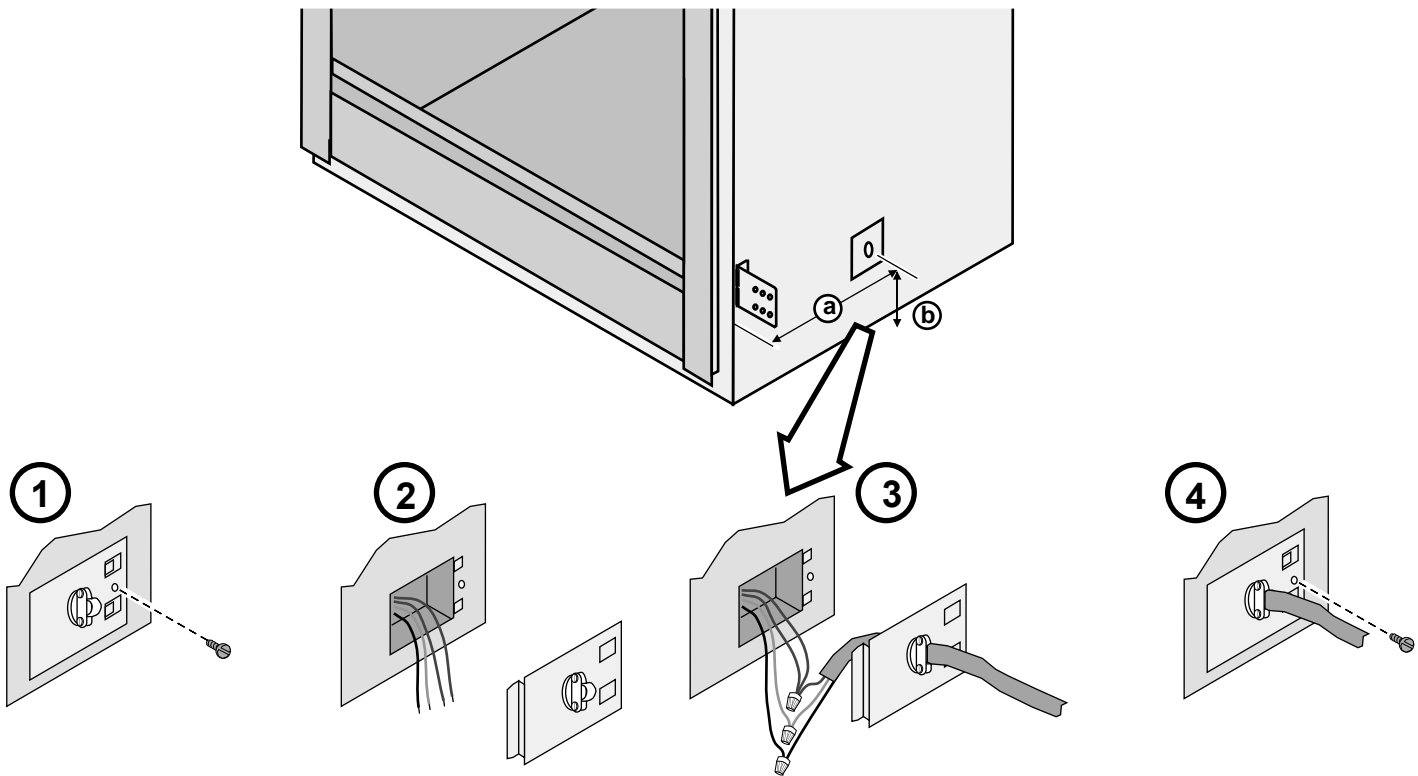
- The electrical line to the grounded receptacle inside the fireplace must be installed by a qualified installer and must meet all local codes.
- Make sure the household breaker is shut off prior to working on any electrical lines.
- The appliance, when installed, must be electrically grounded in accordance 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 electrical line must be a min. 14 gauge, and supply 240 Volts, 60 Hz (typical max amps: 5).
- Route the electrical connection through the junction box cover plate and attach to the hookup wires pictured below.

**Caution:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.



Do not connect 240 VAC to the gas control valve or wiring system of this fireplace.

|                                  | a          | b             |
|----------------------------------|------------|---------------|
| Electrical Junction Box Location | 5" (127mm) | 1-3/4" (45mm) |



## Vent Requirements

- The gas appliance and vent system must be vented directly to the outside of the building, and never be attached to a chimney serving a separate solid fuel or gas-burning appliance. Each direct vent gas appliance must use its own separate vent system.
- In addition to the requirements listed here, follow the requirements provided with the vent.

### Drafting Performance

This direct vent appliance requires natural draft to operate (similar to a wood stove or other heating appliance). Draft can be adjusted using the included restrictor. The restrictor settings detailed in the manual should be followed (variations may occur depending upon installation parameters).

Many factors may negatively influence the draft of the appliance. Dragon Wholesaling will not be responsible for improper draft due to factors such as trees, hills, buildings, obstructions, excessive wind, extreme hot or cold outdoor temperatures, restrictive vent terminations, or influence from mechanical systems.

## Vent Clearances

- The vent must maintain the required clearance to combustible materials to prevent a fire. Do not fill air spaces with insulation.

### Minimum Vent Configurations (see page 25)

|   |           |
|---|-----------|
| Minimum Clearance Above Vent            | 1" (26mm) |
| Minimum Clearance to Sides & Below Vent | 1" (26mm) |

NOTE: Make sure to use the included wall thimble with this configuration.

### All Other Vent Configurations

|                           |           |
|---------------------------|-----------|
| Minimum Clearance to Vent | 1" (26mm) |
|---------------------------|-----------|

## Vent Firestop or Thimble

- A firestop or thimble is required whenever the vent penetrates a wall, floor, or ceiling (passes through framing members). See vent charts on page 25 and 29 for details

## Altitude Considerations

- This heater complies with CSA 2.17-2017 "Gas-Fired appliances for use at high altitudes". This heater has been tested at altitudes ranging from sea level to 4,800 feet (1370 M). In this testing we have found that the heater, with its standard orifice, burns correctly with just an air shutter adjustment.
- Failure to adjust the air shutter properly may lead to improper combustion which can create a safety hazard. Consult your dealer or installer if you suspect an improperly adjusted air shutter.

## Approved Termination

- Always use the high-wind cap (part # 46DVA-HC, 58DVA-HC, 46DVA-VCH, or 58DVA-VCH). The **high-wind scone cap is not allowed**.

## Approved Vent

- Installation instructions for Simpson Dura-Vent may be found at [www.duravent.com](http://www.duravent.com).

### Minimum Vent Configurations (see page 25)

Use 8" diameter Simpson Dura-Vent Model Direct-Vent Pro (or GS)\*.

### All Other Vent Configurations

Use 8" or 6-5/8" diameter Simpson Dura-Vent Model Direct-Vent Pro (or GS)\* (see vent configuration for details).

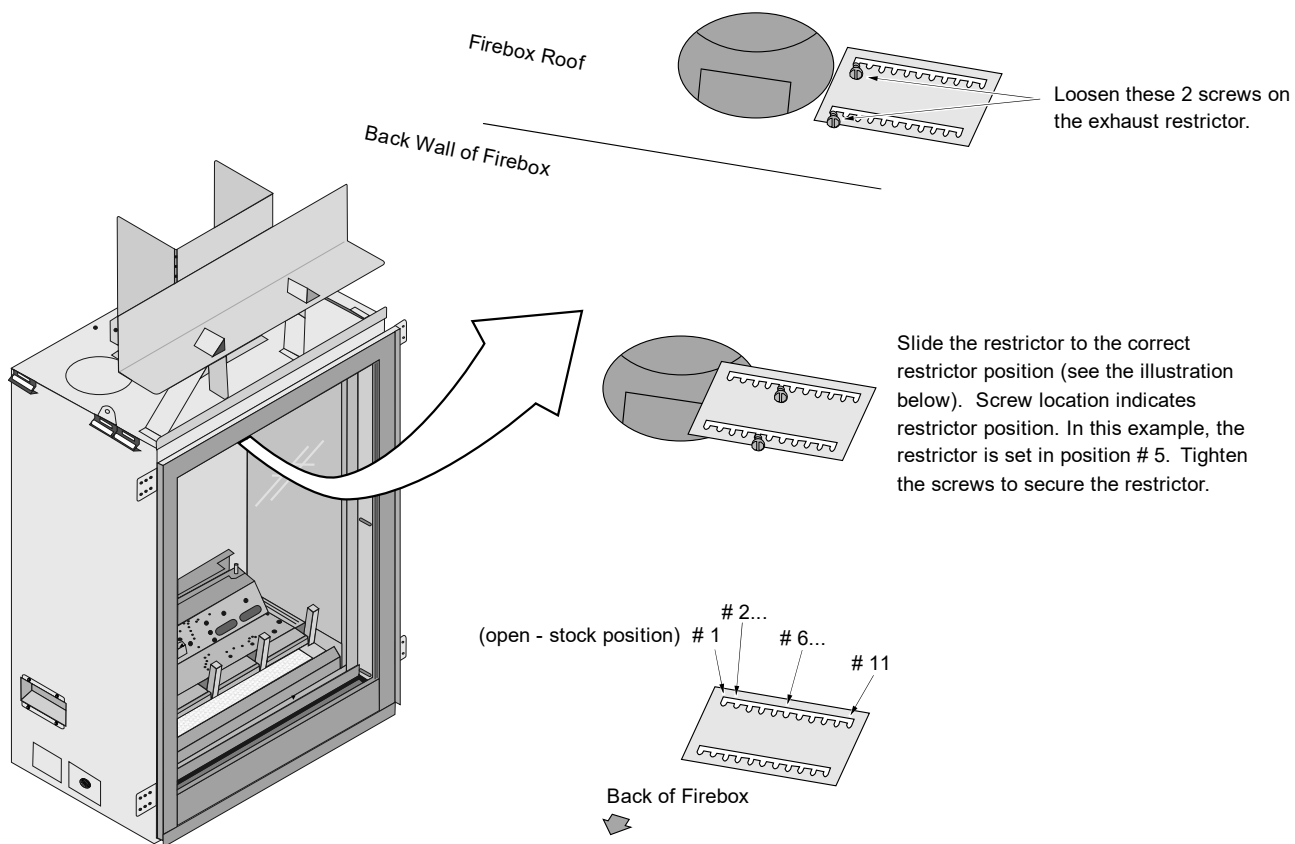
\* Other vent may be approved with this fireplace. Check with the vent manufacturer for details).

## Vent Installation

- Slide the vent sections together and turn 1/4 turn until the sections lock in place.
- Screws are not required to secure the vent. However, three screws may be used to secure vent sections together if desired.
- High-temperature sealant is recommended at the appliance starter section connection (use high-temperature silicone or Mill-Pac®).
- If disassembly is required, at time of re-assembly check to see if the vent creates a tight fit. If it does not, apply high-temperature sealant to the joints of the affected sections.
- Horizontal sections require a 1/4" (6.35mm) rise every 12" (305mm) of travel.
- Horizontal sections require non-combustible support every three feet (e.g.: plumbing strap).
- Vent termination must not be located where it can become plugged by snow or other material.
- Use the vinyl siding standoff when installing on a structure with vinyl siding.
- Venting termination shall not be recessed into a wall or siding.

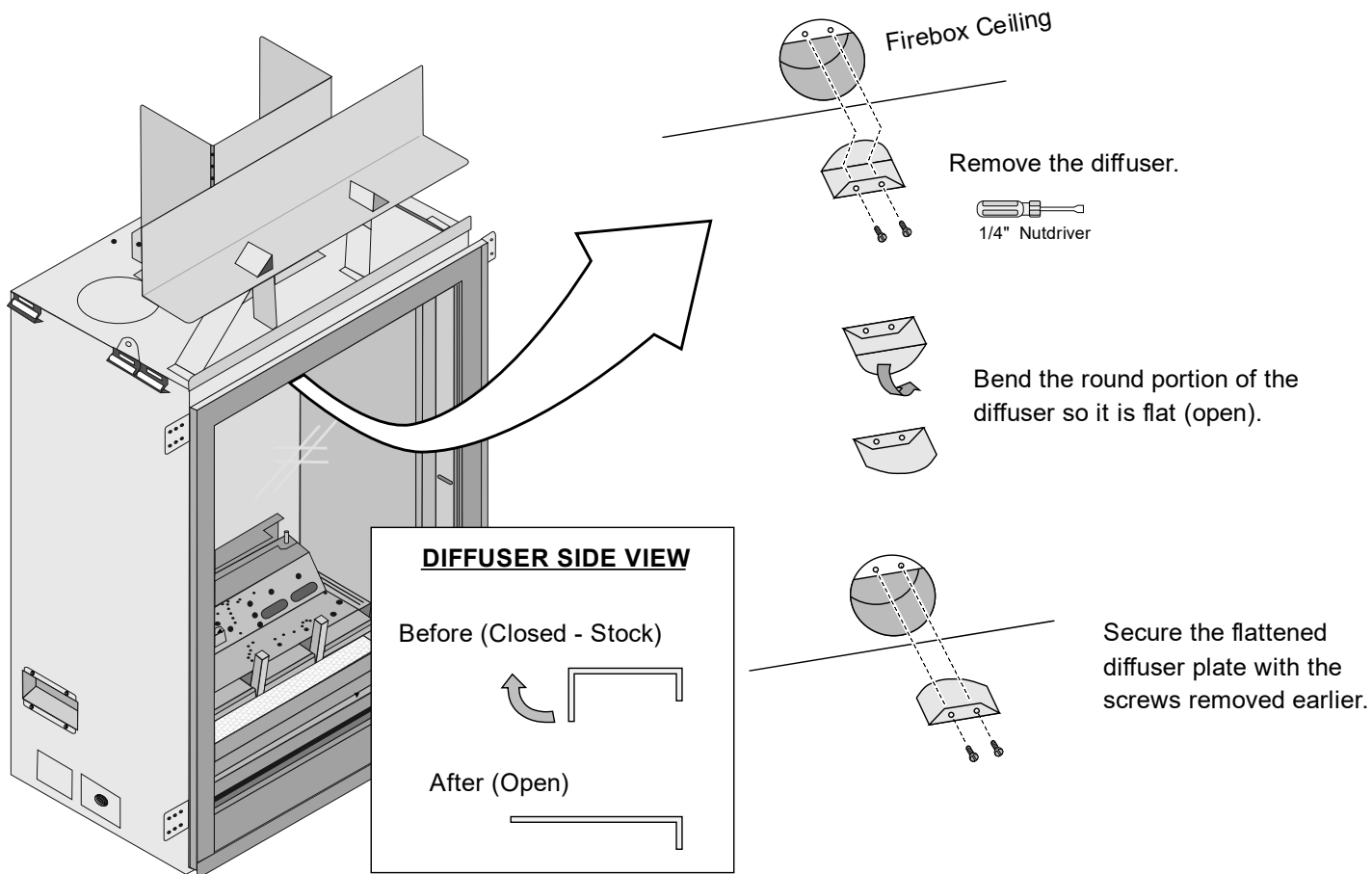
## Exhaust Restrictor Position

- An exhaust restrictor is built into the appliance to adjust the flow rate of exhaust gases. Depending upon the vent configuration, you may be required to adjust the restrictor position. The charts for vent configurations detail the correct restrictor position.



### Diffuser

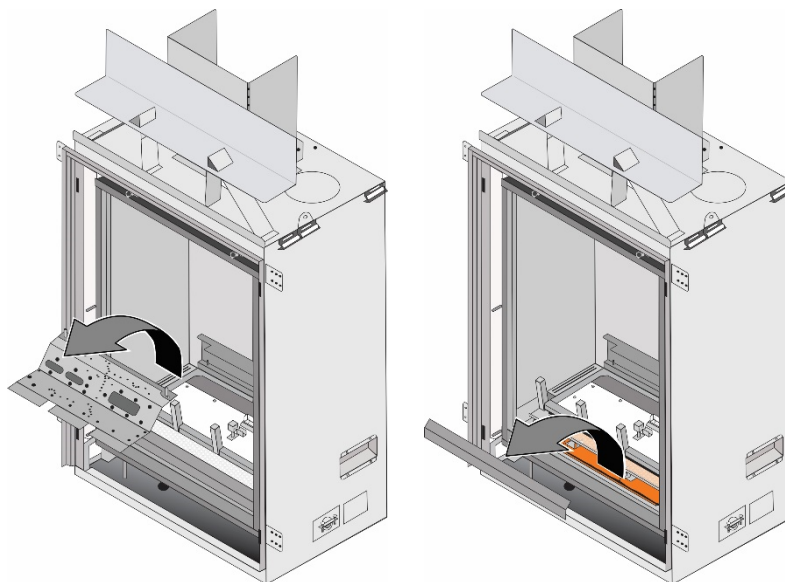
- A diffuser is built into the appliance to adjust the flow rate of exhaust gases. Depending upon the vent configuration, you may be required to adjust the diffuser to the open position (see illustration below). The charts for vent configurations detail the correct diffuser position.



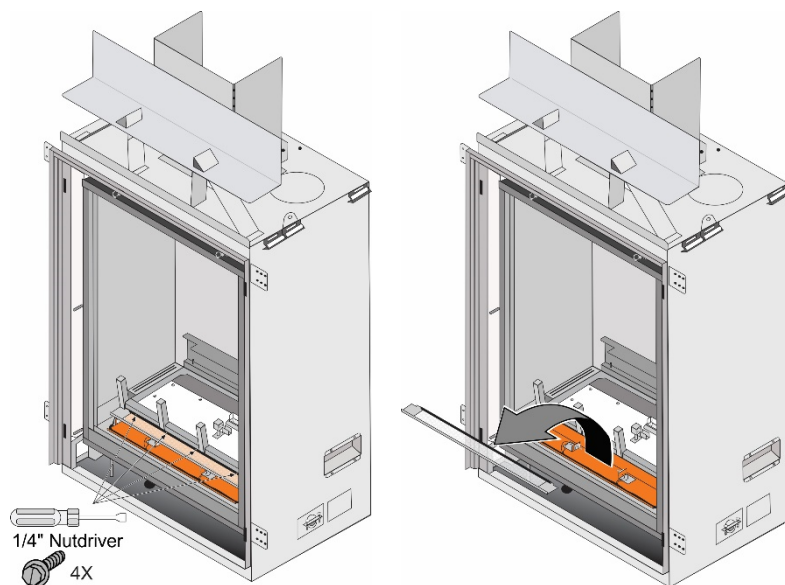
## Intake Restrictor Position

- An intake restrictor is built into the appliance to allow for adjustment to the flow rate of intake air into the firebox. Most vent configurations will use position #1. Position #2 is only recommended for vertical vent runs that exceed 10.5 meters in height. See below for details about changing the intake restrictor position.

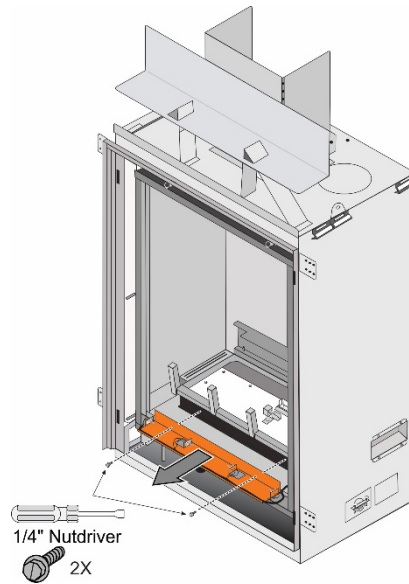
- a. Remove the burner and the media tray skirt.



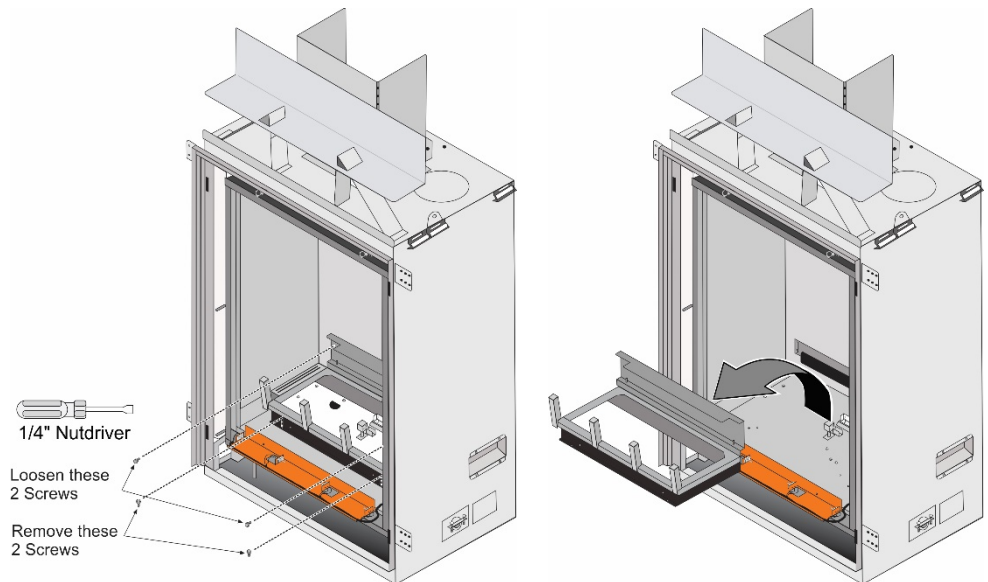
- b. Use a 1/4" nut driver to remove the (4) screws that secure the media tray to the log grate. Remove the media tray from the fireplace (set the media tray and screws aside for reinstallation).



- c. Use a 1/4" nutdriver to remove the (2) screws that secure the Ember-Glo light assembly to the log grate and slide the light assembly forward. (set the screws aside for reinstallation).

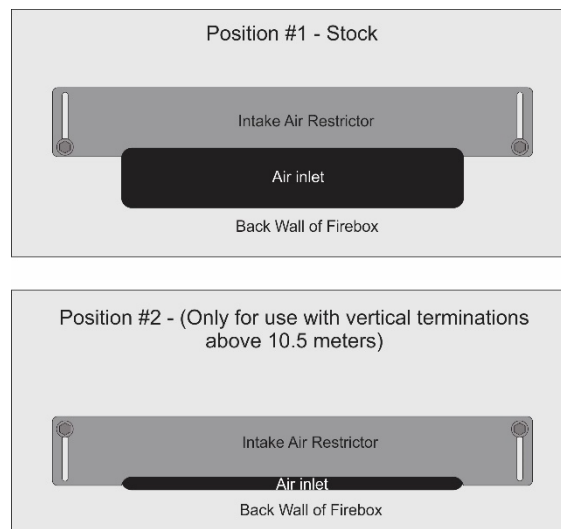


- d. Loosen the (2) screws that secure the log grate assembly to the back wall of the firebox and remove the 2 screws that secure it to the floor of the firebox. Lift slightly on the grate assembly and remove it from the fireplace.



- e. The intake restrictor is now visible on the lower rear of the firebox. Loosen the (2) screws and slide the restrictor all the way down. Tighten the screws to secure the restrictor.

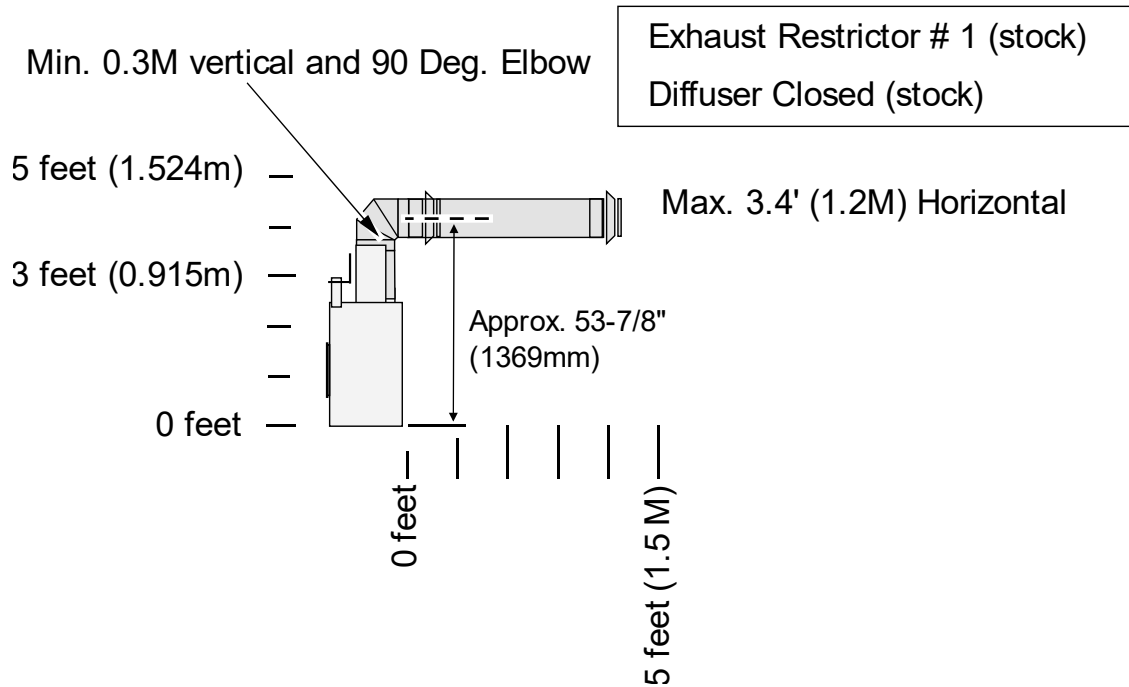
Follow the steps above in reverse to return the fireplace to the correct configuration.



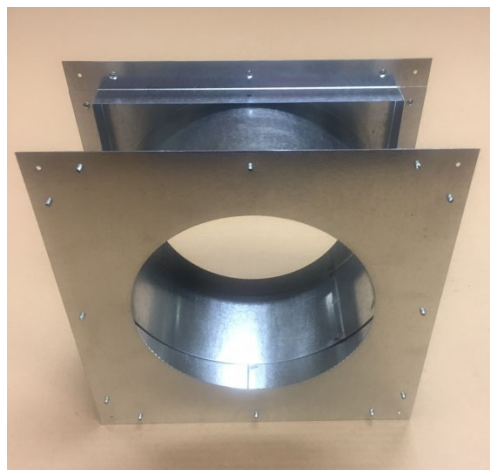
## Vent Configurations

### Minimum Vent Configuration

- **Use 5x8" Diameter Coaxial Vent**
- **NOTE:** Use the included thimble assembly whenever passing through a wall. (use on front and back of wall penetration). See picture below.
- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- One 45° elbow may be used on the horizontal run.
- **HINT:** Use minimum vent kit "H" (96200332) from Travis Industries (additional vent may be required).



Use the included wall thimble when penetrating a wall. Part #96200101

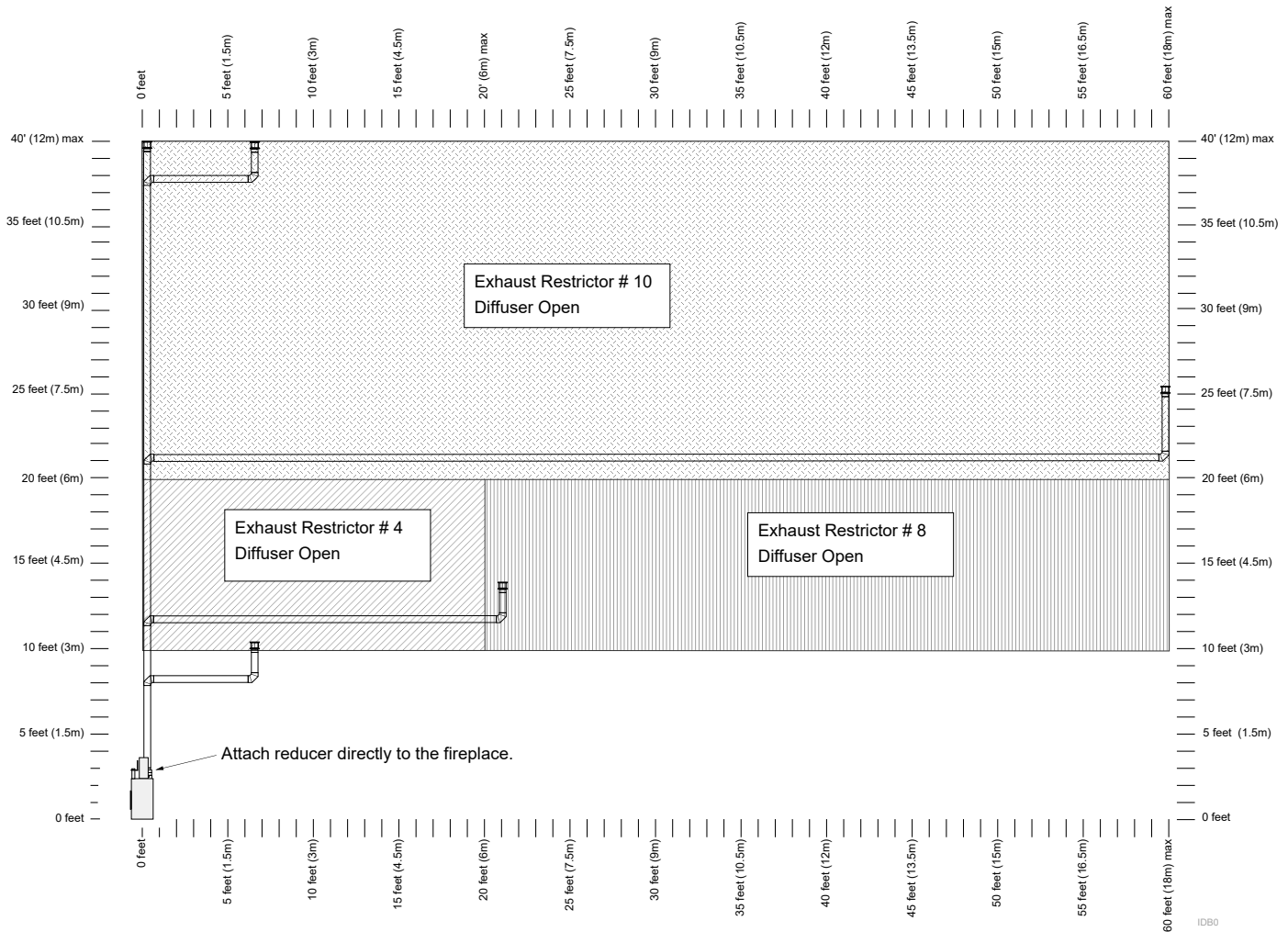


## Vent Configuration: Vertical Termination

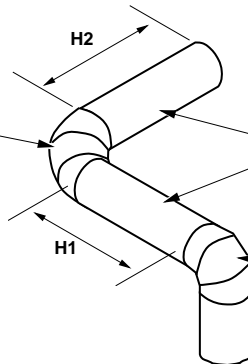
- **Use 4x6-5/8" Diameter Coaxial Vent. Connect an 8" to 6-5/8" reducer directly to the fireplace (sku 98900165).**

**NOTE:** The included thimble assembly is not required and may be discarded.

- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- Up to four elbows (45° or 90°) may be used. Only one horizontal elbow may be used.
- Change intake restrictor to position #2 for vertical terminations above 10.5m (see pg. 25 for details).



This is considered a horizontal elbow (it does not matter whether it turns right or left). It may be a 90° or 45° elbow.



Horizontal length is calculated by adding both lengths of horizontal run (Horizontal Length = H1 + H2).

This is considered a vertical elbow



## Vent Configuration: Horizontal Termination with Vertical Rise

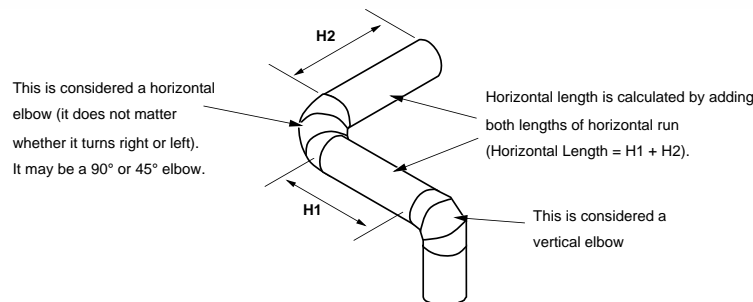
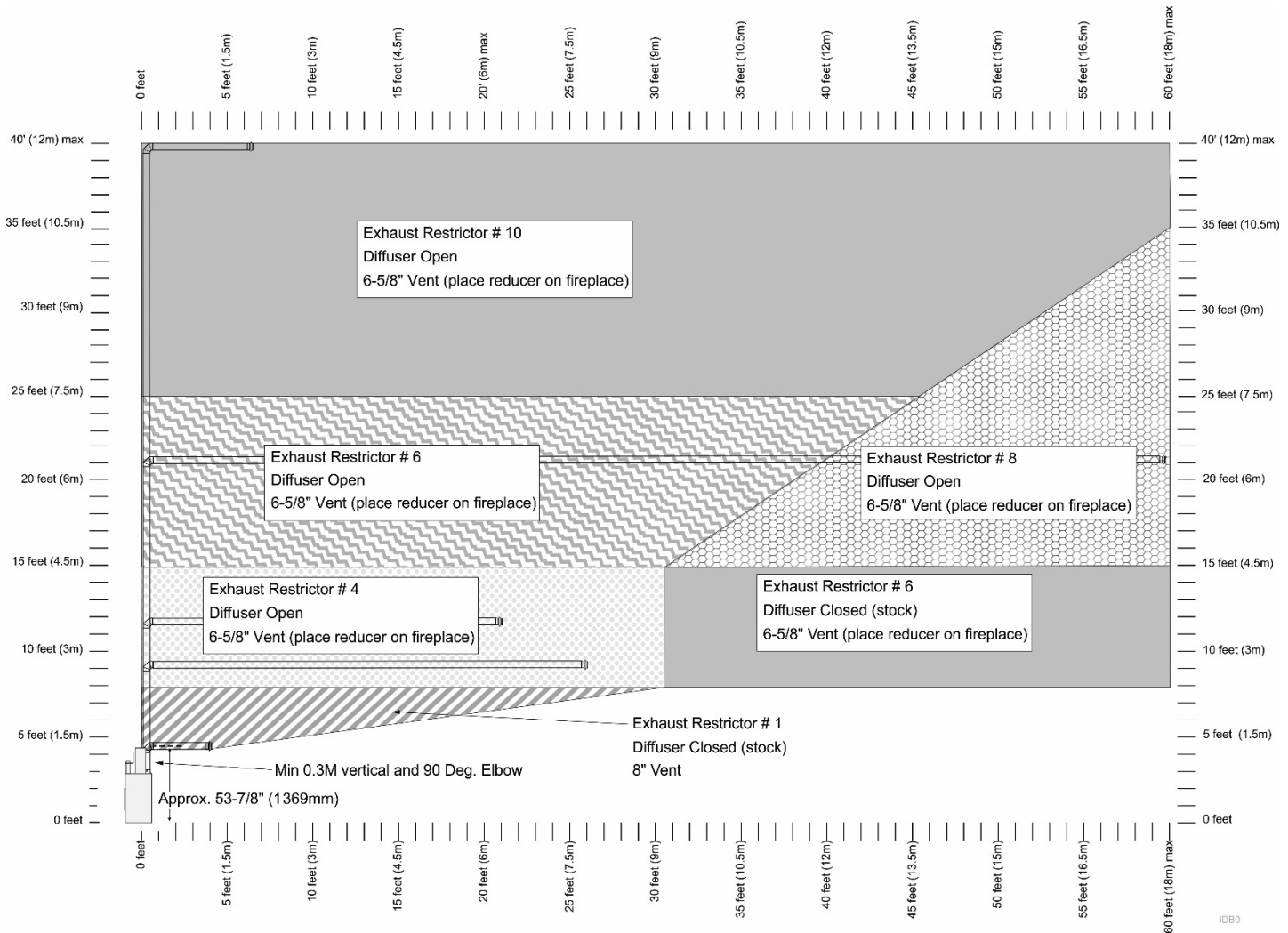
- Vent configurations 7' (2.133m) or above (from the base of the fireplace) use 6-5/8" dia. vent. Connect an 8" to 6-5/8" reducer directly to the fireplace (98900165).**

**NOTE:** For this configuration, the included thimble assembly is not required and may be discarded.

- Vent configurations under 15' (4.57m) (from the base of the fireplace) use 8" dia. Vent.**

**NOTE:** For this configuration, the included thimble assembly may be used or use a firestop (not included).

- The termination must fall within the shaded area shown in the chart. Use the indicated restrictor positions.
- Up to four elbows (45° or 90°) may be used. Only one horizontal elbow may be used.

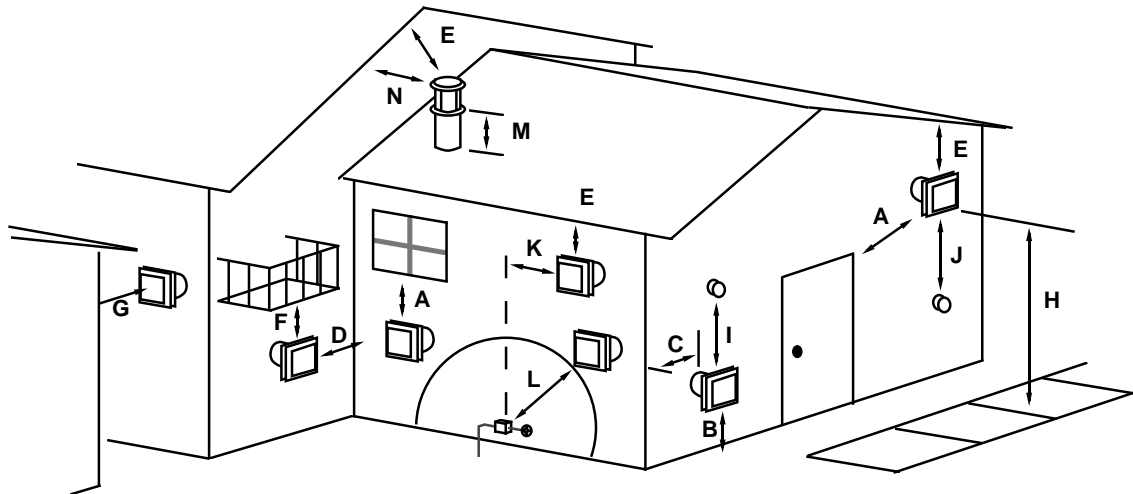
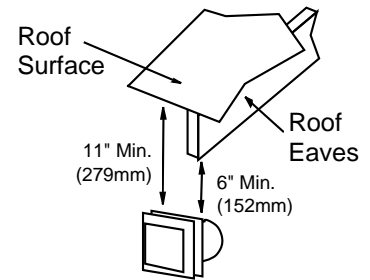


## Termination Requirements

**Vent Terminations Must Comply with AS/NZS 5601.1**

### ! Venting terminals shall not be recessed into a wall or siding.

- A Minimum 9" (229mm) clearance from any door or window
- B Minimum 12" (305mm) above any grade, veranda, porch, deck, or balcony
- C Minimum 1" (25mm) from outside corner walls  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- D Minimum 1" (25mm) from inside corner walls  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- E Minimum 11" (279mm) clearance below unventilated soffits or roof surfaces  
Minimum 18" (457mm) clearance below ventilated soffits  
Minimum 6" (152mm) clearance below roof eaves  
**NOTE:** Vinyl surfaces require 24" (610mm)  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- F Minimum 12" (305mm) clearance below a veranda, porch, deck, or balcony  
**NOTE:** Permitted only if veranda, porch, deck, or balcony is fully open on a minimum of two sides beneath the floor.  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- G Minimum 48" (1219mm) clearance from any adjacent building
- H Minimum 84" (2134mm) clearance above any grade when adjacent to public walkways or driveways  
**NOTE:** may not be used over a walkway or driveway shared by an adjacent building
- I Minimum 9" (229mm) clearance to any non-mechanical air supply inlet to the building or the combustion air inlet to any other appliance.
- J Minimum 36" (914mm) clearance above any mechanical air supply inlet if within 10' (3M) horizontally
- K Minimum 36" (914mm) from the area above the meter/regulator (vent outlet) - this extends 15' (4.5M) above the regulator  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- L Minimum 36" (914mm) from the meter/regulator (vent outlet)  
**NOTE:** Clearance in accordance with local installation codes and the requirements of the gas supplier.
- M Minimum 12" (305mm) above the roofline (for vertical terminations)
- N Minimum 24" (610mm) horizontal clearance to any surface (such as an exterior wall) – for vertical terminations



**NOTE:** Measure clearances to the nearest edge of the exhaust hood.

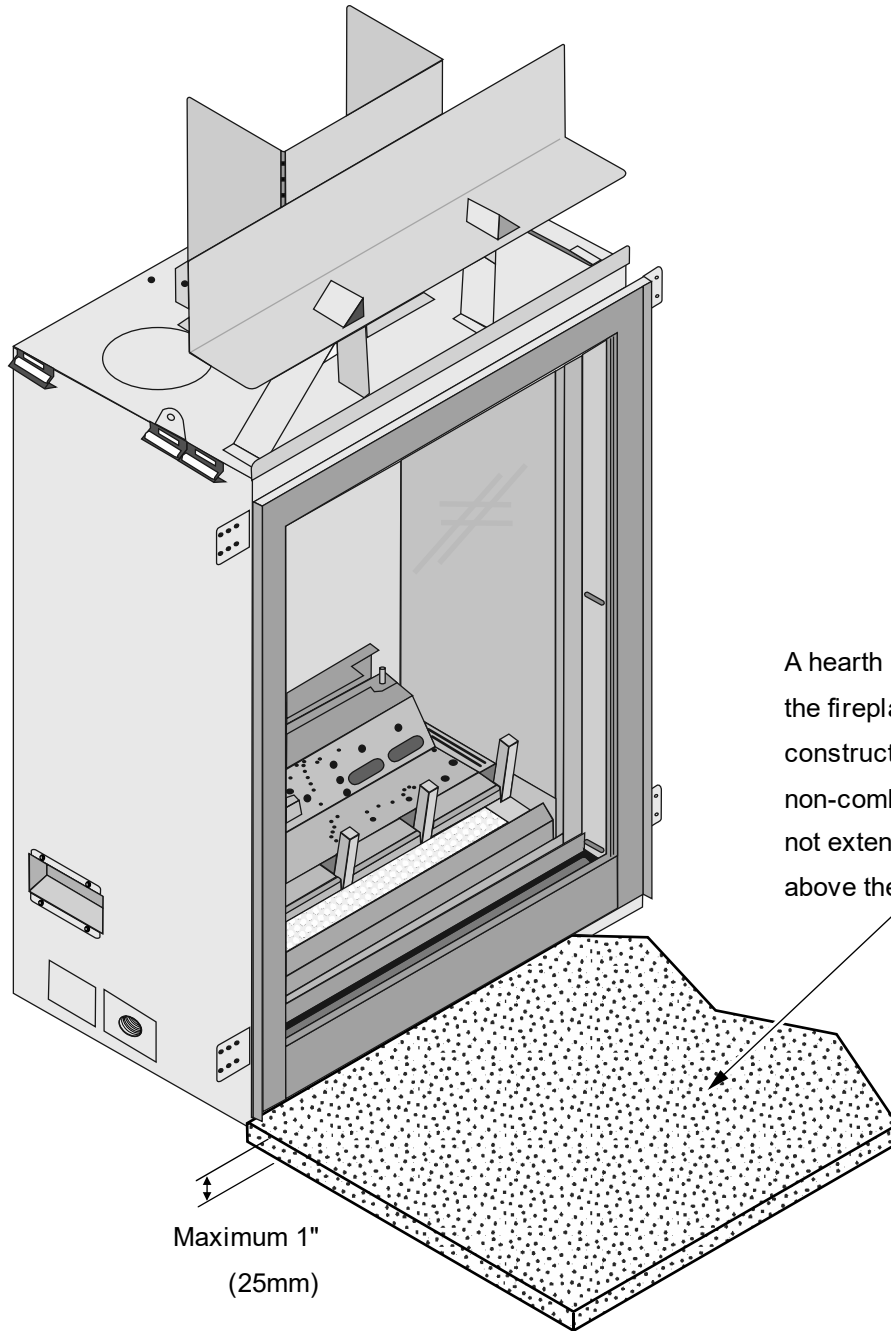
## WARNING

Direct vent terminations are designed to keep water from entering the venting and appliance from naturally occurring precipitation, however, these caps cannot effectively protect from direct streams of water (i.e., runoff from a roof). Care must be taken when planning the installation to ensure that runoff from adjacent roofs or gutter systems does not contact the termination. Water infiltration into the venting system and appliance can cause premature failure of the appliance and/or create hazardous conditions that lead to property damage, injury, or death.

## Hearth Requirements

- A non-combustible hearth is not required. Any material (combustible or non-combustible) must not extend more than 1" (26mm) above the base of the fireplace (see illustration below).

**WARNING:** A non-combustible hearth is not required in front of the fireplace. However, if the fireplace is installed next to the floor, we recommend a hearth to protect the flooring surface from discoloration or other negative impacts from the heater.



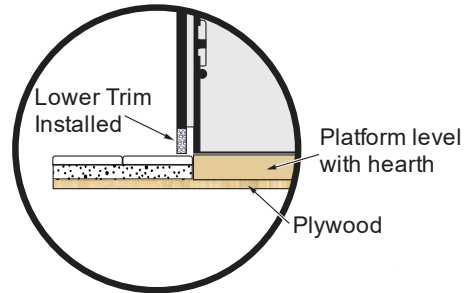
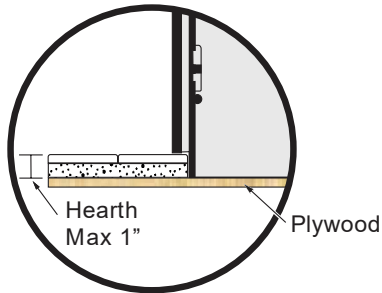
A hearth may be installed in front of the fireplace. The hearth can be constructed of combustible or non-combustible material and must not extend more than 1" (25mm) above the base of the fireplace.

**Lower Trim (Optional)**

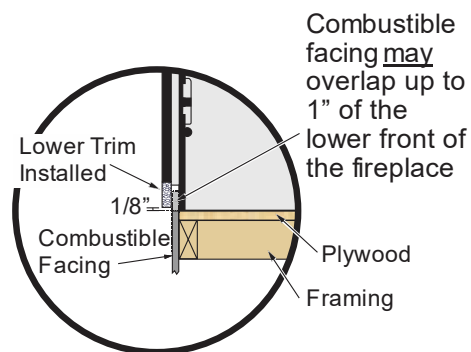
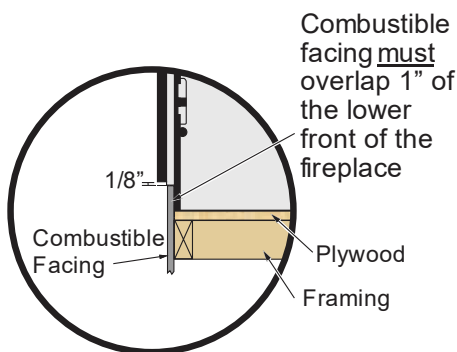
The optional lower trim is shipped pre-attached to the bottom of the screen assembly on the fireplace. It covers the area near the base of the fireplace. The installer may leave the trim in place or remove it to best suit the installation. When it is installed, the installer will not need to install facing (or hearth) in the area below the screen assembly (see illustrations below).

## **Without Lower Trim      With Lower Trim**

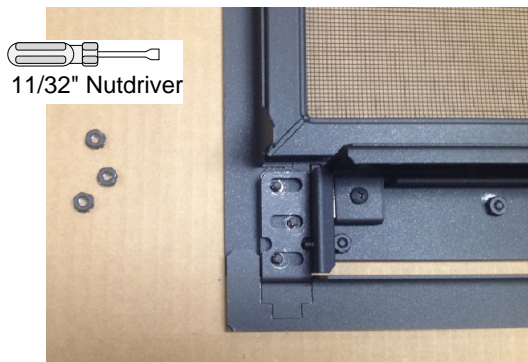
**Traditional Install  
With Hearth**



**Elevated Install  
No Hearth**

**Removing the lower trim**

1. Remove the screen assembly from the fireplace and place it face down on a non-scratching surface (e.g. cardboard).
2. Remove the (3) nuts holding each door hinge in place (both sides – see photo below to the left).  
NOTE: Do not move or lift the face during installation – the door hinge may come loose and bind.



3. Remove and discard the lower trim (see photo above to the right). Replace the (3) nuts (both sides) to secure the hinge. Replace the screen assembly on the fireplace.

## Facing Requirements

- Non-combustible facing must extend from 1" (26mm) above the base of the fireplace to the framing header (see illustration below for details).
- Non-combustible facing must extend the entire width of the unit to the framing opening on both sides (see illustration below for details).
- Do not place facing over the glass opening.

**WARNING:** Do not place drywall or other combustibles over the front of the fireplace.



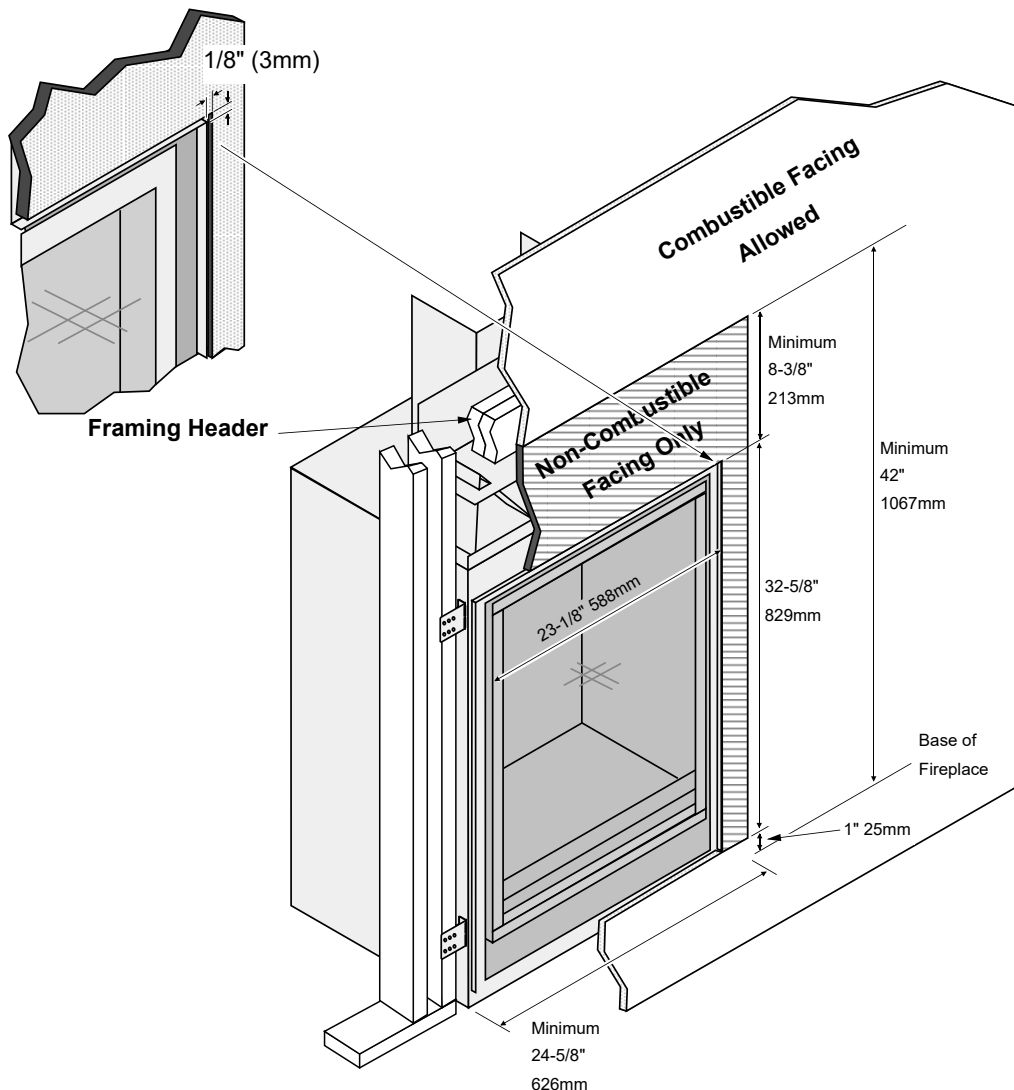
**WARNING:** Do not use adhesive to secure the facing. The high temperatures of the fireplace may cause adhesives to emit odors. Use mastic or thin-set (or other non-combustible, non-odorous adherent) to attach the facing.

**NOTE:** Screws may be used to secure cement board or tile backer to the fireplace. Do not penetrate the fireplace more than 1/2" (13mm).



### 1/8" (3mm) Gap

Make sure non-combustible board is cut and positioned so it maintains a 1/8" (3mm) gap from the tile stop. This allows the fireplace structure to expand without cracking the facing (see dimensions below).

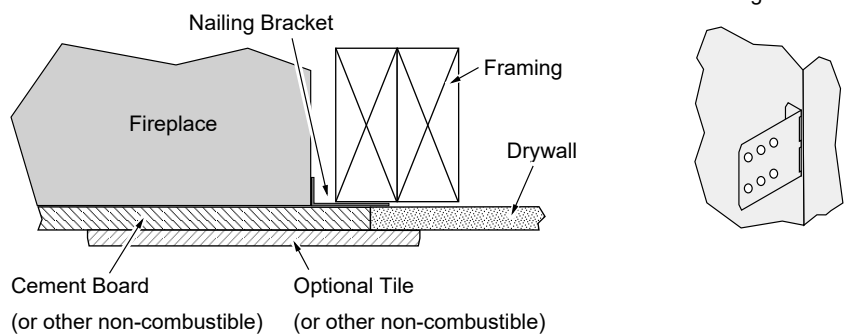


**Standard vs. Extended Position**

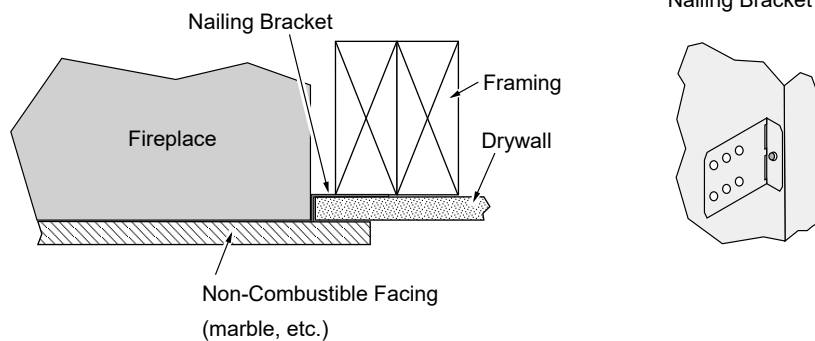
- The nailing brackets on the side of the fireplace may be placed in the standard or extended position to best suit the facing being used (the header shield is also moved). Most installations use the standard nailing bracket position. If using a facing that does not use a backing board (e.g. marble), you may wish to use the extended position.

**Standard Position - Top View**

(nailing brackets as shown to right)

**Extended Position - Top View**

(nailing brackets as shown to right)



## Thick Facing Guide

The thick facing guide is shipped pre-attached to the fireplace.

**- Thick Facing** - If using thick facing, leave the guide in place (see “Thick Facing” on the following page).

**- Thin Facing** - If using thin facing, you may remove the thick facing guide following the directions below (see “Thin Facing” for details). NOTE: You may leave the thick facing guide in place – it will appear as a black border around the screen assembly.

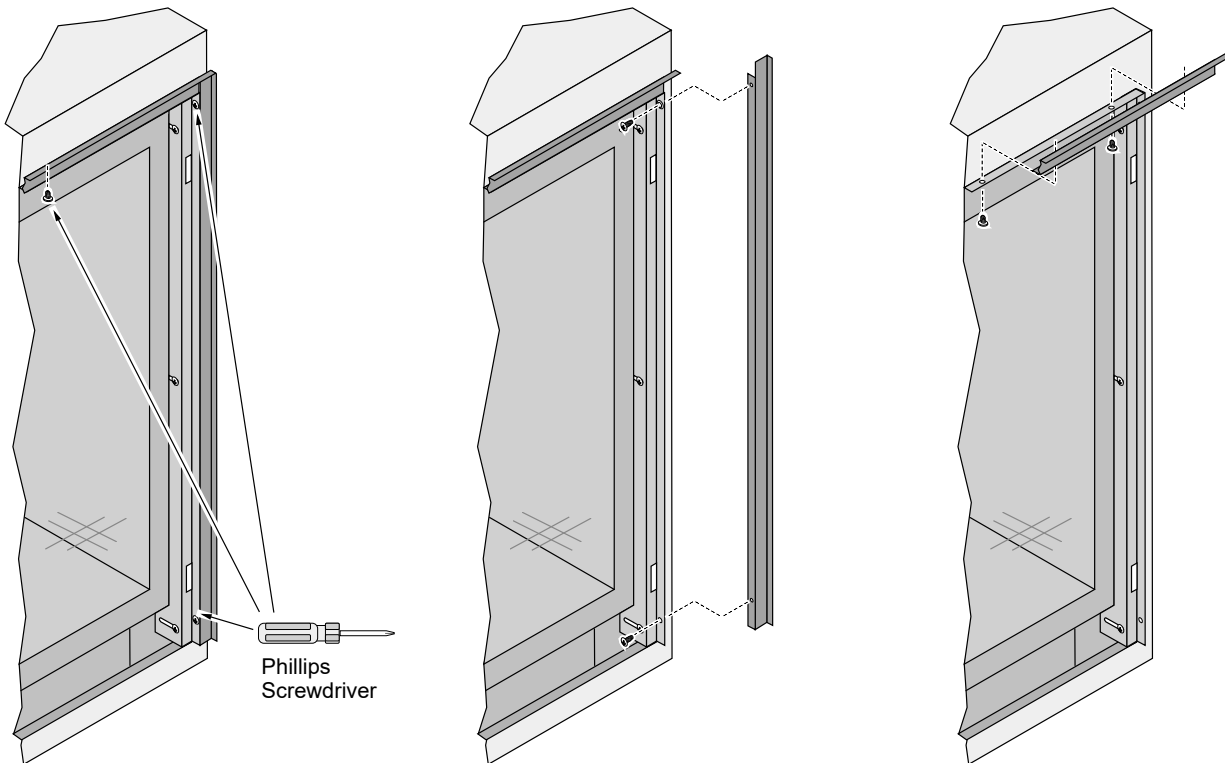
### Removing the Thick Facing Guide

The thick facing guide consists of (4) sheet-metal strips behind the screen assembly. Remove the screen assembly to access the guide. Unscrew the screws holding the pieces in place (see illustration below).

**NOTE:** The top piece is different than the bottom and has the letter “T” cut into it.

Thick Facing Guide  
Side Pieces

Thick Facing Guide  
Top Piece



The thick facing guide may be removed after facing is installed.



**The ProBuilder 24 CF is shipped with a lower thick facing guide in place. It is removed in the same fashion as the upper thick facing guide.**

**Thick Facing (Facing Thicker than 1-1/2" (38mm))**

If using thick facing, make sure to leave the thick facing guide in place.

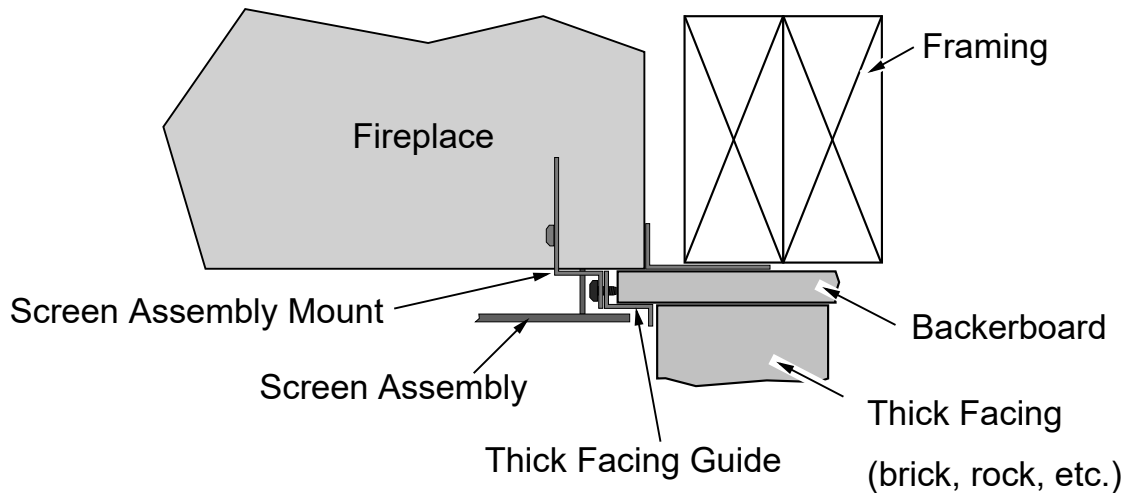


Make sure to leave the screen assembly in the stock (fully in) position.



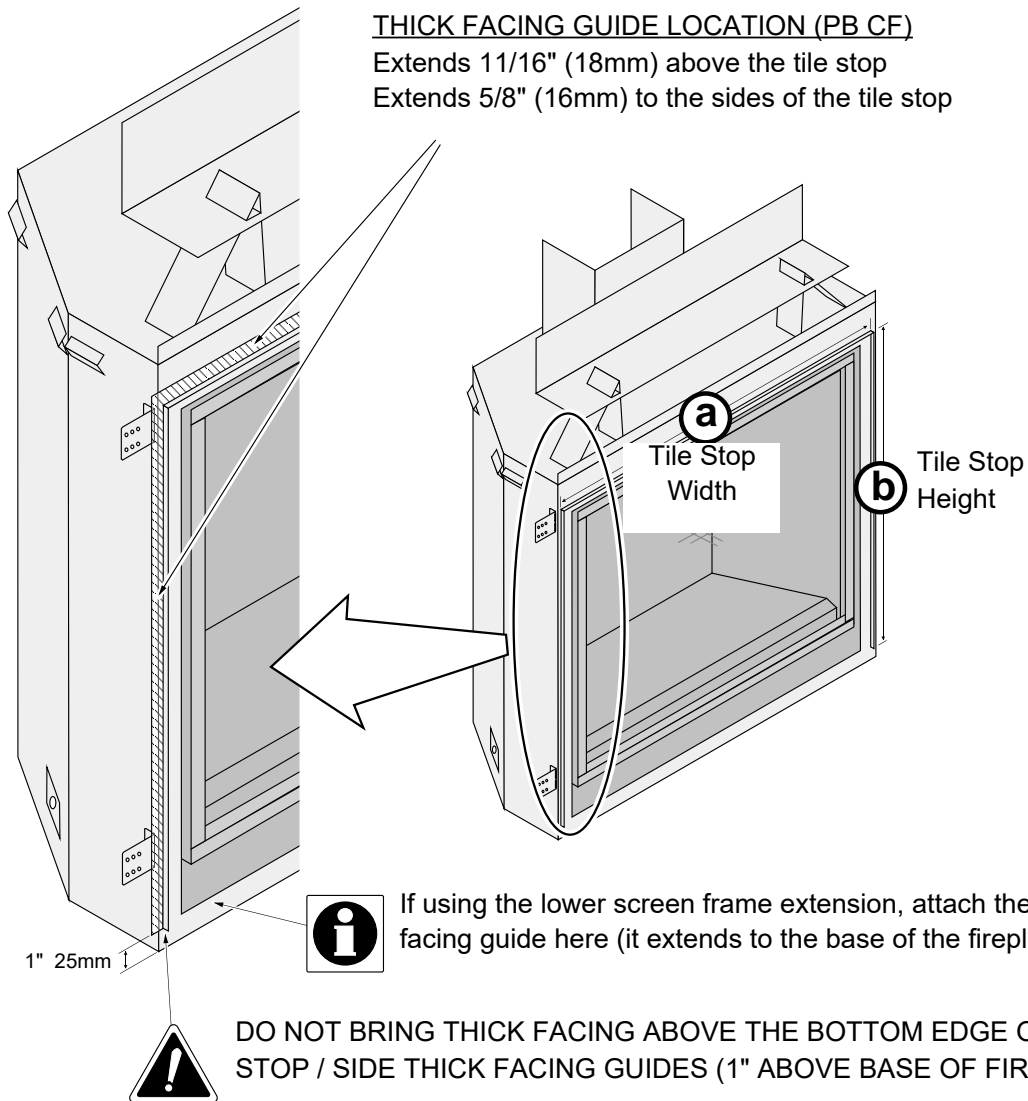
You may leave the screen assembly in place while installing thick facing. You may wish to protect it with plastic (or other suitable material) to repel debris.

When using thick facing, make sure to install the facing above, below, and to the sides of the thick facing guide. Do not allow any facing material to overlap the thick facing guide (this would prevent removal of the screen assembly).





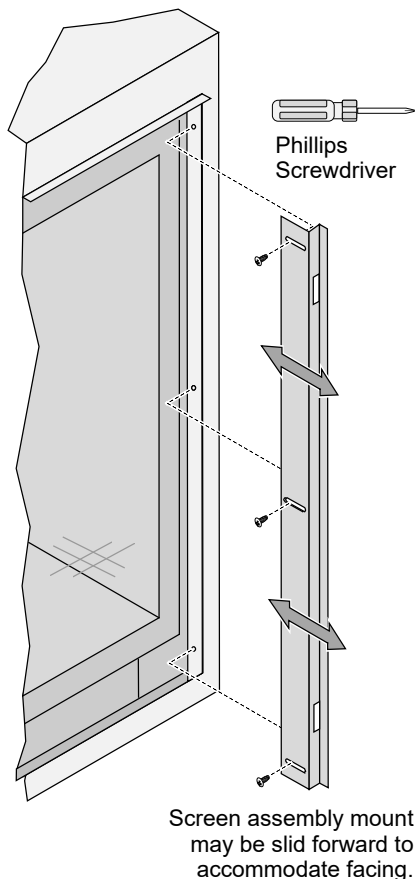
## THICK FACING GUIDE SIZE



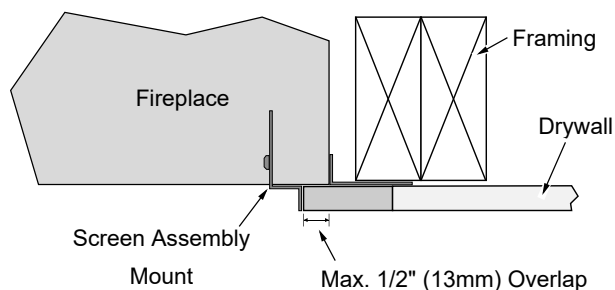
|                | Tile Stop Width<br>(a) | Tile Stop Height<br>(b) |
|----------------|------------------------|-------------------------|
| <b>PB24 CF</b> | 23-1/8" (588mm)        | 32-5/8" (829mm)         |

### Thin Facing (1/2" (13mm) to 1-1/2" (38mm))

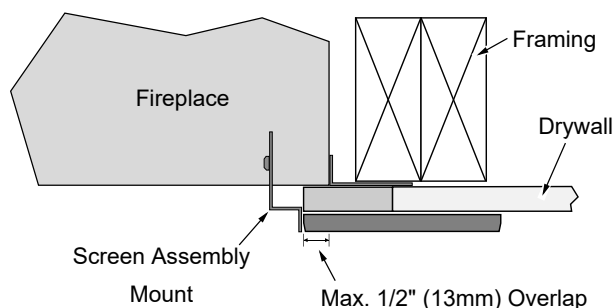
When using thin facing you may remove the thick facing guide and tuck the facing underneath the screen assembly. The screen assembly mounts may be adjusted to position the screen assembly directly against the facing (see "Screen Assembly Mounts" below). To further illustrate this, note how the screen assembly mount is moved forward in the 1" (26mm) facing example below).



#### Thin Facing (1/2" 13mm) - Top View



#### Thick Facing (1" 26mm) - Top View



### Screen Assembly Mounts

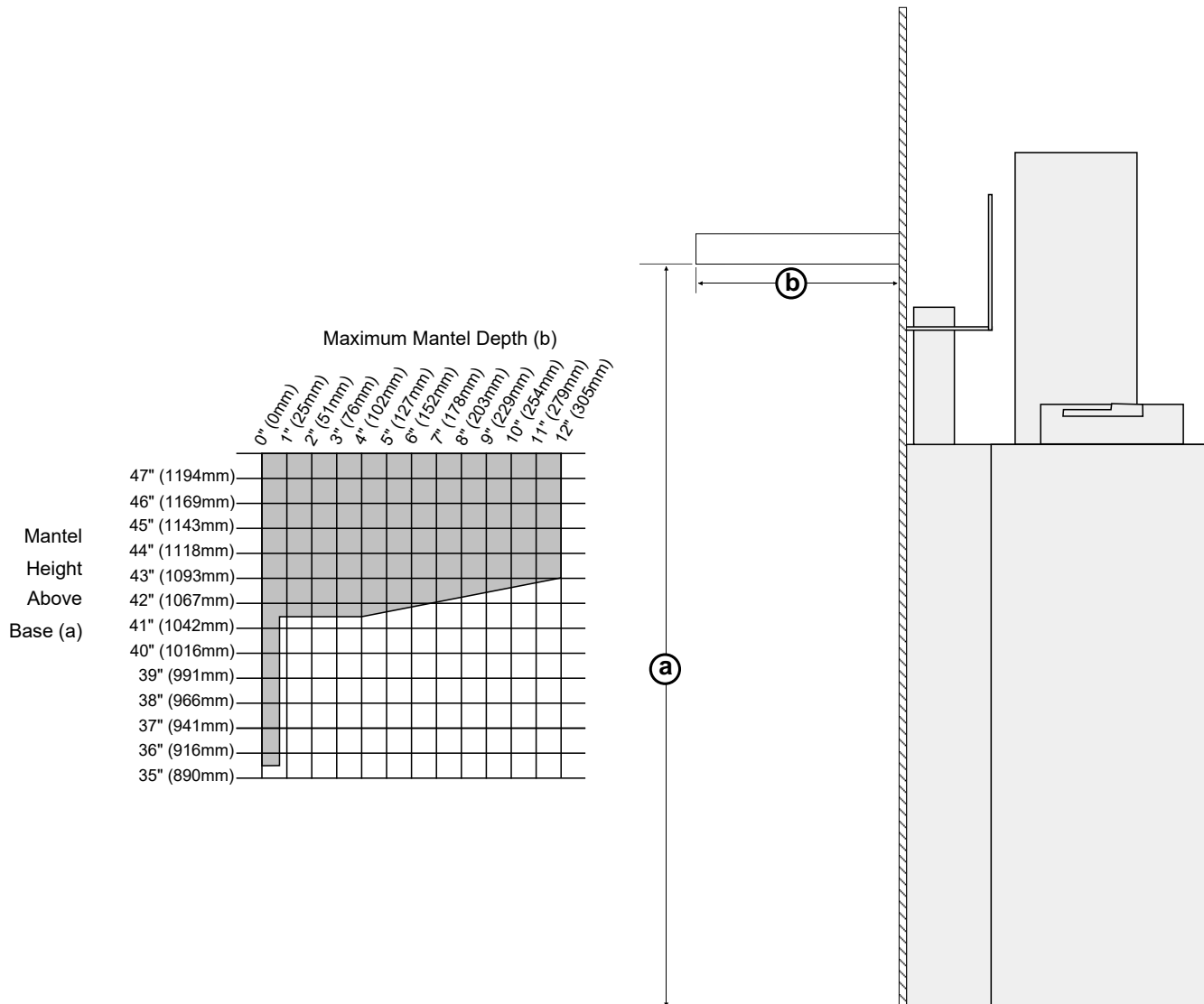
The screen assembly mounts (located on outer front edges of the fireplace) are adjustable to allow the screen assembly to be positioned 1/2" (13mm) to 1-1/2" (38mm) from the front of the fireplace. This allows facing to tuck under the screen assembly. Each mount is held in place by (3) Philips head screws. Before mounting the screen assembly, adjust the mounts so that the front edge is flush with the finish material surrounding the fireplace. To adjust the mounts, loosen the screws, slide the mounts to the desired position, and then tighten the screws.



Position edge of mount flush with finish material

## Mantel Requirements

- Use the table below to determine the maximum mantel depth allowed. The mantel depth (measured from the non-combustible facing) must fall within the shaded portion of the table.
- Any material above the fireplace that protrudes more than 3/4" (19mm) from the non-combustible facing is considered a mantel and must meet the mantel requirements.



## Mantel Column Clearances

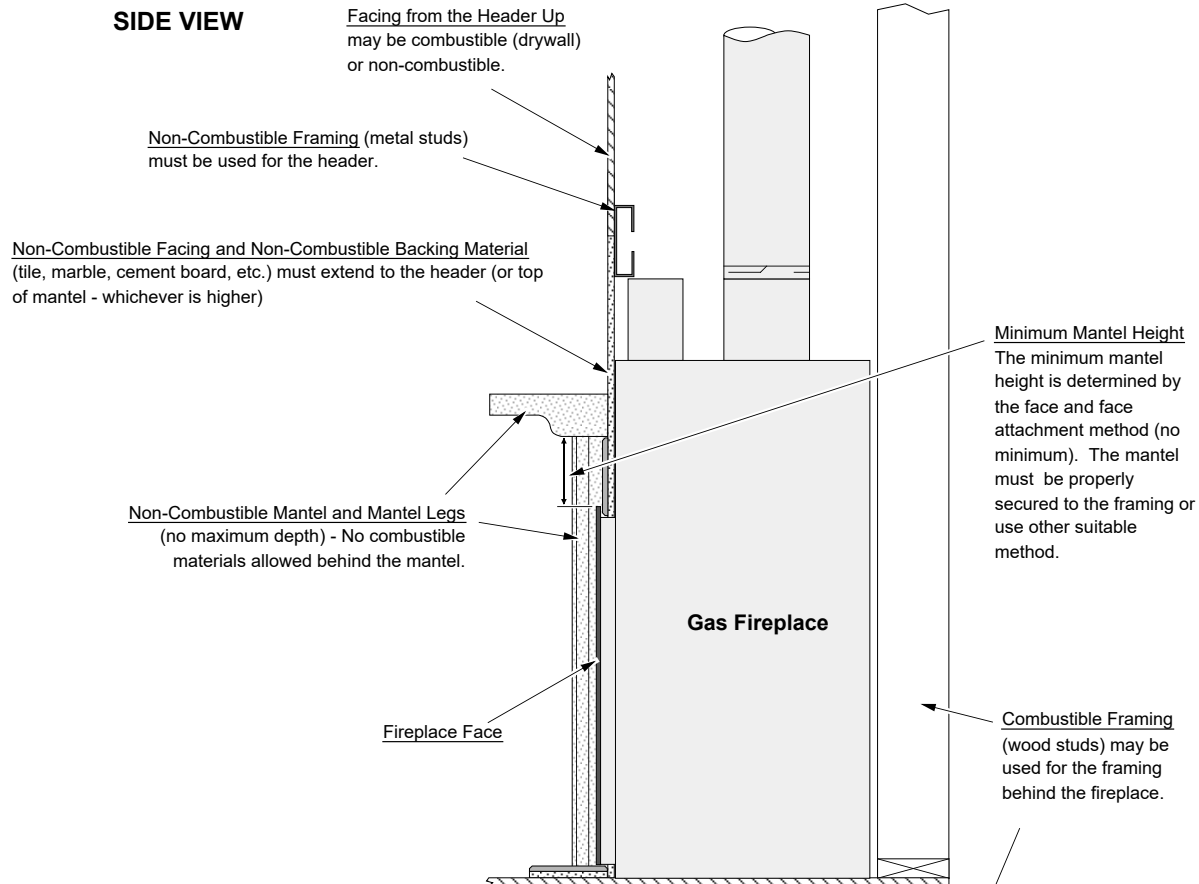
- Combustible mantel columns (legs) require a 0" (0mm) clearance to the side of the fireplace (they must be to the side of the fireplace).
- Non-combustible mantel columns do not have a minimum clearance.

### ***Use of a Non-Combustible Mantel Below Listed Mantel Clearances***

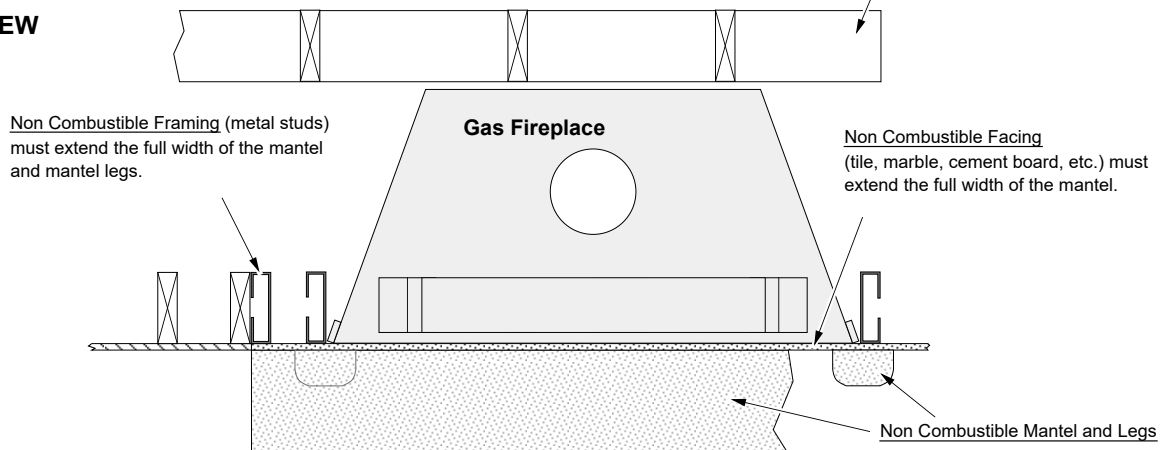
Each gas fireplace has a unique set of mantel requirements. If you wish to place a non-combustible mantel at a lesser height than specified in this manual, it will need to meet the following requirements:

- The header (the framing member above the fireplace opening) must be non-combustible.
- The facing must be non-combustible and extend to the header (or mantel, whichever is greater). The facing must also span the entire width of the mantel.
- See the illustration below for additional requirements.

#### **SIDE VIEW**



#### **TOP VIEW**

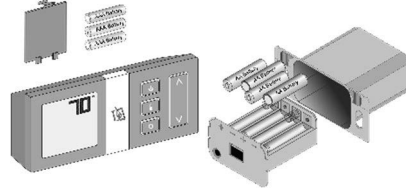


## Finalizing the Installation

1. Remove the glass (see page 44).  
**NOTE:** If using propane (LP) convert the appliance prior to installing the media.
2. We recommend you purge the gas line at this time (**with the glass removed**). This allows gas to be detected once it enters the firebox, ensuring gas does not build up.

### GSR2

Install the batteries into the battery box and remote.



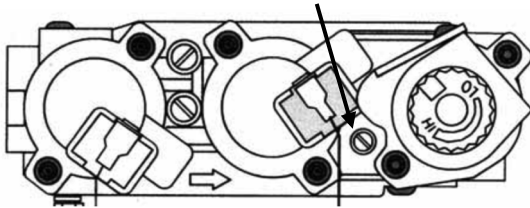
3. Turn on gas to the heater. Leak test all gas joints prior to starting the appliance. Start the pilot to verify gas supply (see instructions on page 43). Leak test all the gas joints. Turn the gas control knob to "OFF" to shut off the appliance.

### Pilot Flame Inspection

The pilot flame should look like the illustration below. Adjust the pilot flame if necessary.

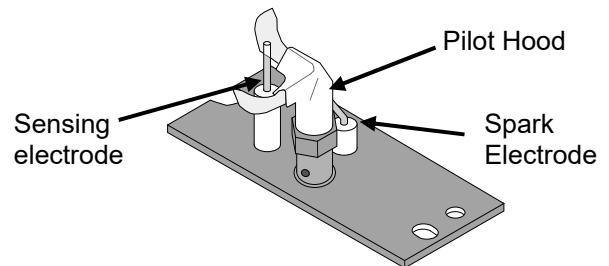
The pilot flame should look like the illustration below. Adjust the pilot flame if necessary.

To adjust the pilot flame, turn this screw. Clockwise lowers the flame while counter-clockwise raises it



Standard Screwdriver

The pilot flame should touch the top 3/8" of the sensing electrode and make contact with the hood. Adjust the pilot up or down as necessary.

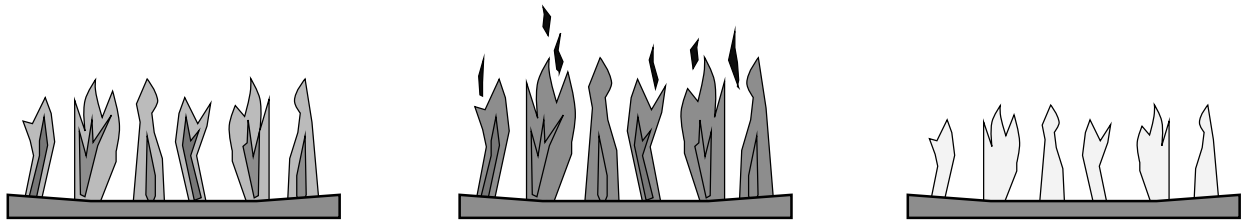


4. Replace the glass.
5. Start the main burner and verify the burner ignites correctly.
6. Leak test all gas joints.

### Air Shutter Adjustment

Let the heater burn for fifteen minutes (make sure the logs and glass are in place). The flames should be yellow with no sooting. Adjust the air shutter, if necessary, to achieve the correct looking flame.

#### Air Shutter Adjustment



**Correct**

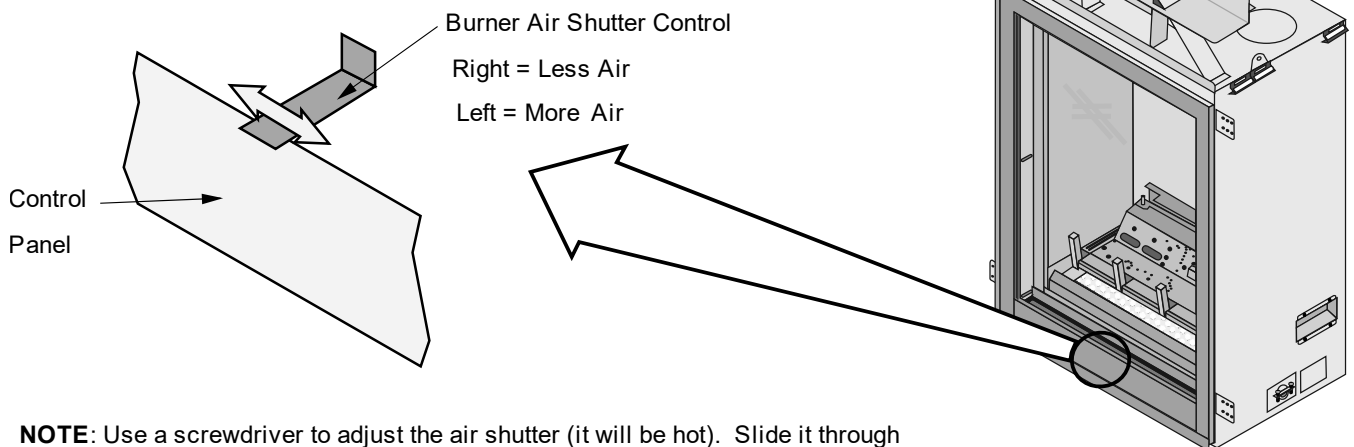
Flames should be blue at the base, yellow-orange on the top.

**Not Enough Air**

If the flames are too tall or sooty on the ends, open the air shutter.

**Too Much Air**

If the flames are all blue and short, close the air shutter.



**NOTE:** Use a screwdriver to adjust the air shutter (it will be hot). Slide it through the control panel and into the air shutter control.

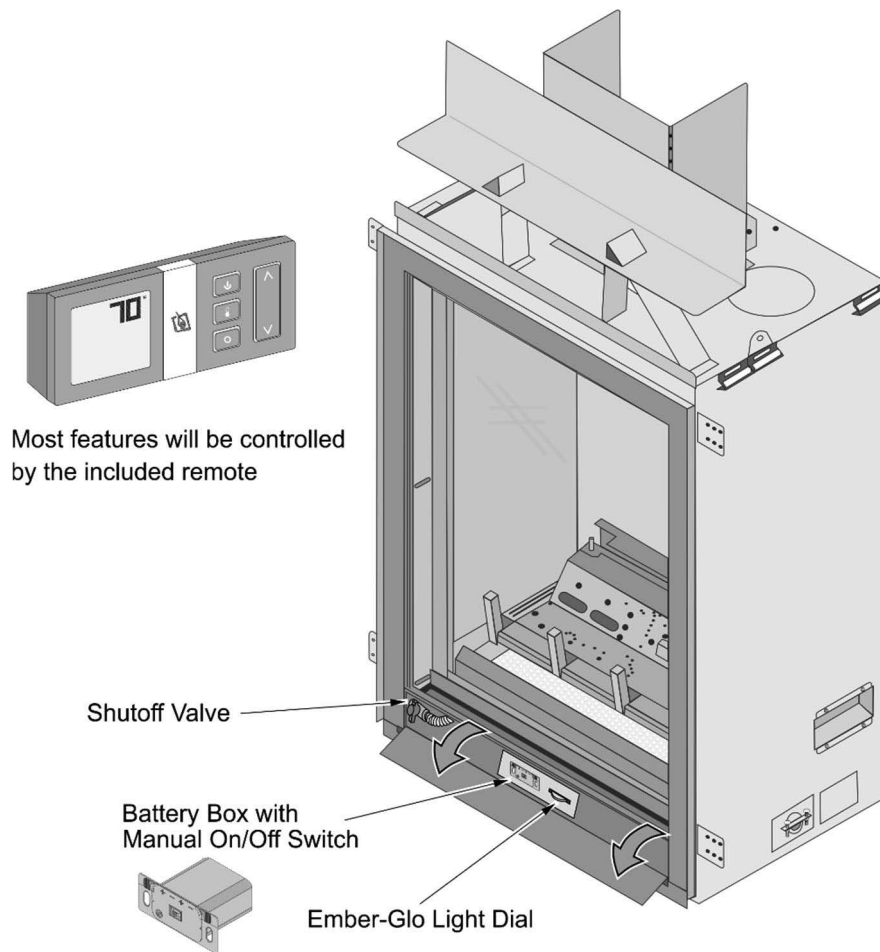
Typically, the air shutter is more closed (right) on NG, more open (left) on LP.

7. Adjust the flame to its highest position - the flames should not contact the top of the firebox. Check the flame in the low position. The flames should burn off of each burner hole. If the heater does not work correctly, contact your Travis dealer for a remedy.
8. Give this manual to the homeowner for future reference and fully explain the operation of this heater. For comprehensive operating and maintenance instructions, refer to the Owner's Manual.

**ACID WASH WARNING:** Make sure any masonry that has been treated with acid wash has been properly neutralized (this is used primarily with brick faces). Acid wash (muriatic acid) is used to remove excess mortar.

## Location of Controls

There is a door on the lower portion of the screen assembly to provide access to the manual controls on the fireplace. The door is held closed by two magnets. Open the door by gently pulling outward on the upper portion of the lower trim.



## Glass Frame Removal and Installation



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



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



**The appliance must be completely cool before removing the glass.**



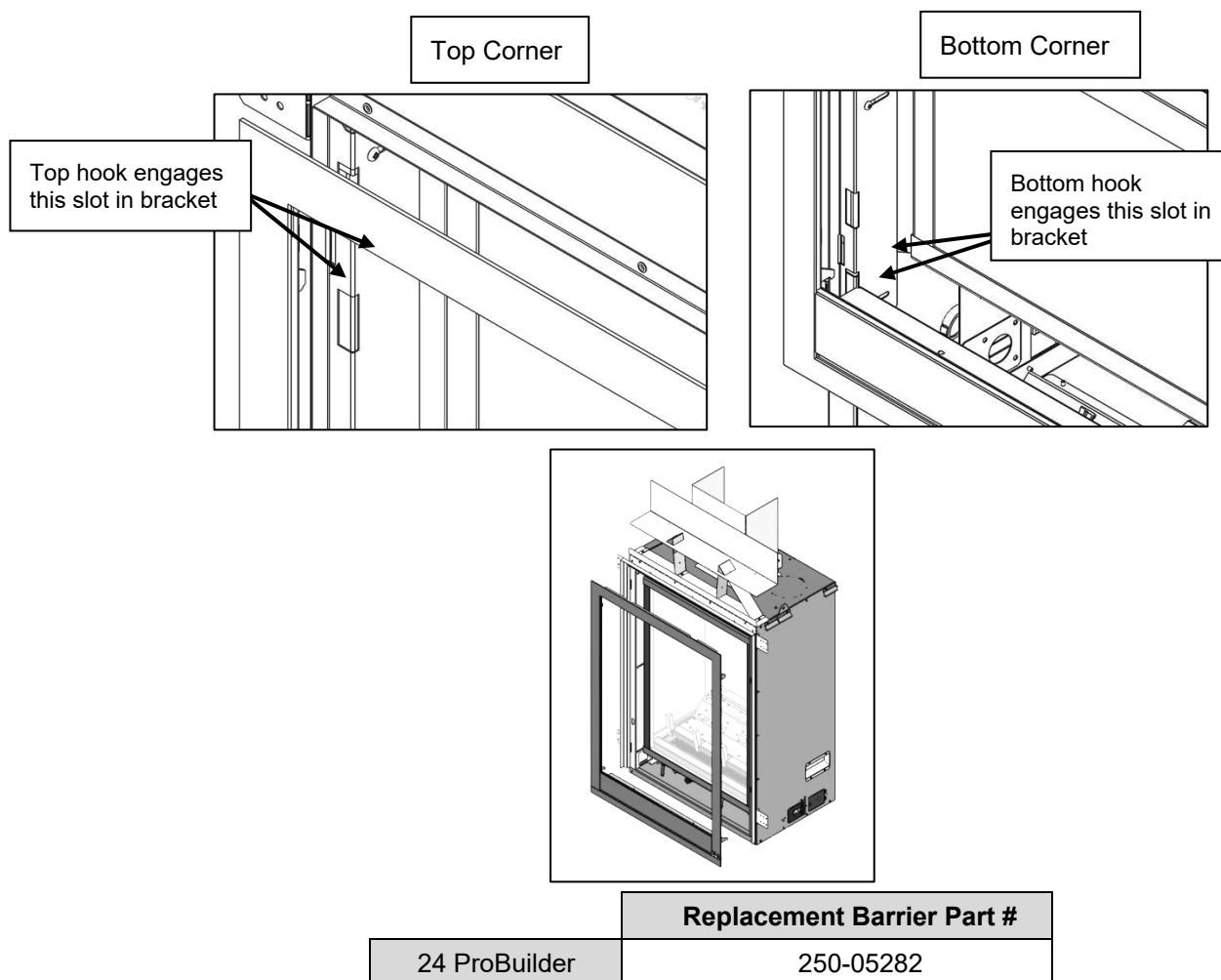
**Do not strike or slam the glass.**



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

1. Remove the screen-trim assembly by lifting the assembly slightly and tilting it toward you. The mounting hooks on the back of the assembly will disengage the fireplace. Set the assembly aside for reinstallation.

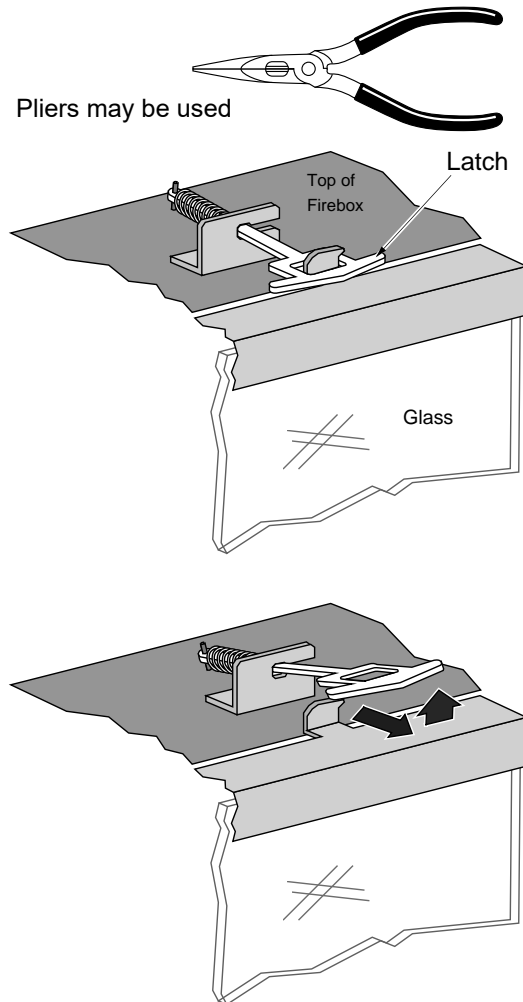
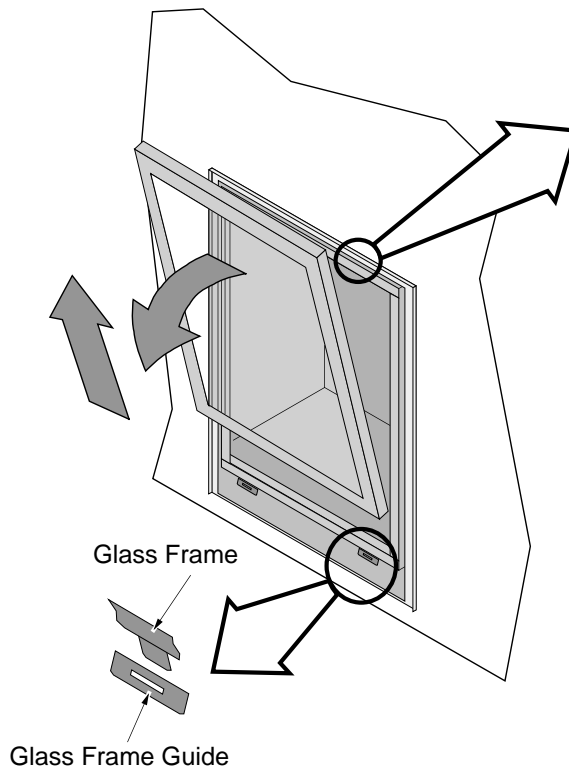
**NOTE:** Opening the access door on the front of the assembly allows for an easy location to get a secure grip on the assembly for removal



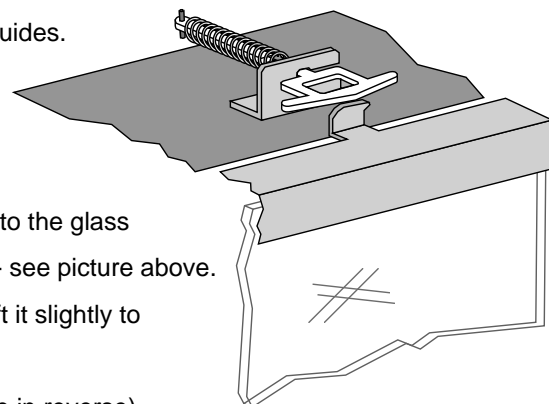


2. Remove the glass frame following the directions below.

- a** Hold the glass to prevent it from falling forward.  
Open the 2 latches holding the glass frame in place - follow the directions shown to the right.



- b** Lift the glass frame slightly, swing the top forward, then lift the glass frame to disengage it from the bottom guides.



## Re-Attaching the Glass Frame:

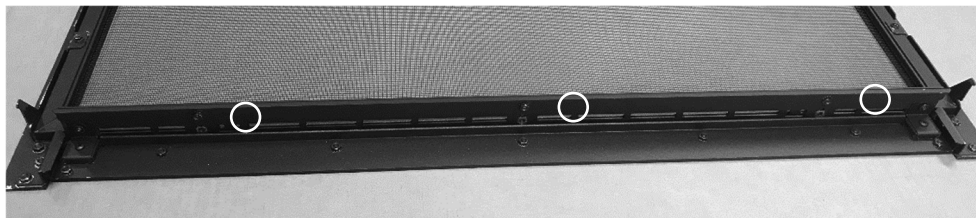
- Slide the two tabs on the bottom of the glass frame into the glass frame guides. Hold the glass frame at a slight angle - see picture above.
- Swing the glass frame into place - you may have to lift it slightly to allow it to fit over the top of the firebox.
- Attach the upper latches (follow the instructions above in reverse).

| Replacement Glass Frame Part # |           |
|--------------------------------|-----------|
| 24 CF ProBuilder               | 250-05285 |

**Barrier Screen Visual Deflector Adjustment**

The barrier screen assembly has an adjustable visual deflector along the lower edge. If the assembly is adjusted to accommodate thick facing material, adjust the deflector, as shown below, to block the view of the valve area.

1. Place the screen assembly face down on a soft surface to protect it from scratching. Locate the nuts along the bottom edge of the deflector (in this example there are 3, your fireplace may have more).



2. Remove the nuts using an 11/32" nut driver. Move the deflector to the desired position and reinstall the kept nuts. Test fit the assembly to the fireplace and make any adjustments as needed.



## Log Set Installation

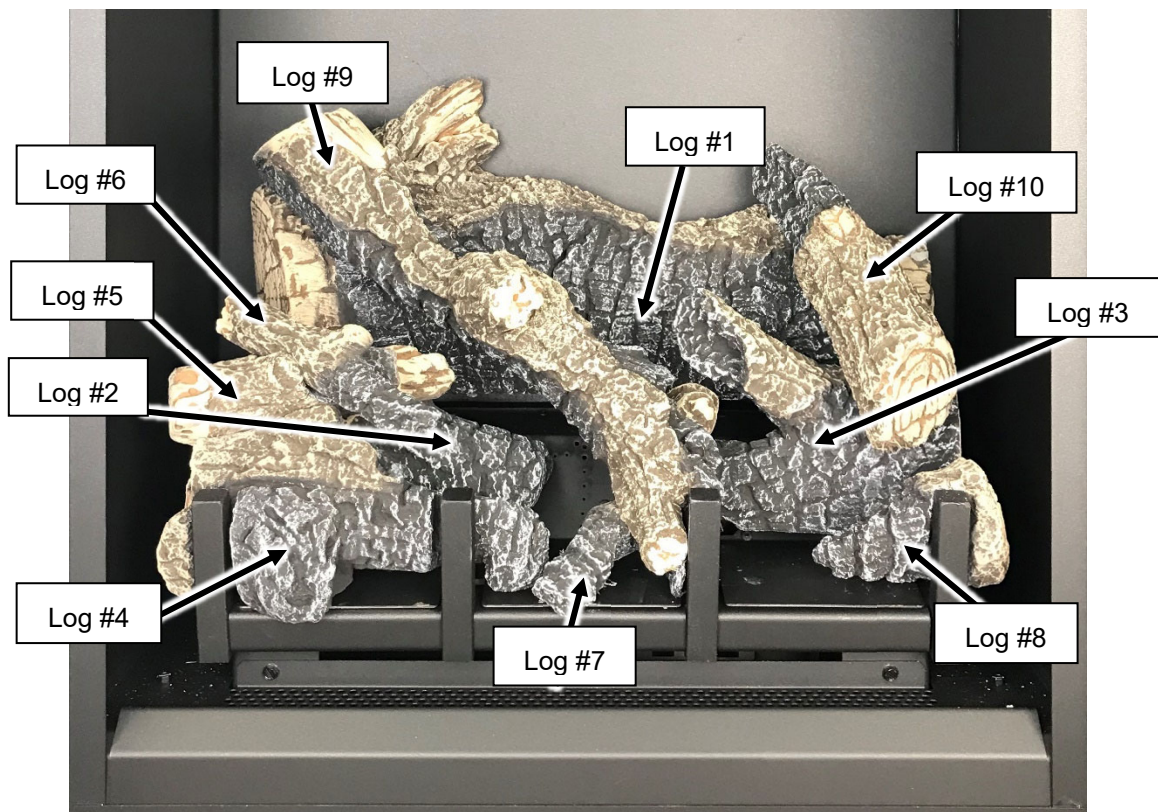
### Installation Warnings

**NOTE:** Consult the installation manual for order of installation. If using propane (LP), convert the appliance before installing the log set. If using firebacks, install them prior to installing the log set.

- **The logs are fragile, especially after being exposed to heat.**
- Make sure the gas control valve is OFF and the heater is cool prior to conducting service.
- Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved with this appliance may result in property damage or personal injury.
- The burner must be correctly positioned before installing the log set. Make sure the burner is fully seated and the pilot is properly aligned. See owner's manual for details on burner removal.

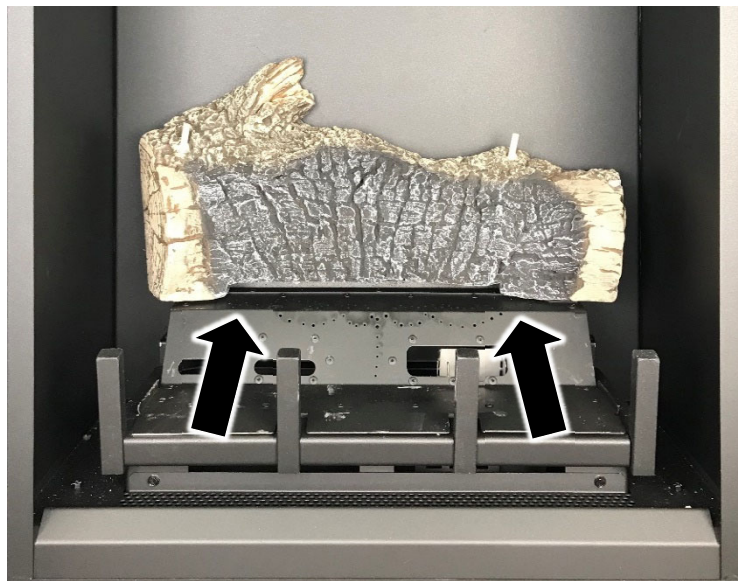
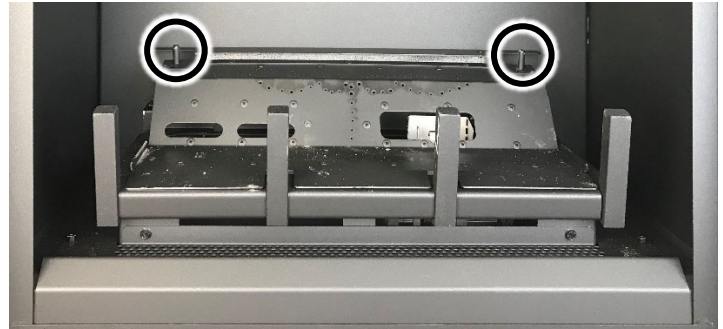
### Log Set Overview – Oak 94500620

When installed, the ten (10) logs should appear as shown below.



**Installation****Log #1**

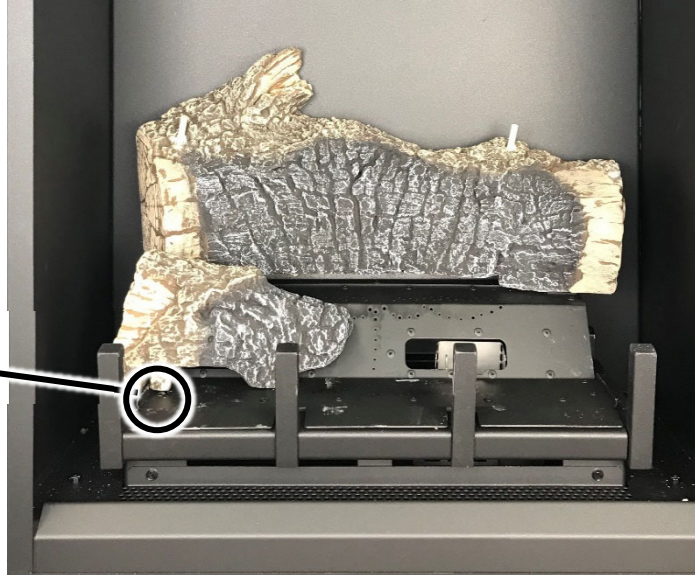
Log #1 has two holes that fit over two pins on the back burner (see photos below). Place the log in place and push it back. The log straddles the burner and does not cover any burner holes.





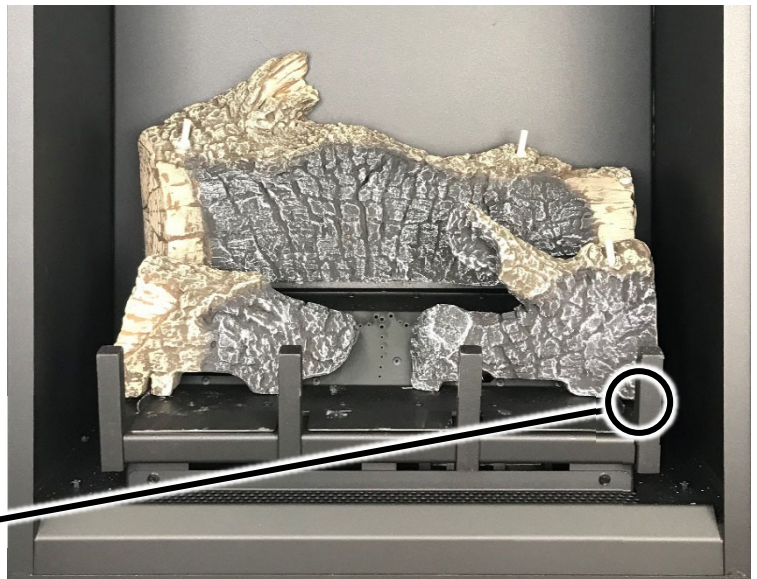
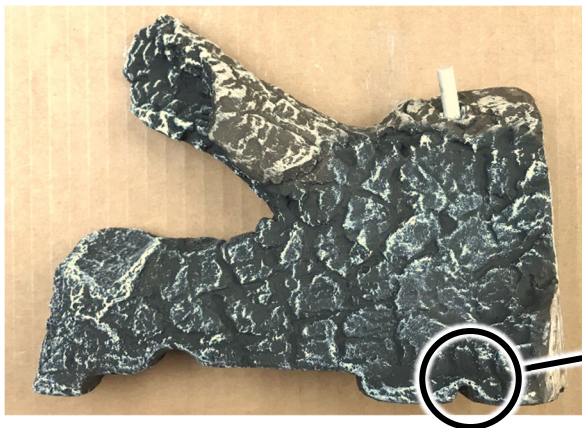
## Log #2

Log#2 has a groove in the bottom of the left side. The groove fits over a metal ridge on the left end of the bottom burner. Slide the log backward until it contacts the sloped portion of the burner. Make sure the log does not block any burner holes.



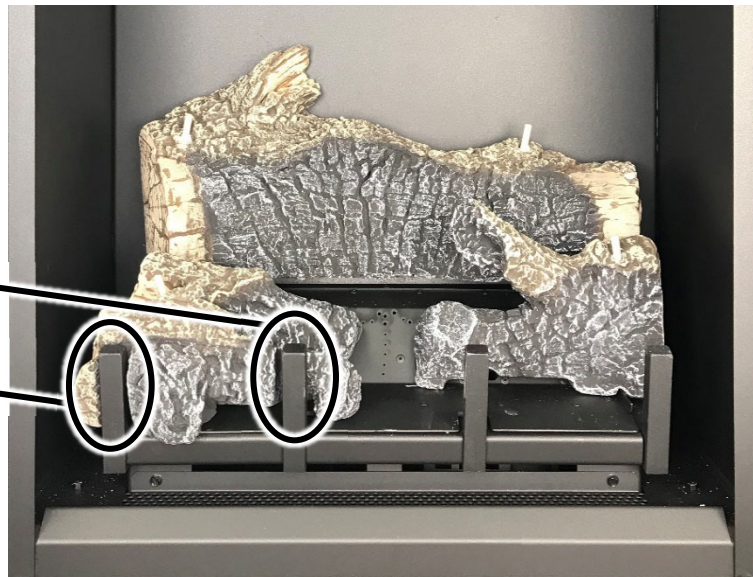
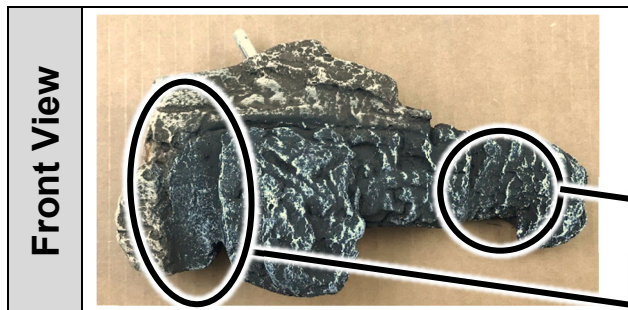
## Log #3

Log#3 has a groove in the bottom of the right side. The groove fits over a metal ridge on the right end of the bottom burner. Slide the log backward until it contacts the sloped portion of the burner. Make sure the log does not block any burner holes.

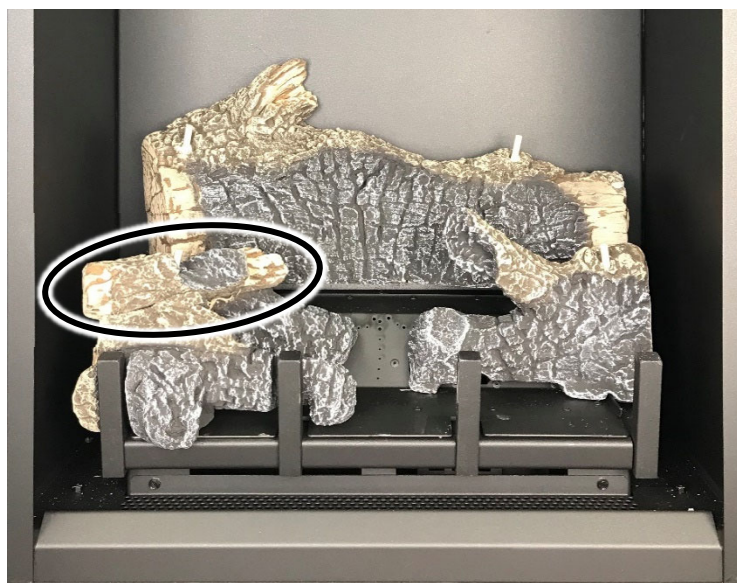


**Log #4**

Log #4 has (2) channels that align the log with the log grate. Place the log as shown below.

**Log #5**

Place log #5 as shown below. The hole on the bottom of log #5 fits over the pin on Log #4.





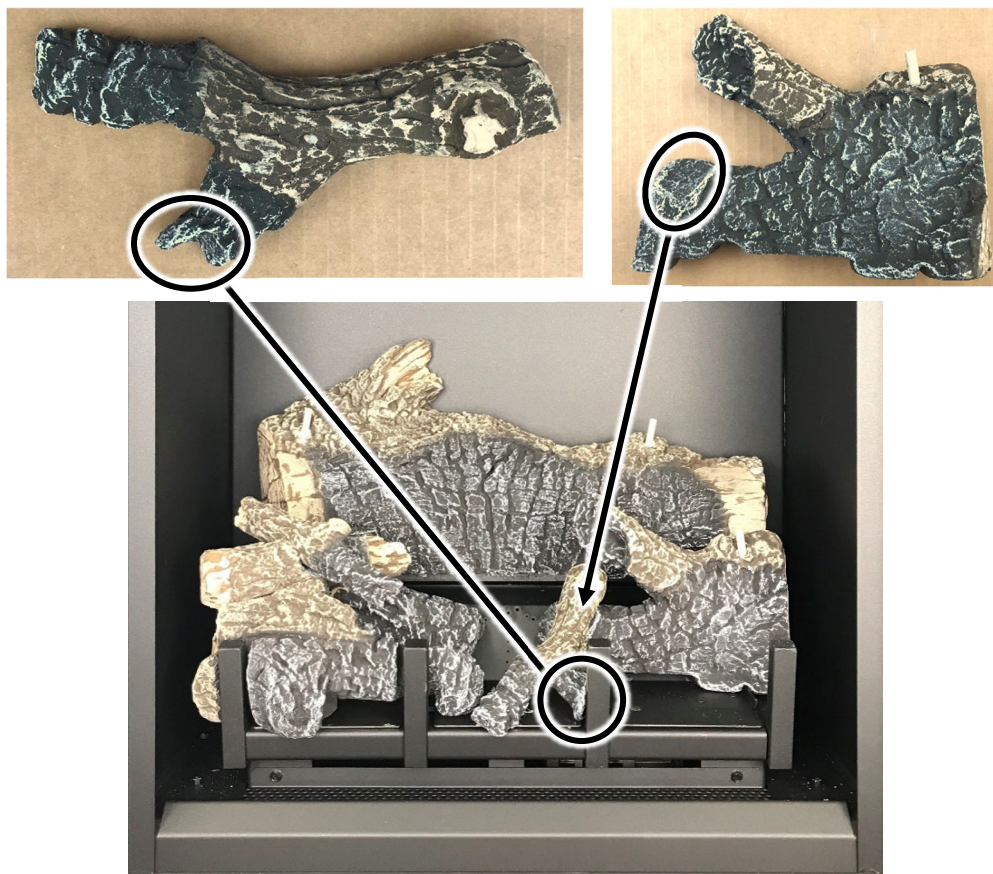
## Log #6

Place log #6 as shown below. The hole on the bottom of log #6 fits over the pin on Log #5. The charred end points towards the center of the burner.



## Log #7

Place log #7 as shown below. The charred end of log #7 rests on the burner. The right branch has a notch that aligns the log with the finger of the log grate. The upper end of log #7 rests on a groove in log #3.

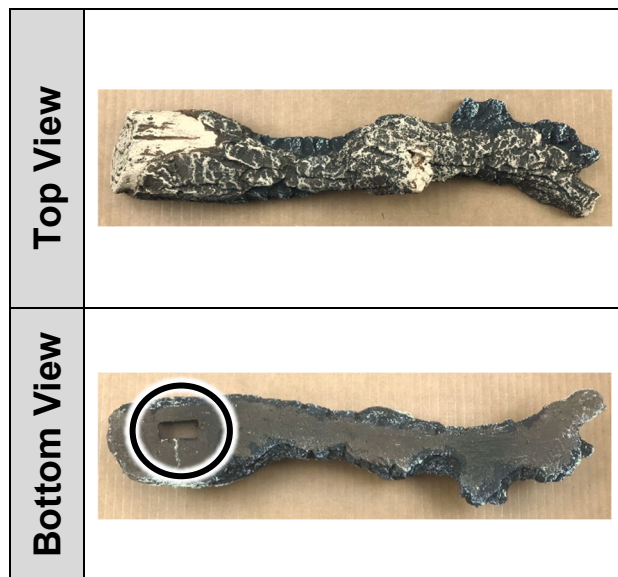


**Log #8**

Place log #8 as shown below. Log #8 has a notch that aligns the log with the finger of the log grate.

**Log #9**

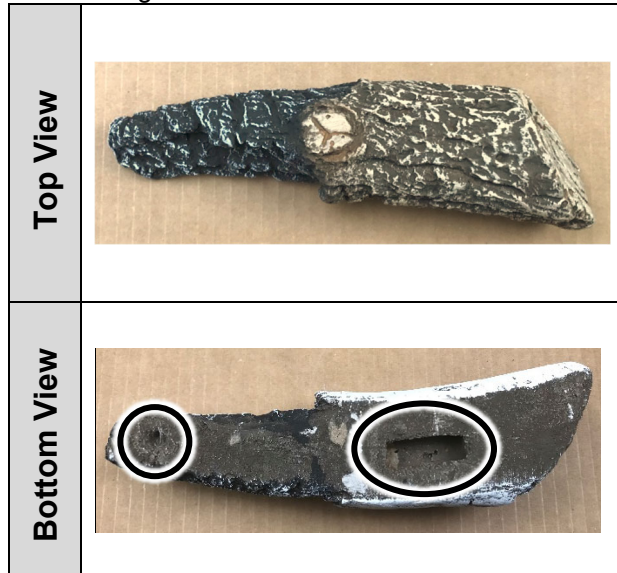
Place log #9 as shown below. The hole on the bottom of log #9 fits over the pin on the left end of Log #1. The right end of log #9 rests on Log #7. There is a notch in the end of the log that rests on the finger of the log grate (see below).














## Log #10

Place log #10 as shown below. There are (2) holes on the bottom of log #10. The round hole fits over the pin on the right end of Log #1 and the slotted hole fits on the pin on log #3. The right end of log #10 rests on Log #8.



| (94500620) Oak - Log Replacement Part Numbers |           |   |
|---|-----------|---|
| Log #1  | 250-05455 |   |
| Log #2  | 250-05456 |  |
| Log #3  | 250-05457 |  |
| Log #4  | 250-05458 |  |
| Log #5  | 250-05459 |  |

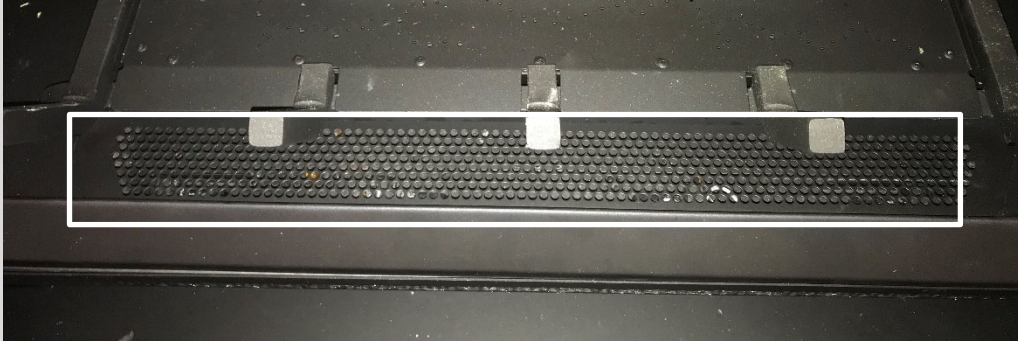
| (94500620) Oak - Log Replacement Part Numbers |           |   |
|---|-----------|---|
| Log #6  | 250-05460 |  |
| Log #7  | 250-05461 |  |
| Log #8  | 250-05462 |  |
| Log #9  | 250-05463 |  |
| Log #10                                       | 250-05464 |  |

## Ember bed Glass and Ember Material Installation

### Ember bed Glass Installation

The Ember-Glo™ lights come standard on the GSR2 units. Make sure the ember skirt is in place. The skirt hooks over the front of the ember platform and slopes outward toward the glass. The skirt helps keep the glass and ember material from falling off the platform when the glass is removed.

- Locate the perforations in front of the log grate.



- Place a thick layer of the ember glass over the perforations making sure to cover all of the holes completely.



- Lightly dress the ember glass with the black touch-up paint provided. Check the appearance with the lights on and add additional paint, as needed, for a realistic glowing ember appearance.

**NOTE:** If power is supplied to the fireplace it can help to turn the lights on while painting so you can determine an appropriate amount of paint for a realistic ember appearance.

**NOTE:** We recommend that you use a piece of paper, cardboard as a shield to mask the log grate and burner from overspray (see below).





### Ember Material Installation

- Once the ember glass installation is complete, place a generous amount of ember material on the firebox floor on either side of the firebox. Completely cover any visible metal on the firebox floor.

**NOTE:** Make sure no ember material is placed directly on the burner.

**HINT:** Add a few randomly placed ember chunks over the ember bed glass to produce a more realistic appearance.



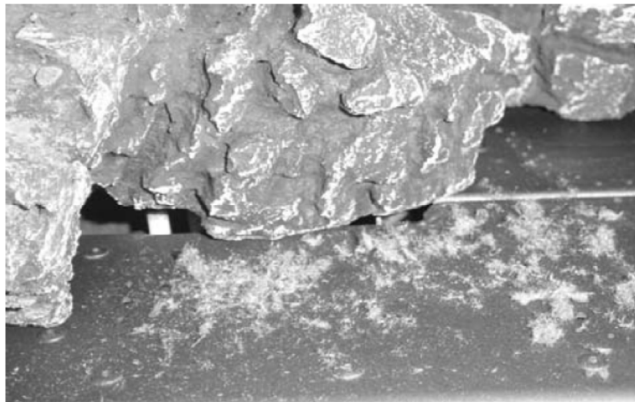
### Ember Installation

A bag of embers is provided to further enhance the firebox. Place the embers on the firebox floor and on the burner. Do not place embers over any of the burner holes or air channels.



### Rock Wool Placement (All Models)

The included rock wool is placed on top of the burner to enhance the glow from the burner. **The rock wool works best when it is applied in a very thin layer.** The best method for applying the rock wool is to brush it on to the burner. Compress a clump of rockwool between your thumb and forefinger. Use a stiff brush to apply a thin layer of rockwool fibers onto the burner. Do not use the entire bag of rockwool. Use only a small amount and save the remainder. Over-use of rockwool will diminish the glow and may cause sooting or other adverse conditions.



**LP Conversion Instructions****WARNING**

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the authority having jurisdiction. If the information in these instructions is not followed exactly, a fire, explosion, or production of carbon monoxide may result causing property damage, personal injury, or loss of life. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

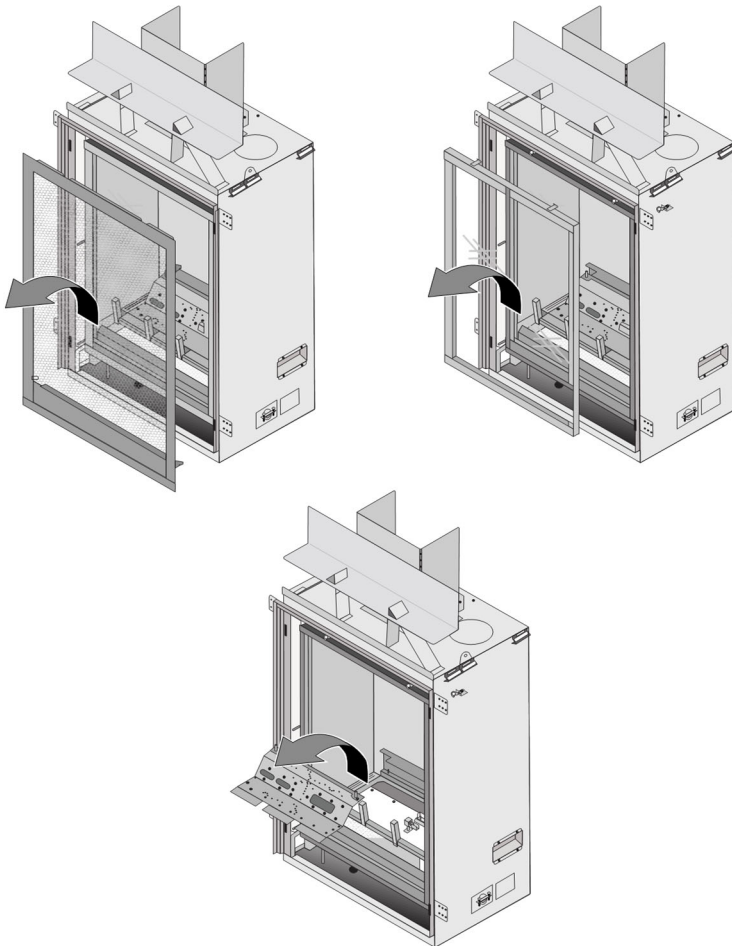
**CAUTION:** The gas supply shall be shut off prior to disconnecting the electrical power, before proceeding with the conversion.

**NOTE:** Convert the appliance prior to installing the gas line to ensure proper gas use.

The GSR Stepper Motor Kit (4-pack = 94400999, single = 250-01463) is required for converting this appliance to LP. The kit contains the stepper motor (regulator) and Torx wrench. The burner orifices, pilot orifice, and burner gaskets are shipped with the appliance.

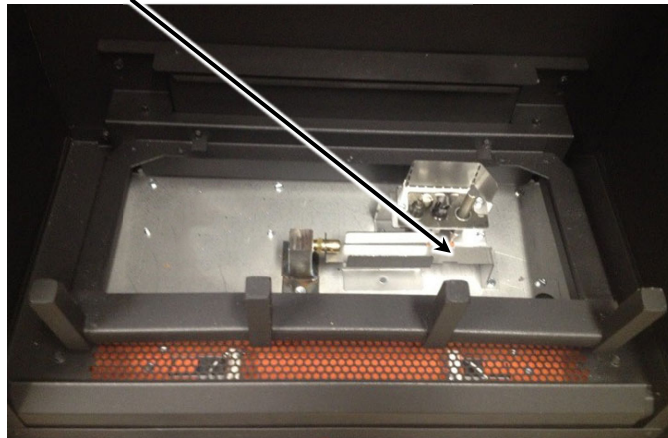
1. Remove the barrier and glass. Remove the logs and embers (if installed - page 47)
2. Remove the burners following the directions below.

Lift the rear burner and lift it from the firebox. The burner has a bracket that inserts over two pins behind the burner. When replacing the burner make sure it is properly located.



3. Remove the manifold covers.

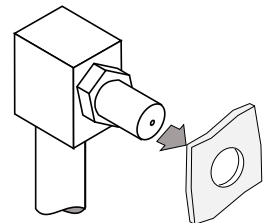
**NOTE:** Reinstall the manifold cover after changing the orifices



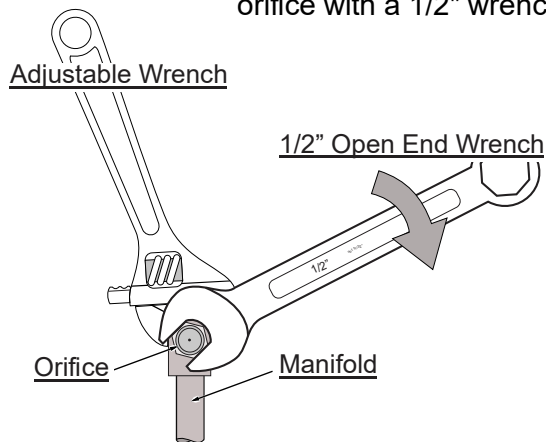
4. Follow the directions below to replace the orifice.

(a) Slide the air shutters to provide access to the orifices.

(b) Remove and discard the two gaskets on the front burner orifice.

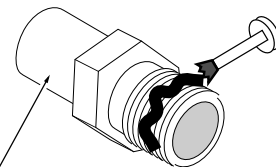


(c) Use a adjustable wrench to support the manifold while removing each orifice with a 1/2" wrench.



(d)

Apply thread sealant to the LP orifices prior to installation. Use the chart below to identify the correct orifices.

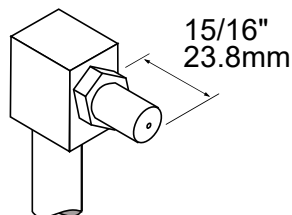


Look here for the orifice identification

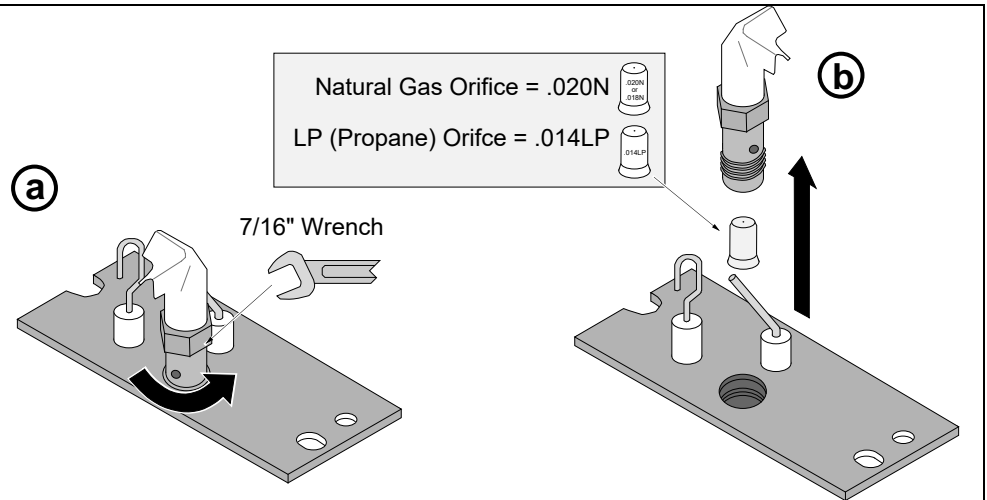
## 24PB Orifice Numbers

| NG  | LP  |
|-----|-----|
| #47 | #56 |

(e) Screw each LP orifice until orifice protrudes 15/16" (23.8mm) indicating full insertion (use wrench to support manifold when re-attaching orifice).



5. Install the LP pilot orifice following the instructions below.
  - (a) Use a 7/16" open-end wrench to remove the pilot hood.
  - (b) Remove and discard the Natural Gas (NG) orifice. Place the LP orifice in the pilot assembly then replace the pilot hood, tightening the pilot hood until it is snug (do not over-tighten).

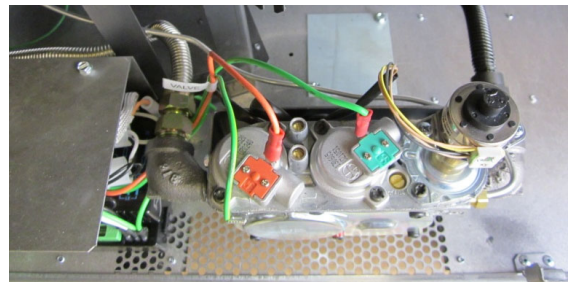
**GSR2**

6. Remove the regulator from the front of the gas control valve. There is a knob extension on the regulator knob that will need to be moved to the new regulator. To remove the extension pull toward you. Replace with the propane regulator, using the new gasket and screws included with the regulator. Re-install the knob extension onto the LP regulator knob. The knob extension is directional so you may need to turn it until it lines up properly with the regulator knob and can be pushed into place.

**NOTE: Leak test this area after the heater is installed, gas is connected, and the main burner is lit.**

**GSR2**

The stepper motor (adjustable regulator) has an installation sheet included with it – make sure to follow all of the directions. Place the stepper motor on the gas control valve (see below) – **MAKE SURE IT IS CORRECTLY ORIENTED**. Secure using the screws included with the motor – tighten to 25 Lb-inches. Leak test this area after installation to verify proper installation.

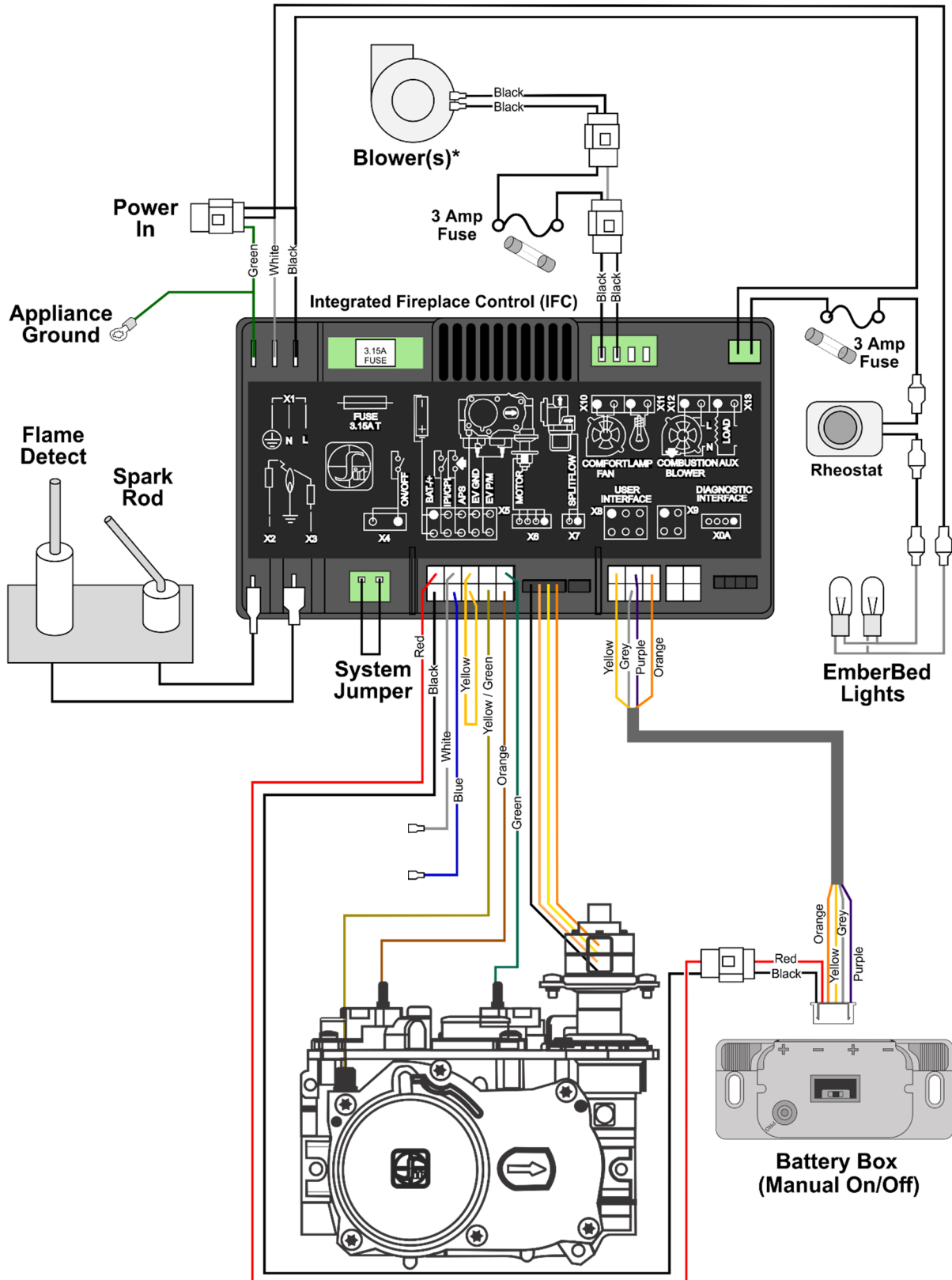


7. Make the gas line connection, bleed the gas line (if applicable), start the heater, and thoroughly leak-test all gas connections and the gas control valve.



## ***Wiring Diagram – GSR2***

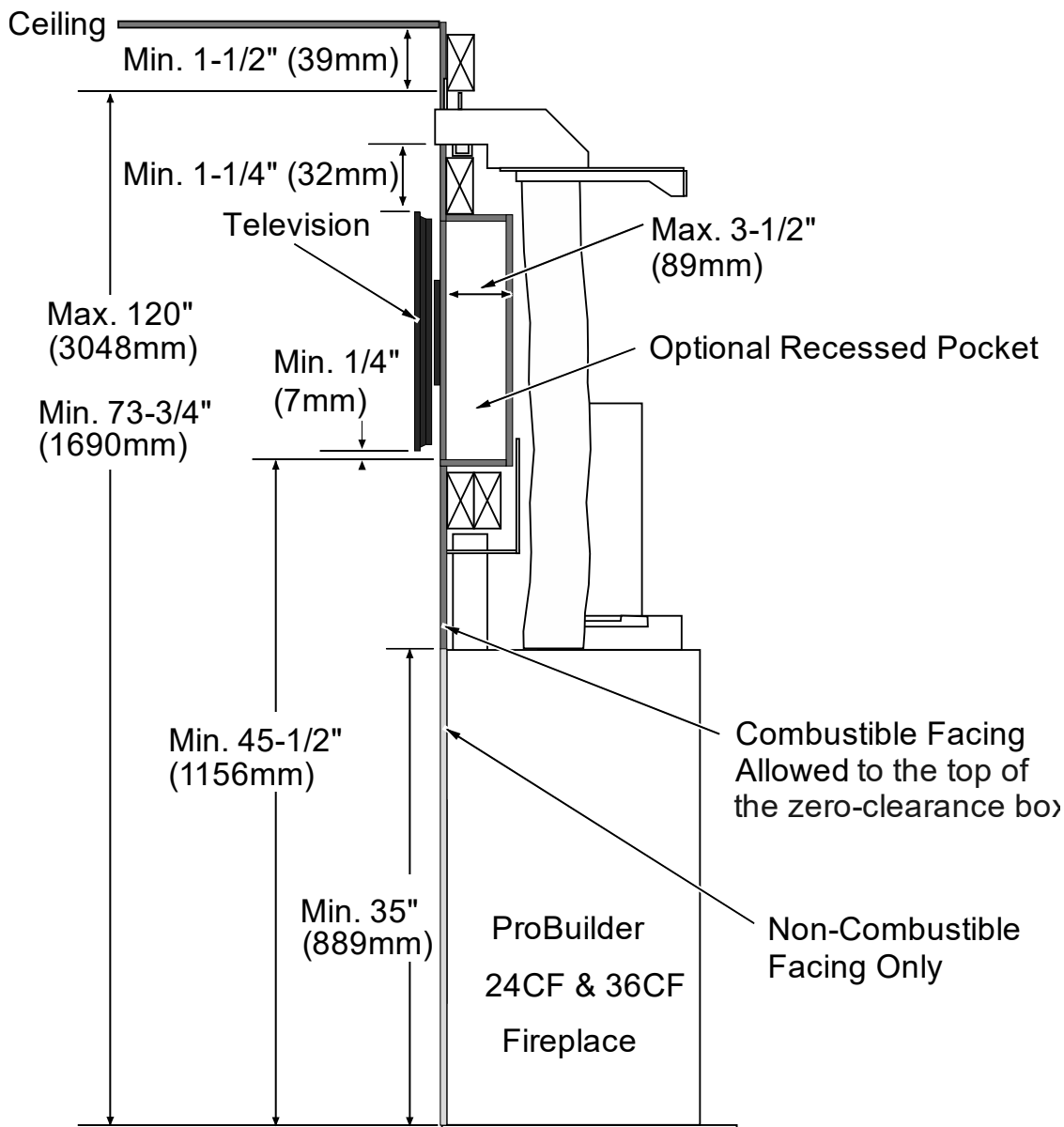
**Caution:** Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation.



### CoolSmart TV – Installation Overview (Optional)

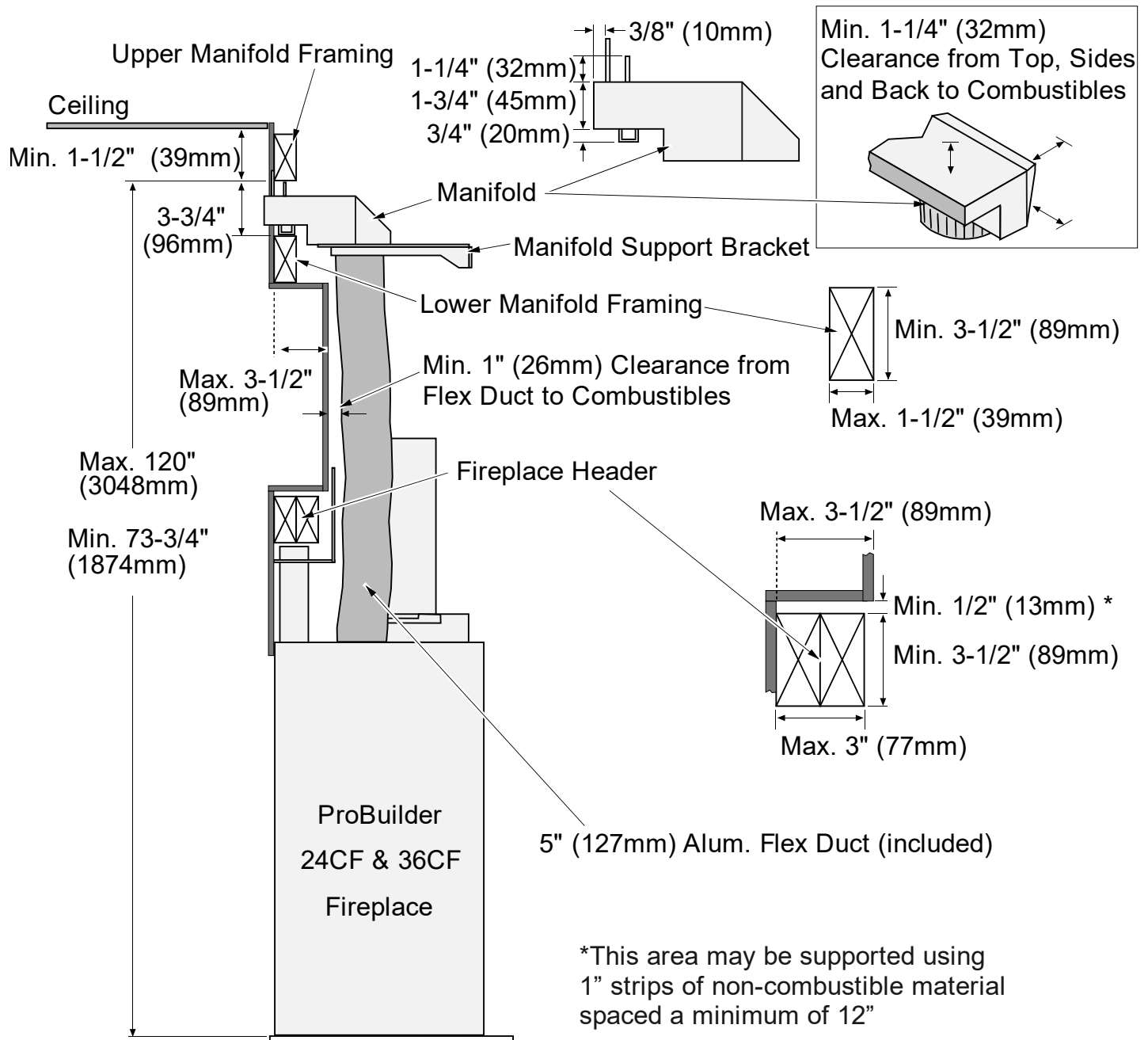
The CoolSmart system is designed to redirect the convective heat of the fireplaces from the front of the unit, just above the glass, to a location higher on the wall. The use of this kit allows for reduced clearances to televisions and a recessed cavity above the fireplace. When using this kit, disregard the standard framing dimensions and follow the framing instructions for the CoolSmart kit.

When used on the PB234 CF & PB36 CF, this kit allows for the **non-combustible facing height to be reduced**. See illustration below for details.



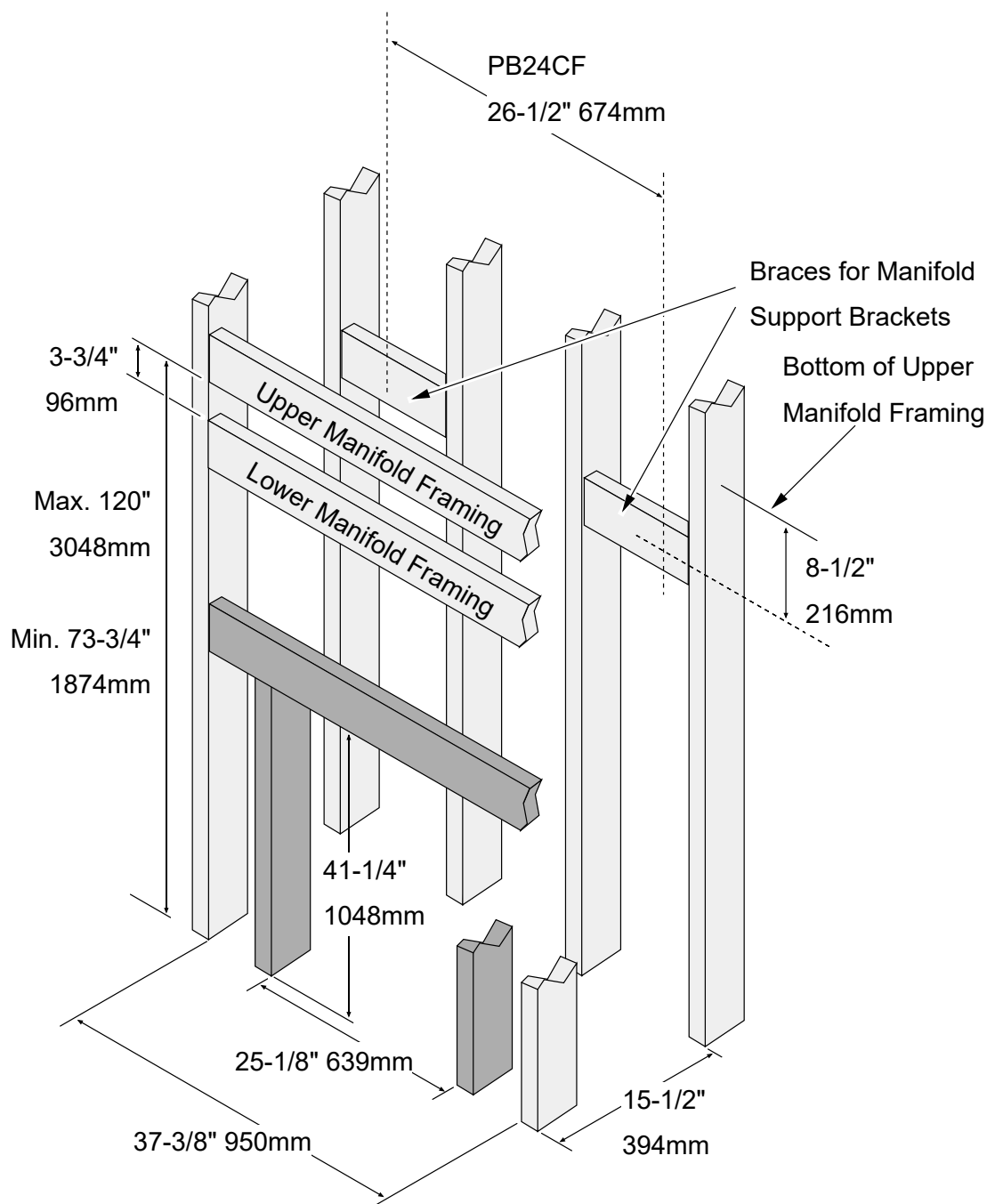


## CoolSmart TV – Installation Requirements



## CoolSmart TV – Framing the Chase

When using this kit, disregard the framing dimensions in the manual and follow the framing instructions shown below\*.



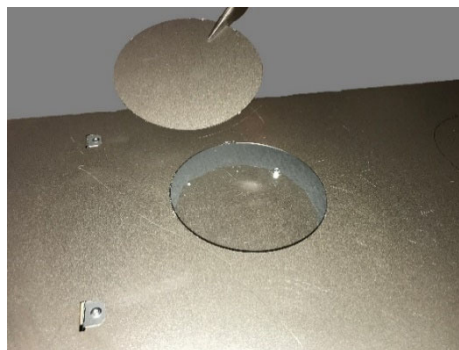
**NOTE:** The dark-shaded framing is typically installed after the manifold is installed. It is used to secure the nailing brackets on the fireplace to the framing. It also provides support for the facing above the fireplace. This framing is not required in some cases (you may use other methods to secure the nailing brackets and facing).

## CoolSmart TV – Fireplace Preparation

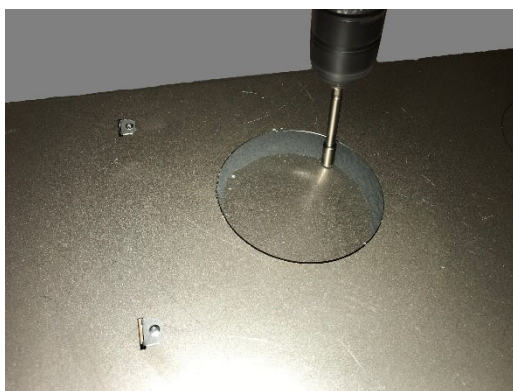
- 1 Remove the knockouts from the top of the fireplace. Use snips or diagonal cutters to snip the tab on the knockouts. Press on the far side away from the tap to pop the edge of the knockout up.



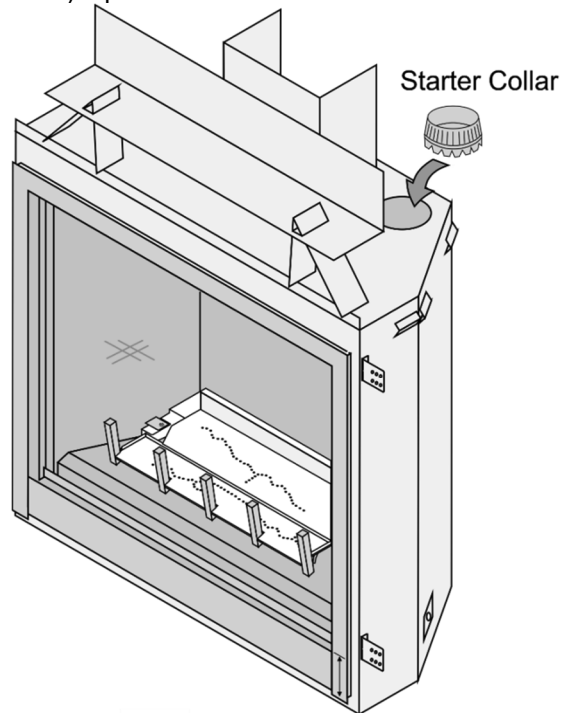
- 2 Grab on to the knockout with pliers and bend it back and forth until the remaining tabs break free. Discard the knock out plate.



- 3 Under each knock out plate, you will find a cover plate held in place with (2) 1/4" screws. Use a nut driver or drill with an extension to remove the (2) screws. Reach in and remove the cover plate. You may discard the plates.



- 4 Insert a starter collar into each of the (2) holes that were uncovered in the previous step and bend the tabs to secure the starter collar to the fireplace. Seal the joints with silicone caulk or aluminum (U.L. 181A-P) tape.



Use silicone to seal the starter collar to the top of the fireplace.



Bend the tabs on the bottom of the starter collar up to lock it in place.

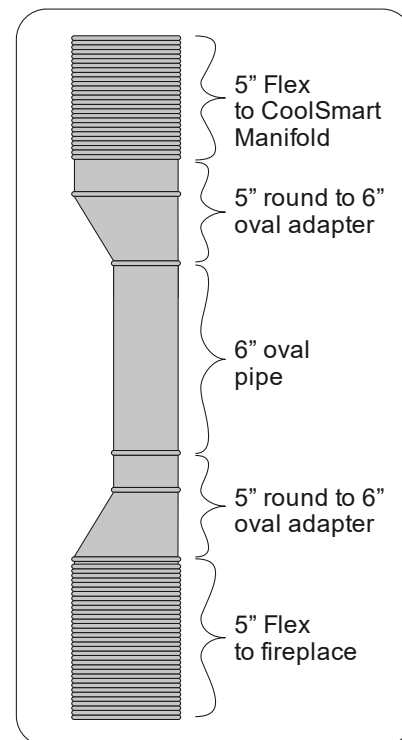
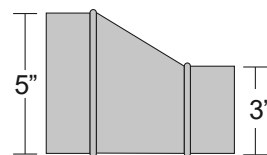
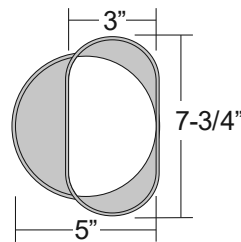
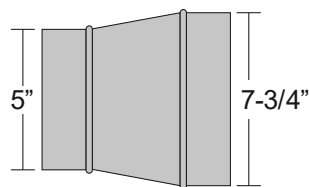
- 5 Install the fireplace into the framed chase.

### Using oval pipe to get past an obstruction

If a situation arises that obstructs the CoolSmart flex vent runs (such as getting past a minimum sideways vent) you may transition the 5" flex vent to a ridged nominal 6" oval pipe to get past the obstruction. Transition back to the 5" round flex and continue to the manifold.

The adapters and ridged pipe should be factory ovalized, not field ovalized.

NOTE: All clearances to combustibles must be maintained.









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